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CONSULTING GEOLOGICAL ENGINEERS

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1993 SUMMARY REPORT

CASINO PROPERTY

WEST-CENTRAL YUKON TERRITORY

FOR

PACIFIC SENTINEL GOLD CORP.

093190

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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FEBRUARY 1994

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SUMMARY

The Casino porphyry copper-gold-molybdenum deposit is located in west-central Yukon. The property is comprised of 795 mineral claims, 18 placer claims and 38 placer leases owned by Pacific Sentinel Gold Corporation.

The porphyry mineralization at Casino was discovered in 1967 and was explored from 1968 to 1973 with 18,002 m of small diameter diamond and large diameter rotary drilling. The deposit is hosted by a Cretaceous subvolcanic intrusive complex with a well defined soil geochemical signature. It exhibits classic hypogene alteration and mineralization zonation overprinted by deep weathering to produce vertical supergene zonation consisting of a copper-depleted leached cap, a copper-enriched supergene zone and the primary hypogene mineralization.

No work was performed on the property from 1973 to 1983. From 1983 to 1985 soil sampling and bulldozer trenching were done to evaluate the heap leach gold potential of the deeply oxidized leached cap overlying the core of the deposit.

In 1991 Archer, Cathro & Associates (1981) Limited optioned the property from Casino Silver Mines Ltd. and then reoptioned it to Big Creek Resources Ltd. From June to September 1992, 4,792 m of diamond drilling were completed in 21 vertical holes. In November 1992 Big Creek merged with Pacific Sentinel and this was followed by a second merger in February 1993 between Pacific Sentinel and Casino Silver Mines.

The 1993 drill program was intended to delineate the deposit. Drilling began March 12 and ended November 10 using up to six rigs to drill 127 holes totalling 50,316 m. All but one of the 1992 drill holes were deepened in 1993.

Other work done in 1993 included environmental and geotechnical studies plus an extensive placer evaluation program required to maintain the placer leases and claims.

The 1994 field season is scheduled to begin in March. Further diamond drilling is required to fully delineate the deposit and provide geotechnical data for open pit design. Environmental, archeological, socio-economic, geotechnical and metallurgical studies, plus additional placer evaluation, will also be conducted in 1994.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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PACIFIC SENTINEL GOLD CORP.

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INTRODUCTION

This report describes work done at the Casino property between March 5 and November 12, 1993 and summarizes results from that program. The work was funded by Pacific Sentinel Gold Corp. and included 50,316 m of diamond drilling plus placer evaluation, environmental data collection and geotechnical studies. The initial budget was $9,032,844 for a program including 48,372 m of drilling ($186.74/m including all auxiliary costs). The actual cost was $8,788,017 ($174.66/m). Pacific Sentinel directed the program with on site technical supervision by B. Bower. Archer, Cathro & Associates (1981) Limited was contracted to manage the program with field operations under the direction of author F. Gish and supervision by author D. Eaton. The Authors' Statement of Qualifications are in Appendix I while a Chronology of Significant Events is detailed in Appendix II.

LOCATION, ACCESS AND INFRASTRUCTURE

The Casino property is located in west-central Yukon at latitude 62°44'N and longitude 138°50'W on NTS map sheets 115J/10 and 15 (Figure 1). Ground access is possible by two winter road routes (Figure 2). The more favourable route extends 194 km northwest from Carmacks: 82 km along the Freegold Road (two-wheel drive during summer and fall); 40 km along the Casino Trail (four-wheel drive); and, 72 km along a bulldozer trail. This route could be upgraded to provide year-round access and, in preparation for this, the government has flown airphotos along the route and conducted wildlife studies on the local cariboo herd. The other road extends north 224 km from Km 1762 on the Alaska Highway. This route has not been used since 1970 and would be much more costly to upgrade than the proposed extension of the Casino Trail.

In summer and fall, surface access to the property is possible utilizing a 45 tonne barge from Minto, coupled with a 19 km road from the Yukon River to the camp. During the 1993 field season, fifteen trips were made between June 3 and September 26 to transport additional diamond drills, mud, trucks, propane and construction materials. Each round trip took approximately three days, including loading and unloading.

If a haulage road was built from Casino to Carmacks, the total distance to the year-round deep seaport at Skagway Alaska would be 544 km. The highway from Carmacks to Skagway is paved and was recently handling about twenty 45 tonne truck loads of concentrate per day from the Curragh Resources Inc. lead-zinc mine at Faro, which is approximately the same road distance from Skagway as Casino.

Most services and supplies required for mineral exploration and mine development are available in Whitehorse. The closest electrical transmission lines to the property pass through Carmacks en route to Faro. The Yukon government has given assurances they will pay for transmission lines to Casino. The government is also reviewing its energy policy and has assigned priority to developing lower cost energy alternatives.

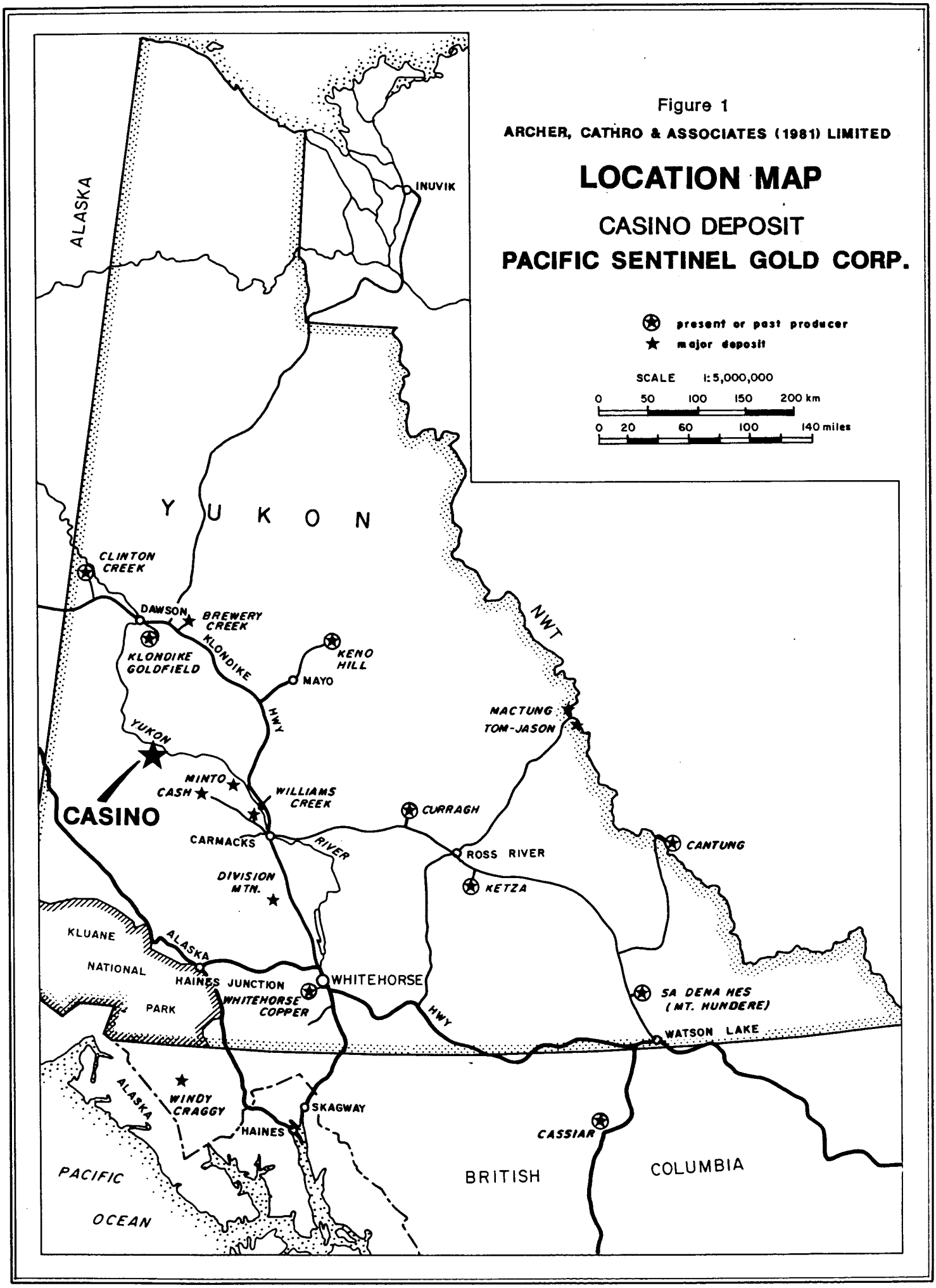


Figure 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LOCATION MAP
CASINO DEPOSIT
PACIFIC SENTINEL GOLD CORP.
present or past producer
major deposit
SCALE 1:5,000,000
0 50 100 150 200 km
0 20 60 100 140 miles
ALASKA
INUVIK
YUKON
NWT
CLINTON CREEK
DAWSON
BREWERY CREEK
KLONDIKE GOLDFIELD
KLONDIKE HWY
KENO HILL
MAYO
YUKON
CASINO
MINTO
CASH
WILLIAMS CREEK
CARMACKS
RIVER
DIVISION MTN.
CURRAGH
MACTUNG
TOM-JASON
ROSS RIVER
KETZA
CANTUNG
KLUANE
NATIONAL
PARK
ALASKA
HAINES JUNCTION
WHITEHORSE
WHITEHORSE COPPER
HWY
SA DENA HES (MT. HUNDERE)
WATSON LAKE
ALASKA
WINDY CRAGGY
SKAGWAY
HAINES
CASSIAR
PACIFIC
OCEAN
BRITISH
COLUMBIA

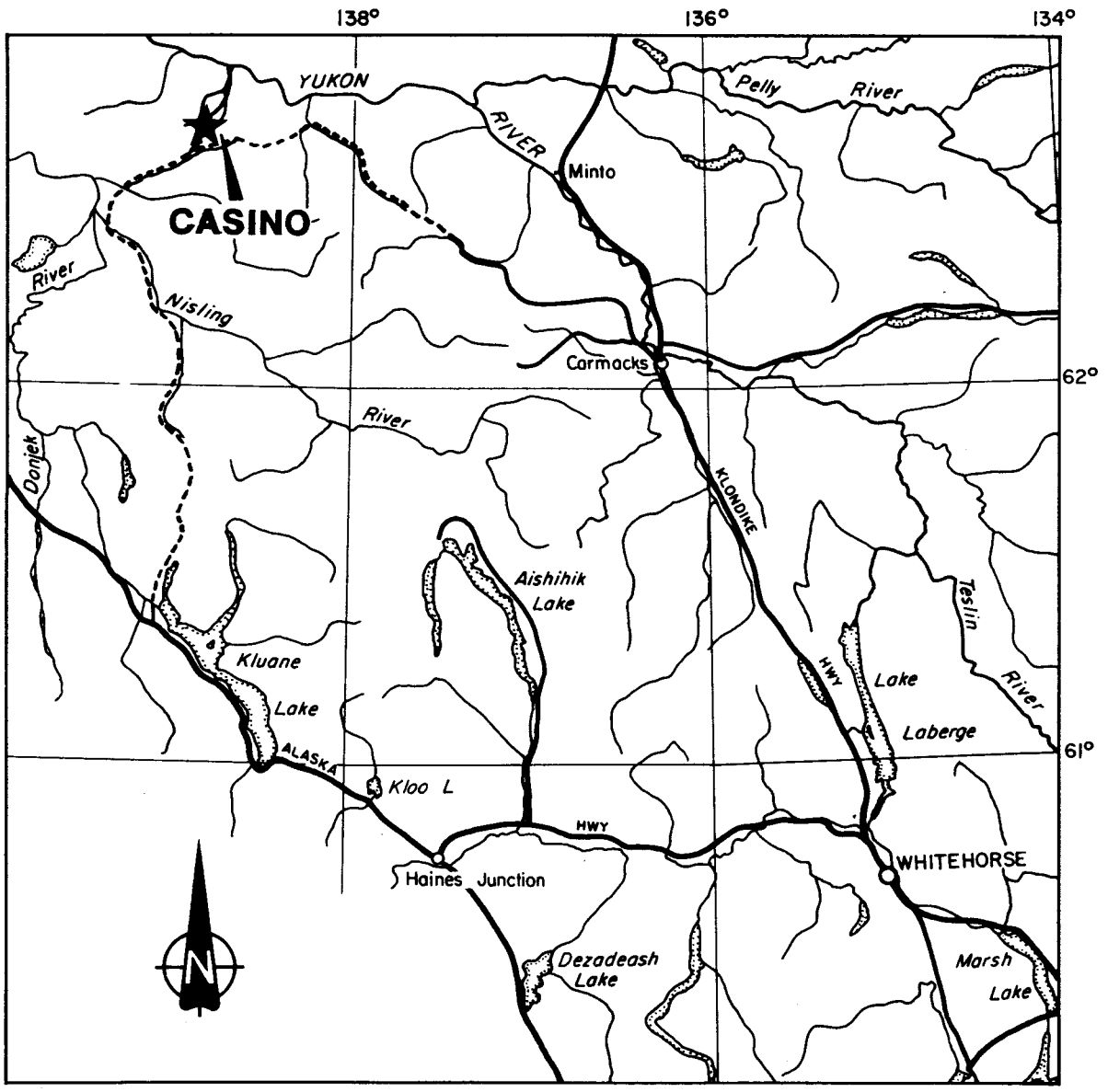


Figure 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ACCESS ROUTES

CASINO DEPOSIT

PACIFIC SENTINEL GOLD CORP.

——— Highway

——— Industrial road

----- Winter road

SCALE 1:2,000,000

0 20 40 60 80 100 km

0 10 20 30 40 50 60 miles

CLAIM OWNERSHIP AND STATUS

The Casino property is 100% owned by Pacific Sentinel, a junior mining company trading on the Vancouver Stock Exchange and NASDAQ. The claims are subject to a purchase agreement with Archer Cathro.

The property consists of 795 mineral claims (approximately 133 sq km) plus 18 placer claims (approximately 2 sq km) and 38 placer leases (approximately 50 sq km) that overlie parts of the mineral claims and protect proposed tailings pond, waste dump, mill and mine sites. Figure 3 outlines the general area of mineral and placer holdings while Figures 4 to 7 show the location of specific claims and leases.

The only changes in property holdings during 1993 were the addition of the placer claims (purchased in November) and five placer leases staked in September. An additional sixty mineral claims were staked in January 1994. All of the claims and leases are filed with the Whitehorse Mining Recorder as shown in Table 1 on the following page.

An extensive claim tagging program was conducted during the 1993 field season. A total of 1050 claim posts from the claims staked in 1992 were relocated and tagged. Only twelve posts were not found (see Table 2 following Table 1) and these should be repositioned in 1994 using replacement posts approved by the mining recorder.

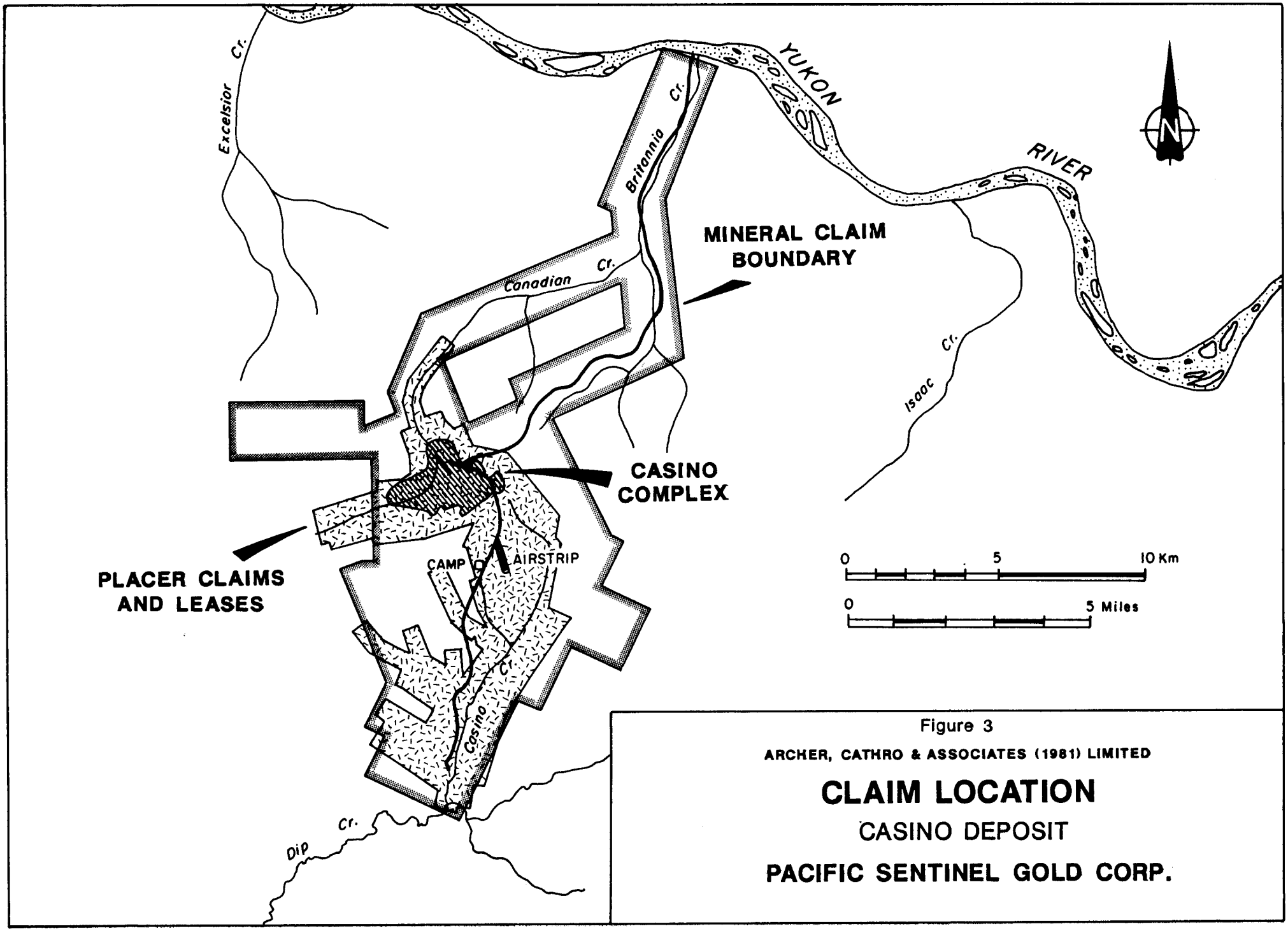


Figure 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATION

CASINO DEPOSIT

PACIFIC SENTINEL GOLD CORP.

TABLE 1
CLAIM DATA, CASINO PROPERTY

Claim Name	Record Number	Expiry Date
Cat 1-4	92201-92204	March 25, 1997
5-12	92205-92212	March 25, 1998
13-20	92213-92220	March 25, 1997
21-22	92221-92222	March 25, 1998
23-24	92764-92765	March 25, 1998
25-42	92766-92783	March 25, 1997
47-50	95724-95727	March 25, 1998
51-52	95728-95729	March 25, 1997
53-56	95730-95733	March 25, 1996
57-62	95734-95739	March 25, 1998
63-70	95740-95747	March 25, 1997
1-2 Fr.	Y51846-Y51847	March 25, 1999
3-4 Fr.	Y39601-Y39602	March 25, 1999
22 Fr.	Y36686	March 25, 1998
23 Fr.	Y39603	March 25, 1997
24 Fr.	Y51848	March 25, 1997
26 Fr.	Y51849	March 25, 1999
28 Fr.	YB36999	March 25, 1998
30 Fr.	YB37000	March 25, 1998
32 Fr.	YB37001	March 25, 1998
34 Fr.	YB37002	March 25, 1998
47 Fr.-48 Fr.	Y36687-Y36688	March 25, 1999
57 Fr.	Y36689	March 25, 1999
62 Fr.	Y36690	March 25, 1999
Joe 21-24	Y619-Y622	March 25, 1997
89-104	Y10693-Y10708	March 25, 1999
91 Fr.-96 Fr.	Y51850-Y51855	March 25, 1999
Mouse 1-5	Y35192-Y35196	March 25, 1999
6 Fr.	Y35197	March 25, 1999
7-16	Y35198-Y35207	March 25, 1999
89-90	Y35483-Y35484	March 25, 1999
97-98	Y35491-Y35492	March 25, 1999
123-128	Y35517-Y35522	March 25, 1999
161F-163 Fr.	Y35582-Y35584	March 25, 1999
Helicopter 1	4252	March 25, 1998
Bomber 1	56979	March 25, 1998
2	56987	March 25, 1998
3	56980	March 25, 1998
5	56981	March 25, 1998
6	56988	March 25, 1998
7	56982	March 25, 1997
8	56989	March 25, 1997
Airport 1	56983	March 25, 1997
2	56990	March 25, 1997
3	56984	March 25, 1997
4	56991	March 25, 1997
5	56985	March 25, 1997
6	56992	March 25, 1997
7	56986	March 25, 1997
8	56993	March 25, 1997

Claim Name	Record Number	Expiry Date
Lost 1 Fr.-3 Fr.	Y35585-Y35587	March 25, 1999
Dip 1-36	YB36552-YB36587	March 25, 1997
5F-8F	YB36981-YB36984	March 25, 1998
37-81	YB37422-YB37466	September 10, 1998
Cas 1-42	YB36588-YB36629	March 25, 1997
A 1-54	YB37009-YB37062	September 10, 1998
B 1-47	YB37063-YB37109	September 10, 1998
C 1-46	YB37110-YB37155	September 10, 1998
D 1-64	YB37156-YB37219	September 10, 1998
E 1-32	YB37220-YB37251	September 10, 1998
F 1-48	YB37252-YB37299	September 10, 1998
F 49	YB37678	September 10, 1998
G 1-32	YB37300-YB37331	September 10, 1998
H 1-90	YB37332-YB37421	September 10, 1998
I 1-38	YB37640-YB37677	September 23, 1998
J 1-40	YB46605-YB46644	January 28, 1995
K 1-20	YB46645-YB46664	January 28, 1995
Prospecting Lease	9008	August 5, 1994
	9033-9053	September 11, 1994
	9055-9063	September 11, 1994
	9074	September 23, 1994
	9076	September 23, 1994
	9219-9223	August 13, 1995
Placer Claims		
Angel 1-3	P11628-P11630	December 12, 1996
Roy 1	43200	December 12, 1996
Disc Al 1	43201	December 12, 1996
Roy 2	43221	December 12, 1996
Bob	P03756	December 12, 1996
Creek 1-10	P03815-P03824	December 12, 1996
Jo	P32133	December 12, 1996

TABLE 2
POSTS NOT FOUND OR TAGGED

CAS 19 post 2	CAS 41 post 2
20 post 2	42 post 2
21 post 1	16 post 1
22 post 1	17 post 2
23 post 2	35 post 2
24 post 2	36 post 2

WORK HISTORY

Initial exploration in the Casino area was directed toward placer gold and silver-lead veins on the periphery of the porphyry deposit. The first record of work was placer claims staked on Canadian Creek in April 1911 by J. Britton and C. Brown. D.D. Cairnes, a Geological Survey of Canada geologist, examined the placer working in 1917 and recognized huebnerite in the heavy mineral concentrates. He suggested that the gold and tungsten mineralization was derived from an intrusive complex on Patton Hill which is now recognized as the core of the porphyry deposit. The first mineral claim in the area was staked in 1917 by N. Hansen. A number of other claims were staked over parts of the deposit between 1920 and 1950 but no significant work was done and no lode mineralization was reported. Early gold production from the Canadian Creek placer operation is not known but the most recent work (1980-85) yielded about 50 kg (1615 troy ounces). During the Second World War a small amount of tungsten was also recovered.

Silver-lead veins were discovered about 3 km south of the Canadian Creek placer workings in the early 1940's by J. Meloy and A. Brown. They optioned the claims in 1948 to Noranda Mines Limited, which performed hand trenching, and again in 1963 to a joint venture between Rio Tinto Canada Exploration Limited and Yukon Consolidated Gold Corporation Limited, which did bulldozer trenching. L. Proctor purchased the claims in 1965 and formed a junior mining company, Casino Silver Mines Limited, to develop the property. Casino Silver Mines completed bulldozer trenching on the veins later that year and shipped 44 tonnes of hand cobbed argentiferous galena to the Cominco smelter at Trail. In the next two years Casino Silver Mines tested the Bomber vein with a 366 m adit and explored for other veins by soil geochemical, magnetic and electromagnetic surveys, bulldozer trenches and 13 diamond drill holes totalling 1441 m (later

work on the porphyry deposit showed that these holes tested a transported limonite gossan precipitated from acidic water draining the porphyry). The Bomber vein was leased in 1976 to E. Jacobs who explored with 49 m of drifting, 55 m of raising and extensive surface trenching between 1978 and 1980. During this period a total of 328.5 tonnes of ore were hand cobbed and shipped to Trail. The average grade of the 372.5 tonnes smelted between 1965 and 1980 was 3689 g/t Ag, 17.1 g/t Au and 48.3% Pb plus about 5% Zn, 1.5% Cu and 0.02% Bi.

Porphyry exploration at Casino began in late 1967 when the Brynelson Group acquired control of Casino Silver Mines. A. Archer of Archer Cathro had visited the claims earlier that year and recognized the silver-lead veins occurred peripheral to a large alteration zone that could represent a deeply weathered porphyry copper deposit. In 1968 he persuaded the new owners to perform grid soil sampling and mapping over the altered rocks on Patton Hill. This work outlined a large area of strongly anomalous copper and molybdenum response. Brameda Resources Limited optioned the claims in May 1969 and drilled the discovery hole (P1) shortly afterward. With the positive results, Quintana Minerals Corp. became involved (purchasing Brameda Resources shares) and the program quickly expanded. By August 1970 detailed mapping, IP and magnetic surveys, 49 BQ and NQ diamond drill holes (11,254 m), 35 twelve cm diameter rotary drill holes (5328 m) and preliminary metallurgical studies had been completed. Although results were encouraging and a 50 tonne/day test mill was en route to the property, all work was terminated abruptly when terms for development financing could not be negotiated and Quintana Minerals withdrew its support.

In 1973 Brameda Resources exchanged its option on the property for a 38.4% equity interest in Casino Silver Mines and subsequently sold this interest to Teck Corp. Casino Silver Mines conducted EM surveys, reanalyzed soil sample splits for gold and drilled 7 NQ diamond drill holes (1420 m) later that year.

Although Casino was recognized as a major resource, the property was inactive throughout most of the 1970's and early 1980's because of low copper prices. Casino Silver Mines soil sampled much of the property again and analyzed for gold in 1983 and optioned the oxidized leach cap portion of the porphyry deposit to a joint venture consisting of Permian Resources Limited and Nordac Mining Corp. in 1985. Work done that year consisted of additional soil geochemical surveys, cyanide leach tests and bulldozer trenching to test heap leach gold potential. Results showed that the weathered rocks typically contains between 0.27 and 1.0 g/t gold over most of the deposit but it was concluded that these grades were too low to justify a stand-alone heap leach operation.

In November 1991 Archer Cathro optioned the property from Casino Silver Mines and later assigned the option to Big Creek Resources Ltd. Drilling began in June 1992 and, after encouraging results were obtained from initial holes, Pacific Sentinel proposed a merger between themselves and Big Creek. By the end of the field season, a total of 4729 m of drilling had been completed in 21 vertical holes. The Pacific Sentinel-Big Creek merger was completed in November 1992 and shortly thereafter a second merger took place between Pacific Sentinel and Casino Silver Mines. During the 1992 field season, the property was substantially expanded with the staking of 583 mineral claims and 33 placer leases.

CAMP, LOGISTICS AND PERSONNEL

The Casino camp is located in the south-central part of the property, 300 m west of the airstrip and approximately 2.5 km by road from the main drill area. It has accommodation and dining facilities for up to 70 people and consists of main dining and dry complex, six bunkhouse trailers, office tent, womens' dry tent, drillers' dry tent, first aid tent, common room tent and twelve sleeping tents. Of the six bunkhouse trailers, two were part of the original Casino camp while the other four were salvaged from the abandoned Canadian Creek camp in 1993. Power for the camp is supplied by 17 kw and 11 kw diesel generators with a 7 kw diesel generator for emergency backup.

Core facilities are situated at the airstrip. The main building is a core logging, geotechnical and core splitting complex set up to handle six drills. There is also a separate trailer equipped with a fume hood and rock saw for cutting and staining drill core. A nearby tent houses a small lab for geotechnical soil studies. Power for the core facilities is supplied by an 11 kw diesel generator.

Core storage was consolidated in 1993 and is now located at the airstrip adjacent to the core logging complex. Thirty-four core racks house approximately 56,500 m of core drilled in 1969, 1973, 1992 and 1993. Appendix III shows which holes are stored in each rack. Six extra core racks were built in 1993 to hold the initial 9,000 m of core that will be drilled in 1994.

The camp opened March 5 and closed November 12 with a peak work force of 64 and an average of 55. A total of 47 individuals worked for Archer Cathro at Casino in 1993, of those 28 (60%) were hired in Yukon, 15 (31%) were female and 8 (17%) were First Nation. The winter watchman, Larry Smith, started November 10. His duties include keeping regular meteorological and wildlife records.

Transportation

Year-round access to the property is provided by an 800 m gravel airstrip suitable for aircraft up to DC-3 in size. The airstrip slopes to the south at about 10° allowing approach only from the downhill (south) end. A variety of aircraft are available for charter in Whitehorse, 305 km to the south (Table 3). Groceries, propane, regular gas, crew and miscellaneous supplies were flown in on regularly scheduled DC-3 flights from Whitehorse (every Tuesday and Friday). Departing personnel, core samples and empty propane bottles were back-hauled on these flights. Approximately 48 additional flights were made from Whitehorse (usually with smaller aircraft) to transport urgently needed items, excess freight, or personnel with awkward travel schedules.

Most of the heavier and bulkier freight that was not transported by barge was flown in from the road-accessible Minto airstrip, located 103 km east of the property and 260 km by road north of Whitehorse. To avoid the risk of a diesel spill on the Yukon River, all of the diesel was flown to the property by DC-3 from Minto at a cost of $0.38 per litre. Aviation gas and diesel were stored at Minto in two tankers which were removed at the end of the field season. At Casino, the diesel was stored in five tanks adjacent to the airstrip. The tanks have a total capacity of 77,000 litres (17,000 gallons) and are surrounded by a deep trench and a berm to contain the fuel in case of a spill.

TABLE 3
AIRCRAFT UTILIZATION MARCH TO NOVEMBER 1993

Aircraft	Return Trips	Number of Trips	Freight cost/lb	Freight cost/kg
DC-3	Whitehorse to Casino	115	$0.44	$0.98
	Minto to Casino	214	$0.17	$0.39
Cessna 206	Whitehorse to Casino	21	$0.67	$1.50
Islander	Whitehorse to Casino	19	$0.65	$1.43

On site transportation utilized an extensive road system and is provided by the following vehicles.

Vehicles owned by Pacific Sentinel

1 4x4 Suburban (emergency transport vehicle)
2 4x4 3/4 ton pickups
1 4x4 Bronco
3 4x4 Honda all terrain vehicles.

Vehicles owned by E. Caron Diamond Drilling

8 4x4 3/4 ton pickups
1 hiab-equipped flat-bed truck

Communication

Primary communication for the site was a Skycom satellite system provided by Infosat Telecommunications Ltd. of Burnaby, B.C. Of the four satellite lines, one was dedicated to a fax machine while the others were telephone lines located in the office, common room and core logging facility. The system provided to be very reliable. The only significant disruption occurred when a lightning strike 200 m from camp damaged some electronic components and the system was down for three days until an Infosat technician could arrive to replace them. Backup communication was supplied by a radio telephone (YJ3-9208) monitoring the Beaver Creek channel and a single side band radio (VGN 369) monitoring frequency 4441.

First Aid and Safety

There were four industrial first aid attendants in camp (two A tickets, one B and one C) and most of the drill contractor's employees held St. John standard certificates. A well equipped first aid tent and a four-wheel drive emergency transport vehicle were also on site.

There were two fire suppression stations on the property, one in the main camp and the other at the core logging facility. Each station contained a gasoline powered water pump, hose, two backpack water pumps, picks and shovels. Fire extinguishers were located throughout the camp, at work stations, and near equipment.

PHYSIOGRAPHY, VEGETATION, WILDLIFE, FISHERIES, HYDROLOGY AND CLIMATE

Physiography

The Casino property is located in the Dawson Range, a northwest-trending belt of well rounded ridges and hills that peak between 1500 and 1675 m. The hills rise above the Yukon Platform, most of which has been peneplaned at about 1250 m and deeply incised by mature dendritic drainages of the Yukon River watershed. Although the Dawson Range escaped Pleistocene glaciation, minor alpine glaciation has produced a few small cirques and terminal moraines. Local elevations range from 1580 m on a ridge along the western property boundary to 430 m on the banks of the Yukon River.

Vegetation

A vegetation survey was conducted by Hallam Knight Piesold Ltd. in July 1993. Sampling involved transect documentation of understorey and ground cover species. The species percent coverage was determined for dominant trees, tall shrubs, shrubs, herbs, mosses, lichens, liverworts, tree seedlings and fungi.

Treeline in the vicinity of the property is about 1370 m on south-facing slopes dropping to 1070 m on the cooler, north-facing slopes. The deposit is located above treeline and is lightly vegetated with lichen, moss, grass, wide spaced scrub birch, willow and a few stunted spruce. Below treeline, spruce and poplar are prevalent with some minor groves of birch and aspen. Slide alder, buckbrush and moss are common shrubs and ground cover. The largest trees are found in the lower reaches of Brittania and Casino Creek attaining maximum heights of 20 to 25 m. The Hallam Knight Piesold report on the vegetation at Casino by can be found in Appendix V.

Wildlife

Two aerial wildlife surveys were completed by Hallam Knight Piesold in early June and late September 1993. A wildlife observation log was maintained throughout the field season by Casino field employees and during the winter by the site watchman.

The Casino area provides good habitat for moose with sightings reported in both the Casino Creek and Brittania/Canadian Creek watersheds. A small population of caribou was seen in the headwaters of Canadian Creek from June to August. Frequent black bear sightings were reported on the property. Grizzly bear, often accompanied by cubs, were spotted intermittently throughout the summer. Lynx were sighted twice in the vicinity of lower Brittania Creek. Fox were observed throughout the summer in and around Patton Hill. Wolverine, pine marten and weasel were also sighted in the Brittania/Canadian Creek watershed. A variety of rodents were observed including beaver, hoary marmot, porcupine, bog lemming, boral vole and weasels. A detailed report on the wildlife study by Hallam Knight Piesold can be found in Appendix V.

Fisheries

Fisheries surveys were conducted by S. Blundell of Hallam Knight Piesold on three separate occasions in June, August and September at the Casino property. Electrofishing and baited traps were used to sample the areas within the defined reaches of Dip, Casino, Canadian and Brittania Creeks. Data collected from the survey was used to determine species presence, species composition and basic population characteristics of the watersheds surrounding Casino.

The Brittania Creek/Canadian Creek watershed seems to provide a spawning and rearing habitat for arctic grayling as they were found during all three fish surveys. Slimy sculpin, round whitefish and one juvenile burbot were also caught in the lower reaches of these creeks. Juvenile chinook salmon were observed in the lower reaches of Brittania Creek during the June and August surveys but not in September. Spawners were not observed in Brittania Creek therefore the value of this system for the purpose of spawning is questionable. Arctic grayling were found in the lower reach of Casino Creek during all three surveys. However, no fry were seen, suggesting that this system likely provides rearing habitat but little or no spawning habitat. Slimy sculpins were observed in the lower reaches of Casino and Dip Creeks in all three surveys. A detailed report on the fisheries study by Hallam Knight Piesold appears in Appendix V.

Hydrology

Hydrology staff gauges were installed by S. Blundell and J. Gibson of Hallam Knight Piesold at five stations (Figure 8) and monitored three times a week by Casino field personnel from June 3 to October 31. An automatic water level recorder was installed at the mouth of Casino Creek. Peak runoff was in late July at all stations, corresponding with high precipitation values. A detailed report on the data collected from the staff gauges is included in Appendix V.

As a follow up to the August 12, 1992 Proctor Gulch pH sampling (Figure 9), Proctor Gulch was tested again at the same stations on July 9, 1993 (Figure 10). Comparison of the data shows similar results with Proctor Gulch slightly more acidic (pH 3.5 to 3.7) and Casino Creek slightly less acidic (pH 5.9 to 5.6) in 1993 than in 1992.

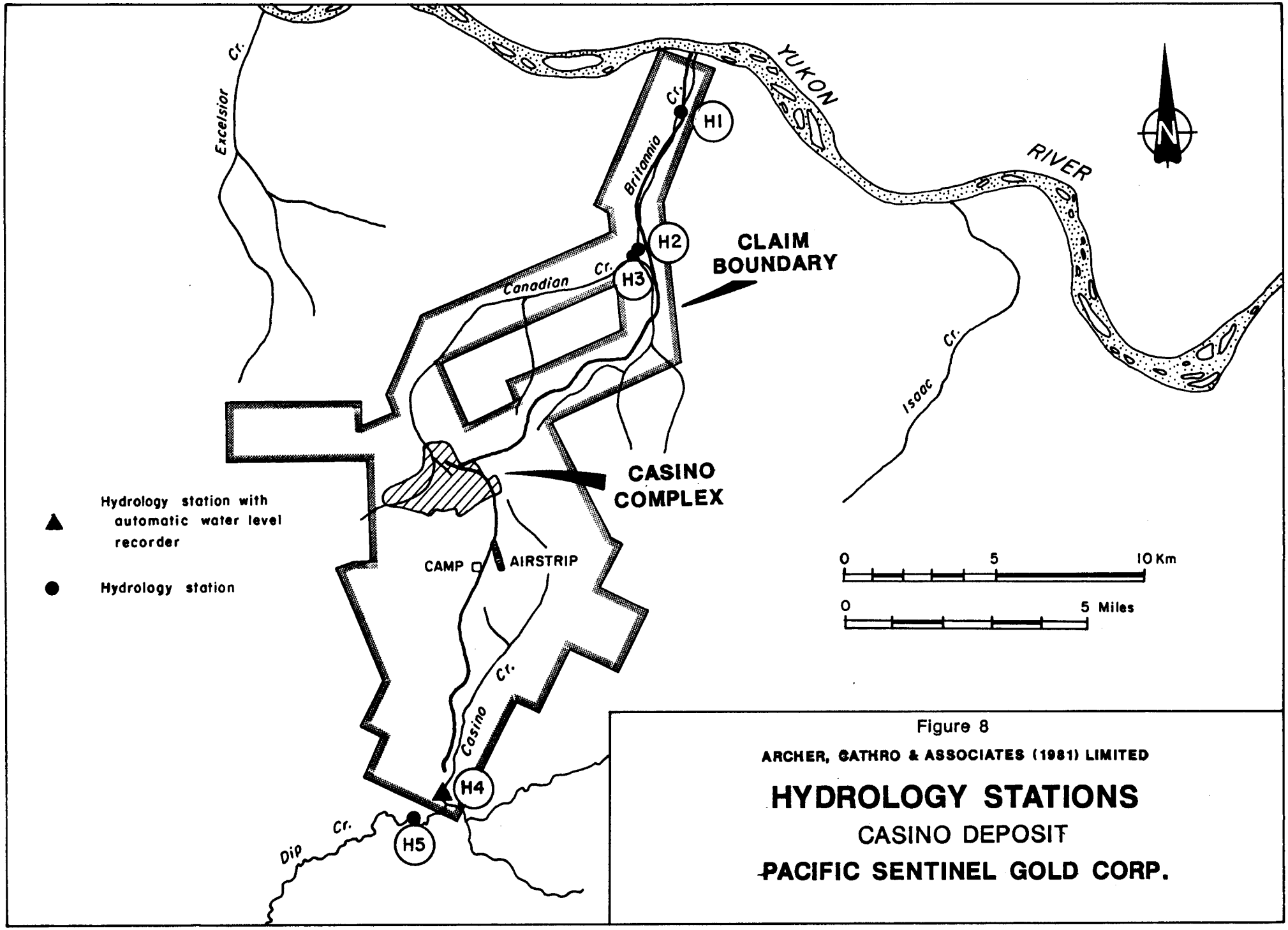


Figure 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

HYDROLOGY STATIONS

CASINO DEPOSIT

PACIFIC SENTINEL GOLD CORP.

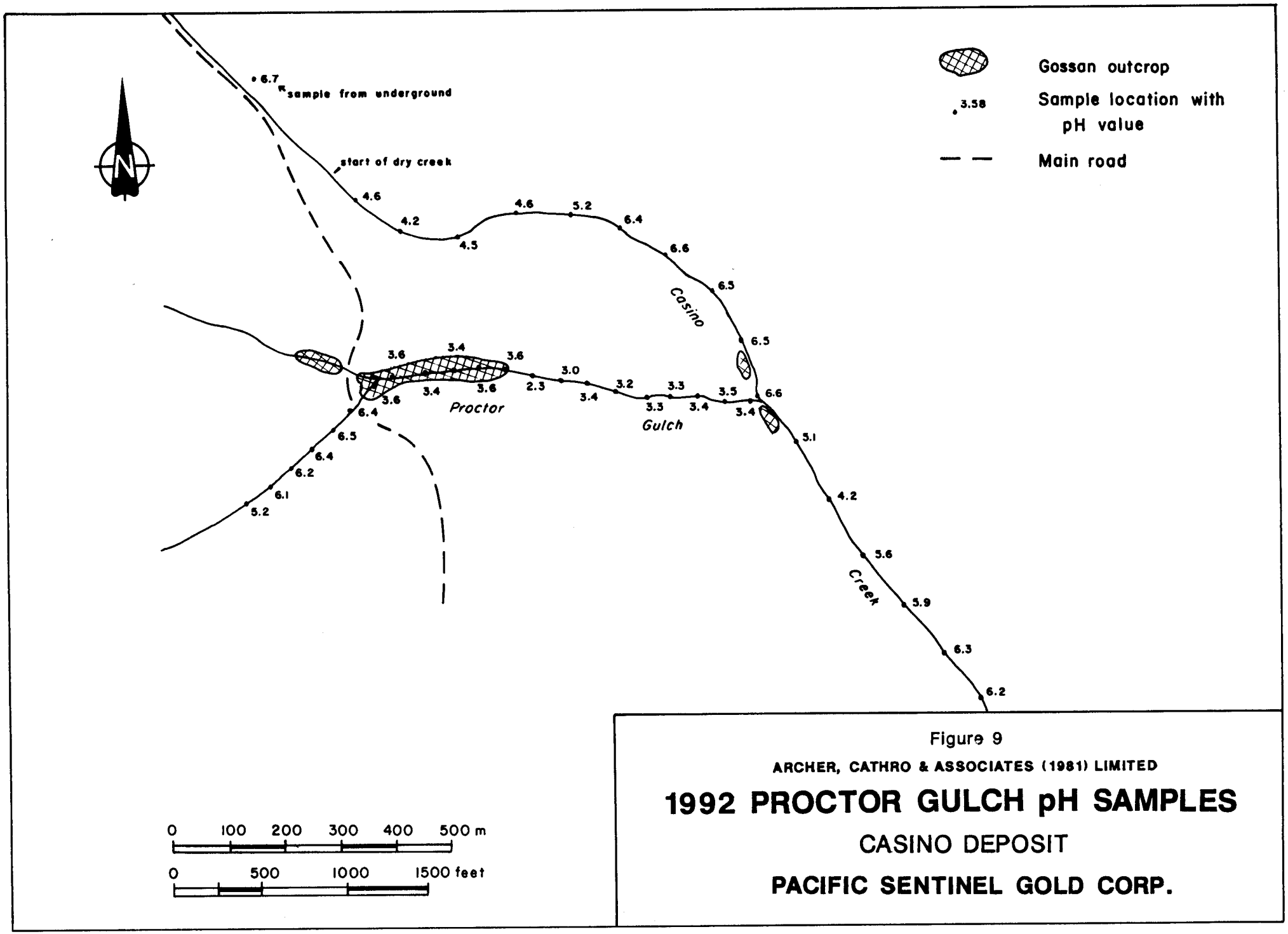


Figure 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1992 PROCTOR GULCH pH SAMPLES

CASINO DEPOSIT

PACIFIC SENTINEL GOLD CORP.

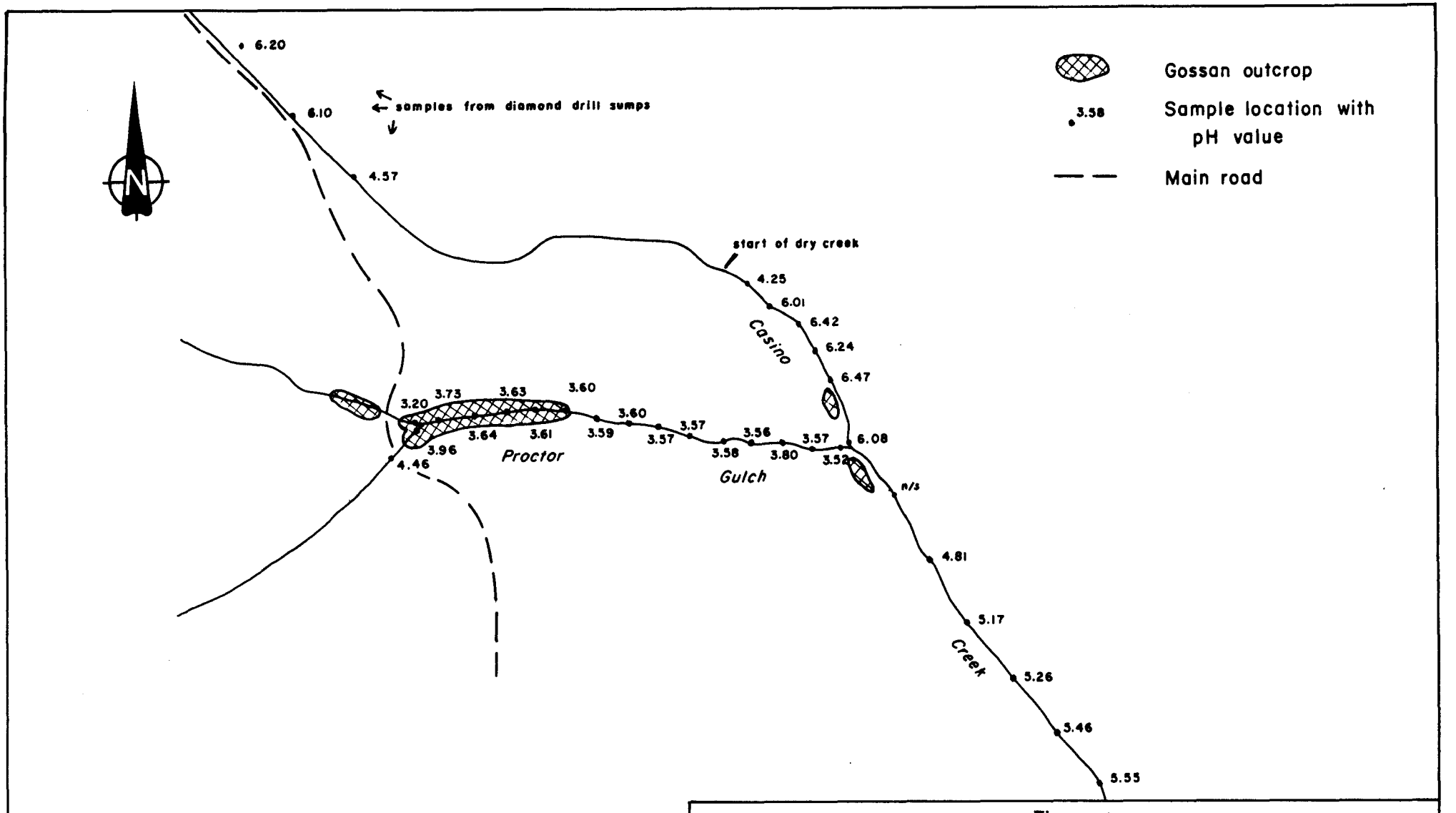


Figure 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

1993 PROCTOR GULCH pH SAMPLES

CASINO DEPOSIT

PACIFIC SENTINEL GOLD CORP.

Meteorology

A basic meteorological station consisting of a maximum and minimum thermometer (enclosed in a louvred housing) and a bucket rain gauge have been installed at the Casino camp. On site meteorological data collection began in March and is continuing throughout the winter by the site watchman. Temperatures and precipitation are measured twice daily by a Casino field employee. During the winter, snowfall is measured daily. An established snowpack station exists on the property and is monitored for Water Resources (YTG) by the Carmacks RMO.

The following data was collected from March 19 to November 30. Extreme maximum and minimum temperatures were 25.3°C (July 16) and -35.0°C (November 20), with monthly means ranging from 12.4°C (July) to -10.3°C (November). Monthly precipitation ranged from 4.60 mm (April) to 123.30 mm (July). A detailed report on the meteorological data collected at Casino can be found in the Hallam Knight Piesold report in Appendix V.

REGIONAL GEOLOGY

The following sections on the regional geology, property geology and mineralization are drawn extensively from a Pacific Sentinel report by J. Payne, B. Bower and C. Delong dated January 31, 1994 entitled Casino Deposit.

The Casino deposit occurs in a zone where the Yukon Cataclastic Terrane to the north is overlapped by the Yukon Crystalline Terrane to the south. An elongate band of ultramafic rocks 1 km north of the Casino deposit may occur along a major tectonic suture separating the two terranes. The southern terrane contains the Dawson Range Batholith with roof pendants and blocks of the metamorphic rock. The northern terrane is dominated by metamorphic rocks with scattered intrusions of the Coffee Creek Suite which is petrographically distinct from the Dawson Range Batholith. For the purposes of this report, the metamorphic rocks are undifferentiated and collectively referred to as the Yukon Metamorphic Complex.

Table 4 shows the major geological units with isotopic ages (where available). All isotopic dates are based on U-Pb ratios in zircons analyzed by Dr. J.R. Mortenson in 1993 at the University of British Columbia.

TABLE 4
MAJOR GEOLOGICAL UNITS AND ISOTOPIC AGES

Map Unit	Major Geological Units	Isotopic Age
7	Latite (Tertiary/Upper Cretaceous)	
CASINO INTRUSIONS (Upper Cretaceous)		
6	Microbreccia	
5	Patton Porphyry	72-74 Ma
4	Intrusion Breccia	
3	Quartz Monzonite	
DAWSON RANGE BATHOLITH (Middle Cretaceous)		
2	Quartz Diorite, Granodiorite	102-104 Ma
YUKON METAMORPHIC COMPLEX (Paleozoic?)		
1	undifferentiated gneiss, meta-diorite/amphibolite, quartzite	

Rocks of the Yukon Metamorphic Complex include quartz-biotite-plagioclase gneiss and metamorphosed granodiorite to quartz diorite with lesser quartzite and meta-diorite/amphibolite. All are complexly deformed. Original deformation probably occurred during the Late Triassic to Early Jurassic but may have been as early as Late Paleozoic. Weaker deformation probably accompanied the intrusion of the west-northwest trending Dawson Range Batholith.

The Dawson Range Batholith is dominated by medium- to coarse-grained quartz diorite to granodiorite, with occasional fine- to medium-grained diorite. It contains scattered to locally abundant centimetre-sized xenoliths of meta-diorite belonging to the Yukon Metamorphic Complex.

The Casino Intrusions are stocks up to 5 km across which intrude the Dawson Range Batholith. They are concentrated in a west-northwest trending belt along the Big Creek Lineament and its northwestern extension (including Casino). Most Casino Intrusions are dominated by biotite-bearing to leucocratic, granodiorite and quartz monzonite. Some contain a hypabyssal phase comprised of porphyritic dacite (Patton Porphyry at Casino).

Most of the major porphyry copper $\pm$ molybdenum $\pm$ gold occurrences in the Dawson Range lie in a 110 km long belt developed along the southwest side of the Big Creek Lineament and its northwesterly extension. The Casino deposit is located near the north end of the belt about 1 km southwest of the lineament.

PROPERTY GEOLOGY AND MINERALIZATION

The Casino deposit is hosted by an intrusive complex consisting of quartz monzonite (Unit 3), intrusion breccia (Unit 4), Patton Porphyry (Unit 5) and microbreccia (Unit 6). This complex cuts rocks of the Dawson Range Batholith (Unit 2) and Yukon Metamorphic Complex (Unit 1), and is itself cut by post-mineralization latite (Unit 7). The property geology is shown on Figure 11 while the major units are described below. The property was remapped in 1993 by J. Payne and the descriptions are primarily based on his mapping plus observations made by core loggers, notably B. Bower and C. Delong.

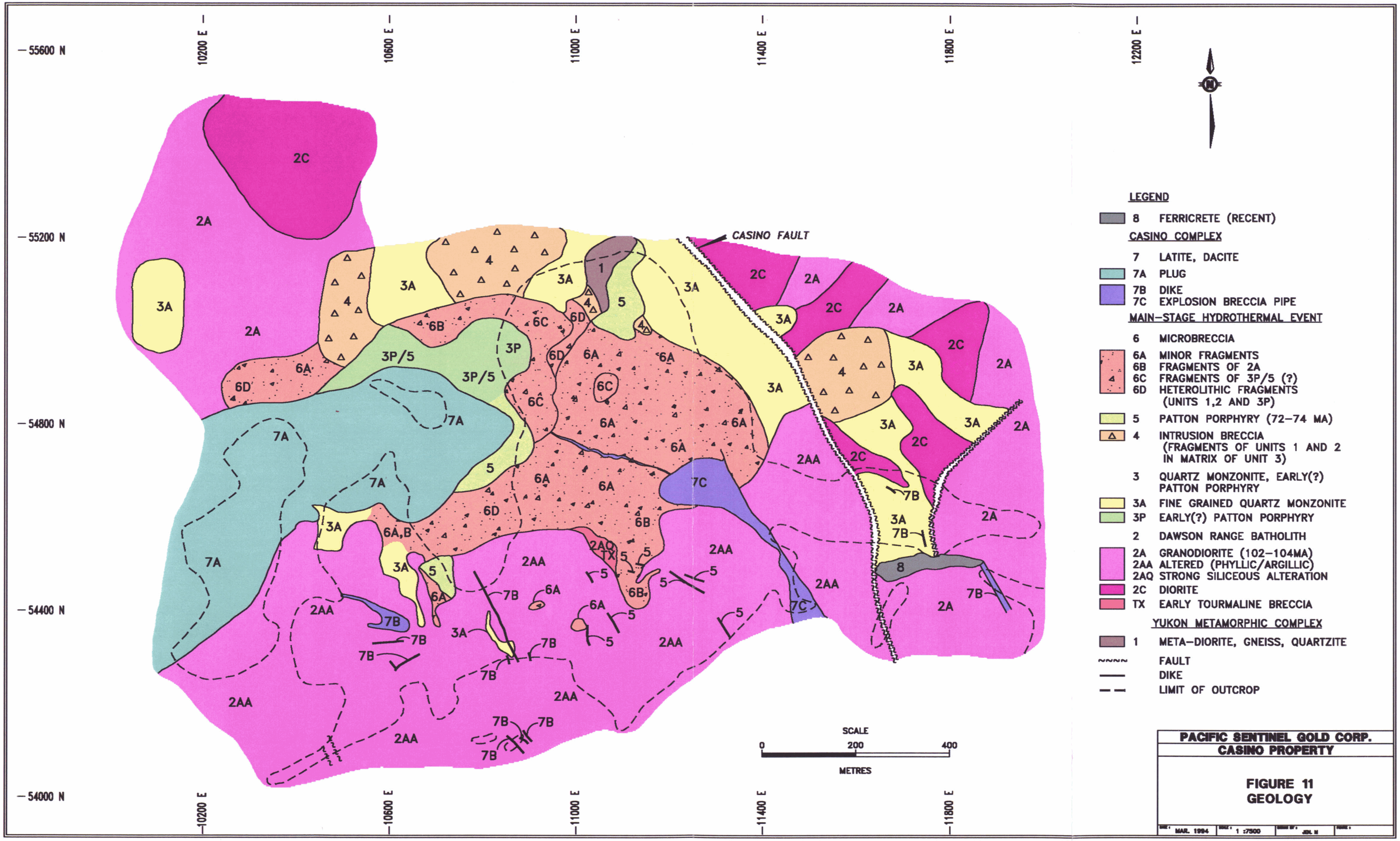
Yukon Metamorphic Complex (Unit 1) - Paleozoic?

These rocks occur as country rocks on the northwest side of the intrusive complex and as fragments in the intrusion breccias (Unit 4) in the northern and northeastern parts of the Casino deposit. The most common rock type is mafic gneiss consisting of plagioclase, biotite and quartz. Less abundant types include meta-diorite/amphibolite, quartz-rich and intermediate gneiss, and quartzite.

Dawson Range Batholith (Unit 2) - Middle Cretaceous (102-104 Ma)

The Dawson Range Batholith is the main country rock to the deposit. It is predominantly granodiorite in composition but also includes some quartz monzonite and diorite. The granodiorite is subdivided into a hornblende phase (mainly to the west, south and east) and a biotite-hornblende phase in the north. Early formed diorite is concentrated in the north and northeast, particularly east of the Casino Fault. Some intrusions are foliated near their margins, particularly in the north and in the block east of the Casino Fault.

Granodiorite is characterized by scattered hornblende phenocrysts ranging from 0.5 to 1.2 cm long. It commonly contains 10 to 20% mafic minerals with hornblende more abundant than biotite except in the biotite-hornblende phase to the north. Subhedral to euhedral plagioclase commonly shows prominent



LEGEND

8 FERRICRETE (RECENT)

CASINO COMPLEX

7 LATITE, DACITE
7A PLUG
7B DIKE
7C EXPLOSION BRECCIA PIPE

MAIN-STAGE HYDROTHERMAL EVENT

6 MICROBRECCIA
6A MINOR FRAGMENTS
6B FRAGMENTS OF 2A
6C FRAGMENTS OF 3P/5 (?)
6D HETEROLITHIC FRAGMENTS (UNITS 1,2 AND 3P)

5 PATTON PORPHYRY (72-74 MA)
4 INTRUSION BRECCIA (FRAGMENTS OF UNITS 1 AND 2 IN MATRIX OF UNIT 3)
3 QUARTZ MONZONITE, EARLY(?) PATTON PORPHYRY
3A FINE GRAINED QUARTZ MONZONITE
3P EARLY(?) PATTON PORPHYRY
2 DAWSON RANGE BATHOLITH
2A GRANODIORITE (102-104MA)
2AA ALTERED (PHYLLIC/ARGILLIC)
2AQ STRONG SILICEOUS ALTERATION
2C DIORITE
TX EARLY TOURMALINE BRECCIA

YUKON METAMORPHIC COMPLEX

1 META-DIORITE, GNEISS, QUARTZITE

FAULT
DIKE
LIMIT OF OUTCROP

PACIFIC SENTINEL GOLD CORP.
CASINO PROPERTY

FIGURE 11
GEOLOGY

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compositional growth zoning from andesine cores to oligoclase rims. Quartz and K-feldspar are interstitial to plagioclase. Quartz forms interlocking aggregates of slightly to moderately strained grains. Minor patches of myrmekite occur in plagioclase grains adjacent to K-feldspar. The granodiorite is commonly brecciated on the southern margin of the deposit, ranging from crackle breccia to cataclastically deformed breccia. Fragment size generally decreases with increasing degree of brecciation.

Quartz monzonite contains less abundant mafic minerals (2 to 10%), lacks hornblende phenocrysts and usually exhibits more biotite than hornblende.

Diorite is normally comprised of andesine and hornblende in subequal proportions but in places primary biotite is more abundant than hornblende.

Casino Intrusions (Units 3-6) - Upper Cretaceous

Quartz monzonite (Unit 3) is characteristically leucocratic and is most abundant immediately west of the Casino Fault. This unit is fine- to medium-grained with about equal amounts of quartz, plagioclase and K-feldspar. These form aggregates of anhedral grains whose textures suggest that the rock crystallized from a near-eutectic liquid.

Intrusion breccia (Unit 4) occurs in the northern and eastern part of the deposit. It is heterolithic, containing fragments of Dawson Range Batholith and Yukon Metamorphic Complex in a matrix of fine-grained leucocratic quartz monzonite (Unit 3). Groundmass ranges from 2 to 40% while fragments range from a few centimetres to a few metres in diameter.

Patton Porphyry (Unit 5) (72-74 Ma) includes two or more episodes of hypabyssal, porphyritic dacite to rhyodacite. The main body of Patton Porphyry is a plug a few hundred metres across that lies northwest of Patton Hill. Contacts between the Patton Porphyry plug and the adjacent microbreccia range from sharply intrusive to gradational. Elsewhere, Patton Porphyry forms discontinuous dykes ranging from a few centimetres to 20 m wide that cut the quartz monzonite (Unit 3) and less commonly the Dawson Range Batholith.

Most Patton Porphyry intrusions contain 10 to 30% plagioclase and biotite phenocrysts in an aphanitic, medium to dark green groundmass of latite to rhyodacite composition. Plagioclase usually ranges from 2 to 7 mm long with occasional grains up to 2.5 cm while biotite ranges from 2 to 3 mm across. Quartz phenocrysts (0 to 5%) are usually 3 to 5 mm in size. Some chloritic aggregates may be altered hornblende grains.

At least two ages of Patton Porphyry are present. The early phase contains less abundant, commonly ragged plagioclase phenocrysts in a chloritic groundmass while the later phase exhibits more abundant, commonly subhedral to euhedral plagioclase phenocrysts in a vitreous, less chloritic groundmass. Episodic Patton Porphyry magmatism probably occurred before, during and after the main stage of hydrothermal alteration and mineralization. Much of the Patton Porphyry is poorly mineralized but strongly potassically altered, suggesting that it formed during and after the main stage of sulphide mineralization in the core of the deposit.

Microbreccia (Unit 6) forms a subvertical pipe in the core of the deposit and more irregular bodies to the southwest (Figure 11). It contains angular quartz grain and wallrock fragments in an extremely fine-grained rhyodacite to rhyolite groundmass of uncertain genetic origin. Quartz forms 10 to 20% of the rock, generally occurring as unstrained 1 to 2 mm crystals and crystal fragments. A few quartz grains have subhedral outlines, suggesting they may represent early formed phenocrysts in a silica-supersaturated magma. The subhedral grains are texturally similar to quartz phenocrysts in some of the Patton Porphyry intrusions.

Lithic fragments in any given part of the microbreccia usually belong to the adjacent wallrock type. This suggests only limited fragment transport and mixing in the microbreccia. In places the groundmass of the microbreccia exhibits a

very fine-grained, interlocking igneous texture while elsewhere the primary texture has been destroyed by strong potassic alteration.

Latite (Unit 7) probably Upper Cretaceous or Tertiary

This unit includes late dykes, sills and an explosion breccia pipe, all of which are dacitic in composition. Most dykes dip steeply and strike between 130 and 160°. Some are slightly porphyritic latite containing 5 to 10% plagioclase phenocrysts in a aphanitic to very fine-grained groundmass of plagioclase and K-feldspar. Other late dykes in the south-central part of the deposit contain 2 to 5% coarse quartz phenocrysts and 1 to 3% plagioclase phenocrysts in an aphanitic latite groundmass. On the east side of the Casino Fault, a latite dyke shows vesiculation with quartz-filled amygdules stretched parallel to steeply-dipping contacts.

The explosion breccia is an irregular, vertical pipe up to 100 m across. It contains subrounded fragments (mainly altered microbreccia with lesser quartz-phyric latite and Dawson Range Batholith) in a groundmass that ranges from rock flour (probably formed mainly by granulation of latite) to very fine-grained latite. The breccia has a gradation contact with a large latite dyke which shows strong sheeting parallel to its contacts.

All rocks belonging to Unit 7 were intruded after the main hydrothermal event and contain only minor base and precious metal mineralization, most of which is contained in altered microbreccia clasts.

Petrochemistry

The Dawson Range Batholith granodiorite, most Patton Porphyry and latite (Units 2, 5 and 7) have a granodiorite composition. Patton Porphyry has slightly less silica than latite or granodiorite. Quartz monzonite (Unit 3) and the K-feldspar-phyric phase of the Patton Porphyry are granitic in composition.

Structure

The largest fault on the property is the Casino Fault, a broadly curved, steeply-dipping strike-slip fault which trends 160 to 140° and offsets the eastern part of the Casino deposit right laterally about 200 m. On the east side of the Casino Fault numerous small faults were encountered in drill holes. Most of these have subhorizontal slickensides and chlorite-hematite alteration. Healed slickensides, local brecciation and development of open spaces at the intersection of fractures are common.

Other faults in the region include a northeast-trending strike-slip fault along Dip Creek southeast of Casino, a north-south fault that is inferred in a prominent valley along the western side of the deposit and a major fault on the east side of the deposit that separates hydrothermally altered rocks of the Casino Complex from fresh rocks of the Dawson Range Batholith.

Hypogene Alteration

The main hydrothermal alteration and mineralization event is centred on and generally related to the microbreccia (Figure 11). Both pervasive and fracture controlled features are important. The potassic core contains secondary K-feldspar, biotite, magnetite, sericite, anhydrite and often chalcopyrite, molybdenite and gold. The potassic core is bounded sharply to the south and southeast by a phyllic zone. This zone is dominated by quartz, sericite and pyrite with a very low base metal and precious metal content. A weakly mineralized porphyritic assemblage lies to the north of the core.

Potassic alteration is most prominent in the groundmass of microbreccia and in granodiorite bordering the microbreccia. Magnetite is present as braided networks of early veinlets. Purple anhydrite occurs in veins and less commonly as matrix to early brecciation. Gypsum, a common hydration product of anhydrite, occurs in veins and the matrix of late breccias. Ankeritic carbonate-gypsum

alteration overprints potassic alteration in the vicinity, and to the east, of the Casino Fault. This overprint is most apparent as late breccia matrix and irregular, open space fillings. In places it is associated with coarse-grained chalcopyrite.

Phyllic alteration is strongly fracture controlled and generally crosscuts higher temperature, K-feldspar stable alteration zones. Typically, quartz-pyrite veinlets are accompanied by texture-destructive quartz-sericite envelopes. Plagioclase is altered to sericite, biotite to pseudomorphic muscovite, and T-oxide and hornblende to a variety of assemblages containing chlorite, calcite, quartz or biotite. Tourmaline forms radiating disseminations and veinlets (with or without quartz). Phyllic alteration commonly removes chalcopyrite from the rock.

Zones of intermediate, probably non-equilibrium alteration, form a distinctive dull green sericite-chlorite-clay assemblage where K-feldspar is stable. This assemblage is pervasive but not texture destructive. The sericite-chlorite-clay suite forms irregular patches along the border of and within the zone of potassic alteration.

Sporadically developed in both the phyllic and potassic zones are clay-rich assemblages in which feldspars are altered to kaolinite, sericite or montmorillonite. Montmorillonite alteration commonly is centred on minor structures and appears to be a late stage overprint.

To the north, the weakly developed, propylitic alteration zone contains epidote, chlorite and calcite after plagioclase and mafic minerals.

Hypogene Mineralization

The bulk of the sulphide mineralization occurs in and adjacent to the microbreccia (Unit 6) and intrusion breccia (Unit 4). Molybdenite is concentrated moderately in the core and chalcopyrite is concentrated moderately towards the periphery just inside the potassic-phyllic alteration contact.

Chalcopyrite occurs in veins, disseminations and irregular patches. On the east side of the Casino Fault chalcopyrite distribution is strongly fracture controlled. The pyrite/chalcopyrite ratio ranges widely from less than 2:1 in much of the potassic zone to greater than 20:1 in the phyllic zone.

Molybdenite occurs as discrete flakes and selvages in early quartz veins. Molybdenite is not usually intergrown with other sulphides.

Native gold was identified in one polished section. It forms a grain 25 microns across in a fracture within a pyrite grain. Gold has a good correlation with copper.

Late stage, commonly vuggy, base metal veins were introduced mainly along steeply-dipping fractures trending 150 to 170°. These vary widely in mineralogy. Some veins are dominated by chalcopyrite and/or pyrite but many contain abundant sphalerite, galena and calcite/ankerite with less abundant quartz, tetrahedrite and chalcopyrite and minor bismuth-bearing minerals. Tetrahedrite and chalcopyrite commonly are intimately intergrown. Typically the late veins are geochemically anomalous in any or all of Ag, As, Au, Bi, Cu, Cd, Mn, Pb, Sb, Zn and locally W.

Supergene Alteration and Mineralization

Supergene overprinting often obscures hypogene alteration and has resulted in large scale remobilization of copper. Three supergene facies have been recognized but not all are present in every hole.

Leached cap occurs closest to surface and ranges from a few metres to greater than 150 m thick, averaging about 78 m in the area that has been drilled. In general the thinnest leached caps are found at low elevations while the thickest are found along the crest of Patton Hill. This zone characteristically exhibits boxworks after sulphides and is normally bleached due to supergene clay alteration. Sulphides are rare and are normally replaced by jarosite, goethite,

hematite and ferrimolybdite. Assaying has shown that copper is strongly depleted in this zone but that gold and molybdenum show little evidence of remobilization.

Supergene oxide zones are the least common of the supergene facies and rarely exceed 15 m in thickness. Ideally they occur at the base of the leached cap but in some instances they form large lenses within it. Supergene oxide zones are best developed on north-facing slopes and are often absent on more intensely leached south-facing slopes. Common secondary minerals in this zone include malachite, azurite, chalcanthite, brochantite, tenorite, neotocite, native copper and hematite. The copper minerals occasionally replace chalcopyrite but more typically are after chalcocite. Copper is usually enriched in this zone while gold and molybdenum are unaffected.

Supergene sulphide zones are found in most holes. They usually have a sharp upper contact and an irregular lower contact. Mineralization consists of chalcocite with minor covellite and traces of diagenite replacing or coating chalcopyrite and pyrite. Copper is strongly enriched averaging about 1.7 times the underlying hypogene grade. Although most copper appears to have been remobilized downward, there is also evidence for lateral remobilization. In a number of holes immediately north of the crest of Patton Hill the supergene sulphide zone is thin or absent even though the underlying hypogene mineralization is good grade, while some of the holes in the northern part of the deposit have thicker and higher grade supergene zones than would be suggested by the hypogene grade.

1993 DRILL PROGRAM

General

The 1993 drill program comprised 127 diamond drill holes totalling 50,316 m, including twenty 1992 holes that were deepened. Drill production averaged 22 m/shift/drill. Three holes were abandoned because of bad ground. Figure 12 graphs total drill production and average shift production. Details concerning drill production and mud consumption are summarized on Table 5 on the following page. Survey data for the drill holes can be found in Appendix VI, while drill collars are shown on the 1:5000 property maps (Figures 18 to 22). The objective of the 1993 drill program was to delineate the deposit.

Contractor

The diamond drilling and bulldozer support were contracted to E. Caron Diamond Drilling Ltd. of Whitehorse under terms negotiated by Pacific Sentinel. Up to six drill rigs were used and their start up and completion dates are listed in a Chronology of Significant Events in Appendix II. Three of the drill rigs were standard Longyear 38's, two were hydraulic modified Longyear 38's and one was a Val d'Or. All were skid mounted and wireline equipped. Three bulldozers (ripper-equipped Caterpillar D7, winch-equipped Caterpillar D7 and winch-equipped Caterpillar D6) were used to construct access roads, build drill sites and move the drills from site to site. The drills were operated on a seven day per week, 24 hour per day basis utilizing two, two-man crews per drill. A drill foreman supervised the work with help from a full-time assistant provided at no cost by the contractor. A truck driver was on site for much of the summer to operate the contractor's hiab-equipped, flat-bed truck which was used to unload aircraft and ferry supplies from Brittania Creek to the drill area.

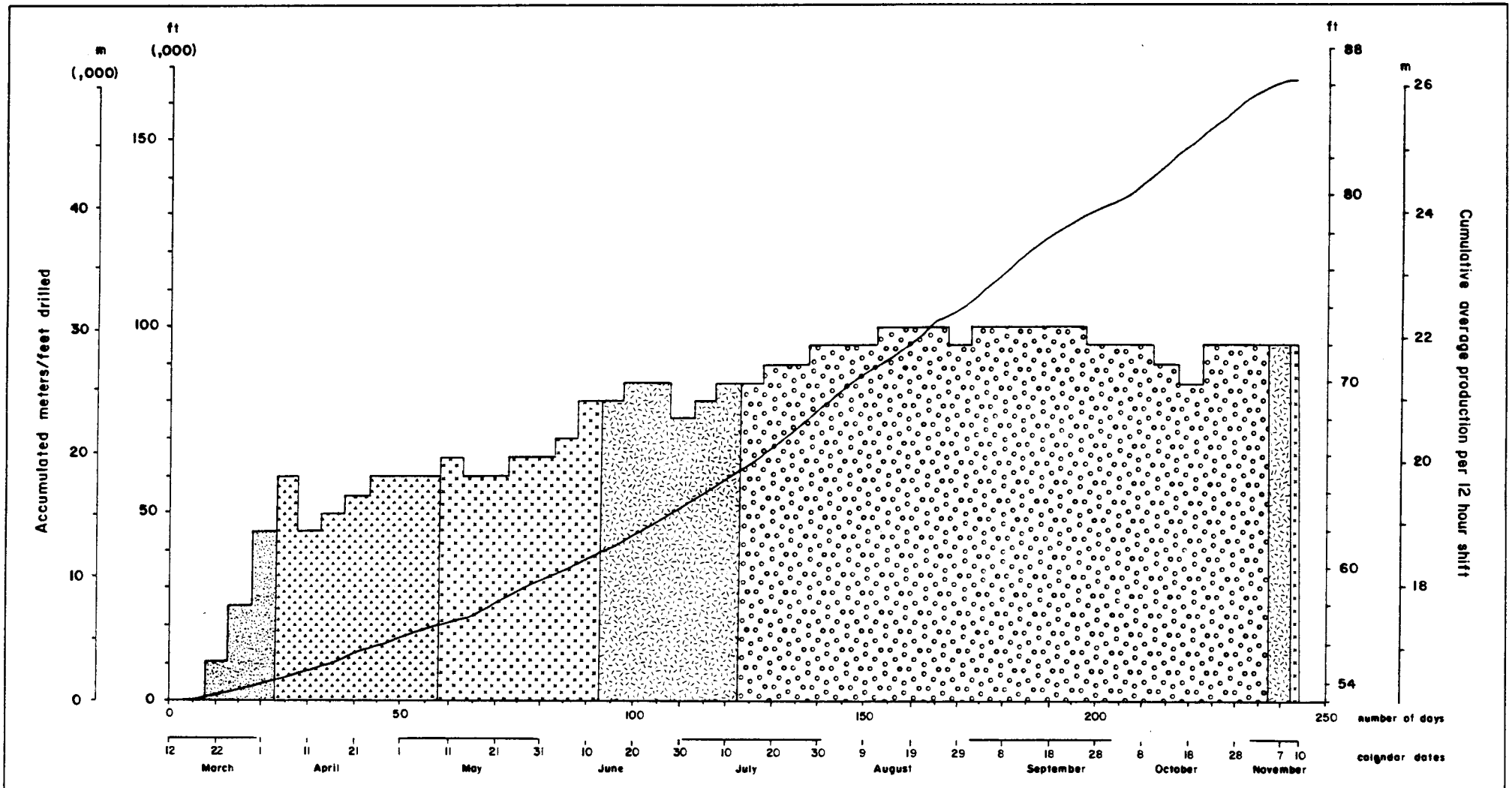

Figure 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DIAMOND DRILL PRODUCTION

CASINO DEPOSIT

PACIFIC SENTINEL GOLD CORP.

TABLE 5
DRILL PRODUCTION AND MUD CONSUMPTION

Season Averages

Drill No.	Metres	Feet	No. shifts	Avg. m/shift	Avg. ft/shift
1	10,334	33,905	475	22	71
2	10,387	34,077	471	22	72
3	10,057	32,996	438	23	75
4	8,425	27,642	369	23	75
5	6,682	21,921	298	22	74
6	4,431	14,538	241	18	60
Total	50,316	165,079	2292	22	72

Month	Metres	Feet	No. shifts	Avg. m/shift	Avg. ft/shift
March	1,145	3,758	62	18	60
April	3,652	11,982	177	21	68
May	4,734	15,530	233	20	67
June	6,263	20,548	279	22	74
July	8,227	26,993	347	24	78
August	8,397	27,548	372	23	74
September	7,795	25,573	360	22	71
October	8,006	26,266	360	22	73
November	2,097	6,881	102	21	67

Mud Consumption

Overall	
Total used (22.5 kg bags)	49,681 m
Bags per 30 m drilled	12.5
West Pit	
Amount drilled	7,024 m
Bags per 30 m drilled	12.5
Patton Hill	
Amount drilled	28,583 m
Bags per 30 m drilled	12.0
Casino Creek	
Amount drilled	14,074 m
Bags per 30 m drilled	13.5

Water Supply and Drilling Conditions

The three main sources of drill water in summer and fall were Canadian Creek (150 m northeast of Hole 93-248), Casino Creek (20 m north of Hole 93-214) and the junction of Proctor Gulch and Casino Creek. The Canadian Creek system was the most important and involved a 1500 m Victaulic waterline running from the sump to two 13,640 litre (3000 gallon) water tanks on top of Patton Hill, which acted as reservoirs for gravity-assisted waterlines that branched off to the various drills. When drilling started in March an attempt was made to use a well on Casino Creek that had been used for winter water supply in 1969; however, it quickly dried up. Sufficient water was discovered in the Canadian Creek sump but it was felt that the line would have been too long considering the cold temperature. To alleviate the problem a 9100 litre (2000 gallon) tank was mounted on the contractor's flat-bed truck and was used to carry water from Canadian Creek to storage tanks at the drill sites. This system continued until April 27.

Casing depths varied considerably ranging from 2.4 m to 55.2 m. Areas with higher than average casing depths were in the "West Pit" near Canadian Creek and in the vicinity of the Casino Fault. A table of casing depths and holes in which casing was left in can be found in Appendix VI.

Swelling clays were a problem in some drill holes. Hole 93-158 was abandoned at 151 m when the rods became stuck, likely from a clay seam encountered at 132 m. Hole 93-179 encountered a sand and clay seam at 366 m which eventually caused the rods to become stuck when the hole was completed at a depth of 648 m. The drill returned to this site later in the summer and most of the rods were recovered after blasting off the core barrel. Bad ground and caving caused the rods to become stuck at 140 m in hole 93-181. The drill was moved 3 m north to site 93-185 and the hole completed at 811 m.

Poor drilling conditions were encountered in most holes drilled near or through the Casino Fault, specifically holes 93-192, 202, 216, 222 and 223. Problems were generally stuck or broken rods, loss of water circulation and excessive rod and bit wear. The angle hole 93-216 was abandoned at 64 m but other nearby holes were completed by using a combination of slow drilling, thick mud mixture and frequent reaming.

In 22 of the 127 holes drilled in 1993 it was necessary or advantageous to reduce from HQ to NQ diameter rods. The average depth for reducing was 286 m.

Bit and rod wear were higher for angle holes than vertical, particularly in the holes that were drilled through the Casino Fault. Extremely acidic groundwater severely corroded and copper plated the inside of 76 m of HQ rods in hole 93-164.

The most common drill products used were bentonite and superpoly. Consumption of both these products increased when drilling through the leached cap and around the Casino Fault. A table of mud consumption in various regions of the property is shown on Table 5.

Downhole surveys were done every 150 m in vertical holes and 75 m in angle holes using a Sperry Sun Magnetic Directional Single Shot. Vertical holes produced minimal deflecting and rarely exceeded two degrees over the length of the hole. Of the five angle holes, one flattened at a rate of one degree for each 150 m while the other four steepened at an average rate of one degree every 60 m. The three angle holes drilled east into the Casino Fault deviated to the north at a rate of one degree every 100 m.

Logging and Core Handling Techniques

Procedures for core logging, collection of geotechnical data and core sampling were followed as outlined by E. Titley of Pacific Sentinel in Appendix VII.

Assay Techniques

Assaying was done by Chemex Labs Ltd. of North Vancouver. A total of 16,633 core samples were sent for gold, copper and molybdenum assay and ICP geochemical analyses.

Initial sample preparation included passing the entire sample through a TM Rhino crusher yielding a crushed product where greater than 60% of the sample passes a -10 mesh screen. A 200-300 g split was then taken using a stainless steel Jones riffle splitter. The crushed sample split was ground using a ring mill pulverizer with a chrome steel ring set so that 90% of the ground material passes a 150 mesh screen. Grinding with chrome steel leaves trace amounts of iron and chromium on the sample. Rejects are stored at Chemex in dry bins for later use in metallurgical studies. The pulps have also been retained.

Gold analyses were done by standard fire assay techniques. The prepared sample (29.166 g) was fused with neutral flux, inquarted with 4 mg of gold-free silver and then cupelled. Silver beads for AA finish were then digested for one-half hour in 1 ml nitric acid, then 3 ml of hydrochloric acid was added and digested for one hour. The sample was then cooled, made to a volume of 10 ml, homogenized and analyzed by atomic absorption spectroscopy. The detection limit is 0.03 g/t with an upper limit of 500 g/t.

For copper analyses, the prepared sample (0.5-2.0 g) was digested in a hot nitric-hydrochloric acid mixture, cooled, and then transferred into a 250 ml volumetric flask with a final matrix of 25% hydrochloric acid. The solution was then analyzed by atomic absorption. The detection limit is 0.01% with an upper limit of 10%.

For molybdenum analyses, the 2 g prepared sample was digested in aqua regia, cooled, then transferred into a 250 ml volumetric flask. Aluminum chloride was added to the solution as an ionization suppressant before being analyzed by

atomic absorption. The total molybdenum is reported as MoS2. The detection limit is 0.001% with an upper limit of 100%.

For the 32 element, inductively-coupled plasma-atomic emission spectroscopy (ICP-AES) geochemistry, the 1.0 g prepared sample was digested with concentrated nitric and aqua regia acids for two hours. The acid solution was diluted to 25 ml with demineralized water, mixed and analyzed on a calibrated Jarell Ash 1100 plasma spectrometer. The results were corrected for spectral ruler-element interferences.

During the drill program check samples were taken to determine assay precision and accuracy. Check assaying is continuing under the direction of R. Konst of Pacific Sentinel.

Results

Summary drill logs complete with assays can be found in Appendix VIII. Certificates of Analyses are in Appendix IX.

PLACER EXPLORATION AND SOIL GEOCHEMISTRY

An extensive placer exploration program was conducted on the 18 placer claims and 38 placer leases at Casino between June 2 and November 6. Assessment work on the leases consisted of excavation, sampling and mapping of 169 trenches, while assessment work on the placer claims came from overburden sampling in 23 diamond drill holes. The location of the placer claims, placer leases, trenches and drill holes can be found on Figures 13 and 14. The total heavy equipment hours used for the placer exploration program are listed below.

TABLE 6
PLACER EXPLORATION EQUIPMENT HOURS 1993

TYPE	TOTAL HOURS
D7 Bulldozer	137
D6 Bulldozer	126.5
Hitachi excavator	481.5

Trench locations were determined based on the assessment value required, geotechnical requirements and exploration potential. Where possible, trenches were located in areas that had been disturbed during earlier exploration programs because those areas were usually less frozen and would cause less environmental disturbance. All of the new trenches were first stripped of vegetation and top soil to allow thawing of the permafrost. The excavator was then used to dig the test pit into bedrock. There were some instances in which bedrock was not reached due to thick or frozen overburden. Once a trench was completed, it was immediately mapped and sampled while the surfaces were still fresh. Mapping consisted of detailed descriptions of surface material and bedrock. At least one soil sample, pan sample and, where applicable, rock chip sample was taken at 3 to 10 m intervals along the trench. Placer test pit descriptions were completed for each trench, including pit number, lease number, total expenditures, plan map, soil profile, panning concentrate description and sample locations. Copper,

gold, molybdenum and lead geochemical values were added later. Copies of the test pit descriptions and overburden drill hole sampling descriptions can be found in Appendix X.

Trench assays and soil geochemistry add to results from earlier sampling programs, as shown on 1:5000 geochemistry maps (Figures 19 to 22 illustrating copper, molybdenum, gold and lead, respectively). Gold values from chip samples of bedrock ranged from <5 to 1690 ppb over 10 m, while soil samples returned <5 to 1680 ppb. Copper assays from chip samples were between 2 and 1985 ppm with soil values from 6 to 3590 ppm. Molybdenum values were typically low except for areas of known mineralization. Lead values were low in the core of the deposit but were locally anomalous in the vicinity of peripheral lead veins.

The best gold results (568 ppb over 40 m, including 1690 ppb over 10 m) came from trench 9076-C located about 500 m south of Canadian Creek and 1 km west of the closest drill hole. Four other trenches in the same area also produced anomalous results for gold with weak copper and molybdenum support. The second best assays (1680 Au in soil and up to 800 ppb in rock) were from trench 9061-A which cut obliquely across the Casino Fault (Figure 14). The nearest drill hole to this trench is 200 m to the north. Copper values were high (2200 ppm) in the soil which was taken at the head of the trench but concentrations were low in the rocks. This suggests copper was remobilized from a source farther uphill.

The highest copper values (1985 ppm from rock chips and 3590 ppm in soil) were found in trench 9008-B, located between drill holes 93-180 and 93-217 about 200 m east of the Casino Fault. Gold assays from the trench were lower than expected, suggesting that some of this copper may also have been remobilized.

Gold and copper values from trenches along the flanks of Casino Creek in the southern part of the property were consistently low.

As expected, trenches close to the Bomber Vein produced several chip samples with >10,000 ppm lead over 2 to 3 m. Strongly anomalous lead assays were also obtained from veins exposed in trenches near the airstrip.

Soil sampling was done along an access road that was built by Eastfield Resources Ltd. through the western portion of the Casino property en route to the Ana claims. The road is located 100 to 200 m north of and parallel to Canadian Creek and was sampled every 100 m for 2500 m. Anomalous gold values were typically between 20 and 80 ppb with the highest being 645 ppb. Eleven of the 25 samples returned <50 ppb gold. Copper and molybdenum analyses returned background to weakly anomalous values.

GEOTECHNICAL STUDIES

Geotechnical site investigations were performed by Knight Piesold Ltd. under the direction of M. Gant from June 4 to October 1. The trenches excavated for placer exploration were also utilized for geotechnical studies. The geotechnical program is summarized below while a detailed report of the investigations can be found in Appendix XI.

Geotechnical test trenches were used to evaluate surficial materials and foundations for various mine site components including the tailings facility, waste dumps, open pit, millsite and leach pad sites. The excavation and mapping of the trenches provided a detailed description and characterization of the surficial material and bedrock. An on site laboratory allowed test work to determine physical characteristics and properties. Test work included particle size analyses, natural moisture content, Atterberg limits, Proctor compaction tests and laboratory air entry permeameter permeability tests.

SURVEYING AND AIRPHOTOS

All drill collars were surveyed by Lamerton & Associates of Whitehorse from permanent survey hubs established throughout the property. All 1993 holes (including those 1992 holes that were deepened) were marked with 1.5 m wooden plugs bearing an aluminum tag inscribed with hole number, date of hole, total depth and dip. Mine grid coordinates and elevations for all of the drill holes are listed in Appendix VI. Downhole surveys techniques are discussed in the 1993 Drill Program section while results are listed in Appendix VI.

Airphotos were flown on July 3 and 29 under the the supervision of Lamerton & Associates. Airphoto targets were surveyed using the GPS system by R. Hall of Focus Engineering. Eagle Mapping Services Ltd. converted all the 1:25,000 scale airphoto data to a digital format before plotting black ink mylar property maps at a scale of 1:10,000.

1993 ACTIVITY BY OTHERS

Several junior mining companies and government organizations performed geological or geophysical work in the Dawson Range during 1993. The most significant work is summarized below.

Eastfield Resources Ltd.

Eastfield explored two properties near Casino during summer 1993 on behalf of other junior mining companies that had optioned the properties.

The largest program was done on the Ana property, which lies immediately west of the Casino property (Figure 23). It consisted of road construction, geological mapping, soil geochemistry, IP and magnetometer surveys and six diamond drill holes totalling 804 m. The Ana property is owned by Eastfield (80%) and Breckenridge Resources (20%) which has an option to earn a further 50% interest. Surface work outlined a 1.8 by 1.0 km area of interest which was partially tested by the six widespread drill holes. Phyllic-altered intrusive breccia, Patton Porphyry and quartz monzonite were intersected. All holes contained chalcocite and chalcopyrite. Gold values were generally erratic and subeconomic but included some encouraging intervals of up to 1.92 g/t over 3 m (Eastfield News Release Oct. 5, 1993). Copper assays were not reported and are therefore assumed to have been low.

Eastfield also conducted soil geochemistry and ground geophysics on a 2.5 by 1.0 km grid at the Koffee property (Figure 23) which is under option to Rockwealth International Resources Inc. The surface work was followed up with one drill hole but poor ground conditions and budget restrictions resulted in the hole being abandoned at a depth of only 46 m. Chalcocite mineralization was reported in the drill core. No assays were released, implying low concentrations of gold and copper.

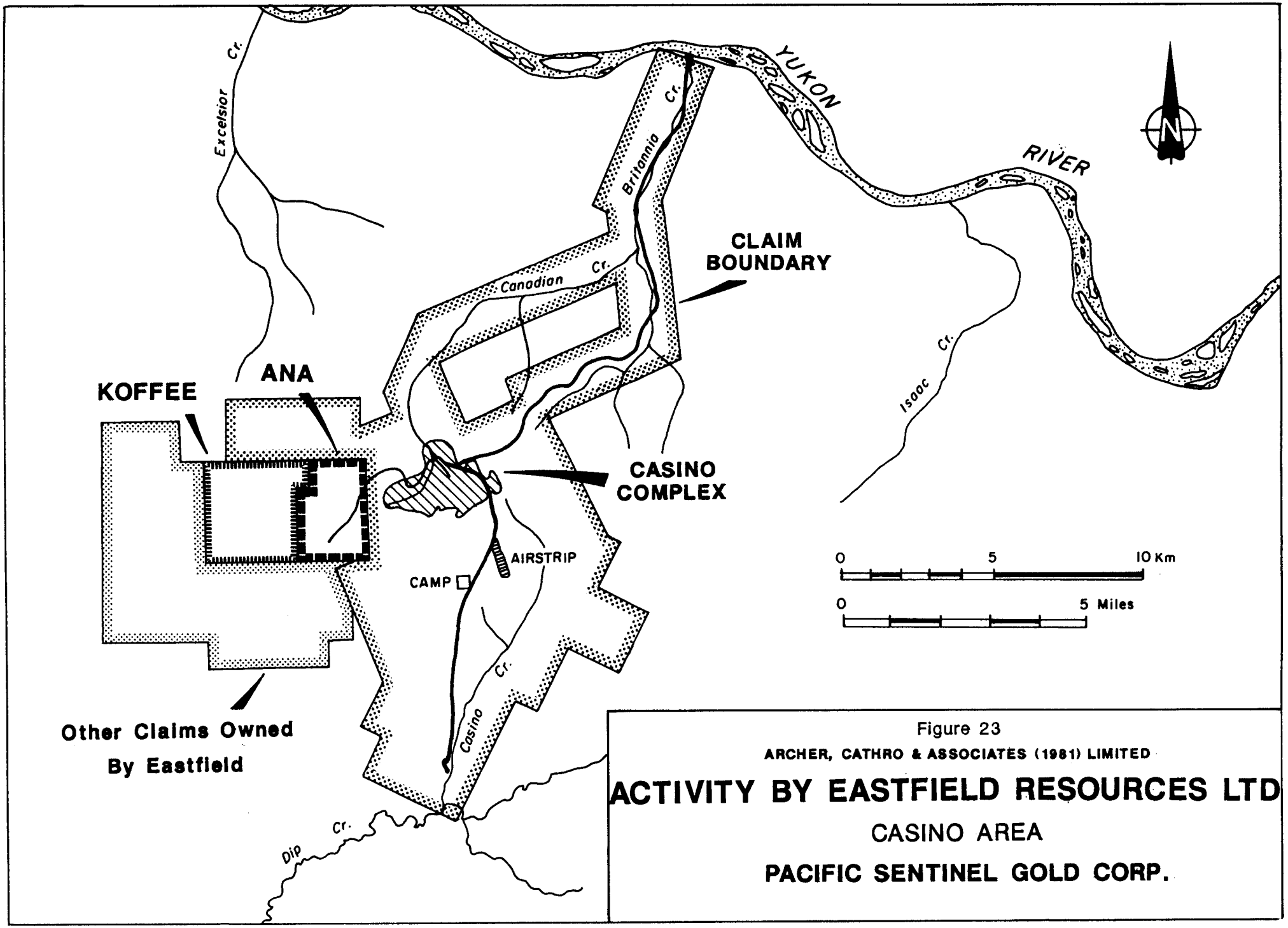

Figure 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ACTIVITY BY EASTFIELD RESOURCES LTD

CASINO AREA

PACIFIC SENTINEL GOLD CORP.

Amarc Resources Ltd.

This private company conducted IP and magnetometer surveys to explore porphyry copper-gold-molybdenum mineralization at its Cash and Nitro properties located on the Casino Trail, approximately 85 km southeast of Casino. Results have not been announced.

Western Copper Holdings Ltd. and Thermal Exploration Ltd.

These junior companies mined approximately 270 tonnes of oxidized copper mineralization from the Williams Creek deposit (118 km southeast of Casino) and trucked the material to Carmacks where Lakefield Research constructed and operated a test solvent extraction electrowinning plant during the fall and winter. Copper recovery was reported to be excellent and there was no problem with freezing within the test column. This test was part of a feasibility study expected to be released in spring 1994.

Geological Society of Canada (GSC)

Dr. T. Lewis and W. Bentkowski of the GSC visited Casino from July 16 to 18 to conduct a downhole thermal gradient survey. Only drill holes in which casing had been left were probed. Of the fourteen holes re-entered, only four were sufficiently clear of permafrost and debris to allow the downhole survey (93-124, 162, 168, 175). Results and methodology of the survey are described in Appendix XII.

Sander Geophysics Ltd.

From August 8 to 19, Sander Geophysics Ltd. under contract with the GSC and Department of Indian and Northern Affairs conducted a helicopter-borne gamma ray spectrometer and magnetometer survey over a 2700 sq km area that included the Casino property (Figure 24). The results of the survey were shown on a poster at the Cordilleran Roundup in Vancouver in late January and are expected to be released as an open file in March 1994.

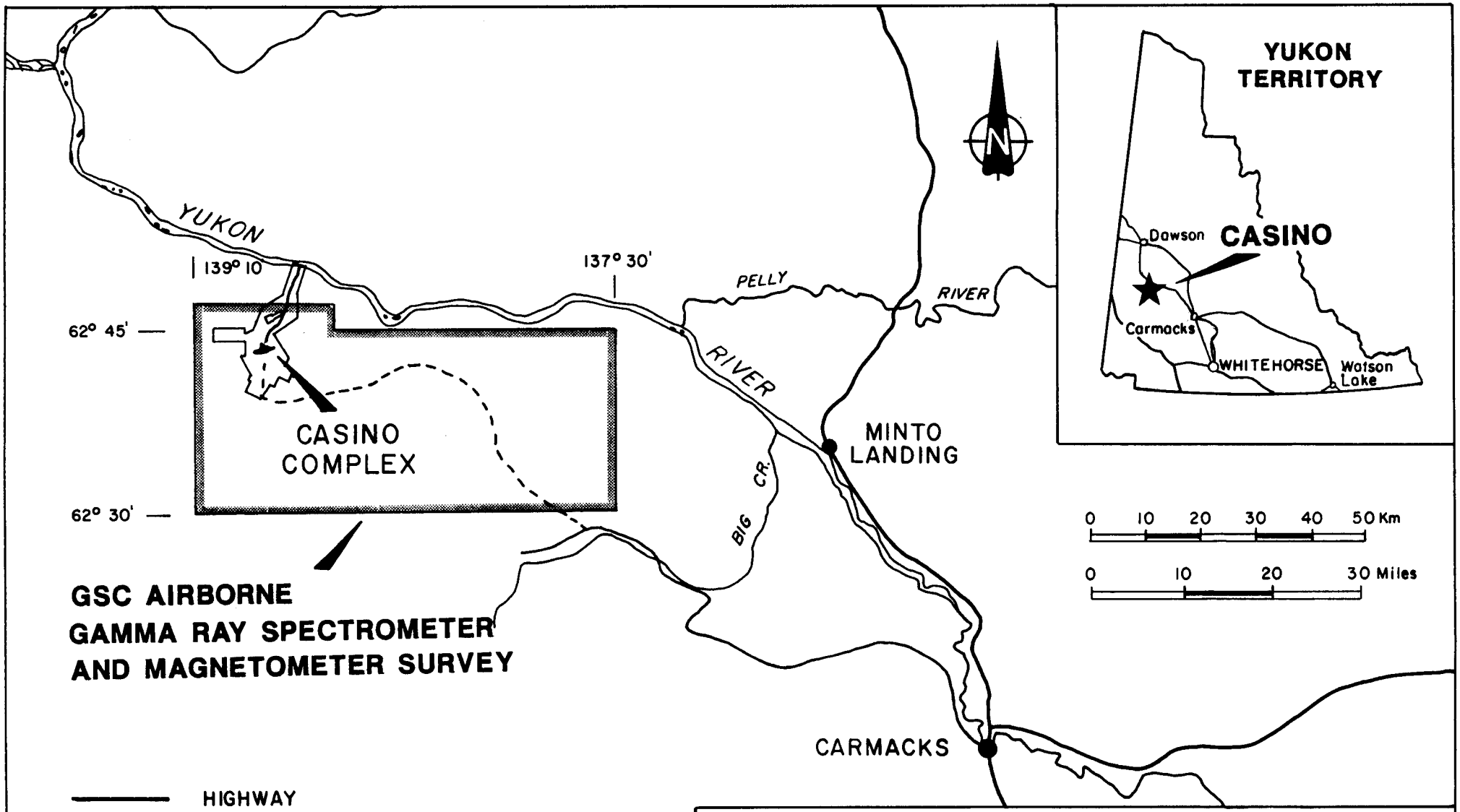

Figure 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ACTIVITY BY SANDERS GEOPHYSICS LTD

CASINO AREA

PACIFIC SENTINEL GOLD CORP.

SHEET 115-J-10

LATITUDE 62°30' TO 62°45'
LONGITUDE 138°30' TO 139°00'

COLORADO CREEK

CANADA
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION AND LANDS BRANCH
MINING AND LANDS DIVISION

SCALE: 1/2 MILE TO 1 INCH

FT. 1500 0 1500 3000 4500 6000 7500 9000 10500 FT.

ISSUED UNDER THE AUTHORITY OF THE MINISTER
OF
NORTHERN AFFAIRS AND NATIONAL RESOURCES

NOTICE

THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS INACCURACIES OR OMISSIONS WHATSOEVER.

22 NOV. 79
7 NOV. 72
19 JUN. 72
16 MAY. 72
30 JUN. 69
16 SEPT. 58

01 OCT 93
22 JULY 93
16 JUNE 93
22 FEB 93
26 OCT 92
05 OCT 92
23 SEPT 92
08 SEPT 92
21 APR 92
20 MAR 92
03 JAN 92
17 SEPT 91
12 JUNE 91
24 OCT 89.

Figure 4
To accompany report dated February, 1994

115-J-14	115-J-15	115-J-16
115-J-11	115-J-10 QUARTZ	115-J-9
115-J-6	115-J-7	115-J-8

NOTE: FOR PLACER SEE 115-J-10 PLACER

WHITEHORSE

139° 00'

138° 30'

62° 45'

62° 30'

KOFFEE · ANA · ICE · INCA · MAYA · AZTEC · CAT · BOMBER · AIRPORT · MOUSE · CANADIAN CK · CAS · DIP · JOE · DAH · FAITH · ART · JO · PAT · RAY · WHISKEY · TALUS

RUDE CREEK · LESLIE RIDGE · VICTOR CREEK · STEVENSON RIDGE · KLOTASSIN RIVER · COLORADO CREEK · PAISON CREEK

4759 ± · 4492 ±

115-J-10

March 11/94.

PLACER

SHEET 115-J-10

LATITUDE 62°30' TO 62°45'
LONGITUDE 138°30' TO 139°00'

COLORADO CREEK

CANADA
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION AND LANDS BRANCH
MINING AND LANDS DIVISION

SCALE: 1/2 MILE TO 1 INCH

FT. 1500 0 1500 3000 4500 6000 7500 9000 10500 FT.

ISSUED UNDER THE AUTHORITY OF THE MINISTER
OF
NORTHERN AFFAIRS AND NATIONAL RESOURCES

N 30°-45 E

093190

Figure 5
To accompany report dated February, 1994

115-J-14	115-J-15	115-J-16
115-J-11	115-J-10 PLACER	115-J-9
115-J-6	115-J-7	115-J-8

DWG 253

NOTICE

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WHITEHORSE	
5 OCT. 79	
7 NOV. 72	
19 JUN. 72	
16 MAY 72	
30 JUN. 69	7 MAY. 80
16 SEPT. 58	15 OCT. 79

NOTE: FOR QUARTZ CLAIMS SEE SHEET 115-J-10

WHARTON CREEK

CASINO CREEK

LESLIE RIDGE

VICTOR CREEK

IDAHO CREEK

COLORADO CREEK

PATTISON CREEK

STEVENSON RIDGE

KLOTASSIN RIVER

5487 ±

4759 ±

4492 ±

115-J-10 PLACER

march 11/94
429

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

Northern Affairs Program / Programme des affaires du Nord

Mineral Rights Droits miniers

DWG 430

Canada

115J-15
QUARTZ

LATITUDE 62° 45' TO 63° 00'
LONGITUDE 138° 45' TO 139° 00'

ISSUED UNDER THE AUTHORITY OF THE MINISTER OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

SCALE 1:30,000

1000 0 1000 2000 METRES

1500 0 1500 3000 4500 6000 7500 9000 10500 FEET

MAGNETIC NORTH N 29° 45' E

NOTE:

THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.

TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES.
CONTOUR INTERVAL 500 FEET.
SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES.

Note: Entry on certain land is withdrawn from staking in cross-hatched areas to facilitate the settlement of Native Land Claims without prejudice to Existing Surface and Subsurface Rights

Figure 6
To accompany report dated February, 1994

115O-3	115O-2	115O-1
115J-14	115J-15 QUARTZ	115J-16
115J-11	115J-10	115J-9

093190

26 OCT 92
23 SEPT 92
13 APR 92
03 JAN 92
21 AUG 91
03 NOV 90
04 OCT 90
26 JULY 90
4th OCT 89
26 SEPT 89
25 OCT 88
12 SEPT 88
2 Nov 87
23 SEPT 87
11 SEPT 87
26 Aug 87
3 JUNE 87

DAWSON & WHITEHORSE 10 APRIL 86

FOR PLACER SEE 115J-15pl.

139° 00' 55' 50' 45' 40' 35' 138° 30'
63° 00' 55' 50' 45' 40' 35' 62° 45'

Stevens Creek
Lost Isac Pup
Scroggie Creek
Mariposa Creek
Carter Creek
Pedalar Creek
Ballarat Creek
Excelsior Creek
Canadian Victoria Creek
Sunshine Creek
Isaac Creek
Idaho Creek
RIVER
TRAIL
FLEUVE
YUKON
DAWSON MINING DISTRICT
WHITEHORSE MINING DISTRICT
RESORE
WINE
ROI
MJ
CAS
DIP
S-83
S-84
KOFFEE
ANA

March 11/94

115J-15

Indian and Northern Affairs Canada / Affaires indiennes et du Nord Canada

Northern Affairs Program / Programme des affaires du Nord

Mineral Rights — Droits miniers

DWG 431

Canada

27 JUNE 91
21 FEB 91
07 JAN 91
21 NOV 90
03 NOV 90
24 OCT 90
15 OCT 90
11 OCT 90
7 AUG 90
01 FEB 90
9 JAN 90
27 DEC 89
7 NOV 89
30 OCT 89
16 OCT 89
4 OCT 89
02 OCT 89
6 SEPT 89
23 AUG 89
9 AUG 89
29 JULY 89
28 JULY 89
14 NOV 88
3 OCT 88
28 SEPT 88
22 SEPT 88
13 SEPT 88
10 NOV 88
20 JULY 88
15 JULY 88
12 JULY 88
29 JUNE 88
1 MAY 87
10 AUG 87
2 JULY 87
3 JUNE 87
19 MAY 87
23 APR 87
23 OCT 86
13 SEPT 86
18 APR 86

30 SEPT 93
09 NOV 92
16 OCT 92
05 OCT 92
21 SEPT 92
24 AUG 92
07 JULY 92
18 JUNE 92
11 OCT 91
19 JULY 91

DAWSON & WHITEHORSE 9 APR. 86

115J-15

PLACER

LATITUDE 62° 45' TO 63° 00'
LONGITUDE 138° 45' TO 139° 00'

ISSUED UNDER THE AUTHORITY OF THE MINISTER OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

SCALE 1:30,000

1000 0 1000 2000 METRES

1500 0 1500 3000 4500 6000 7500 9000 10500 FEET

N — MAGNETIC NORTH N 29° 45' E

NOTE:

THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.

TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES.
CONTOUR INTERVAL 500 FEET.
SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES.

Note: Entry on certain land is withdrawn from staking in cross-hatched areas to facilitate the settlement of Native Land Claims without prejudice to Existing Surface and Subsurface Rights

093190

FOR QUARTZ SEE 115J-15

Figure 7
To accompany report dated February, 1994

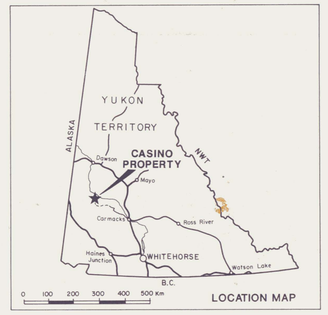
115O-3	115O-2	115O-1
115J-14	115J-15 PLACER	115J-16
115J-11	115J-10	115J-9

139° 00' 63° 00' 55' 50' 45' 40' 35' 138° 30' 62° 45'

PL8065 2 MILE Stevens Creek
PL7727 2 MILE Creek
PL8037 2 MILE Trail
PL8039 2 MILE
Scroggie Creek
Mariposa Creek
PL8345 3 MILE Pedalat
PL8483 4 MILE
PL8346 4 MILE
Ballarat Creek
PL8484 5 MILE Creek
S-83
S-84
FLEUVE YUKON
DAWSON MINING DISTRICT
WHITEHORSE MINING DISTRICT
TRAIL
Excelsior Creek
Canadian Creek
Britannia Creek
Sunshine Creek
Isaac Creek
Idaho Creek
RIVER
PL 9038 3 MILE
PL 9053 4 MILE
PL 9054 2 MILE
PL 9056 3 MILE

March 11/94

115J-15



LOCATION MAP

AREA OF PORPHYRY MINERALIZATION

CANADIAN CREEK

Proctor Gulch

CASINO CREEK

Patton Hill

AIRSTRIP

CAMP

- 9050-C — Placer trench completed to bedrock
- 9060-C — Placer trench not completed to bedrock
- Placer trench stripped of overburden
- Main access road

- Pre-1992 vertical diamond drill hole
- Pre-1992 inclined diamond drill hole
- Pre-1992 vertical percussion drill hole
- 123 — 1992-1993 vertical diamond drill hole
- 216 — 1993 inclined diamond drill hole

- PL9061 — Placer bench lease with No. 1 post and lease number
- PL 9033 — Placer creek lease with baseline, No. 1 post and lease number
- P3818 — Placer creek claim with No. 1 post and claim number

093190

DWG 432

Figure 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PLACER TRENCHES

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

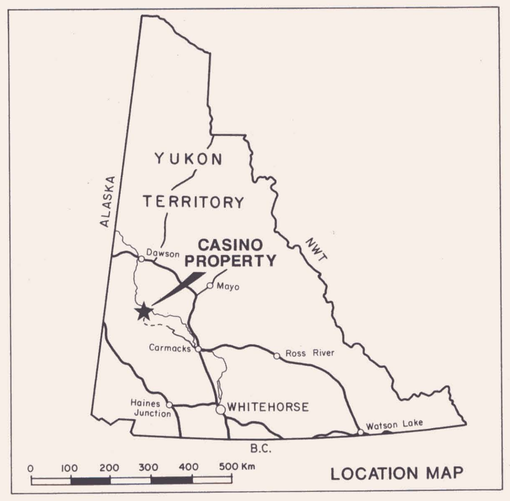
SCALE 1:5000

0 100 200 300 400 500 Metres

0 500 1000 1500 Feet

To accompany report dated February, 1994

March 11/94



LOCATION MAP

138°55' 138°50' 138°45'

62°45'

62°40'

Placer trench completed to bedrock

Placer trench not completed to bedrock

Placer trench stripped of overburden

Main access road

Placer bench lease with No. 1 post and lease number

Placer creek lease with baseline, No.1 post and lease number

Quartz claims held by Pacific Sentinel Gold Corp.

Quartz claims held by others

Placer claims held by Pacific Sentinel Gold Corp.

Placer claims held by others

093190

, DWG 433

Figure 14

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PLACER TRENCHES

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

SCALE 1:20,000

0 500 1000 1500 Metres

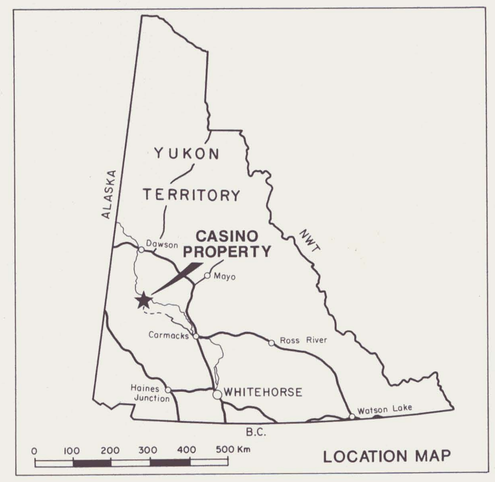
0 1/4 1/2 1 Mile

0 1000 2000 3000 4000 5000 Feet

To accompany report dated February, 1994

March 11/94

138°55'
138°50'
138°45'
62°45'
62°40'



LOCATION MAP

Placer trench completed to bedrock

Placer trench not completed to bedrock

Trench with soil sample — copper values in ppm

Trench with chip sample — copper values in ppm/distance in metres

Trench with soil and chip samples

Placer bench lease with No. 1 post and lease number

Placer creek lease with baseline, No.1 post and lease number

Quartz claim boundary

Placer claim boundary

093190

DWG 434

Figure 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER TRENCH AND SOIL GEOCHEMISTRY

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

SCALE 1:20,000

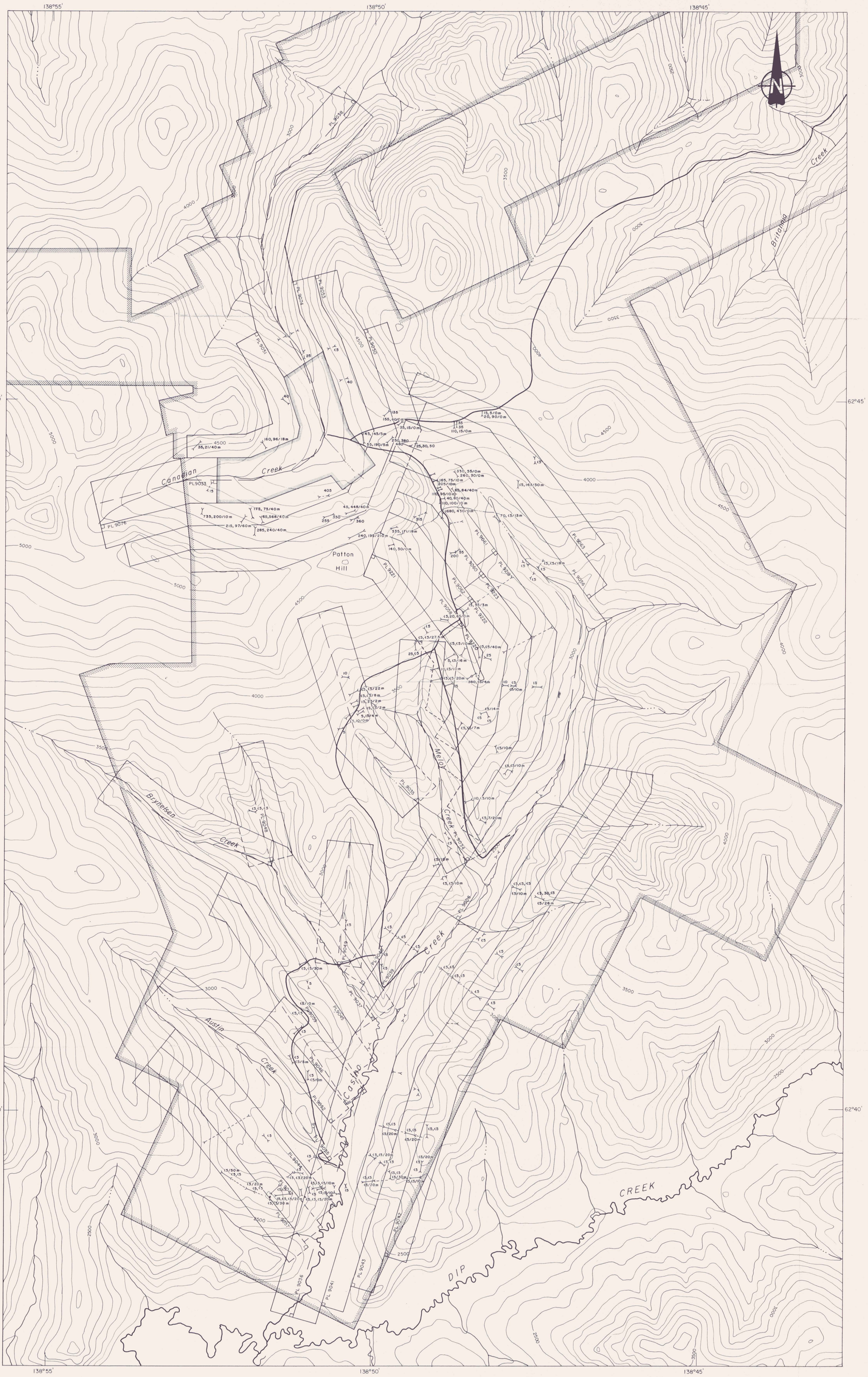
0 500 1000 1500 Metres

0 1/4 1/2 1 Mile

0 1000 2000 3000 4000 5000 Feet

To accompany report dated February, 1994

March 11, 1994


138°55'
138°50'
138°45'
62°45'
62°40'
N
Canadian Creek
Patton Hill
Brynelsen Creek
Austin Creek
Melody Creek
Casino Creek
Britannia Creek
DIP CREEK
PL 9038
PL 9034
PL 9033
PL 9051
PL 9050
PL 9076
PL 9221
PL 9061
PL 9063
PL 9060
PL 9064
PL 9222
PL 9223
PL 9035
PL 9048
PL 9049
PL 9047
PL 9046
PL 9042
PL 9044
PL 9045
PL 9036
PL 9041
PL 9043
PL 9039
PL 9040
PL 9037
PL 9052
PL 9053
PL 9054
PL 9055
PL 9056
PL 9057
PL 9058
PL 9059
PL 9062
PL 9065
PL 9066
PL 9067
PL 9068
PL 9069
PL 9070
PL 9071
PL 9072
PL 9073
PL 9074
PL 9075
PL 9077
PL 9078
PL 9079
PL 9080
PL 9081
PL 9082
PL 9083
PL 9084
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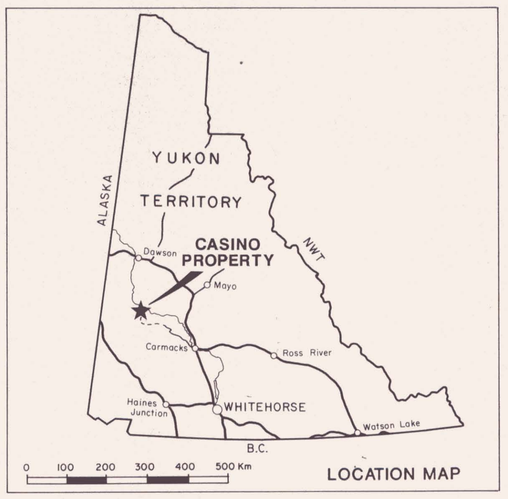
PL 9093
PL 9094
PL 9095
PL 9096
PL



138°55' 138°50' 138°45'

62°45'

62°40'

Placer trench completed to bedrock

Placer trench not completed to bedrock

36 Trench with soil sample — lead value in ppm

264/10m Trench with chip sample — lead value in ppm/distance in metres

24,120/50m Trench with soil and chip samples

PL 9050 Placer bench lease with No. 1 post and lease number

PL 9038 Placer creek lease with baseline, No.1 post and lease number

Quartz claim boundary

Placer claim boundary

093190

DWG 436

Figure 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD TRENCH AND SOIL GEOCHEMISTRY

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

SCALE 1:20,000

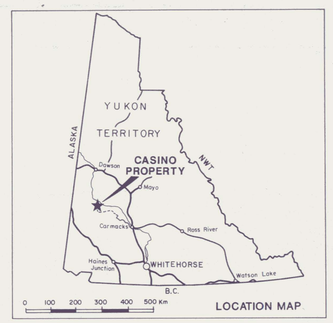
0 500 1000 1500 Metres

0 1/4 1/2 1 Mile

0 1000 2000 3000 4000 5000 Feet

To accompany report dated February, 1994

March 11/94



LOCATION MAP

N

256,000 N
255,000 N
254,000 N
253,000 N

108,000E
109,000E
110,000E
111,000E
112,000E

Patton Gulch

CANADIAN CREEK

CASINO CREEK

≥ 200 ppb Au

≥ 100 ppb Au < 200 ppb Au

≥ 50 ppb Au < 100 ppb Au

0.011/90 cat trench with gold assay (opt./metres)

15 △ 1158.1 survey station with station number and elevation in metres

C2 ○ vertical diamond drill hole with hole number

P2 ○— inclined diamond drill hole with hole number

R7 ⊗ vertical percussion drill hole with hole number

●123 1992-1993 vertical diamond drill hole with hole number

210 ●— 1993 inclined diamond drill hole with hole number

093190

DWG 437

Figure 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD TRENCH ASSAY AND SOIL GEOCHEMISTRY

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

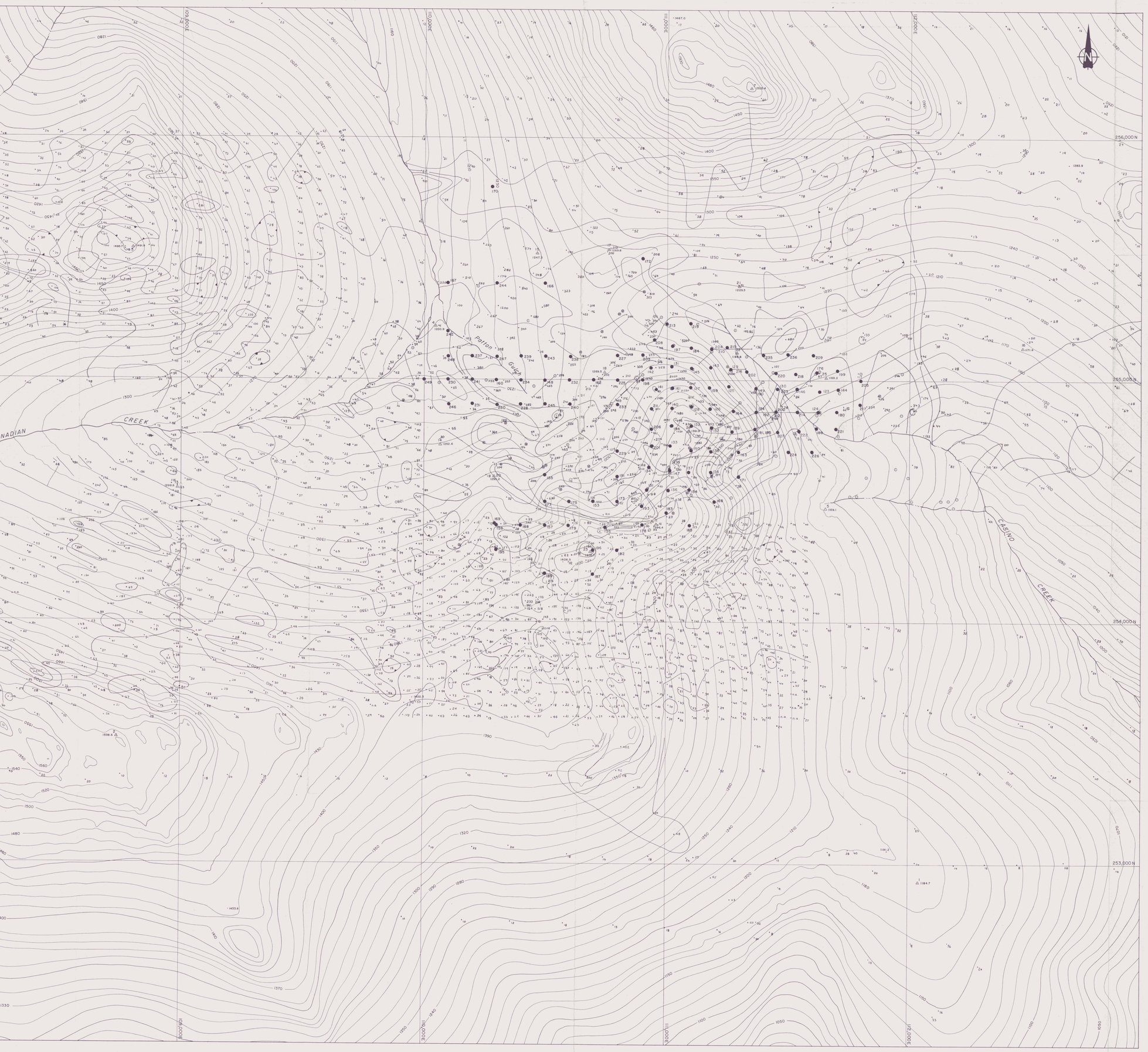
SCALE 1:5000

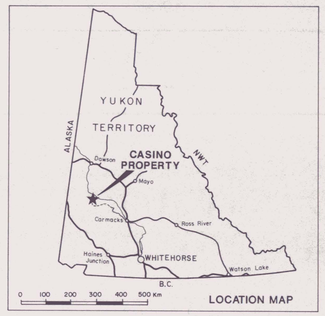
0 100 200 300 400 500 Metres

0 500 1000 1500 Feet

To accompany report dated February, 1994

Mar. 11/94





≥ 500 ppm Cu

≥ 200 ppm Cu < 500 ppm Cu

≥ 100 ppm Cu < 200 ppm Cu

≥ 50 ppm Cu < 100 ppm Cu

soil sample location with Cu value in ppm

survey station with station number and elevation in metres

pre-1992 vertical diamond drill hole

pre-1992 inclined diamond drill hole

pre-1992 vertical percussion drill hole

1992-1993 vertical diamond drill hole with hole number

1993 inclined diamond drill hole with hole number

093190

DWG 438

Figure 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER GEOCHEMISTRY

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

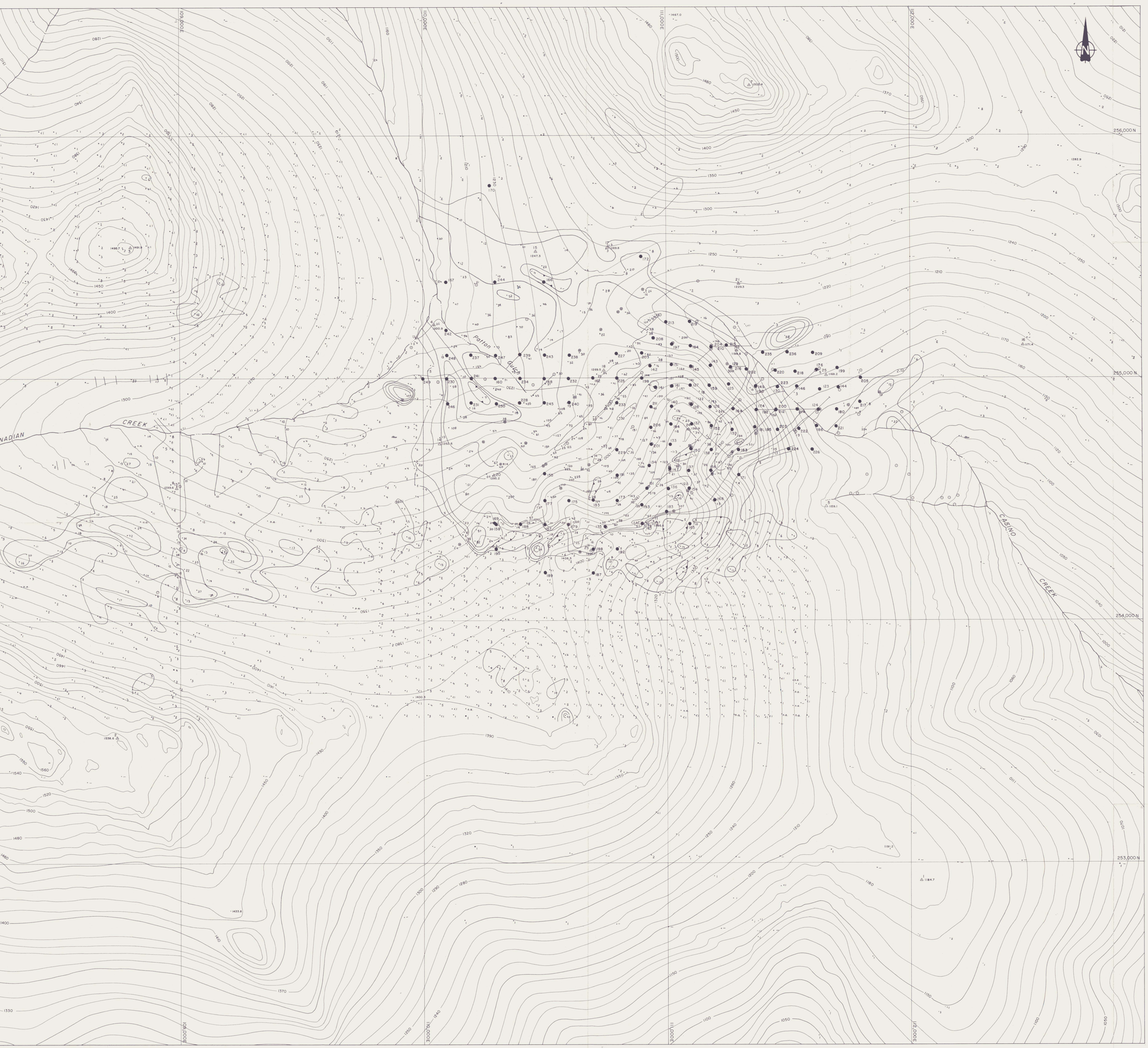
SCALE 1:5000

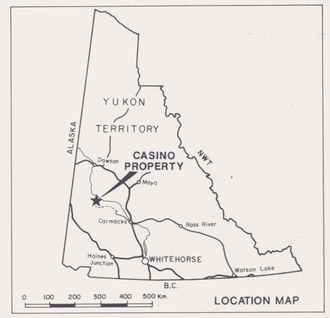
0 100 200 300 400 500 Metres

0 500 1000 1500 Feet

To accompany report dated February, 1994

March 11/94





- ☐ ≥ 50 ppm Mo
- ☐ ≥ 20 ppm Mo < 50 ppm Mo
- ☐ ≥ 10 ppm Mo < 20 ppm Mo
- ☐ ≥ 5 ppm Mo < 10 ppm Mo

- 47 — soil sample location with Mo value in ppm
- 15 △ 1159.1 — survey station with station number and elevation in metres
- ○ — pre-1992 vertical diamond drill hole
- ○——— pre-1992 inclined diamond drill hole
- ⊗ — pre-1992 vertical percussion drill hole
- ● 139 — 1992-1993 vertical diamond drill hole with hole number
- ●——— 210 — 1993 inclined diamond drill hole with hole number

093190

DWG 439

Figure 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MOLYBDENUM GEOCHEMISTRY

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

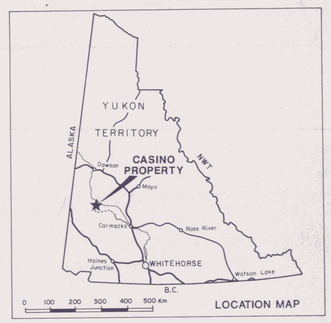
SCALE 1:5000

0 100 200 300 400 500 Metres

0 500 1000 1500 Feet

To accompany report dated February, 1994

Mead 11/94



LOCATION MAP

- ≥ 200 ppb Au
- ≥ 100 ppb Au < 200 ppb Au
- ≥ 50 ppb Au < 100 ppb Au

- soil sample location with gold values in ppb
- survey station with station number and elevation in metres
- pre-1992 vertical diamond drill hole
- pre-1992 inclined diamond drill hole
- pre-1992 vertical percussion drill hole
- 1992-1993 vertical diamond drill hole with hole number
- 1993 inclined diamond drill hole with hole number

093190

DW6 3440

Figure 21

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

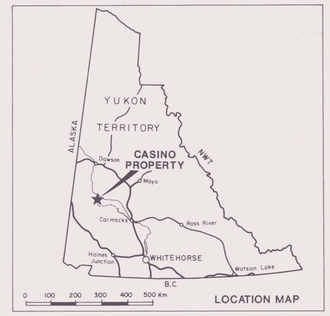
SCALE 1:5000

0 100 200 300 400 500 Metres

0 500 1000 1500 Feet

To accompany report dated February, 1994

March 11/94



LOCATION MAP

≥ 200 ppm Pb

≥ 100 ppm Pb < 200 ppm Pb

≥ 50 ppm Pb < 100 ppm Pb

- soil sample location with lead values in ppm
- survey station with station number and elevation in metres
- pre-1992 vertical diamond drill hole
- pre-1992 inclined diamond drill hole
- pre-1992 vertical percussion drill hole
- 1992-1993 vertical diamond drill hole with hole number
- 1993 inclined diamond drill hole with hole number

surface trace of Bomber vein

093190

DWG 44.1

Figure 22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD GEOCHEMISTRY

CASINO PROPERTY

PACIFIC SENTINEL GOLD CORP.

SCALE 1:5000

0 100 200 300 400 500 Metres

0 500 1000 1500 Feet

To accompany report dated February, 1994

Mar 11/94

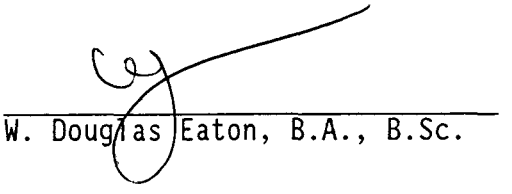
APPENDIX I

AUTHORS' STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, W. Douglas Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, do hereby declare that:

1. I graduated from the University of British Columbia in 1980 with a B.Sc. majoring in Geological Sciences.
2. From 1971 to present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, I became a partner in Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.

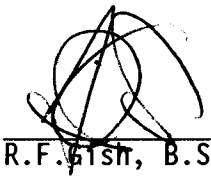


W. Douglas Eaton, B.A., B.Sc.

STATEMENT OF QUALIFICATIONS

I, R. Frank Gish, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 1993 with a B.Sc. majoring in Geological Sciences.
2. From 1976 and 1986 to present, I have been actively engaged in mineral exploration in the Yukon Territory and am presently employed with Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in and supervised the field work reported herein.



R.F. Gish, B.Sc.

STATEMENT OF QUALIFICATIONS

I, Brian Bower, of the City of Vancouver, Province of British Columbia, DO HEREBY CERTIFY THAT:

1) I am a Geologist residing at 206-2330 Maple Street, Vancouver, British Columbia.

2) I am a graduate from the University of British Columbia in 1986 with a B.Sc. in Geology.

3) I have worked in mineral exploration since 1984.

4) I was site manager on the Casino Project during the 1993 field season.

Brian Bower

Dated at Vancouver, British Columbia, this 25th day of February, 1994.

STATEMENT OF QUALIFICATIONS

I, John Payne, geologist, with business and residential address in North Vancouver, British Columbia, hereby certify that:

1. I am a graduate of Queen's University, Kingston, Ontario in 1961 with a B.Sc. in Geological Engineering and a graduate of McMaster University, Hamilton, Ontario in 1966 with a PhD. in Geochemistry.
2. I am a Fellow of the Geological Association of Canada.
3. From 1967 to the present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and have been doing so on a consulting basis.
4. I have carried out geological mapping and interpretation in the field work reported herein.

John G. Payne, PhD.

STATEMENT OF QUALIFICATIONS

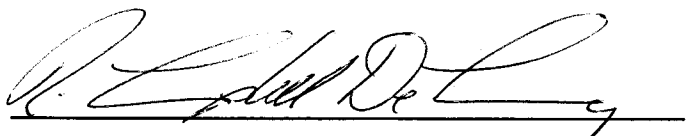
I, R. Campbell DeLong, of the City of Richmond, Province of British Columbia, DO HEREBY CERTIFY THAT:

1) I am a Geologist residing at 304-8080 Ryan Road, Richmond, British Columbia.

2) I am a graduate from Memorial University of Newfoundland in 1976 with a B.Sc. (Hon.) in Geology.

3) I have worked in mineral exploration since 1988.

4) I was a geologist on the Casino Project during the 1993 field season.



R. Campbell DeLong

Dated at Vancouver, British Columbia, this 25th day of February, 1994.

APPENDIX II

CHRONOLOGY OF SIGNIFICANT EVENTS

CHRONOLOGY OF SIGNIFICANT EVENTS 1993 CASINO PROJECT

March 5	Camp opens - T. Becker, C. Kuntz, T. Caron (E. Caron Diamond Drilling - CDD) and C. Vig (CDD) fly to property by helicopter.
March 6	Airstrip opens and first DC-3 flight arrives.
March 8-12	D. Lantz (Lamerton & Associates) surveys proposed drill sites.
March 12	Drill #1 starts.
March 16-18	D. Forster and E. Titley in for property tour.
March 19	Drill #2 starts.
March 20-21	G. Watson (Infosat) on site to install satellite telephone system.
March 30-April 1	D. Lantz surveys completed drill collars and proposed drill sites.
April 2	Drill #3 starts.
April 13-16	R. Cumming (Hobic Bit Industries) visits the property to help maximize drill production.
April 30-May 4	D. Larson (Rice Engineering & Operating Ltd.) visits the property to design an optimum drill mud and additive program.
May 8	Drill #4 starts.
May 17-18	D. Lantz surveys completed drill holes and proposed drill sites.
May 19	D. Forster tours the property with CBC radio reporter I. Marushko.
June 1-6	S. Blundell (Hallam Knight Piesold - HKP), T. Paull (HKP) and J. Gibson conduct hydrology and fisheries survey.
June 3	The first barge arrives at Britannia Creek.
June 11	Drill #5 starts.
June 16	Eastfield Resources crew flies to Casino airstrip and begins to set up camp on adjoining claims.
June 17	B. Scott from Yukon Occupational Health and Safety Officer inspected the Casino job site.
June 18-22	D. Lantz and R. Hall (Focus Engineering) on site to locate and install airphoto targets.
June 28-29	R. Banner, B. Brown (Knight Piesold - KP) and J. Haile (KP) in for property tour.

July 3	Two airphoto lines are flown before clouds prevent further photography.
July 6-9	S. Blundell and J. Gibson visit property for hydrology study.
July 7	D. Eaton and D. Forster tour property with YTG government officials, including J. Ostashek (Government Leader) and J. Devries (Minister of Economic Development).
July 8-11	E. Titley visits property.
July 11-12	D. Lantz surveys completed drill holes and proposed drill sites.
July 12	Drill #6 starts.
July 13	D. Forster and B. Dickinson in for tour.
July 16-18	T. Lewis (GSC) and W. Bentkowski (GSC) conduct downhole thermal gradient survey on selected Casino drill holes.
July 27-28	K. Pelletier (EDA) and C. Wallace (EDA) tour the property.
July 29	The remainder of the airphotos were flown.
August 2-3	D. Lantz surveys completed drill holes and proposed drill sites.
August 10	D. Forster and S. Cousens host a Yukon media tour of Casino.
August 10-13	S. Blundell and T. Paull conduct fisheries study.
August 11-13	R. Shives (GSC), L. Rebolledo (GSC) and S. Johnson (EDA) tour the property and examine drill core.
August 16	J. Mortensen (GSC), H. Poulson (GSC) plus four Chinese geologists tour the property.
August 21	D. Lantz surveys completed drill holes and proposed drill sites.
August 25	D. Cornett (Water Resources), A. von Finster (Fisheries and Oceans) and R. White (RERC) tour the property.
August 30	D. Forster tours the property with Chief P. van Bibber and elders I. Harper, J. Alfred, W. Curry and D. Isaac from the Selkirk First Nations while D. Eaton accompanies Chief E. Fairclough and elders M. Vance, J. Sam, F. Blanchard and V. Mullet from the Little Salmon-Carmacks First Nations.
September 7-9	J. Gibson and W. Kettley (Water Resources) conduct duplicate sampling at water quality test sites and soil sample the Proctor Creek drainage.
September 10-11	D. Lantz surveys completed drill holes and proposed drill sites.

September 13	S. Bishop (Kennecott Canada - KC) and R. Hulstein (KC) tour the property.
September 21-28	S. Blundell conducts hydrology, fisheries and wildlife survey.
September 28	J. Wolchuk (Carmacks RMO) and P. Rienks (Carmacks Land Use Officer) visit Casino while inspecting operations by placer miners and other exploration companies in the area.
September 29	D. Forster tours property with a CBC North and Northern Native Broadcasting television crew.
September 30	A. Gomi (Mitsui) tours the property with D. Forster and D. Niosi (PSG).
October 5	D. Lantz surveys completed drill holes and proposed drill sites.
October 12	D. Lantz surveys completed drill holes and proposed drill sites.
October 12-14	J. Gibson conducts hydrology survey.
November 6	Drill #1 finishes.
November 7	Drills #3 and #5 finishes.
November 8	Drill #4 finishes.
November 9	Drill #2 finishes.
November 9-10	D. Lantz surveys completed drill holes.
November 10	Drill #6 finishes. L. Smith (winter watchman) arrives at Casino camp.
November 12	Camp closes except for winter watchman.

APPENDIX III

SERVICE AND SUPPLIERS

SERVICE AND SUPPLIERS 1993 CASINO PROJECT

Aircraft Charters

Air North
Box 4998
Whitehorse, Y.T.
phone 668-2228

DC-3

Alkan Air
Box 4008
Whitehorse, Y.T.
phone 668-2107

Navajo
Cessna 206

Resource Air
Box 3947
Whitehorse, Y.T.
phone 668-2837

Islander
Cessna 206

Trans North Air
Airport Hangar "C"
Whitehorse, Y.T.
phone 668-2177

Bell 206 helicopter

Barge Operator

Jacob's Industries Ltd.
4269 - 4th Avenue
Whitehorse, Y.T.
phone 667-7606

Construction Materials

General Enterprises
120 Industrial Road
Whitehorse, Y.T.
phone 667-6201

Drill and Equipment Contractor

E. Caron Diamond Drilling
7 Roundel Road
Whitehorse, Y.T.
phone 668-2424

Groceries

Riverdale Market
95 Lewes Blvd.
Whitehorse, Y.T.
phone 667-7673

Surveyor

Lamerton & Associates
Suite 200, 106 Main Street
Whitehorse, Y.T.
phone 667-6664

APPENDIX IV

CORE STORAGE

CORE STORAGE

Rack Number	Hole Number
1	92-123, 92-124, 92-125, 92-126, 92-127, 92-128, 92-129, 92-130
2	92-130, 92-131, 92-132, 92-133, 92-134, 92-135, 92-136, 92-137
3	92-137, 92-138, 92-139, 92-140, 92-141, 92-142, 92-143
4	92-143, 93-144, 93-145, 93-146, 93-147
5	93-147, 93-148, 93-149
6	93-149, 93-150, 93-151, 93-152
7	93-152, 93-153, 93-154, 93-155, 93-123
8	93-123, 93-124, 93-125, 93-126, 93-127, 93-128, 93-156
9	93-156, 93-157, 93-141, 93-158, 93-159
10	93-159, 93-160, 93-161, 93-162, 93-163
11	93-163, 93-136, 93-139, 93-164, 93-165
12	93-165, 93-166, 93-167, 93-168
13	93-168, 93-169, 93-138, 93-170, 93-137, 93-171
14	93-171, 93-172, 93-135, 93-173, 93-174
15	93-174, 93-175, 93-176, 93-177, 93-132
16	93-132, 93-143, 93-178, 93-133, 93-131, 93-179
17	93-179, 93-180, 93-181, 93-182, 93-183
18	93-183, 93-184, 93-185, 93-186
19	93-186, 93-187, 93-188, 93-189, 93-190
20	93-190, 93-134, 93-191, 93-142, 93-192
21	93-192, 93-129, 93-193, 93-194, 93-195
22	93-195, 93-196, 93-197, 93-199
23	93-199, 93-200, 93-198, 93-201, 93-202, 93-203
24	93-203, 93-204, 93-205, 93-206

Rack Number	Hole Number
25	93-206, 93-207, 93-208, 93-209, 93-210
26	93-210, 93-211, 93-212, 93-213, 93-214
27	93-214, 93-215, 93-216, 93-217, 93-218
28	93-218, 93-219, 93-220, 93-221, 93-222
29	93-222, 93-223, 93-224, 93-225, 93-226
30	93-226, 93-227, 93-228, 93-229, 93-230, 93-231, 93-232
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33	93-242, 93-243, 93-244, 93-245, 93-246, 93-247
34	93-247, 93-248, 93-249, 93-250
19A	P22, P23, P25, P49, P50, P51, P52, P53, P54, P55, P29, D2

0100-62
APPEND

PACIFIC SENTINEL GOLD CORPORATION

093190

CASINO PROJECT

DATA REPORT 1993

Prepared for

PACIFIC SENTINEL GOLD CORPORATION
1020-800 West Pender Street
Vancouver, B.C.
V6C 2V6

Prepared by

Hallam Knight Piesold Ltd.
Suite 1450-750 West Pender Street
Vancouver, B.C.
V6C 2T8

March 1994

PACIFIC SENTINEL GOLD CORPORATION
CASINO PROJECT

DATA REPORT 1993

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PACIFIC SENTINEL GOLD CORPORATION
CASINO PROJECT

DATA REPORT 1993

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1.0 BACKGROUND

The Casino Property lies within the Dawson Range Ecoregion, as described by Oswald and Senyk (1977). The characteristic terrain features are smooth, rolling topography, with moderate to deeply incised valleys. Major drainage channels extend below 1000 m elevation. Most of the terrain lies between 1000 m and 1500 m elevation. The ecoregion straddles the boundary between the discontinuous widespread and scattered permafrost subzones (Brown 1967). Cryoplanation terraces are fairly common in the unglaciated portion. The valley bottoms, with impeded drainage, have prominent permafrost features such as peat plateaus, palsas, hummocky tussock fields and polygons. The climate is continental and cold, with mean annual temperatures in the vicinity of -7°C and average annual precipitation of approximately 330 mm.

The following presents an outline of the 1993 environmental monitoring program and a summary of the data compiled to date for Pacific Sentinel Gold Corporation's Casino Project at Casino Creek, Yukon Territory (Figure 1). The period of the study was designed to coincide with the exploration program (March to October 1993) such that much of the data collection could be carried out by Casino field personnel. The baseline environmental program for 1993 included meteorology, hydrology, water quality, stream sediments, vegetation, soils, wildlife, fisheries, benthics and periphyton analyses of the area. This document provides a brief description of the monitoring components, the location of the sampling stations and the results. Field techniques followed during the program are presented in Casino Project Baseline Environmental and Socioeconomic Studies (Hallam Knight Piesold Ltd., November 1993).

2.0 RESULTS

2.1 Meteorology

2.1.1 Temperature

For the period of April to December 1993 the mean monthly temperature ranged from -13.2 to 12.4°C (Figure 2). Extreme maximum and minimum temperatures recorded were 25.3°C (July 16)

and -35.0°C (November 20), respectively (Table 1). Compared to previous years the Yukon Territory experienced a particularly mild fall, with a high temperature of 15°C recorded in early October at the project site.

2.1.2 Precipitation

Maximum precipitation was observed in July, with a monthly cumulative value of 123.3 mm (Figure 3). Four substantial rainfall events were recorded, with average daily values of 18.5 mm. Minimum precipitation occurred in December, with a monthly cumulative value of 0.5 mm. Precipitation was comprised of exclusively snow for the months of March, April, November and December. Mixed snow and rain occurred in October (Table 2).

2.1.3 Snow Pack

Based on seventeen years of snow survey data for the area (Station # 09CD-SC01) snow pack depletion in 1993 was above normal for the Casino Project area (Table 4). Snow densities were higher than average (29%, May 1993), indicating a wet snowpack. Snow melted rapidly in early May during a period of warm weather.

2.2 Hydrology

Preliminary water level graphs from all hydrology stations are presented in Figures 4 to 9 and a flow measurement summary is presented in Table 3. Peak runoff was observed in July 1993 at all stations, corresponding with high precipitation values. Daily fluctuations that were observed from June to September were due to permafrost thaw. More dramatic daily fluctuations observed in October were likely due to permafrost thaw and snow melt combined.

2.3 Surface Water Quality

Water quality data for samples taken from June to October 1993 are presented in Table 5. The

pH values of water samples collected from June to October ranged from 3.86 to 7.92 and were within the Canadian Council Ministers of the Environment (CCME) guidelines criteria except at Site W8 (Table 6). Water hardness and alkalinity levels ranged from 26.6 (W7) to 207.0 (W8) mg/L $CaCO_3$ and <1.0 (W8) to 87.0 (W1) mg/L, respectively. Turbidity and total suspended solids values ranged from 0.31 (W3) to 32.2 (W8) NTU and <1 to 46 (W8) mg/L, respectively.

Ammonia levels were frequently below detection limits (<0.005 mg/L) and were below CCME criteria (1.37 mg/L) in all samples. Nitrate and nitrite levels were below CCME criteria (40 mg/L) in all water samples. Sulphate levels for all water quality sampling sites except W8 were within the CCME water quality criteria (<100 mg/L) and ranged from 12.5 to 79.8 mg/L. Sulphate levels at site W8 were above the allowable limits throughout the sampling period and values ranged from 170 to 236 mg/L. Fluoride levels were above CCME guidelines twice at site W8 during the sampling period (0.21 and 0.23 mg/L). Levels of cyanogen-like compounds (detected as cyanide) were above CCME guidelines (0.005 mg/L) in 28.8% (15/52) samples at sites W1, W2, W3, W5 and W9.

Levels of total and dissolved antimony, arsenic, chromium, cobalt, mercury, molybdenum, nickel, selenium and uranium were within CCME criteria for total metals in all samples. The following metals were above CCME water quality criteria:

- Total aluminum which ranged from 0.013 to 3.93 mg/L exceeded the CCME guideline of 0.05 mg/L in 50% of the samples (sites W2, 3, 4, 5, 6a, 6b, 7, 8 and 9). The dissolved fraction which normally comprised 80% of the total value also exceeded the guideline in 21% of the samples (sites W2, 3, 8 and 9).

- Cadmium levels were above criteria (>0.0002 mg/L) in 19% of the total metals sample from sites W3, 4, 7 and 8 and ranged from <0.0002 to 0.0043 mg/L. Levels of dissolved cadmium were above CCME guidelines for total metals in 15.4% (W7 and 8) and values ranged from below detection limits to 0.0013 mg/L.

- Copper was above criteria (>0.002 mg/L) in 65% of the total metals samples (sites W1,

2, 3, 4, 5, 6a, 7, 8 and 9) and values ranged from <0.001 to 0.594 mg/L. Dissolved copper levels were above criteria in 53.8% of the water samples (site W1, 2, 3, 4, 5, 7, 8 and 9) and ranged from below detection limits to 0.594 mg/L.

- Levels of total iron were above criteria (>0.3 mg/L) in 21% of the total metals samples (sites W4, 6a, 6b, 8 and 9) and ranged from <0.03 to 9.09 mg/L. Levels of dissolved iron were above criteria in 13.5% (W8), and ranged from <0.03 to 6.7 mg/L.

- Zinc levels were above CCME criteria in 17% of the total metals samples (sites W1, 8 and 9) and ranged from <0.005 to 0.04 mg/L. One sample from W1 was above CCME, but this elevated level was likely due to contamination. Zinc levels were above CCME guidelines in 13% (W8) of the dissolved metals samples, and values ranged from below detection to 0.148 mg/L.

Levels of total lead, manganese and silver were within CCME criteria (Table 6) at all water quality sampling stations except W8. Site W8 had the following metal characteristics:

- Lead levels were above CCME criteria in 57% of the total metals water samples and 14% of the dissolved metal samples and ranged from <0.001 to 0.003 and <0.001 to 0.002 mg/L, respectively.

- Manganese levels were above criteria in 100% of the total metals samples and ranged from 0.356 to 0.484 mg/L. Dissolved manganese levels were also above criteria in 100% of the water quality samples and ranged from 0.355 to 0.484 mg/L.

- Silver levels were above criteria in 29% of the total metals samples and ranged from <0.0001 to 0.0002 mg/L.

In general, the water samples from site W8 have a low pH, high water hardness and alkalinity and contain high levels of sulphates and metals. Many of these characteristics are likely to be contributed by Proctor Gulch, a tributary that confluences with Casino Creek upstream from site

W8. Although full water quality analysis has not been conducted for Proctor Gulch, in-situ sampling indicates that it has a very low pH and contains high levels of dissolved solids.

2.4 Stream Sediments

Stream sediments were sampled in September 1993 at sites W1, 3, 4, 5, 8, 9, S8a and S8b (Figure 10). Sediments from all stations except site S8a (14.5%) contained very low quantities of organic carbon. Loss on Ignition (LOI) values ranged from 0.55 to 3.28% (Table 7).

Mercury levels were low in all samples and ranged from 0.01 to 0.045 (S8a) mg/kg. Silver and tin levels were below detection levels in all samples. Copper and molybdenum levels were highest in upper Casino Creek (S8a), but were lower at site W8 in Casino Creek, below the Proctor Gulch confluence. Arsenic levels in Proctor Gulch sediments were high (48.6 mg/kg) as were sediments in Casino Creek below Proctor Gulch. A certain degree of arsenic deposition has occurred below the confluence. Although zinc levels in both upper Casino Creek (S8a) and Proctor Gulch (S8b) were within the range of the other samples taken, averaging 77.20 and 77.50 mg/kg, respectively, the level detected in Casino Creek below the Proctor Gulch confluence was elevated. It appears that a deposition of zinc has occurred at this site due to a precipitation of the metal in response to a pH shift in the water.

2.5 Vegetation

Within the Dawson Range Ecoregion, which encompasses the Casino Property, open black and white spruce stands occur in valleys and on lower slopes with black spruce prevailing on wetter sites and white spruce on better drained sites. Where black spruce occurs as a continuous forest stand, feathermoss tends to dominate the understorey and form a complete ground cover. The best tree growth occurs along the White and Yukon River valleys, where white spruce, trembling aspen, balsam poplar and paper birch are constituents of mixed stands. Willow species, scrub birch, Labrador tea, moss and lichens are principal understory species. Scrub birch and willow form

extensive stands from valley bottoms to well above treeline. Sedge tussock fields, usually hummocky and supporting ericaceous shrubs, willows, lichens and sphagnum, are prevalent where drainage is impeded, a common situation on lower slopes and valley bottoms. On south facing slopes, sagewort, grasses and forbs occur as a continuous cover with trembling aspen stands occupying protected draws and gulleys (Oswald and Senyk 1976).

A vegetation survey was conducted in the Casino Project area in July 1993. Vegetation transects were analyzed to determine the species presence and the relative quantity of plants (Tables 8a and 8b). In lower Britannia Creek, near the Yukon River confluence dominant trees are balsam poplar and paper birch. Some white spruce also exist. Understory species consist of prickly rose, tall larkspur, tall lungwort, highbush cranberry and fireweed. Meadow horsetail, tufted hairgrass and sweet scented bedstraw were the main ground cover species. An extensive layer of leaf litter was noted.

Level to gently sloping valley bottom sites in upper Britannia Creek and Canadian Creek have moderately open black spruce stands, with some balsam poplar and scattered willow growth. Labrador tea, shrubby cinquefoil and tall lungwort are common herb layer species. The hummocky ground also supports lingonberry, pink wintergreen, horsetail, single delight, and variety of lichen, mosses and fungi.

Slopes and well-drained ridges with good soil cover consist mostly of trembling aspen varying from sparse growth on south-facing slopes, to dense growth on east and west-facing slopes. White spruce may occur occasionally. Pasture sage, prickly rose, common juniper, soopolallie and grasses are the most common herb layer species. Some twinflower, northern bedstraw, goldenrod, fireweed, mountain death-camass, hairy scorpion weed and pink campion also occur.

Alpine areas are dominated by scrub birch with a sparse distribution of stunted (Krummholz) black spruce. Variable willow and Labrador tea (two species) are the most common species in the shrub layer. The herb layer is comprised mostly of bog blueberry and bog cranberry. Several species of wild flowers such as monkshood, three-toothed saxifrage and black-tipped groundsel are distributed in patches and are frequently associated with talus rock aggregates. Ground cover

consists of golden fuzzy fen moss, sphagnum moss, feather moss and a variety of lichen (freckled, reindeer, green kidney, curled cretaria, rock worm).

In upper Casino Creek the tree layer is comprised mostly of black spruce. The shrub layer consists of Sitka willow and scrub birch, with some labrador tea. The herb layer consists of bog blueberry, tall lungwort, pink mountain-heather, coltsfoot, Labrador lousewort, mountain heliotrope and cloudberry. The lichen and moss layer is comprised of freckled lichen, moonshine cetraria, reindeer lichen, pixie cup lichen, rock worm lichen, sphagnum moss and golden fuzzy fen moss.

In low, wet areas adjacent to Casino Creek and Dip Creek, willows are the dominant vegetation. Species include Sitka willow, Little tree willow and Barratt's willow. Scattered black spruce are often present, and white spruce and balsam poplar are also present to a lesser extent. Dwarf shrubs consist of wild rose, shrubby cinquefoil, Northern black currant and Labrador tea. The herb layer species are very diverse and include horsetail, lungwort, bog blueberry, fireweed, single delight and vetch. Ground cover consists mostly of several species of grasses, freckled lichen and reindeer lichen.

Beyond the perimeter of the creeks is an extensive muskeg. Low densities of black spruce exist in these areas, but consist of Krummholz formation. Scrub birch is the most common shrub with the occasional occurrence of mountain alder. The herb layer consists mostly of Labrador tea (both species), bog cranberry and cloudberry. The entire area is covered by sedge/cottongrass tussocks and reindeer lichen.

2.6 Soils

Soil samples were collected in September 1993 from the proposed mill site, starter pit, waste rock dump and tailings storage areas for the purpose of developing a reclamation plan (Figure 11).

All samples taken from the proposed mill site had low clay fractions and were found to have a high sand/silt ratio (Table 9a). Samples collected from the starter pit area also had high gravel/sand/silt

fractions except for one organic rich sample taken from Patton Gulch which could not be analyzed for texture due to the high peat content. Samples from the waste rock disposal area were variable; one sample consisted mostly of silt and clay and another was composed of gravel and sand. Soil texture from samples collected in the tailings areas were also found to be variable; several samples had high silt content, while others were high in gravel and sand.

The capacity of the soil to exchange cations provides some information on its inherent nutrient holding capacity. Soils from the proposed waste rock disposal and tailings storage facility had higher cation exchange values than those samples collected in the proposed mill site and starter pit areas (Table 9b).

Soils ranged from very strongly acidic to neutral (Kennedy 1992); the pH values ranged from 4.7 to 6.8. The most alkaline soil was found in the tailings storage disposal area and the most acidic soil was found in the starter pit area.

Salinity is defined as the amount of soluble salts in the soil, and is expressed as electrical conductivity (EC) of soil saturation. According to Christie (1980) values less than 1.0 mmhos/cm provide favourable conditions for plant growth. On average, salinity values ranged from 0.7 to 2.0 mmhos/cm, but none of the soils were considered saline (>4.0 mmhos/cm) (Michaud 1981). On average, soils in the starter pit and waste rock disposal areas were considered more favourable for plant growth.

Total sulphur and nitrogen ranged from 0.001 to 0.31% and 0.02 to 0.9%, respectively. The lowest values detected in soils from the tailings storage area and the highest from the starter pit area. All soils examined in the project area had good iron content, ranging from 45 to 525 ppm. Copper values were variable and ranged from 1.1 (tailings storage area) to 65.0 ppm (starter pit area). Zinc values ranged from 0.6 to 13.0 ppm. Manganese values were variable and ranged from 5 ppm in the starter pit to 525 ppm in the tailings storage area. Aluminum values were high in some samples; soils from the mill site and the starter pit contained 2100 ppm and 2000 ppm aluminum, respectively.

2.7 Fish and Wildlife Observations

2.7.1 Wildlife

From general observations recorded in the fish and wildlife log (Table 10) it was noted that the Casino Project area provides moderately good habitat for moose. Frequent sightings of moose were reported in both the Casino Creek and Britannia/Canadian Creek watersheds. A population of caribou were observed in the vicinity of the Canadian Creek headwaters from June to August.

Black bear were frequently seen throughout the Casino Project property. Several sightings of grizzly bear were also noted during the summer months, and were often observed to be accompanied by cubs. Lynx were sighted twice in the vicinity of lower Britannia Creek. In addition, wolf tracks and scat were observed along Casino Creek at several sites. Several fox were observed in the vicinity of Patton Hill. Wolverine, pine marten and weasel were also observed in the vicinity of the Britannia Creek/Canadian Creek watershed. Snowshoe hare were observed throughout the project area. A variety of rodents were observed in the project area including beaver, hoary marmot, porcupine, bog lemming, boreal vole and weasels.

Several species of birds were sighted in the area including ravens, spruce grouse, ptarmigan, grey owls and hawks. Flocks of sandhill cranes were also observed during migration.

The following observations were made during a pellet count survey conducted concurrently with the vegetation study:

- snowshoe hare sign were observed throughout the study area; in particular in the deciduous forests adjacent to both watersheds.
- fox scat was observed in the Casino Creek valley
- signs of a vole species were observed in the upper Britannia Creek valley in the areas forested by black spruce

- bear dung observed in lower Britannia Creek vegetation and in lower Casino Creek
- beaver activity in lower Casino Creek

Aerial Survey

June 1993

Caribou (1) observed on Leslie Ridge, south of the Casino Project

Black bear cubs (3) observed on slopes above Canadian Creek

Several ptarmigan observed in area of both watersheds

September 1993

Moose (one male and one female) observed in Casino Creek valley, near the Rude Creek/Dip Creek confluence.

Moose (two males) observed in the area adjacent to Canadian Creek.

Moose (one male) observed in area adjacent to lower Britannia Creek.

Several ptarmigan observed in area of both watersheds.

2.7.2 Fish

Fisheries surveys were conducted in the Canadian/Britannia Creek and Casino/Dip Creek watersheds in June, August and September, 1993 to determine the spawning, rearing and overwintering potential of both creeks.

Britannia Creek/Canadian Creek Watershed

Arctic grayling were found throughout the system during all three fisheries surveys (June, August and September 1993) (Table 11). These creeks appear to provide good spawning and rearing habitat, especially the lower reaches of the system. Grayling fry were observed in Britannia Creek at the Yukon River confluence during the August and September surveys. Slimy sculpin were also observed in the lower reaches of Britannia Creek. In addition, several round whitefish adults and fry were present in these areas. One juvenile burbot was captured at this sample site during the September survey. Juvenile chinook salmon were observed in the lower reaches of Britannia Creek during the June and August surveys but were not observed in September. This system may provide some rearing potential for chinook salmon. Spawning salmon were not observed in Britannia Creek during the study. Therefore, the value of this system for the purpose of spawning is questionable and requires further investigation.

Casino Creek/Dip Creek Watershed

Arctic grayling were observed in the lower reach of Casino Creek watershed during all three surveys (Table 11). Fry were not observed. Therefore, it is likely that this system provides good rearing habitat, but little to no spawning habitat. Due to the occurrence of decreased water levels and the development of anchor ice in winter months the quality of overwintering habitat in Casino Creek is poor. Slimy sculpin were observed in the lower reaches of Casino Creek and in Dip Creek during all three surveys.

2.8 Benthic Invertebrates and Periphyton

Benthic invertebrate and periphytic algal samples were collected in August 1993 in the project area at water quality stations W1, 2, 3, 4, 5, 7, 8 and 9.

2.8.1 Benthic Invertebrates

Site W1, in lower Britannia Creek had a benthic population that consisted of 79% facultative organisms, dominated by several dipteran species (Table 12). This area of the creek has been heavily affected by the Yukon River, as high flows have resulted in back-watering. Also, placer mining was conducted in the 1980's. Site W2, in Britannia Creek near the Canadian Creek confluence, showed a more diverse population of benthic organisms and 72% of the population were sensitive organisms. This site had the lowest population density, 1776 organisms per m^2. Site W3, in lower Canadian Creek supported a benthic population that consisted of 63% facultative organisms and was dominated by several species of dipterans and one species of plecopteran. Both Site W7, in upper Canadian Creek, and W8 in upper Casino Creek supported benthic populations that were comprised of 65% tolerant organisms. Both of these sites have been disturbed; Site W7 has historically been the site of placer mining, and Site W8 is below the confluence of Proctor Gulch, a tributary which contains naturally high metal levels and very low pH (4.0). Sites W7 and W8 had the highest density of organisms, ranging from 5823 to 5888 organisms per m^2. Site W4 in lower Casino Creek had a benthic population that consisted of 47% facultative and 33% sensitive organisms. Sites W9 and W5 on Dip Creek, above and below the Casino Creek confluence, respectively, supports benthic populations that were comprised of 69% to 79% facultative organisms. These populations were dominated by several species of diptera.

2.8.2 Periphyton

Britannia Creek/Canadian Creek Watershed

Site W1 samples contained 100% diatoms (Table 13) which were mixed with silt. Samples from Site W2 contained small amounts of algae which were comprised of 97 to 99% diatoms, with small quantities of blue-green algae present. Site W3 samples contained small to moderate amounts of algae which were variable in species composition. Replicates were comprised of 5 to 80% diatoms, with several species of filamentous and crustose blue-green algae being occasionally predominant. Site W7 samples contained very little algae which was comprised mostly of crustose blue-green algae with small numbers of diatoms present.

Casino Creek/Dip Creek Watershed

Samples from Site W4 contained very little to moderate amounts of sediments which consisted of mostly algae with a small amount of silt. Diatoms comprised 93 to 98% of the periphyton (Table 13). Small amounts of blue-green and red algae were also present in the samples. Samples from W5 contained moderate amounts of silt and algae. Species composition varied considerably amongst the replicates. Diatoms comprised 25 to 98% of the periphyton in the samples and filamentous red alga was occasionally predominant. Samples from Site W8 contained small amounts of sediment composed of soft detritus and bacteria, but no algae were observed in any of the samples. Samples from Site W9 contained very little sediment, which was comprised of algae and relatively little silt. Diatoms comprised 35 to 95 % of the periphyton and several blue-green algal species were common or present in all replicates. Filamentous red algae was also common in several replicates.

Chlorophyll "a" Content

Chlorophyll "a" values for the Britannia Creek/Canadian Creek watershed ranged from 0.034 (Site W8) to 0.235 (Site W3) mg/cm^2 (Table 14). Values for the Casino Creek/Dip Creek watershed ranged from 0.023 (Site W8) to 0.132 (Site W4). The lowest values detected were collected from sites W7 and W8, upper Canadian and Casino Creeks, respectively. The highest chlorophyll "a" value detected was from a periphyton sample collected from site W3, in lower Canadian Creek.

Pacific Sentinel Gold Corporation
Casino Project

Table 1
Monthly Temperature (° C)
March 19 to December 31, 1993

Month	Mean Maximum	Extreme Maximum	Mean Minimum	Extreme Minimum	Monthly Mean
March*	1.8	6.7	-11.1	-14.9	6.4
April	6.90	10.30	-3.60	-8.90	5.20
May	13.40	22.50	2.00	-2.90	7.70
June	15.90	21.50	5.40	0.00	10.60
July	17.60	25.30	7.20	3.70	12.40
August	14.50	20.40	5.00	-0.50	9.75
September	9.58	21.50	-0.13	-8.10	4.72
October	2.80	15.10	-5.10	-18.70	-2.30
November	-8.20	0.80	-12.30	-35.00	-10.30
December	-11.1	-2.0	-15.2	-26.0	-13.2

* Incomplete data

Table 2
Monthly Accumulative Precipitation (mm)
March 19 to October 31, 1993

Month	Total Rainfall	Total Snowfall*	Total Precipitation
March+	0.00	22.50	22.50
April	0.00	4.60	4.60
May	62.71	0.00	62.71
June	73.70	0.00	73.70
July	123.30	0.00	123.30
August	43.15	0.00	43.15
September	25.20	9.40	34.60
October	3.00	11.90	14.90
November	0.00	46.40	46.40
December	0.00	0.50	0.50

* Snowfall in (cm) of water equivalent (@10%)
+ Incomplete data

Pacific Sentinel Gold Corporation
Casino Project

Table 3
Summary of Flow Volumes (1993)

Station	Location	June 03		July 07		July 21		September 07		October 12	
		Q(m^3/sec)	m^3/sec/km^2	Q(m^3/sec)	m^3/sec/km^2	Q (m^3/sec)	m^3/sec/km^2	Q (m^3/sec)	m^3/sec/km^2	Q (m^3/sec)	m^3/sec/km^2
H1	Britannia Creek u/s of Yukon River	0.828	0.0058	0.653	0.0046	0.485	0.0034	0.554	0.0039	0.381	0.0026
H2	Britannia Creek d/s of Canadian Creek	0.684	0.0062	0.584	0.0053	0.334	0.003	0.477	0.0043	0.413	0.0038
H3	Canadian Creek u/s of Britannia Creek	0.406	0.0063	0.427	0.0067	0.309	0.0048	0.363	0.0056	0.292	0.0045
H4	Casino Creek u/s of Dip Creek	0.536	0.0065	0.537	0.0065	0.541	0.0066	0.542	0.0066	0.397	0.0048
H5	Dip Creek d/s of Casino Creek	02.88	0.0104	1.967	0.0071	1.885	0.0068	1.703	0.0062	1.409	0.0051

Pacific Sentinel Gold Corporation
Casino Project

Table 4
Snow Survey Data

Station Number 09CD-SC01
Elevation 1065 m
Long. 138 deg., 48 min.
Lat. 62 deg., 44 min.

Year	February 01			March 01			April 01			May 01			May 15		
	Depth (cm)	Snow Water Equivalent (mm	Density (%)	Depth (cm)	Snow Water Equivalent (mm	Density (%)	Depth (cm)	Snow Water Equivalent (mm	Density (%)	Depth (cm)	Snow Water Equivalent (mm	Density (%)	Depth (cm)	Snow Water Equivalent (mm	Density (%)
1977	39	53	14	45	68	15	50	80	16	51	125	25	N.D.	N.D.	N.D.
1978	56	80	14	52	90	17	57	98	17	44	86	20	N.D.	N.D.	N.D.
1979	63	97	15	66	113	17	83	170	20	51	145	28	N.D.	N.D.	N.D.
1980	49	40	8	45	68	15	43	81	19	48	95	20	0	0	0
1981	31	45 E[a]	15	50	70	14	50	78	16	40	88	22	0	0	0
1982	57	94	16	63	110	17	70	118	17	79	165 E	21	64	173	27
1983	55	42	8	72	118	16	68	120 E	18	34	80	24	0	0	0
1984	61	86	14	62	105	17	59	110 E	19	73	139	19	23	72	31
1985	59	116	20	70	130 E	19	63	143	23	72	180 E	25	60	166	28
1986	N.D.[b]	N.D.	N.D.	69	108	16	73	127	17	71	168	24	62	150	24
1987	N.D.	N.D.	N.D.	42	63 E	15	54	92	17	55	101	18	37	117	32
1988	N.D.	N.D.	N.D.	52	98	19	59	99	17	34	54	16	N.D.	N.D.	N.D.
1989	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	65	136	21	33	80	24	0	0	0
1990	N.D.	N.D.	N.D.	73	119	16	60	144 E	24	34	100 E	29	0	0	0
1991	N.D.	N.D.	N.D.	82	179	22	92	225	24	61	167	27	24	79	33
1992	N.D.	N.D.	N.D.	67	124	19	70	135	19	83	207	25	83	207	25
1993	N.D.	N.D.	N.D.	76	148	19	97	184	19	65	190	29	0	0	0
MEAN	52	73	14	62	107	17	65	126	19	55	128	23	27	74	29
MAX.	63	116	20	82	179	22	97	225	24	83	207	29	83	207	32
MIN.	31	40	8	42	63	14	43	78	16	33	54	16	0	0	24

a E = Estimate
b N.D. = Not determined. Data not available for survey date in 1986

Table 5
Surface Water Quality

Tests	Site W1					Site W2						Site W3				
	June	July	August	September	October	June	July (1)	July (2)	August	September	October	June	July	August	September	October
Physical Tests																
Conductivity umhos/cm	216	257.00000	209	311	300	177	211.00000	211.00000	157	252	248	175	207.00000	169	254	256.00000
Total Dissolved Solids	139	160.00000	141	208	233	109	127.00000	125.00000	105	164	185	107	125.00000	113	170	188.00000
Hardness CaCO3	99.1	114.00000	101	146	159	81.1	94.80000	94.60000	76.4	117	125	79.8	92.60000	83.8	116	129.00000
pH	7.1	7.64000	7.6	7.43	7.41	7.2	7.68000	7.66000	7.6	7.52	7.71	7.27	7.69000	7.6	7.54	7.72000
Total Suspended Solids	6	1.00000	3	<1	<1	<1	<1	<1	3	<1	<1	3	<1	5	<1	<1
Turbidity NTU	0.32	0.80000	1.52	0.62	0.32000	0.55	0.67000	1.00000	1	0.63	0.38	0.38	1.03000	1.79	0.91	0.31000
Dissolved Anions																
Alkalinity - Total CaCO3	61.1	74.20000	64.9	84	87	52.2	62.20000	57.80000	56.9	70	70.60000	47.8	58.40000	48.4	68	84.10000
Chloride - Cl	0.8	0.70000	0.9	<0.5	0.50000	0.6	0.90000	0.60000	1	<0.5	<0.5	0.6	0.60000	0.9	<0.5	<.5
Fluoride - F	0.1	0.10000	0.1	0.1	0.11000	0.08	0.08000	0.08000	0.08	0.07	0.09000	0.07	0.08000	0.07	0.06	0.10000
Sulphate - SO4	50.7	56.10000	38.8	64.5	79.8	34.8	39.40000	41.70000	21	47.2	61.90000	36.6	42.20000	30.6	54.9	55.30000
Nutrients																
Ammonia Nitrogen - N	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate Nitrogen - N	0.16	0.20900	0.266	0.263	0.39000	0.176	0.29100	0.22900	0.356	0.273	0.37400	0.16	0.21100	0.24	0.227	0.45900
Nitrite Nitrogen - N	0.002	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.001	<0.001	<0.001	<0.001	0.007	0.003	<0.001
ortho-Phosphate - P	0.002	0.00300	0.002	0.002	<0.001	0.002	0.00200	0.00200	0.002	0.001	<0.001	0.001	0.00200	0.004	0.001	0.00100
Total Dissolved Phosphate - P	0.004	0.00600	0.005	0.003	0.00200	0.004	0.00500	0.00400	0.002	0.005	0.00200	0.004	0.00500	0.005	0.003	0.00300
Total Phosphorus - P	0.004	0.00600	0.007	0.003	0.00300	0.006	0.00500	0.00600	0.003	0.005	0.00300	0.005	0.00600	0.008	0.003	0.00400
Cyanides																
Total Cyanide CN	0.008	0.01000	0.01	0.006	0.00400	0.007	0.01000	0.01000	0.013	0.006	0.00300	0.008	0.00700	0.008	0.004	0.00600
Total Metals																
Aluminum T-Al	0.045	0.06600	0.094	0.037	0.02600	0.085	0.07300	0.07500	0.13	0.056	0.04900	0.083	0.08900	0.11	0.052	0.08600
Antimony T-Sb	0.000	0.00020	0.0003	0.0003	0.00010	0.0002	0.00020	0.00030	0.0002	0.0003	0.00020	0.0003	0.00030	0.0003	0.0004	0.00010
Arsenic T-As	0.000	0.00040	0.0005	0.0004	0.00030	0.0003	0.00050	0.00050	0.0005	0.0005	0.00040	0.0003	0.00050	0.0007	0.0006	0.00030
Barium T-Ba	0.047	0.05800	0.049	0.062	0.06500	0.047	0.05600	0.05000	0.053	0.059	0.05400	0.041	0.05000	0.043	0.056	0.07100
Beryllium T-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth T-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron T-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium T-Cd	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002
Calcium T-Ca	24.3	26.60000	24.1	36.4	39.4	20.2	22.20000	22.20000	18.5	29.3	31.30000	20	21.90000	20.7	29.9	31.30000
Chromium T-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt T-Co	<0.001	0.00400	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper T-Cu	0.005	0.00300	0.002	0.005	0.00200	0.003	0.00400	0.00500	<0.001	0.003	0.00300	0.004	0.00400	0.003	0.004	0.00200
Iron T-Fe	0.077	0.04600	0.092	0.039	<0.030	0.075	0.06300	0.07300	0.114	0.083	<0.03	0.067	0.07200	0.124	0.072	0.03300
Lead T-Pb	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium T-Mg	9.59	11.50000	9.87	13.4	15.3	7.84	9.55000	9.53000	7.42	10.7	11.40000	7.52	9.26000	7.86	10.7	12.60000
Manganese T-Mn	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.006	<0.005	<0.005	<0.005	0.007	0.006	0.01000
Mercury T-Hg	<0.0000	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Molybdenum T-Mo	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel T-Ni	0.002	0.00200	0.001	<0.001	<0.001	0.001	0.00100	0.00200	0.001	<0.001	<0.001	0.001	0.00100	0.001	<0.001	<0.001
Selenium T-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon T-Si	3.78	4.62000	4.8	4.72	4.62000	3.99	5.05000	5.47000	4.51	5.29	5.10000	4.16	5.45000	5.56	5.53	4.56000
Silver T-Ag	0.000	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium T-Sr	0.147	0.18400	0.15	0.208	0.23000	0.14	0.17900	0.17000	0.143	0.199	0.19800	0.134	0.16400	0.131	0.188	0.24000
Uranium T-U	0.003	0.00460	0.0037	0.0059	0.00650	0.0037	0.00490	0.00580	0.0023	0.007	0.00910	0.0029	0.00550	0.0042	0.0076	0.00570
Vanadium T-V	<0.030	<0.030	<0.030	<0.030	<0.03	<0.030	<0.030	<0.030	<0.030	<0.030	<0.03	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc T-Zn	0.023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tests	Site W1					Site W2						Site W3				
	June	July	August	September	October	June	July (1)	July (2)	August	September	October	June	July	August	September	October
Dissolved Metals																
Aluminum D-Al	0.045	0.03500	0.012	0.023	0.02100	0.06	0.06000	0.04600	0.022	0.029	0.01900	0.049	0.03300	0.015	0.022	0.06900
Antimony D-Sb	0.000	0.00020	0.0002	<0.0001	0.00010	0.0002	0.00020	0.00030	0.0002	0.0002	0.00020	0.0002	0.00030	0.0003	0.0002	0.00010
Arsenic D-As	0.000	0.00030	0.0005	0.0004	0.00030	0.0003	0.00040	0.00040	0.0004	0.0005	0.00040	0.0003	0.00040	0.0006	0.0006	0.00030
Barium D-Ba	0.047	0.05800	0.049	0.062	0.06500	0.047	0.05600	0.05000	0.053	0.057	0.05400	0.041	0.04800	0.043	0.056	0.06800
Beryllium D-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth D-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron D-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium D-Cd	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Calcium D-Ca	24	26.60000	24	36.4	38.90000	19.8	22.20000	22.20000	18.5	29.3	31.30000	19.7	21.80000	20.6	29.3	31.30000
Chromium D-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt D-Co	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper D-Cu	0.003	0.00300	0.002	0.003	0.00200	0.003	0.00300	0.00300	<0.001	0.003	0.00300	0.004	0.00400	0.002	0.003	0.00200
Iron D-Fe	0.036	<0.030	0.045	<0.030	<0.030	0.044	0.03900	0.03800	0.07	0.034	<0.030	0.035	0.03000	0.06	<0.030	<0.030
Lead D-Pb	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium D-Mg	9.53	11.50000	9.87	13.4	15.10000	7.71	9.55000	9.53000	7.35	10.7	11.40000	7.44	9.26000	7.86	10.4	12.40000
Manganese D-Mn	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Molybdenum D-Mo	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel D-Ni	<0.001	0.00200	0.001	<0.001	<0.001	<0.001	0.00100	0.00100	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Potassium D-K	1.59	1.62000	1.41	2.03	1.91000	1.33	1.36000	1.32000	1.12	1.7	1.54000	1.29	1.26000	1.05	1.71	1.57000
Selenium D-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon D-Si	3.73	4.59000	4.8	4.72	4.54000	3.93	4.75000	5.13000	4.51	5.23	5.10000	4.08	5.38000	5.52	5.48	4.41000
Silver D-Ag	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sodium D-Na	2.89	3.43000	2.9	4.68	4.01000	2.89	3.43000	3.34000	2.65	4.32	3.82000	2.63	3.08000	2.57	4.23	4.13000
Strontium D-Sr	0.146	0.18400	0.15	0.208	0.22600	0.139	0.17900	0.17000	0.143	0.199	0.19800	0.132	0.16300	0.131	0.187	0.23800
Uranium D-U	0.002	0.00440	0.0037	0.0058	0.00620	0.0037	0.00420	0.00470	0.0023	0.0066	0.00910	0.0028	0.00550	0.0042	0.0076	0.00540
Vanadium D-V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc D-Zn	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Tests	Site W4					Site W5					Site W6A			
	June	July	August	September	October	June	July	August	September	October	July	August	September	October
Physical Tests														
Conductivity umhos/cm	222	238.00000	215	259	242.00000	152	189.00000	165	200	186.00000	148.00000	152	168	208.00000
Total Dissolved Solids	137	145.00000	148	168	184.00000	89	115.00000	108	125	129.00000	82.00000	99	105	143.00000
Hardness CaCO3	105	109.00000	108	122	124.00000	70.8	84.30000	78.4	91.9	94.90000	64.70000	76.2	80.6	103.00000
pH	7.41	7.73000	7.7	7.55	7.76000	7.41	7.63000	7.56	7.54	7.68000	7.80000	7.9	7.71	7.21000
Total Suspended Solids	<1	3.00000	11	<1	6.00000	6	2.00000	5	2	3.00000	18.00000	6	3	1.00000
Turbidity NTU	0.49	1.58000	6.72	1.04	2.33000	1.26	1.25000	2.9	1.35	1.50000	10.40000	5.8	3.41	0.95000
Dissolved Anions														
Alkalinity - Total CaCO3	69.6	79.00000	71.2	81	82.90000	56.9	75.00000	64.8	74	74.90000	62.00000	66.7	67.7	73.80000
Chloride - Cl	<0.5	<0.5	0.8	<0.5	<0.5	0.5	5.10000	0.8	<0.5	<0.5	<0.5	0.7	<0.5	<.5
Fluoride - F	0.06	0.07000	0.06	0.06	0.08000	0.05	0.06000	0.06	0.06	0.07000	0.09000	0.1	0.1	0.10000
Sulphate - SO4	41.6	41.60000	36.1	40.7	53.40000	17.8	21.60000	18.7	21.3	22.90000	12.70000	12.5	15.1	34.40000
Nutrients														
Ammonia Nitrogen - N	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	0.01100	<0.005	<0.005	<0.005
Nitrate Nitrogen - N	0.123	0.13900	0.178	0.201	0.24600	0.097	0.10500	0.143	0.159	0.24000	0.01100	0.009	<0.005	0.20700
Nitrite Nitrogen - N	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	0.005	0.001	<0.001
ortho-Phosphate - P	<0.001	0.00300	0.01	0.001	0.00200	0.002	0.00400	0.004	0.001	0.00200	0.00100	0.009	0.002	0.00300
Total Dissolved Phosphate - P	0.004	0.00400	0.01	0.003	0.00500	0.006	0.00400	0.005	0.003	0.00300	0.00400	0.009	0.004	0.00300
Total Phosphorus - P	0.004	0.00800	0.016	0.003	0.00700	0.006	0.00700	0.009	0.004	0.00600	0.03300	0.011	0.007	0.00500
Cyanides														
Total Cyanide CN	0.005	0.00500	0.002	0.003	0.00100	0.006	0.00500	0.005	0.004	0.00200	0.00200	<0.001	<0.001	0.00300
Total Metals														
Aluminum T-Al	0.115	0.10400	0.156	0.106	0.22500	0.138	0.06300	0.127	0.055	0.08000	0.32000	0.119	0.051	0.04800
Antimony T-Sb	0.0002	0.00010	0.0002	0.0002	<0.0001	0.0001	<0.0001	0.0001	<0.0001	<0.0001	0.00010	0.0001	0.0002	<0.0001
Arsenic T-As	0.0002	0.00040	0.0005	0.0004	0.00030	0.0002	0.00030	0.0003	0.0004	0.00020	0.00060	0.0005	0.0005	0.00030
Barium T-Ba	0.059	0.06400	0.063	0.068	0.06500	0.047	0.05800	0.051	0.057	0.05700	0.04600	0.043	0.043	0.06500
Beryllium T-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth T-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron T-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium T-Cd	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Calcium T-Ca	27.8	27.90000	28.9	33.3	33.50000	18.4	21.10000	21	24.6	24.90000	17.30000	21.8	22.9	29.80000
Chromium T-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt T-Co	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper T-Cu	0.011	0.01000	0.017	0.014	0.01900	0.003	0.00400	0.004	0.005	0.00600	0.00300	0.001	0.001	0.00200
Iron T-Fe	0.112	0.22000	0.318	0.222	0.29700	0.155	0.11700	0.194	0.127	0.09300	0.55100	0.113	0.103	<0.03
Lead T-Pb	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium T-Mg	8.65	9.66000	8.68	9.51	9.92000	6.16	7.82000	6.83	7.58	7.95000	5.19000	5.75	5.68	10.10000
Manganese T-Mn	0.005	0.01400	0.027	0.027	0.02500	0.013	0.01600	0.02	0.024	0.02500	0.01900	0.01	0.009	<0.005
Mercury T-Hg	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Molybdenum T-Mo	<0.001	0.00100	<0.001	0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00100	<0.001	0.001	0.001
Nickel T-Ni	<0.001	0.00200	<0.001	<0.001	<0.001	<0.001	0.00100	<0.001	<0.001	<0.001	0.00200	0.001	<0.001	<0.001
Selenium T-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon T-Si	5.02	5.57000	6.02	5.66	5.42000	4.45	5.03000	5.29	5.1	4.94000	3.38000	2.98	2.63	3.58000
Silver T-Ag	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium T-Sr	0.175	0.19800	0.181	0.201	0.20300	0.14	0.18400	0.159	0.181	0.18100	0.09600	0.107	0.113	0.14800
Uranium T-U	0.0031	0.00440	0.0036	0.0049	0.00480	0.0025	0.00370	0.0029	0.0039	0.00400	0.00066	0.0007	0.00071	0.00110
Vanadium T-V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc T-Zn	<0.005	<0.005	<0.005	0.009	0.00600	<0.005	<0.005	<0.005	<0.005	0.00600	0.01100	<0.005	<0.005	<0.005

Tests	Site W4					Site W5					Site W6A			
	June	July	August	September	October	June	July	August	September	October	July	August	September	October
Dissolved Metals														
Aluminum D-Al	0.05	0.03300	0.01	0.02	0.03700	0.034	0.01900	0.007	0.017	0.01800	0.00900	<0.005	0.011	0.02200
Antimony D-Sb	0.0001	0.00010	0.0002	<0.0001	<0.0001	0.0001	<0.0001	0.0001	<0.0001	<0.0001	0.00010	0.0001	<0.0001	<0.0001
Arsenic D-As	0.0002	0.00030	0.0003	0.0004	0.00030	0.0002	0.00030	0.0003	0.0003	0.00020	0.00050	0.0005	0.0005	0.00030
Barium D-Ba	0.059	0.06200	0.056	0.068	0.06500	0.047	0.05800	0.051	0.057	0.05700	0.03800	0.039	0.037	0.05400
Beryllium D-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth D-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron D-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium D-Cd	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Calcium D-Ca	27.7	27.70000	28.8	33.3	33.50000	18.2	21.00000	20.3	24.4	24.90000	17.30000	21.3	22.9	27.20000
Chromium D-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt D-Co	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper D-Cu	0.01	0.00900	0.009	0.008	0.01000	0.003	0.00300	0.002	0.004	0.00400	<0.001	<0.001	<0.001	0.00200
Iron D-Fe	0.054	0.09900	0.039	0.041	<0.030	0.065	0.04800	0.052	0.048	<0.030	<0.030	<0.030	<0.030	<0.030
Lead D-Pb	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium D-Mg	8.61	9.58000	8.68	9.44	9.92000	6.14	7.77000	6.76	7.52	7.95000	5.19000	5.6	5.68	8.48000
Manganese D-Mn	0.005	0.01400	0.02	0.024	0.02500	0.007	0.01400	0.013	0.02	0.02100	<0.005	<0.005	<0.005	<0.005
Molybdenum D-Mo	<0.001	0.00100	<0.001	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	0.00100	<0.001	0.001	<0.001
Nickel D-Ni	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Potassium D-K	1.09	0.89000	0.88	1.26	1.06000	0.76	0.74000	0.68	1.1	0.79000	0.61000	0.68	0.83	1.12000
Selenium D-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon D-Si	4.94	5.46000	5.92	5.56	5.34000	4.43	4.97000	5.29	5.09	4.94000	2.82000	2.79	2.55	3.12000
Silver D-Ag	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sodium D-Na	3.78	3.84000	3.69	5.92	4.46000	3.05	3.61000	3.24	4.38	3.99000	1.59000	1.69	2	2.72000
Strontium D-Sr	0.175	0.19800	0.181	0.2	0.20300	0.139	0.18400	0.159	0.178	0.18100	0.09600	0.107	0.113	0.13600
Uranium D-U	0.0022	0.00420	0.0034	0.0048	0.00480	0.0025	0.00360	0.0028	0.0037	0.00400	0.00063	0.0006	0.00071	0.00093
Vanadium D-V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc D-Zn	<0.005	<0.005	<0.005	0.009	0.00600	<0.005	<0.005	<0.005	<0.005	0.00600	<0.005	<0.005	<0.005	<0.005

Tests	Site W6B				Site W7					
	July	August	September	October	June	July	August	September	October (1)	October (2)
Physical Tests										
Conductivity umhos/cm	150.00000	164	188	169	77.4	90.60000	103	106	95.60000	95.3
Total Dissolved Solids	85.00000	107	120	114	46	54.00000	65	69	67.00000	67
Hardness CaCO3	67.70000	79.5	87.5	88	26.6	29.70000	37.3	35.8	35.70000	35.6
pH	7.81000	7.8	7.67	7.92000	7.1	7.46000	7.3	7.39	7.03000	7.00000
Total Suspended Solids	10.00000	7	4	3.00000	6	<1	7	3	8.00000	6.00000
Turbidity NTU	8.64000	5.55	4.4	1.75000	1.2	0.90000	5.19	0.9	1.03000	1.00000
Dissolved Anions										
Alkalinity - Total CaCO3	64.60000	66.7	69	69.9	7.3	12.90000	9.2	14.6	11.40000	12.9
Chloride - Cl	<0.5	0.8	3.9	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5
Fluoride - F	0.10000	0.1	0.08	0.11000	0.05	0.06000	0.06	0.06	0.07000	0.07000
Sulphate - SO4	13.30000	17.5	20.4	18.1	24.2	27.20000	30.8	29.9	31.00000	30.7
Nutrients										
Ammonia Nitrogen - N	0.01000	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.037	<0.005	<0.005
Nitrate Nitrogen - N	0.00500	0.051	0.034	0.03900	0.015	0.02600	<0.005	0.017	0.01200	0.02200
Nitrite Nitrogen - N	<0.001	0.002	<0.001	0.00100	<0.001	<0.001	0.003	0.002	<0.001	<0.001
ortho-Phosphate - P	<0.001	0.01	0.002	0.00300	0.004	0.00300	0.011	0.002	0.00300	0.00300
Total Dissolved Phosphate - P	<0.001	0.012	0.003	0.00500	0.01	0.00500	0.011	0.003	0.00400	0.00400
Total Phosphorus - P	0.02400	0.015	0.009	0.00800	0.01	0.00700	0.017	0.003	0.01100	0.00900
Cyanides										
Total Cyanide CN	<0.001	<0.001	<0.001	<0.001	0.002	0.00200	0.002	<0.001	<0.01	<0.01
Total Metals										
Aluminum T-Al	0.15000	0.153	0.085	0.01300	0.204	0.08400	0.296	0.127	0.08800	0.08700
Antimony T-Sb	0.00010	0.0002	0.0002	<0.0001	<0.0001	<0.0001	0.0001	0.0001	<0.0001	<0.0001
Arsenic T-As	0.00050	0.0005	0.0005	0.00030	0.0002	0.00020	0.0005	0.0004	0.00030	0.00030
Barium T-Ba	0.04600	0.043	0.048	0.04300	0.035	0.04200	0.045	0.043	0.04300	0.04300
Beryllium T-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth T-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron T-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium T-Cd	<0.0002	0.0002	<0.0002	<0.0002	0.0003	<0.0002	0.0002	0.0002	<0.0002	<0.0002
Calcium T-Ca	18.20000	21.8	24.9	24.7	7.89	8.51000	11.2	10.8	10.70000	10.7
Chromium T-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt T-Co	<0.001	<0.001	<0.001	0.01500	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper T-Cu	0.00200	<0.001	0.002	0.00100	0.003	0.00300	0.002	0.003	0.00200	0.00200
Iron T-Fe	0.31100	0.158	0.128	0.07300	0.148	0.06000	0.202	0.094	0.12900	0.13330
Lead T-Pb	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium T-Mg	5.42000	6.31	6.76	6.70000	1.7	2.08000	2.45	2.15	2.22000	2.21000
Manganese T-Mn	0.02400	0.02	0.014	0.00700	0.044	<0.005	0.013	<0.005	0.00900	0.00900
Mercury T-Hg	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-
Molybdenum T-Mo	0.00100	<0.001	0.001	0.00200	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel T-Ni	0.00200	0.001	<0.001	0.00400	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Selenium T-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon T-Si	3.12000	3.29	2.94	2.75000	7.19	8.82000	9.36	9.72	9.30000	9.21000
Silver T-Ag	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium T-Sr	0.10400	0.112	0.124	0.11700	0.056	0.07100	0.078	0.076	0.07300	0.07300
Uranium T-U	0.00079	0.0011	0.0012	0.00081	9E-05	0.00005	0.0001	0.00008	0.00005	
Vanadium T-V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc T-Zn	<0.005	<0.005	0.006	<0.005	0.008	0.00700	0.013	0.011	0.01100	0.01300

Tests	Site W6B				Site W7					
	July	August	September	October	June	July	August	September	October (1)	October (2)
Dissolved Metals										
Aluminum D-Al	0.01700	0.005	0.012	0.01100	0.045	0.03100	0.013	0.038	0.02900	0.02400
Antimony D-Sb	0.00010	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001
Arsenic D-As	0.00040	0.0005	0.0005	0.00030	0.0001	0.00020	0.0003	0.0003	0.00020	0.00010
Barium D-Ba	0.03800	0.041	0.043	0.04300	0.035	0.04200	0.042	0.043	0.04100	0.03800
Beryllium D-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth D-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron D-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium D-Cd	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0002	0.0002	<0.0002	<0.0002	<0.0002
Calcium D-Ca	18.20000	21.4	24.2	24.40000	7.84	8.51000	11	10.8	10.70000	10.70000
Chromium D-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt D-Co	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper D-Cu	0.00200	<0.001	0.002	0.00010	0.003	0.00200	0.001	0.002	0.00200	0.00200
Iron D-Fe	<0.030	<0.030	<0.030	<0.030	0.046	<0.030	0.043	0.037	<0.030	<0.030
Lead D-Pb	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium D-Mg	5.42000	6.31	6.57	6.57000	1.7	2.06000	2.38	2.15	2.20000	2.17000
Manganese D-Mn	0.01000	0.02	0.008	<0.005	0.04	<0.005	0.01	<0.005	0.00500	0.00600
Molybdenum D-Mo	0.00100	<0.001	0.001	0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel D-Ni	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Potassium D-K	0.66000	0.8	1.05	0.80000	0.58	0.39000	0.43	0.56	0.45000	0.43000
Selenium D-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon D-Si	2.93000	3.21	2.78	2.64000	7.12	8.82000	9.13	9.72	9.18000	9.17000
Silver D-Ag	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sodium D-Na	1.69000	1.89	2.38	2.21000	2.74	3.40000	3.54	4.93	4.09000	4.14000
Strontium D-Sr	0.10400	0.112	0.121	0.11600	0.054	0.07100	0.078	0.076	0.07300	0.07300
Uranium D-U	0.00075	0.0011	0.0012	0.00081	9E-05	<0.00005	6E-05	<0.00001	0.00002	0.00002
Vanadium D-V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc D-Zn	<0.005	<0.005	0.006	<0.005	0.007	0.00700	0.012	0.009	0.01000	0.01200

Tests	Site W8							Site W9					Travel
	June	July	August (1)	August (2)	September (1)	September (2)	October	June	July	August	September	October	September
Physical Tests													
Conductivity umhos/cm	451	468.00000	368	369	524	537	490	148	187.00000	167	199	186	-
Total Dissolved Solids	329	321.00000	285	289	394	388	390	88	107.00000	108	122	130	-
Hardness CaCO3	176	168.00000	146	146	200	199	207	68.9	78.80000	78.7	91	94.8	-
pH	4.06	4.22000	4.52	4.49	3.97	3.86	4.26000	6.8	7.45000	7.5	7.36	7.41000	-
Total Suspended Solids	13	25.00000	36	37	28	29	46	8	5.00000	9	<1	2.00000	-
Turbidity NTU	21.1	29.00000	30.5	32.2	25.7	27	22.5	3.06	2.50000	2.7	1.4	0.70000	-
Dissolved Anions													
Alkalinity - Total CaCO3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	62.6	83.70000	72.8	80.7	84.8	-
Chloride - Cl	0.7	0.70000	0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	0.7	0.6	<0.5	-
Fluoride - F	0.2	0.18000	0.17	0.17	0.19	0.21	0.23000	0.05	0.05000	0.05	0.04	0.06000	-
Sulphate - SO4	219	213.00000	170	173	236	231	228.00000	12.7	14.80000	12.7	14.6	17.7	-
Nutrients													
Ammonia Nitrogen - N	0.013	0.04100	0.024	0.024	0.009	0.015	0.02000	<0.005	<0.005	0.007	0.011	<0.005	-
Nitrate Nitrogen - N	0.106	0.09200	0.165	0.169	0.104	0.107	0.09500	0.144	0.13200	0.155	0.156	0.24700	-
Nitrite Nitrogen - N	<0.001	<0.001	0.003	0.005	<0.001	0.001	0.00600	<0.001	<0.001	0.007	<0.001	<0.001	-
ortho-Phosphate - P	0.003	0.00400	0.007	0.004	0.002	0.001	0.00100	0.004	0.00300	0.006	0.001	0.00300	-
Total Dissolved Phosphate - P	0.003	0.00400	0.009	0.005	0.004	0.004	0.00300	0.009	0.00600	0.006	0.004	0.00700	-
Total Phosphorus - P	0.012	0.01600	0.014	0.007	0.007	0.007	0.00400	0.017	0.01200	0.012	0.005	0.00700	-
Cyanides													
Total Cyanide CN	0.001	0.00200	0.001	0.001	0.001	0.002	0.00100	0.006	0.00200	0.004	0.004	0.00300	-
Total Metals													
Aluminum T-Al	3.9	3.93000	2.77	2.85	3.57	3.56	3.77000	0.376	0.17200	0.147	0.051	0.03300	<0.005
Antimony T-Sb	0.0001	<0.0001	0.0002	0.0002	0.0002	<0.0001	0.00010	0.0002	0.00010	0.0001	<0.0001	<0.0001	<0.0001
Arsenic T-As	0.0002	0.00050	0.0007	0.0007	0.0004	0.0004	0.00030	0.0002	0.00040	0.0004	0.0004	0.00030	<0.0001
Barium T-Ba	0.035	0.04200	0.083	0.083	0.036	0.037	0.04300	0.047	0.05600	0.049	0.057	0.06000	<0.010
Beryllium T-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth T-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron T-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium T-Cd	0.0016	0.00110	0.001	0.0022	0.0012	0.0012	0.00430	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Calcium T-Ca	53.5	49.30000	44.4	44.7	61.8	61.3	63.60000	18.5	20.20000	21	24.6	25.90000	<0.050
Chromium T-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt T-Co	<0.001	0.01800	0.018	0.018	0.028	0.028	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper T-Cu	0.489	0.50200	0.426	0.431	0.535	0.534	0.59400	0.002	0.00300	<0.001	0.001	0.00200	<0.001
Iron T-Fe	5.8	7.84000	4.99	5.04	8.44	8.4	9.09000	0.38	0.28500	0.214	0.121	0.04700	<0.030
Lead T-Pb	<0.001	0.00100	0.002	0.003	0.002	0.001	0.00200	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium T-Mg	10.5	11.00000	8.63	8.72	11.1	11.1	11.80000	5.57	6.91000	6.46	7.15	7.98000	0.018
Manganese T-Mn	0.458	0.47100	0.356	0.361	0.475	0.471	0.48400	0.02	0.02400	0.027	0.026	0.02500	<0.005
Mercury T-Hg	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Molybdenum T-Mo	<0.001	<0.001	0.002	0.001	<0.001	<0.001	0.00100	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001
Nickel T-Ni	0.006	0.00600	0.004	0.004	0.006	0.005	0.00400	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001
Selenium T-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon T-Si	10.1	10.20000	11	11.1	10.6	10.5	10.20000	4.78	5.19000	5.24	5.28	5.18000	<0.050
Silver T-Ag	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Strontium T-Sr	0.209	0.21100	0.189	0.192	0.235	0.235	0.25000	0.147	0.19300	0.17	0.196	0.20700	<0.001
Uranium T-U	0.0025	0.00340	0.0027	0.0027	0.003	0.003	0.00290	0.0034	0.00550	0.0043	0.0056	0.00530	0.00003
Vanadium T-V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc T-Zn	0.102	0.10900	0.087	0.086	0.148	0.146	0.11800	0.033	0.00700	0.005	<0.005	<0.005	<0.005

Tests	Site W8							Site W9					Travel
	June	July	August (1)	August (2)	September (1)	September (2)	October	June	July	August	September	October	September
Dissolved Metals													
Aluminum D-Al	3.4	3.67000	2.74	2.82	3.11	3.1	3.77000	0.279	0.01400	0.005	0.015	0.02700	<0.005
Antimony D-Sb	<0.0001	<0.0001	0.0002	0.0002	<0.0001	<0.0001	0.00010	0.0001	0.00010	0.0001	<0.0001	<0.0001	<0.0001
Arsenic D-As	<0.0001	<0.0001	0.0002	0.0001	0.0002	0.0001	0.00020	0.0002	0.00030	0.0003	0.0004	0.00030	<0.0001
Barium D-Ba	0.035	0.03800	0.054	0.061	0.036	0.037	0.03500	0.047	0.05600	0.048	0.057	0.05700	<0.010
Beryllium D-Be	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Bismuth D-Bi	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Boron D-B	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium D-Cd	0.0011	0.00110	0.001	0.001	0.0012	0.0012	0.00130	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Calcium D-Ca	53.2	49.30000	44.3	44.3	61.8	61.3	63.60000	18.4	20.20000	21	24.6	25.20000	<0.050
Chromium D-Cr	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt D-Co	<0.001	0.01800	0.013	0.014	0.024	0.023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper D-Cu	0.485	0.49800	0.426	0.428	0.512	0.504	0.59400	0.001	0.00100	<0.001	0.001	0.00200	<0.001
Iron D-Fe	3.69	5.52000	3.27	3.38	6.07	5.98	6.70000	0.127	0.05000	0.071	0.059	<0.03	<0.030
Lead D-Pb	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00200	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium D-Mg	10.5	11.00000	8.61	8.69	11.1	11.1	11.80000	5.55	6.91000	6.37	7.15	7.75000	0.01
Manganese D-Mn	0.458	0.47000	0.355	0.361	0.475	0.471	0.48400	0.017	0.01900	0.017	0.022	0.01900	<0.005
Molybdenum D-Mo	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00100	<0.001	<0.001	<0.001	<0.001
Nickel D-Ni	0.004	0.00600	0.004	0.004	0.005	0.005	0.00400	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Potassium D-K	1.4	1.25000	1.22	1.21	1.78	1.75	1.56000	0.73	0.69000	0.64	0.92	0.78000	<0.01
Selenium D-Se	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Silicon D-Si	10	10.10000	10.9	11.1	10.6	10.4	9.93000	4.78	5.19000	5.23	5.28	5.00000	<0.050
Silver D-Ag	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sodium D-Na	5.47	5.49000	5.77	5.8	6.7	6.64	7.87000	3.33	4.01000	3.66	4.83	4.42000	0.02
Strontium D-Sr	0.209	0.21100	0.187	0.191	0.235	0.235	0.24700	0.146	0.19300	0.168	0.195	0.20300	<0.001
Uranium D-U	0.0024	0.00310	0.0026	0.0024	0.0028	0.0026	0.00140	0.0027	0.00550	0.0043	0.0052	0.0052	0.00002
Vanadium D-V	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Zinc D-Zn	0.102	0.10800	0.087	0.086	0.148	0.146	0.11700	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

PACIFIC SENTINEL GOLD CORPORATION
CASINO PROJECT
TABLE 6
FEDERAL AND PROVINCIAL WATER QUALITY GUIDELINES

PARAMETER	EFFLUENT		DRINKING WATER		AQUATIC LIFE	
	FEDERAL MMLER	PROV. Pollution Control	FEDERAL CCME	PROV. 1991	FEDERAL CCME	PROV. 1991
pH	6.0	6.5-8.5	6.5-8.5	6.5-8.5	6.5-9.0	6.5-9.0
Nitrate + Nitrite		10.0	10.0	10.0		40
Ammonia (NH_3)		1.0			1.37	1.86**
Total Phosphorous		2.0		0.01		
Total Suspended Solids	25*	25	10[1]			
Total Dissolved Solids		2500	500			
Hardness ($CaCO_3$)				80-100		
Sulphate (SO_4)			500	500		100
Chloride (Cl)			250	250		
Fluoride (F)		2.5	1.5	1.0		0.2
Cyanide (CN)		0.1	0.2	0.2	0.005	0.005
Metals						
Total Aluminum (Al)		0.5			0.1	
Diss. Aluminum (Al)				0.2		0.05
Total Antimony (Sb)		0.25		0.05		0.05
Total Arsenic (As)	0.5		0.05	0.05	0.05	0.05
Diss. Arsenic (As)		0.10				
Total Barium (Ba)			5.0	5.0		5.0
Total Beryllium(Be)						0.011
Total Cadmium (Cd)		0.01	0.005	0.005	0.0002	0.0002
Total Chromium (Cr)		0.05	0.05	0.05	0.002	0.002
Total Cobalt (Co)		0.5				0.05
Total Copper (Cu)	0.3	0.05	1.0	0.5	0.002	0.002
Total Iron (Fe)		0.3	0.3	0.3	0.3	0.3
Total Lead (Pb)	0.2	0.05	0.05	0.05	0.001	0.003
Diss. Magnesium (Mg)				100		
Total Manganese (Mn)		0.1	0.05	0.05		0.1
Total Mercury (Hg)		Nil	0.001	0.001	0.0001	0.00002
Total Molybdenum (Mo)		0.5		0.25		1
Total Nickel (Ni)	0.5	0.2		0.2	0.025	0.025
Radium 226 (pCi/L)	10	10	1Bq/L			
Total Selenium (Se)		0.05	0.01	0.01	0.001	0.001
Total Silver (Ag)		0.05	0.05		0.0001	0.0001
Diss. Sodium (Na)				20		
Total Uranium (U)			0.02	0.1		0.3
Total Vanadium (V)				0.1		
Total Zinc (Zn)	0.5	0.2	5	5	0.03	0.03

Criteria recorded in mg/L except when stated otherwise.

*Not applicable to approved direct discharge of tailings solids.

**Criteria level for 10°C and pH 7.7.

[1]10 mg/L above background for background $\leq$100 mg/L, increase of 10% over background > 100mg/L.

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Table 7
Stream Sediment Analysis[+]

ANALYSIS	SAMPLING STATION							
	W1	W3	W4	W5	W9	W8 (Casino Creek d/stream of Proctor Gulch)	S8a (Casino Creek u/stream of Proctor Gulch)	S8b (Proctor Gulch)
Physical Tests:								
Loss On Ignition %	0.56	0.55	0.87	0.93	2.17	3.28	2.90	14.50
Moisture %	19.38	16.10	21.50	21.85	18.40	28.30	29.70	42.10
Total Metals:*								
Arsenic	16.12	20.85	11.50	9.26	8.99	40.90	20.00	48.60
Copper	33.72	43.15	35.90	12.98	10.05	655.00	1670.00	396.00
Lead	7.88	10.27	23.10	13.27	10.18	59.00	17.00	50.80
Mercury	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.05
Molybdenum	5.30	8.67	< 4.0	< 4.0	< 4.0	21.10	37.70	< 12.0
Silver	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 6.0
Tin	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 90
Zinc	57.13	56.35	81.50	70.50	60.82	184.00	77.20	77.50

[+] Values expressed are means
* Results are expressed as milligram per dry kilogram

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Table 8a
Vegetation Study - Species Composition

Site #1: Lower Britannia Creek near Yukon River

Gradient: < 1%	Altitude: 396 m (1300 ft)
Observations:	Area shows evidence of a burn Extensive leaf litter covers forest floor
Species present:	Prickly rose (*Rosa acicularis*) Fireweed (*Epilobium angustifolium*) Sweet scented bedstraw (*Galium triflorum*) Meadow horsetail (*Equisetum pratense*) Tall larkspur (*Delphinium glaucum*) Balsam poplar (*Populus balsamifera* ssp. *balsamifera*) Paper birch (*Betula paperifera*) Trembling aspen (*Populus tremuloides*) Tall Lungwort (*Mertensia paniculata*) Tufted hairgrass (*Deschampsia caespitosa*) Highbush cranberry (*High-bush cranberry*)
Most Common:	Prickly rose 30% Meadow sweet Horsetail 5% Tall larkspur 5% grasses 3% Fireweed 2% Highbush cranberry 2%
% Cover:	40%

Site #2: Confluence of Britannia Creek and Canadian Creek

Gradient: < 1%

Altitude: 579 m (1900 ft)

Observations: Thick moss cover, transect area contains several swampy areas.

Species Present:
Pink Wintergreen (*Pyrola asarifolia*)
Shrubby Cinquefoil (*Potentilla fruticosa*)
Bog Cranberry (*Vaccinium oxycoccus*)
Alpine milk-vetch (*Astragalus alpinus*)
Meadow horsetail (*Equisetum pratense*)
Golden fuzzy fen moss (*Tomenthypnum nitens*)
Blueberry willow (*Salix myrtillifolia*)
Labrador Tea (*Ledum groenlandicum*)
Black Spruce (*Picea mariana*)
Prickly rose (*Rosa acicularis*)
Lichen-Witches Hair and Wax Paper
Tall Lungwort (*Mertensia paniculata*)
Single Delight (*Moneses uniflora*)
Grasses
Black Mushrooms
Green and Grey Reindeer Lichen
Wild Rhubarb (*Polygonum alaskanum*)
Bog blueberry (*Vaccinium uliginosum*)
Ground cover willow (*Salix* sp.)
Yellow Lichen
Iceland Poppy (*Papaver nudicaule*)
Freckled Lichen (*Peltigera aphthosa*)
Witches Butter
Mountain Wormwood (*Artemesia tilesii*)
Blackening Russula-black mushroom associated with mixed subboreal forests

Most Common:
Moss, almost 100% ground coverage
Bog Cranberry 20%
Labrador Tea 20%
Pink Wintergreen (*Pyrola asarifolia*) 5%
Scrubby Cinquefoil 2%
Wild Rhubarb < 1%
Single Delight (patchy distribution) < 1%
Mertensia (rough leaved species) 1%
Black Spruce 10%
Willow 1%
Poplar < 1%
Horsetail 2%

% Cover: 30

Site #3: Upper Britannia Creek, south aspect slope above road

Gradient: 53% (28°) Altitude: 762 m (2500 ft)

Observations: Slope is extremely steep and shows signs of erosion.

Species Present:
Common Yarrow (*Achillea millefolium*)
Northern Bedstraw (*Galium boreale*)
Northern Geranium (*Geranium erianthum*)
Common Juniper (*Juniperus communis*)
Goldenrod (*Solidago multilineatus*)
Fireweed (*Epilobium angustifolium*)
Prickly rose (*Rosa acicularis*)
Willow (*Salix* sp.)
White Spruce (*Picea glauca*)
Paper Birch (*Betula papyrifera*)
Balsam Poplar (*Populus balsamifera* ssp. *balsamifera*)
Soopolallie (*Shepherdia canadensis*)
Pussytoes sp. (*Antennaria* sp.)
Grasses
Mountain Death-camass (*Zygadenus elegans*)
Hairy Scorpion-Weed (*Phacelia mollis*)
Twinflower (*Linnaea borealis*)
Pink Campion (*Silene repens*)
Pasture Sage (*Artemesia frigida*)
Blue columbine (*Aquilegia brevistyla*)

Most Common:
grasses 25%
common juniper 5%
willow 5%
northern bedstraw 3%
soopolallie 3%
prickly rose 3%
blue columbine 2%
goldenrod 2%
yarrow 1%
fireweed 1%

% Cover: 5

Site #4: Alpine meadow, north facing slope

Gradient: 6° Altitude: 1219 m (4000 ft)

Observations: Large outcropping of talus rocks, in vicinity of tor aggregate. Large holes in ground, wild flowers almost exclusively associated with talus rock aggregates.

Species Present:
Bog cranberry (*Vaccinium oxycoccus*)
Variable willow (*Salix commutata*)
Monkshood (*Aconitum delphinifolium*)
Freckled lichen (*Peltigera aphthosa*)
Gray reindeer lichen (*Cladina rangiferina*)
Green reindeer lichen (*Cladina mitis*)
Sphagnum moss (*Sphagnum fuscum*)
Black spruce (*Picea mariana*)
Labrador tea (*Ledum groenlandicum*)
Northern Labrador Tea (*Ledum palustre*)
Grass with triangular stem (Sedge sp.)
Bistort (*Polygonum bistorta*)
Sweet Coltsfoot (*Petasites frigidus*)
Scrub birch (*Betula glandulosa* var. *glandulosa*)
Chocolate chip lichen (*Solorina crocea*)
Green kidney lichen (*Nophroma arcticum*)
Curled cretaria (*Cetraria cucullata*)
Rocky mountain woodsa (*Woodsia scopulina*)
Golden fuzzy fen moss (*Tomenthypnum nitens*)
Three toothed saxifrage (*Saxifraga tricuspidata*)
Field Chickweed (*Cerastium arvense*)
Black-tipped Groundsel (*Senecio lugens*)
Rock worm lichen (*Thamnolia vermicularis*)

Most common:
Scrub birch 30%
Labrador tea 10%
Northern Labrador Tea 10%
Sphagnum moss and Golden fuzzy fen moss-almost full ground coverage
Black spruce 3%
Monkshood 1%
Reindeer lichen 5% (mixed with mosses)
Sweet coltsfoot 5%

% Cover: < 1

Site #5: Lower Casino Creek, muskeg

Gradient: < 1°

Altitude: 640 m (2100 ft)

Observations: Area consists mostly of moss and sedge tussocks. A majority of the black spruce observed are stunted (Krummholz) and are frequently associated with patches of permafrost.

Species Present:
Scrub birch (*Betula glandulosa* var. *glandulosa*)
Cloudberry (*Rubus chamaemorus*)
Black spruce (*Picea mariana*)
Bog cranberry (*Vaccinium oxycoccus*)
Labrador tea (*Ledum groenlandicum*)
Northern Labrador tea (*Ledum palustre*)
Lichen-Moonshine Cetraria on Scub birch
Scheuzer's cottongrass (*Eriophorum scheuchzeri*)
Green reindeer lichen (*Cladina mitis*)
Bog blueberry (*Vaccinium uliginosum*)
Freckled lichen (*Peltigera aphthosa*)
Trembling aspen (*Populus tremuloides*)

Most common:
Scrub birch 50%
Northern Labrador tea 10%
Bog cranberry 10%
Cloudberry 5%
Cottongrass/moss-almost complete ground cover

% Cover: < 1

Site #6: Lower Casino Creek, creek side

Gradient: 1° Altitude: 640 m (2100 ft)

Observations: One side of site approximately 20 m from creek bank. Evidence of recent flooding along this perimeter, area appears to be slightly transitional, but is representative of vegetation that is present along the length of Casino Creek and Dip Creek.

Species Present:
Meadow horsetail (*Equisetum pratense*)
Labrador tea (*Ledum groenlandicum*)
Prickly rose (*Rosa acicularis*)
Tall Lungwort (*Mertensia paniculata*)
Willow (3 spp.- Little tree willow,)
Bog cranberry (*Vaccinium oxycoccus*)
Reindeer lichen
Freckled lichen (*Peltigera aphthosa*)
Black spruce (*Picea mariana*)
Vaccinium sp. (bog cranberry?)
Sphagnum moss
Tufted wheat grass
Canary grass
Pink Wintergreen (*Pyrola asarifolia*)
Fireweed
Wax paper lichen (on birch)
Twinflower
Common Yarrow (*Achillea millefolium*)
Single delight (*Moneses uniflora*)
Shrubby cinquefoil (*Potentilla fruticosa*)
Scrub birch
Alpine milk-vetch (*Astragalus alpinus*)
Northern black currant (*Ribes hudsonianum*)
Sweet coltsfoot
Mountain wormwood (*Artemesia tilesii*)

Most common:
horsetail 15%
Wild rose 10%
Labrador tea 10%
Tufted wheat grass 15%
Wintergreen 7%
Twinflower 7%
Sphagnum moss 15%

% Cover: 30

Site #7: Upper Casino Creek, south west slope

Gradient: 15° Altitude: 914 m (3000 ft)

Site #7: Upper Casino Creek, south west slope

Gradient: 15°

Altitude: 914 m (3000 ft)

Observations: Transect situated below Casino Creek/Proctor Gulch confluence. Proctor Gulch has a low pH, ranging from 3.2 to 4.5, sediments are orange indicating a high iron (and other metals) content. Most of the Black spruce trees were stunted (may be due to permafrost).

Species present:

Black spruce (*Picea mariana*)
Scrub birch
Sweet coltsfoot
Labrador tea (*Ledum groenlandicum*)
Northern Labrador Tea (*Ledum palustre*)
Tall Lungwort (*Mertensia paniculata*)
Bog blueberry (*Vaccinium uliginosum*)
Sphagnum moss
Rock worm lichen
Tufted wheat grass
Many bladed, short, bending grass
triangular stem with three inflourescenses (Sedge sp.)
Labrador lousewort (*Pedicularis labradorica*)
Mountain heliotrope (*Valeriana capitata*)
Pink mountain-heather (*Phyllodoce empetriformis*)
moonshine lichen
waxpaper lichen
old man's beard
Reindeer lichen
Freckled lichen (*Peltigera aphthosa*)
Pixie cup lichen
Cloudberry

Most common:

Scrub birch 20%
Black spruce 10%
Labrador tea 15%
Northern Labrador Tea 5%
Vaccinium sp. 7%
Sphagnum moss 35%
Mertensia 5%
Bent grass 5%
Pink mountain-heather 5%
Reindeer lichen 5%
Cloudberry 3%

% Cover: 25

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Table 8b
Vegetation Survey: Tree species
(July 1993)

Site #1 – Britannia Creek/Yukon River area

Tree #	Tree Species	Height (m)	Diameter at Breast Height (cm)	Total # Trees	%
1	Paper Birch	7.25	7.64	1	
2–11	Paper Birch	4.86	4.14	10	
12–17	Paper Birch	3.45	2.07	6	
18–20	Paper Birch	4.14	5.09	3	
21	Paper Birch	2.52	1.59	1	
22	Paper Birch	6.17	4.46	1	
				22	20.75
23–52	Balsam Poplar	16.6	19.54	30	
53	Balsam Poplar	18.48	29.92	1	
54	Balsam Poplar	22.57	23.87	1	
55–63	Balsam Poplar	18.23	17.51	9	
64–69	Balsam Poplar	6.43	4.46	6	
70–73	Balsam Poplar	12.12	7.79	4	
74–103	Balsam Poplar	10.8	9.55	30	
				81	76.42
104	White Spruce	4.86	7.64	1	
105	White Spruce	4.69	7	1	
106	White Spruce	4.29	4.46	1	
				3	2.83
				106	

Site #2 – Britannia Creek/Canadian Creek confluence area

Tree #	Tree Species	Height (m)	Diameter at Breast Height (cm)	Total # Trees	%
1	Paper Birch	11.92	27.37	1	
				1	
2–5	Black Spruce	9.2	13.69	4	
6–10	Black Spruce	5.5	7.32	5	
11–22	Black Spruce	4.66	5.41	12	
23–26	Black Spruce	7.29	12.73	4	
27	Black Spruce	11.01	16.55	1	
28–30	Black Spruce	6.16	6.05	3	
31–32	Black Spruce	7.15	10.3	2	
33–35	Black Spruce	6.21	10.03	3	
36	Black Spruce	13.27	23.87	1	
37	Black Spruce	9.63	15.59	1	
38–42	Black Spruce	3.35	5.73	5	
43	Black Spruce	11.2	16.87	1	
44	Black Spruce	7.25	9.23	1	
45	Black Spruce	3.41	9.55	1	
46–48	Black Spruce	1	0.96	3	
49	Black Spruce	3.41	5.09	1	
50	Black Spruce	2.13	4.77	3	
51	Black Spruce	1.62	4.14	1	
52–53	Black Spruce	2.77	4.77	2	
				52	88.14
54	Willow	4.28	6.37	1	
55	Willow	2.1	3.5	1	
56	Willow	0.74	2.86	1	
57	Willow	1.15	2.86	1	
58	Willow	1.62	3.5	1	
59	Willow	2.5	0.64	1	
				6	10.17
				59	

Site #3–South Slope above Britannia Creek

Tree #	Tree Species	Height (m)	Diameter at Breast Height (cm)	Total # Trees	%
1–2	Paper Birch	7	7.64	2	
3–4	Paper Birch	6.21	7.64	2	
5	Paper Birch	4.52	5.09	1	
6	Paper Birch	7	7.64	1	
7	Paper Birch	7	8.91	1	
8	Paper Birch	3	1.59	1	
9	Paper Birch	6.48	1.59	1	
10	Paper Birch	2.42	5.09	1	
11	Paper Birch	7	8.28	1	
				11	27.5
12	White Spruce	2.1	1.91	1	
13	White Spruce	10.26	46.47	1	
14	White Spruce	2.5	1.43	1	
15	White Spruce	4.04	4.14	1	
16	White Spruce	1.87	4.46	1	
17–18	White Spruce	0.97	3.82	2	
19–21	White Spruce	2.2	2.86	3	
				10	25
22	Willow	1.11	2.23	1	
23–29	Willow	5.12	4.14	7	
30	Willow	3.5	2.23	1	
31	Willow	3.84	3.66	1	
32–34	Willow	3.06	7.64	3	
35–36	Willow	2	1.11	2	
37–40	Willow	3	7	4	
				19	47.5
				40	

Site #4–North Slope, subalpine

Tree #	Tree Species	Height (m)	Diameter at Breast Height (cm)	Total # Trees	%
1	Black Spruce	2.9	3.82	1	
2	Black Spruce	0.85	0.32	1	
3	Black Spruce	2.25	6.37	1	
4	Black Spruce	2.7	3.82	1	
5	Black Spruce	2.65	4.14	1	
6	Black Spruce	1.6	2.55	1	
7	Black Spruce	0.65	1.59	1	
				7	43.75
8–9	Scrub Birch	1	2.44	2	
10	Scrub Birch	1.2	2.53	1	
11	Scrub Birch	1.65	3.5	1	
				4	25
12	Variable Willow	0.6	2.07	1	
13	Variable Willow	1.8	2.55	1	
14	Variable Willow	2.1	2.86	1	
15	Variable Willow	1.2	1.27	1	
16	Variable Willow	1.3	1.59	1	
				5	31.25
				16	

Site #5–Casino Creek muskeg

Tree #	Tree Species	Height (m)	Diameter at Breast Height (cm)	Total # Trees	%
1	Black Spruce	2.6	3.5	1	
2	Black Spruce	2.5	5.09	1	
3	Black Spruce	1.77	3.5	1	
4–6	Black Spruce	1.75	5.09	3	
7	Black Spruce	1.49	4.46	1	
8	Black Spruce	2.5	4.77	1	
9	Black Spruce	1.44	1.91	1	
10	Black Spruce	2.9	4.46	1	
11	Black Spruce	4.28	5.73	1	
12	Black Spruce	5.09	10.19	1	
				12	18.75
13–62	Scrub Birch	1.3	1.5	50	
				50	78.13
63–64	Mountain Alder	0.8	1	2	
				2	3.125
				64	

Site #6–Casino Creek valley

Tree #	Tree Species	Height (m)	Diameter at Breast Height (cm)	Total # Trees	%
1	Black Spruce	10.24	16.87	1	
2	Black Spruce	9.53	17.51	1	
3–4	Black Spruce	8.32	16.55	2	
5–7	Black Spruce	1.68	1.91	3	
8–9	Black Spruce	0.6	0.95	2	
				9	14.75
10	White Spruce	12.08	15.92	1	
11	White Spruce	12.08	17.19	1	
12	White Spruce	9.29	16.87	1	
				3	4.918
13–15	Balsam Poplar	2	2.23	3	
16	Balsam Poplar	10.62	14.01	1	
17	Balsam Poplar	11.52	14.64	1	
18	Balsam Poplar	10.73	15.28	1	
				6	9.836
19–20	Scrub Birch	0.9	0.89	2	
				2	3.279
21	Sitka Willow	3	3.5	1	
22–23	Sitka Willow	4.66	7.32	2	
24	Sitka Willow	4.83	12.41	1	
25	Sitka Willow	1.78	14.64	1	
26	Sitka Willow	7.15	13.69	1	
27	Sitka Willow	3.91	13.05	1	
28	Sitka Willow	4.44	12.41	1	
29	Sitka Willow	4.5	12.73	1	
30	Sitka Willow	7.73	12.41	1	
				10	16.39
31–45	Little Tree Willow	2	3.5	15	
46	Little Tree Willow	4.62	8.59	1	
47–50	Little Tree Willow	2.18	3.5	4	
				20	32.79
51–61	Willow sp.	2	2.85	11	
				11	18.03
				61	

Site #7–North Slope, upper Casino Creek

Tree #	Tree Species	Height (m)	Diameter at Breast Height (cm)	Total # Trees	%
1	Black Spruce	1.3	1.59	1	
2–3	Black Spruce	2.4	3.5	2	
4–5	Black Spruce	6.3	17.19	2	
6	Black Spruce	4	5.41	1	
7	Black Spruce	4.48	9.55	1	
8–9	Black Spruce	4.48	8.91	2	
10	Black Spruce	2.5	1.59	1	
11–16	Black Spruce	1	0.75	6	
17	Black Spruce	4	10.19	1	
18–22	Black Spruce	6	6.84	5	
23–25	Black Spruce	1.8	1.91	3	
26	Black Spruce	3.37	11.46	1	
27	Black Spruce	3.5	12.09	1	
28	Black Spruce	3.12	10.19	1	
29–30	Black Spruce	3.5	5.73	2	
31	Black Spruce	3	2.55	1	
				31	65.96
32–37	Scrub Birch	1.2	1.5	6	
				6	12.77
38–47	Sitka Willow	3	3.18	10	
				10	21.28
				47	

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Table 9a
Soil Sample Analyses
Gravel, Sand, Silt and Clay Fractions

Sample	GRAVEL Fine (0.5 in)	SAND Very Coarse (2.0 mm)	SILT #2 (0.053 mm)	CLAY #2 (2.0 u)
Mill Site #1	28.9	28.1	33.8	9.2
Mill Site #2	55.7	26.0	13.9	4.4
Starter Pit #1	46.1	27.1	22.4	4.4
Starter Pit #2	48.7	35.3	11.9	4.1
Starter Pit #3	SAMPLE TOO ORGANIC TO EVALUATE PARTICLE SIZE			
Waste Rock Disposal #1	0	16.2	53.8	30.0
Waste Rock Disposal #2	54.4	30.2	10.5	4.9
Tailings Storage Facility #1	39.4	51.9	6.3	2.4
Tailings Storage Facility #2	52.6	32.4	10.4	4.6
Tailings Storage Facility #3	0	7.6	74.8	17.6
Tailings Storage Facility #4	21.1	27.9	42.1	8.9
Tailings Storage Facility #5	44.8	24.2	23.8	7.2

Note: Values are reported as % on a weight basis

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Table 9b
Soil Sample Analyses
Organic and Metal Content

Sample	pH	Dolomite Lime Required to Achieve pH 6.5 (tonne/ha)	Available Phosphorous (ppm)	Salts (mmhos/cm)	Total Nitrogen (%)	Total Sulphur (%)	EXCHANGEABLE CATIONS				AVAILABLE NUTRIENTS				
							Sodium (meq/100g)	Potassium (meq/100g)	Calcium (meq/100g)	Magnesium (meq/100g)	Copper (ppm)	Zinc (ppm)	Iron (ppm)	Manganese (ppm)	Aluminum (ppm)
Mill Site #1	5.1	4.1	7	2.00	0.08	0.050	0.04	0.15	2.88	0.63	1.5	2.0	55	8	2100
Mill Site #2	5.7	2.1	5	1.00	0.09	0.009	0.04	0.25	8.25	1.88	2.2	4.4	120	205	545
Starter Pit #1	5.4	0.5	7	1.12	0.05	0.032	0.08	0.48	5.95	1.25	11.0	2.9	190	44	515
Starter Pit #2	5.3	0.5	2	0.90	0.07	0.104	0.06	0.43	9.50	1.18	38.0	5.1	75	21	285
Starter Pit #3	4.7	11.2	28	0.90	0.9	0.31	0.17	0.30	8.30	1.40	65.0	2.0	370	5	2000
Waste Rock Disposal #1	6.2	•	2	1.00	0.32	0.056	0.11	0.93	20.0	3.35	2.9	13.0	55	70	800
Waste Rock Disposal #2	6	•	2	0.92	0.15	0.022	0.03	0.18	12.3	1.95	1.8	11.0	55	47	455
Tailings Storage Facility #1	6.1	•	7	0.70	0.02	0.003	0.02	0.16	4.38	1.58	1.1	0.6	45	16	315
Tailings Storage Facility #2	5.9	0.5	2	0.72	0.04	0.002	0.04	0.22	7.50	1.48	2.3	2.1	210	63	690
Tailings Storage Facility #3	5.6	5.1	6	0.94	0.24	0.034	0.09	0.33	11.8	2.33	12.0	4.6	525	210	585
Tailings Storage Facility #4	6.8	•	2	1.92	0.05	0.001	0.05	0.24	12.8	3.18	2.8	1.1	150	87	750
Tailings Storage Facility #5	5.6	1.1	2	1.00	0.05	0.023	0.05	0.43	8.75	2.25	2.0	0.6	100	16	470

• Lime requirement determined only when soil pH <6.0

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Table 10
Wildlife and Fisheries Log

Date	Species	Location
June		
02	Fox	Moves from drill to drill – pet
03	Frog	Britannia Cr – on road
03	Black Bear	Britannia Cr – on road
03	Moose 2yr old	Britannia Cr – on road
05	Porcupine	Britannia Cr, below Canadian Cr
05	Moose	Canadian Cr
06	Moose	Britannia Cr, below Cnadian Cr
06	Black Bear	Britannia Cr road
09	Brown Fox	Patton Hill
10	Grizzly Bear	Britannia Cr – south road
10	Cow Moose, 1 Calf	mid Casino Cr
12	Marten	Britannia Cr
12	Black Bear	Casino Cr access
14	Cow Moose & 2 Calves	Above Britania Cr
14	Black Bear	Lower Britannia Cr
15	Bald Eagle	Hole 136, flew overhead
15		towards river
16	Caribou (12adults 12Calves)	Valley NW of Canadian Ck Pass
21	Black Bear	N. Yukon River on south side of hill
21	Caribou	N of "Canadian tire"–north side of hill
21	Moose	Ridge West of Patton Hill – up high
21	Fox/coyote	Near drill rigs
22	Caribou (1 male 1 female)	Hole 169
23	Caribou (4 male)	Patton Hill at top of ridge
23	Caribou(1 female)	Hole 169
23	Bald Eagle	
24	Caribou (3 male 2 female)	Hole 169
26	Caribou (1)	Patton Hill at top of ridge
27	Caribou (1 male)	Cariboo on road to river & Canadian Tire
27	Caribou (2 male 1 female), Whistler (1)	Hole 169
28	Caribou (5)	Top of Patton Hill & up Canadian Cr
28	Caribou (5 male 9 female 3 newborn)	Hole 169
29	Grizzly Cub(heard mother nearby)	South of airstrip

*Note: Numerous caribou sightings appear to be a herd of about 7 which roam the hill above Canadian Tire – reports of caribou within 10 feet of people.
Numerous sightings of a red/black/silver fox. Vistis each dirll and comes to within 20feet of people.

Date	Species	Location
July		
01	Adult Grizzly Bear	Yukon River
01	Big Beaver	Britannia Cr
02	Black Bear & 2 cubs	Britania Cr rd near jctn with Canadian Cr
11	Black Bear	Britannia Cr
11	Cow & calf Moose	Down Casino Cr
11	Frog(bufo borealis?)	Dip Creek and Yukon River
11	Caribou (2 calves 2 bulls)	Patton Hill
11	Porcupine	
13	Fox	In camp
13	Small Black Bear	Casino Cr Rd
13	Cow & calf Moose	HW4 station
13	Wolf	Casino Cr
13	Caribou (1 bull 1 yearling)	Patton Hill
13	Caribou (1 bull)	Airstrip
15	Sow grizzly with cub (1) (spent half hr up tree)	Down Britannia Cr towards river
15	Caribou (1 bull 1 cow 1 calf)	Patton Hill
16	Caribou (bull)	Airstrip
17	Small Black Bear	Casino Cr
17	Black Bear	near 2nd crossing Britannia Cr
17	Grizzly Sow & cub	near 3rd crossing Britannia Cr
17	Bear	4th crossing Britannia
17	Rodents (Vole ?) (2)	1st crossing Britannia
17	Mama Bear & two 2–year old babies	4th Britannia Cr crossing closest to Yukon River
17	Frog, Chipmunk	Yukon River
18	Caribou – bull	Airstrip
18	Sow & 2 cubs	At 1st crossing Britania Cr
20	young adult Moose (2) & grouse (1)	Britania Cr bet 1st & 2nd crossing
23	Lynx	Britania Cr above 1st crossing
25	Porcupine	Helicopter pad
25	Grizzly cub (1yr old)	Trench on dip Cr Access Rd–claim 9059
25	Fox–mottled coloured	Generator Area in camp
25	Bull Caribou	Patton Hill SE side
26	Bear (brown)	Camp
26	Adult Black Bear	2nd tier in camp – behind tent
27	Baby Rabbit	Road to river
28	2 Caribou (bull & cow)	North side of Patton Hill
28	Porcupine – big one	Lower rd to airstrip, just off airstrip
29	Caribou	Airstrip by coreshack
31	Cow Moose and calf	Above camp
31	Cow Moose	On airstrip

Date	Species	Location
August		
01	Black Grizzly Bear	On road to Yukon River
02	1 cow, 1 calf Moose – am	Tailings Dam Site
02	1 mature bull Moose – pm	Access Rd near Brynelsen Ck
05	1 Sandpiper, 1 rock ptarmigan, 1 Owl,	Britannia Cr
05	1 sharp shinned Hawk, 6 Squirrels	
07	3 Shrew (mite)	Kitchen and storage area
10	Hawks (2)	Claim line 21 Upper Canadian Cr
11	Weasel	Kitchen
12	Lynx	On road to Yukon near 2nd crossing
12	Caribou bull (1)	On road to yukon west of Pass
13	Ravens (2), Squirrels (1)	Hill cut at proposed Tailings dam site
13	Black Bear (1)	Hill cut at proposed tailing dam site
13	Hawk (1)	Lower Dip Cr claim line 2
15	Rabbit (1), Squirrels (2)	Hill cut at proposed tailings dam site
15	Dark Fox	First level of tents
16	Squirrels (3)	Brynelsen Cr
17	Black Bear (1)	Tailings dam Access Rd bet Brynelsen & Austin Cks
18	Grouse (2)	Tailings dam access rd – 2km west of camp
19	Black Bear	Britannia Ck
19	Weasel – eating a mouse	Between airstrip and camp
20	Raven (2)	At camp
21	Boreal Vole	Above camp
21	Pair Raven	Camp
21	Flock of Crane circling in fog	Above camp
27	Owl (black)	Top end of runway
27	Beavers (1 male 54 pds, 1 female 32 pds)	1st road crossing of Canadian Cr
27	Caribou bulls (2)	Head of Canadian Cr
31	1 small flock Canadian Geese	Above Canadian Tire
31	Fox	Around all the drills

Date	Species	Location
September		
07	Small Owl	In camp
07	Grey Owl	Above tent
10	Large black Bear	On road to Yukon River
11	Porcupine	Dip Creek Rd
12	fox, Ravens	Dump
12	1 large flock birds – sandhill Cranes (geese)	Patton Hill
13	Caribou (8)	Near Canadian tire
14	Small Black Bear	Across Yukon River from Barge
16	Moose – 1 cow & 1 calf	Meloy Ck Rd 1 km south of camp
17	1 large bull Moose	Junction Casino & Dip Ck
17	Wolf tracks	Junction Casino & Dip Ck
17	1 large flock birds – geese / sandhill Crane	Camp
22	large bull Moose (1)	Junction Dip & Casino Cks
23	Black Bear (1)	North side Casino Creek near Dip
23	bull Moose (1)	Near Fuel tanks at Canadian Cr
24	1 cow Moose & 1 yearling calf	1 km NE of pump shack
26	Pine Marten (1)	Britannia Cr bet 1st & 2nd Cr crossing
26	Rabbit (1)	Britannia Cr bet 1st & 2nd Cr crossing
26	Snow geese or white swans (2) (flying south along river bank)	Yukon River barge landing
27	Pine Marten (1)	South of Camp
29	young bull Moose (1)	Dip Creek
29	large bull Moose (1)	Britannia Cr
October		
31	Moose – 1 big bull, 1 cow	Road below Airport
November		
	Moose	Drills near 93–124
	Moose	Head of Britannia Ck
	2 bull Moose	Head of Casino Ck/upper
	Moose – 1 bull 1 cow calf	Lower Casino Ck
	Wolverine (1)	Down Britannia Ck
	Lynx (2)	Down Britannia Ck
	Spruce grouse (6–8)	Down Britannia Ck
	Ruffed grouse (6 appr.)	Down Britannia Ck
	Marten (3)	Down Britannia Ck
	ptarmigan (some flocks of 15–25)	Upper Britannia
	Marten (2)	
	Snowshoe Hare (small numbers)	
	Marten (4)	Casino Ck
December		
	Moose (population same as November)	
	Wolves (approx. 8 in the area)	
	Wolverine (4 in the area)	
	Lynx (2 or 3 in the area)	
	Marten (numerous, 24 caught in Dec.)	
	Snowshoe hare (population in area is increasing)	

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Table 11
Preliminary Assessment of Fisheries in the Casino Creek and Britannia Creek Watersheds

Britannia Creek, Reach 1, Site 1 (June 1993)

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	264	93.2	5
Arctic grayling	2	1	269	233.1	5
Arctic grayling	3	1	167	45.5	2
Arctic grayling	4	1	220	123.4	3
Arctic grayling	5	1	177	49.7	2
Arctic grayling	6	2	174	45.3	2
Arctic grayling	7	2	254	153.7	4
Arctic grayling	8	2	163	39.5	2
Chinook salmon	1	(2)*	75	6.1	1

* fish found in downstream stopnet

Britannia Creek, Reach 1, Site 1 (August 1993)

Pass #1 – 890 seconds, Pass #2 – 584 seconds, total effort – 1474 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	302	341.4	6
Arctic grayling	2	1	215	111.7	3
Arctic grayling	3	1	320	–	7
Arctic grayling	4	1	265	–	–
Arctic grayling	5	1	333	–	8
Arctic grayling	6	1	132	–	1
Arctic grayling	7	1	167	–	2
Arctic grayling	8	1	71	–	0
Chinook salmon	1	1	94	6.5	1
Arctic grayling	MT1*	–	73	3.9	0

*MT = minnow trap

Britannia Creek, Reach 1, Site 1 (September 1993)

Pass #1 – 846 seconds, Pass #2 – 751 seconds, total effort – 1597 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	70	5.5	0+
Arctic grayling	2	1	337	411.8	6
Arctic grayling	3	1	311	394.6	5
Arctic grayling	4	1	264	198.2	5
Arctic grayling	5	1	320	380.1	6
Arctic grayling	6	1	343	498.7	8
Arctic grayling	7	2	347	528.8	8
Arctic grayling	8	2	320	345.1	7
Arctic grayling	9	2	257	217.6	5
Arctic grayling	10	2	280	257.9	6
Arctic grayling	11	2	317	343.8	5
Arctic grayling	12	2	269	259.0	5

Britannia Creek, Reach 1, Site 2 (June 1993)

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Round Whitefish	1	1	287	213.6	7
Round Whitefish	2	1	266	163.4	4
Arctic grayling	1	1	292	243.5	–
Arctic grayling	2	1	209	101.7	3
Arctic grayling	3	2	330	344.2	7
Arctic grayling	4	2	341	470.5	10
Chinook salmon	1	1	92	8.7	1
Chinook salmon	2	1	81	6.5	1

Britannia Creek, Reach 1, Site 2 (August 1993)

Pass #1 – 830 seconds, Pass #2 – 770 seconds, total effort – 1600 seconds

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age
Arctic grayling	1	1	294	312.5	6
Arctic grayling	2	1	212	102.2	4
Arctic grayling	3	1	259	202.6	–
Arctic grayling	4	2	340	515.0	8
Arctic grayling	5	2	214	105.1	3

Britannia Creek, Reach 1, Site 2 (September 1993)

Pass #1 – 746 seconds, Pass #2 – 664 seconds, total effort – 1600 seconds

No fish were caught at this site

Britannia Creek, Reach 1, Site 3 (August 1993)

Pass #1 – 556 seconds, Pass #2 – 631 seconds, total effort – 1187 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)
Arctic grayling	1	1	65	2.7
Arctic grayling	2	1	58	2.1
Arctic grayling	3	1	55	2.3
Arctic grayling	4	1	59	1.8
Arctic grayling	5	1	55	1.9
Arctic grayling	6	1	52	1.1
Arctic grayling	7	1	53	1.9
Arctic grayling	8	1	51	1.4
Arctic grayling	9	1	58	1.5
Arctic grayling	10	1	51	1.2
Arctic grayling	11	1	49	1.1
Arctic grayling	12	1	47	1.2
Arctic grayling	13	1	47	0.8
Arctic grayling	14	1	50	1.3
Arctic grayling	15	1	45	1.2
Round whitefish	1	1	55	0.9
Round whitefish	2	1	51	1.1
Round whitefish	3	1	53	0.7
Slimy sculpin	1	1	67	2.6
Arctic grayling	16	2	71	3.6
Arctic grayling	17	2	56	2.2
Arctic grayling	18	2	55	2.3
Arctic grayling	19	2	58	2.2
Arctic grayling	20	2	55	2.0
Arctic grayling	21	2	54	1.9
Arctic grayling	22	2	55	1.9
Arctic grayling	23	2	52	2.5
Arctic grayling	24	2	51	2.2
Arctic grayling	25	2	55	1.8
Arctic grayling	26	2	51	1.2
Arctic grayling	27	2	55	1.3
Arctic grayling	28	2	54	1.9
Arctic grayling	29	2	52	1.3
Arctic grayling	30	2	54	1.9
Arctic grayling	31	2	51	1.4
Arctic grayling	32	2	48	1.0
Arctic grayling	33	2	53	1.4
Arctic grayling	34	2	50	1.1
Arctic grayling	35	2	53	1.6
Arctic grayling	36	2	47	1.3
Arctic grayling	37	2	50	1.0
Arctic grayling	38	2	52	1.8
Arctic grayling	39	2	51	1.3
Arctic grayling	40	2	50	1.3
Arctic grayling	41	2	54	2.0
Arctic grayling	42	2	48	1.1
Arctic grayling	43	2	46	0.9
Round whitefish	4	2	53	1.6
Slimy sculpin	2	2	58	2.3
Slimy sculpin	3	2	51	1.8
Slimy sculpin	4	2	57	2.3
Arctic grayling	MT1	–	35	–
Slimy sculpin	MT1	–	–	–
Slimy sculpin	MT2	–	–	–
Slimy sculpin	MT3	–	–	–

Britannia Creek, Reach 1, Site 3 (September 1993)

Pass #1 – 936 seconds, Pass #2 – 1011 seconds, total effort – 1947 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	84	6.1	0+
Arctic grayling	2	1	75	4.0	0+
Arctic grayling	3	1	67	3.4	0+
Arctic grayling	4	1	62	3.3	0+
Arctic grayling	5	1	60	3.7	–
Arctic grayling	6	1	56	1.8	–
Arctic grayling	7	1	58	2.0	–
Arctic grayling	8	1	60	2.8	–
Arctic grayling	9	1	64	2.5	–
Arctic grayling	10	1	61	3.0	–
Arctic grayling	11	1	64	3.6	–
Arctic grayling	12	1	52	2.0	–
Arctic grayling	13	1	52	1.9	–
Arctic grayling	14	1	51	1.7	–
Arctic grayling	15	1	60	2.3	–
Arctic grayling	16	1	52	2.3	–
Slimy sculpin	1	1	69	4.3	–
Slimy sculpin	2	1	67	3.7	–
Slimy sculpin	3	1	64	3.6	–
Slimy sculpin	4	1	54	2.1	–
Arctic grayling	17	2	57	2.8	–
Arctic grayling	18	2	60	2.9	–
Arctic grayling	19	2	64	3.5	–
Arctic grayling	20	2	59	3.2	–
Arctic grayling	21	2	61	2.3	–
Arctic grayling	22	2	57	2.4	–
Round whitefish	1	2	60	1.7	–
Slimy sculpin	5	2	93	13.5	–
Slimy sculpin	6	2	63	3.3	–
Slimy sculpin	7	2	61	2.8	–
Slimy sculpin	8	2	70	4.3	–
Slimy sculpin	9	2	60	2.7	–
Slimy sculpin	10	2	71	4.0	–
Burbot	1	2	142	21.0	–
Arctic grayling	MT1	–	69	4.1	0+
Arctic grayling	MT2	–	70	3.2	–
Arctic grayling	MT3	–	65	2.7	–
Slimy sculpin	MT1	–	67	3.2	–
Slimy sculpin	MT2	–	57	1.8	–
Slimy sculpin	MT3	–	58	2.0	–

Canadian Creek, Reach 1, Site 1 (June 1993)

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	262	204.5	4
Arctic grayling	2	1	317	340.0	5
Arctic grayling	3	1	210	97.8	4
Arctic grayling	4	1	278	252.1	5
Arctic grayling	5	1	292	257.0	5
Arctic grayling	6	1	222	122.0	4
Arctic grayling	7	1	171	52.7	3
Arctic grayling	8	1	182	63.1	3
Arctic grayling	9	2	251	192.2	5
Arctic grayling	10	2	202	88.3	4
Arctic grayling	11	2	229	133.9	4

Canadian Creek, Reach 1, Site 1 (August 1993)

Pass #1 – 910 seconds, Pass #2 – 804 seconds, total effort – 1714 seconds

Fish	Sample #	Pass	Length (mm)	Age (years)
Arctic grayling	1	1	328	5
Arctic grayling	2	1	196	3
Arctic grayling	3	1	194	2
Arctic grayling	4	1	290	5
Arctic grayling	5	1	168	2
Arctic grayling	6	1	201	3
Arctic grayling	7	1	166	3
Arctic grayling	8	1	173	2
Arctic grayling	9	1	199	3
Arctic grayling	10	1	139	1
Arctic grayling	11	2	316	6
Arctic grayling	12	2	110	0
Arctic grayling	13	2	168	2
Arctic grayling	14	2	159	2
Arctic grayling	15	2	141	2
Arctic grayling	16	2	225	4
Arctic grayling	17	2	155	2

Canadian Creek, Reach 1, Site 1 (September 1993)

Pass #1 – 606 seconds, Pass #2 – 497 seconds, total effort – 1103 seconds

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	268	231.9	5
Arctic grayling	2	1	304	298.3	5
Arctic grayling	3	1	143	31.5	2
Arctic grayling	4	1	192	75.8	3
Arctic grayling	5	1	171	46.7	3
Arctic grayling	6	1	164	51.5	5
Arctic grayling	7	1	283	273.2	4
Arctic grayling	8	1	196	81.1	2
Arctic grayling	9	1	166	43.5	2
Arctic grayling	10	1	169	45.8	5
Arctic grayling	11	2	250	176.8	5
Arctic grayling	12	2	276	269.3	3
Arctic grayling	13	2	203	101.1	3
Arctic grayling	14	2	208	100.9	4
Arctic grayling	15	2	202	97.1	3
Arctic grayling	16	2	203	92.8	4
Arctic grayling	17	2	207	98.5	4
Arctic grayling	18	2	189	82.2	2
Arctic grayling	19	2	165	49.1	5

Canadian Creek, Reach 2, Site 1 (August 1993)

Total effort – 400 seconds

Fish	Sample #	Pass	Length (mm)
Arctic grayling	1	1	200
Arctic grayling	2	1	180
Arctic grayling	3	1	310

Canadian Creek, Reach 2, Site 1

Total effort – 532 seconds

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	252	259.1	5

Dip Creek, Reach 1, Site 1 (June 1993)

Fish	Sample #	Pass	Length (mm)	Weight (g)
Slimy sculpin	1–10	1	76 (max.) 43 (min.)	1.88 (average)

Dip Creek, Reach 1, Site 1 (August 1993)

Total effort – 698 seconds

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age
Arctic grayling	1	1	255	157.3	6
Arctic grayling	2	1	305	300.5	7
Slimy sculpin	1–6	1	90 (max) 35 (min)	5.73	– –

Dip Creek, Reach 1, Site 1 (September 1993)

Total effort – 1256 seconds

Fish	Sample #	Pass	Length (mm)	Weight (g)
Slimy sculpin	1	1	59	5.61

Casino Creek, Reach 1, Site 1 (June 1993)

(approximately 20 sculpins were observed and/or caught, but they were not weighed or measured)

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	179	47.0	3
Arctic grayling	2	1	163	39.1	2
Arctic grayling	3	2	260	203.2	5
Arctic grayling	4	2	265	157.3	5

Casino Creek, Reach 1, Site 1 (August 1993)

Pass #1 – 904 seconds, Pass #2 – 698, total effort – 1602 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age
Arctic grayling	1	1	273	242.7	5
Arctic grayling	2	1	194	84.0	3
Arctic grayling	3	1	177	61.2	2
Arctic grayling	4	1	145	37.7	2
Arctic grayling	5	1	154	42.1	2
Slimy sculpins	1–4	1	85 (max)	4.9 (average)	–
–	–	–	54 (min)	–	–
Arctic grayling	6	2	197	90.4	3
Arctic grayling	7	2	200	92.6	3
Arctic grayling	8	2	165	54.5	2
Arctic grayling	9	2	227	141.7	–
Arctic grayling	10	2	157	49.0	2
Arctic grayling	11	2	159	44.4	2
Arctic grayling	12	2	172	58.8	2
Arctic grayling	13	2	100	25.0	–
Slimy sculpins	5–16	2	80 (max)	4.2 (average)	–
			42 (min)		

Casino Creek, Reach 1, Site 1 (September 1993)

Pass #1 – 633 seconds, Pass #2 – 611, total effort – 1244 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Arctic grayling	1	1	225	129.4	3
Slimy sculpin	1	1	102	12.8	–
Slimy sculpin	2	1	93	9.8	–
Slimy sculpin	3	1	87	7.4	–
Slimy sculpin	4	1	86	6.8	–
Slimy sculpin	5	1	75	4.9	–
Slimy sculpin	6	1	72	3.8	–
Slimy sculpin	7	1	77	4.7	–
Arctic grayling	2	2	124	18.3	2
Slimy sculpin	8	2	98	10.2	–
Slimy sculpin	9	2	85	7.4	–
Slimy sculpin	10	2	99	8.3	–
Slimy sculpin	11	2	77	4.6	–
Slimy sculpin	12	2	84	6.0	–

Casino Creek, Reach 1, Site 2 (June 1993)

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Artic grayling	1	1	304	285.3	5
Artic grayling	2	1	172	58.7	2

Casino Creek, Reach 1, Site 2 (August 1993)

Pass #1 – 1152 seconds, Pass #2 – 957 seconds, total effort – 2109 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Artic grayling	1	1	260	240.9	5
Artic grayling	2	1	277	314.9	5
Slimy sculpin	1	1	112	11.8	–
Slimy sculpin	2	1	85	8.9	–
Slimy sculpin	3	1	90	7.8	–

Casino Creek, Reach 1, Site 2 (September 1993)

Pass #1 – 795 seconds, Pass #2 – 699 seconds, total effort – 1494 seconds.

Fish	Sample #	Pass	Length (mm)	Weight (g)	Age (years)
Slimy sculpin	1	1	112	13.3	–
Slimy sculpin	2	1	104	11.5	–
Slimy sculpin	3	1	84	6.2	–
Slimy sculpin	4	1	76	4.2	–
Arctic grayling	1	2	169	58.5	2

Casino Creek, Reach 2, Site 1: This site was spot–shocked in June, August and and September, but no fish were recovered. Fish were also not caught using minnow traps.

Pacific Sentinel Gold Corporation
Casino Project

Table 12
Benthic Macroinvertebrates

Organisms	Station W1 (Lower Britannia Creek)						Station W2 (Britannia Creek below Canadian Creek confluence)					
	1	2	3	total	mean	N/m2	1	2	3	total	mean	N/m2
EPHEMEROPTERA				0	0.000	0.000				0	0.000	0.000
Ameletus sp				0	0.000	0.000				0	0.000	0.000
Baetis sp	1		1	2	0.667	21.529	19	7		26	8.667	279.871
Cinygmula sp	2			2	0.667	21.529	19	13	4	36	12.000	387.513
Ephemerella doddsi				0	0.000	0.000				0	0.000	0.000
Ephemerella grandis				0	0.000	0.000				0	0.000	0.000
Ephemerella infrequens		1		1	0.333	10.764				0	0.000	0.000
Ephemerella sp.				0	0.000	0.000				0	0.000	0.000
Epeorus albertae				0	0.000	0.000				0	0.000	0.000
Epeorus deceptivus				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
PLECOPTERA, unid J/D		1	1	2	0.667	21.529	35	13	13	61	20.333	656.620
Capnia sp.	2	2	4	8	2.667	86.114	42	18	18	78	26.000	839.612
Cultus sp.				0	0.000	0.000	1			1	0.333	10.764
Podmosta sp.				0	0.000	0.000		1		1	0.333	10.764
Skwala (curvata)				0	0.000	0.000				0	0.000	0.000
Sweltsa sp. group	8	10	8	26	8.667	279.871	16	8	18	42	14.000	452.099
Utaperla sp.				0	0.000	0.000			2	2	0.667	21.529
Visoka cataractae				0	0.000	0.000	3			3	1.000	32.293
Zapada sp.						0.000						0.000
						0.000						0.000
TRICHOPTERA, unid J/D				0	0.000	0.000				0	0.000	0.000
Apatania sp.				0	0.000	0.000				0	0.000	0.000
Closoteca sp.				0	0.000	0.000				0	0.000	0.000
Eccliso myia sp.	1		7	8	2.667	86.114	63	23	14	100	33.333	1076.426
Glosso ma sp.				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Facultative Organisms						0.000						0.000
						0.000						0.000
				0	0.000	0.000				0	0.000	0.000
DIPTERA unid Adult			2	2	0.667	21.529		2		2	0.667	21.529
Chironomidae, unid Juv/	1	1	12	14	4.667	150.700	12	12	3	27	9.000	290.635
Chironomidae pupae		3	6	9	3.000	96.878	2	2	1	5	1.667	53.821
Chironomidae adult	2		3	5	1.667	53.821	1		1	2	0.667	21.529
S.F. Chironominae				0	0.000	0.000				0	0.000	0.000
Micropsectra sp.				0	0.000	0.000				0	0.000	0.000
S.F. Diamesinae				0	0.000	0.000				0	0.000	0.000
Boreoheptagya sp.				0	0.000	0.000				0	0.000	0.000
Monodiamesa sp.				0	0.000	0.000				0	0.000	0.000
Pseudokeifferiella sp.			1	1	0.333	10.764		1		1	0.333	10.764
S.F. Orthocladiinae				0	0.000	0.000				0	0.000	0.000
Brillia sp.			1	1	0.333	10.764				0	0.000	0.000
Cardiocladius sp.	3		18	21	7.000	226.050	1		3	4	1.333	43.057
Corynoneura sp.				0	0.000	0.000				0	0.000	0.000
Cricotopus sp.	16	2	50	68	*******	731.970	2	5		7	2.333	75.350
Eukiefferiella sp.	6	4	78	88	*******	947.255	8	9	10	27	9.000	290.635
Euryhapsis sp.		12		12	4.000	129.171				0	0.000	0.000
Heleniella sp.				0	0.000	0.000	1	1	1	3	1.000	32.293
Psectrocladius? sp.				0	0.000	0.000				0	0.000	0.000
Krenosmittia sp.				0	0.000	0.000				0	0.000	0.000
Rheocricotopus sp.				0	0.000	0.000				0	0.000	0.000
Synorthocladius sp.			1	1	0.333	10.764				0	0.000	0.000
Thienemanniella sp.			1	1	0.333	10.764		2		2	0.667	21.529
Ceratopogonidae				0	0.000	0.000				0	0.000	0.000
Culicoides sp.				0	0.000	0.000		2		2	0.667	21.529
Culicidae A				0	0.000	0.000				0	0.000	0.000

Empididae				0	0.000	0.000				0	0.000	0.000
Chelifera sp.	3	21	2	26	8.667	279.871	2	1		3	1.000	32.293
Clinocera sp.				0	0.000	0.000				0	0.000	0.000
Weidemannia sp.				0	0.000	0.000				0	0.000	0.000
Muscidae, unid J/D			3	3	1.000	32.293				0	0.000	0.000
Psychodidae				0	0.000	0.000				0	0.000	0.000
Pericoma sp.		4	1	5	1.667	53.821	1			1	0.333	10.764
Sciomyzidae ? L			1	1	0.333	10.764				0	0.000	0.000
Simulidae				0	0.000	0.000				0	0.000	0.000
Prosimulium sp.				0	0.000	0.000				0	0.000	0.000
Tipulidae unid J/D				0	0.000	0.000				0	0.000	0.000
Antocha spl	1	5		6	2.000	64.586	2	1	2	5	1.667	53.821
Dicranota sp.				0	0.000	0.000				0	0.000	0.000
Hexatoma sp.		1		1	0.333	10.764				0	0.000	0.000
Tipula sp.		6	2	8	2.667	86.114	1		1	2	0.667	21.529
					0.000	0.000					0.000	0.000
HOMOPTERA				0	0.000	0.000				0	0.000	0.000
Aphididae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Hymenoptera unid A				0	0.000	0.000				0	0.000	0.000
Formicidae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Lepidoptera unid L		1		1	0.333	10.764				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Collembola				0	0.000	0.000				0	0.000	0.000
Bourletiella spinata				0	0.000	0.000			1	1	0.333	10.764
Hypogastrura sp.				0	0.000	0.000				0	0.000	0.000
Isotoma sp.			1	1	0.333	10.764	6	4	1	11	3.667	118.407
				0	0.000	0.000				0	0.000	0.000
Arachnida				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Hydracarina unid J		1		1	0.333	10.764	1		2	3	1.000	32.293
Kerendowskia sp.				0	0.000	0.000				0	0.000	0.000
Lebertia sp.				0	0.000	0.000				0	0.000	0.000
Sperchon sp.				0	0.000	0.000			1	1	0.333	10.764
Torrenticola sp.			1	1	0.333	10.764	1		1	2	0.667	21.529
Wandesia sp.				0	0.000	0.000				0	0.000	0.000
Oribatei				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
COPEPODA				0	0.000	0.000				0	0.000	0.000
Cyclopoida				0	0.000	0.000	3		8	11	3.667	118.407
Harpacticoida	1	1		2	0.667	21.529				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
OSTRACODA		2		2	0.667	21.529	3			3	1.000	32.293
				0	0.000	0.000				0	0.000	0.000
OLIGOCHAETA, Naididae				0	0.000	0.000				0	0.000	0.000
Nais (communis)	1	5	4	10	3.333	107.643				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
GASTROPODA				0	0.000	0.000				0	0.000	0.000
Limacidae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
NEMATODA		3		3	1.000	32.293	4	6	1	11	3.667	118.407
				0	0.000	0.000				0	0.000	0.000
Turbellaria				0	0.000	0.000			1	1	0.333	10.764
				0	0.000	0.000				0	0.000	0.000
Tolerant Organisms				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Enchytraeidae		22	5	27	9.000	290.635	3	4	1	8	2.667	86.114
Lumbriculidae				0	0.000	0.000				0	0.000	0.000
Kincaidiana hexatheca				0	0.000	0.000				0	0.000	0.000
Tubificidae				0	0.000	0.000				0	0.000	0.000
	48	108	214	370	123	1327.592	252	135	108	495	165	1776.103

			sensitive =		49	13.2			sensitive =		350	70.71
			facultat =		294	79.5			facultat =		137	27.68
			tolerant =		27	7.3			tolerant =		8	1.6
173	388	770		----			0	7.19	0		-----	
24	25	27		100			27	28	29		99.98	
50.4	50.4	75.5					712	299	248			
101	79.1	615					97.1	115	68.3			
0	0	0					0	0	0			

Organisms	Station W3 (Canadian Creek above Britannia Creek confluence)						Station W4 (Lower Casino Creek, at datalogger)					
	1	2	3	total	mean	N/m2	1	2	3	total	mean	N/m2
EPHEMEROPTERA				0	0.000	0.000				0	0.000	0.000
Ameletus sp	1	1	7	9	3.000	32.374		1	1	2	0.667	7.194
Baetis sp		1	1	2	0.667	7.194	5	1	5	11	3.667	39.568
Cinygmula sp	1	10	13	24	8.000	86.331	10	10	13	33	11.000	118.705
Ephemerella doddsi				0	0.000	0.000	5	1	10	16	5.333	57.554
Ephemerella grandis				0	0.000	0.000				0	0.000	0.000
Ephemerella infrequens				0	0.000	0.000				0	0.000	0.000
Ephemerella sp.				0	0.000	0.000		3	1	4	1.333	14.388
Epeorus albertae				0	0.000	0.000			1	1	0.333	3.597
Epeorus deceptivus			1	1	0.333	3.597		1		1	0.333	3.597
				0	0.000	0.000				0	0.000	0.000
PLECOPTERA, unid J/D	6	19	6	31	10.333	111.511	34	72	102	208	69.333	748.201
Capnia sp.	21	63	27	111	37.000	399.281	12	21	30	63	21.000	226.619
Cultus sp.			1	1	0.333	3.597				0	0.000	0.000
Podmosta sp.	1	1		2	0.667	7.194	5	6	4	15	5.000	53.957
Skwala (curvata)				0	0.000	0.000		2	1	3	1.000	10.791
Sweltsa sp. group	28	8	29	65	21.667	233.813	8	5	3	16	5.333	57.554
Utaperla sp.	1	2	6	9	3.000	32.374				0	0.000	0.000
Visoka cataractae				0	0.000	0.000				0	0.000	0.000
Zapada sp.							6	7	22			
TRICHOPTERA, unid J/D		4	18	22	7.333	79.137	2	1	5	8	2.667	28.777
Apatania sp.				0	0.000	0.000	2	1	5	8	2.667	28.777
Closoteca sp.				0	0.000	0.000	2		2	4	1.333	14.388
Ecclisomyia sp.		1		1	0.333	3.597	2	1	3	6	2.000	21.583
Glossoma sp.				0	0.000	0.000	7	7	2	16	5.333	57.554
				0	0.000	0.000				0	0.000	0.000
Facultative Organisms												
				0	0.000	0.000				0	0.000	0.000
DIPTERA unid Adult				0	0.000	0.000			1	1	0.333	3.597
Chironomidae, unid Juv/	3	25		28	9.333	100.719	4	21	19	44	14.667	158.273
Chironomidae pupae		6	3	9	3.000	32.374	11	10	13	34	11.333	122.302
Chironomidae adult	2		2	4	1.333	14.388	2	3	7	12	4.000	43.165
S.F. Chironominae				0	0.000	0.000				0	0.000	0.000
Micropsectra sp.				0	0.000	0.000		1	2	3	1.000	10.791
S.F. Diamesinae				0	0.000	0.000				0	0.000	0.000
Boreoheptagya sp.			1	1	0.333	3.597				0	0.000	0.000
Monodiamesa sp.				0	0.000	0.000				0	0.000	0.000
Pseudokeifferiella sp.	1		1	2	0.667	7.194			6	6	2.000	21.583
S.F. Orthocladiinae				0	0.000	0.000				0	0.000	0.000
Brillia sp.				0	0.000	0.000				0	0.000	0.000
Cardiocladius sp.	4	31	22	57	19.000	205.036	21	29	68	118	39.333	424.460
Corynoneura sp.				0	0.000	0.000				0	0.000	0.000
Cricotopus sp.	12	37	34	83	27.667	298.561	45	45	66	156	52.000	561.151
Eukiefferiella sp.	17	80	66	163	54.333	586.331	5	11	13	29	9.667	104.317
Euryhapsis sp.			1	1	0.333	3.597				0	0.000	0.000
Heleniella sp.			1	1	0.333	3.597	2	1		3	1.000	10.791
Psectrocladius? sp.				0	0.000	0.000				0	0.000	0.000
Krenosmittia sp.				0	0.000	0.000				0	0.000	0.000
Rheocricotopus sp.	1	2	1	4	1.333	14.388			1	1	0.333	3.597
Synorthocladius sp.		3	3	6	2.000	21.583	9	5	15	29	9.667	104.317
Thienemanniella sp.		1	1	2	0.667	7.194				0	0.000	0.000
Ceratopogonidae				0	0.000	0.000				0	0.000	0.000
Culicoides sp.				0	0.000	0.000		1		1	0.333	3.597
Culicidae A				0	0.000	0.000				0	0.000	0.000

Empididae				0	0.000	0.000				0	0.000	0.000
Chelifera sp.		1	2	3	1.000	10.791	17	24	5	46	15.333	165.468
Clinocera sp.				0	0.000	0.000				0	0.000	0.000
Weidemannia sp.				0	0.000	0.000	1			1	0.333	3.597
Muscidae, unid J/D				0	0.000	0.000				0	0.000	0.000
Psychodidae				0	0.000	0.000				0	0.000	0.000
Pericoma sp.				0	0.000	0.000			6	6	2.000	21.583
Sciomyzidae ? L		1		1	0.333	3.597				0	0.000	0.000
Simulidae				0	0.000	0.000				0	0.000	0.000
Prosimulium sp.				0	0.000	0.000			1	1	0.333	3.597
Tipulidae unid J/D			1	1	0.333	3.597	1		2	3	1.000	10.791
Antocha spl	2	4	6	12	4.000	43.165				0	0.000	0.000
Dicranota sp.				0	0.000	0.000				0	0.000	0.000
Hexatoma sp.				0	0.000	0.000				0	0.000	0.000
Tipula sp.	2	1	3	6	2.000	21.583		5	3	8	2.667	28.777
					0.000	0.000					0.000	0.000
HOMOPTERA				0	0.000	0.000				0	0.000	0.000
Aphididae				0	0.000	0.000	1	1	2	4	1.333	14.388
				0	0.000	0.000				0	0.000	0.000
Hymenoptera unid A			1	1	0.333	3.597		2		2	0.667	7.194
Formicidae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Lepidoptera unid L				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Collembola				0	0.000	0.000				0	0.000	0.000
Bourletiella spinata				0	0.000	0.000				0	0.000	0.000
Hypogastrura sp.	1			1	0.333	3.597			5	5	1.667	17.986
Isotoma sp.				0	0.000	0.000	1		3	4	1.333	14.388
				0	0.000	0.000				0	0.000	0.000
Arachnida				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Hydracarina unid J	1	2		3	1.000	10.791	6	6	6	18	6.000	64.748
Kerendowskia sp.				0	0.000	0.000				0	0.000	0.000
Lebertia sp.				0	0.000	0.000		1		1	0.333	3.597
Sperchon sp.				0	0.000	0.000	1		1	2	0.667	7.194
Torrenticola sp.	1	2	4	7	2.333	25.180	1		2	3	1.000	10.791
Wandesia sp.		1		1	0.333	3.597				0	0.000	0.000
Oribatei			1	1	0.333	3.597				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
COPEPODA				0	0.000	0.000				0	0.000	0.000
Cyclopoida	1	1		2	0.667	7.194			4	4	1.333	14.388
Harpacticoida		1		1	0.333	3.597	3	2	3	8	2.667	28.777
				0	0.000	0.000				0	0.000	0.000
OSTRACODA	1			1	0.333	3.597	7	2	5	14	4.667	50.360
				0	0.000	0.000				0	0.000	0.000
OLIGOCHAETA, Naididae				0	0.000	0.000				0	0.000	0.000
Nais (communis)		15	52	67	22.333	241.007	1			1	0.333	3.597
				0	0.000	0.000				0	0.000	0.000
GASTROPODA				0	0.000	0.000				0	0.000	0.000
Limacidae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
NEMATODA	3	3	4	10	3.333	35.971	3	12	13	28	9.333	100.719
				0	0.000	0.000				0	0.000	0.000
Turbellaria		1	1	2	0.667	7.194		1		1	0.333	3.597
				0	0.000	0.000				0	0.000	0.000
Tolerant Organisms				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Enchytraeidae		3	4	7	2.333	25.180	29	30	27	86	28.667	309.353
Lumbriculidae		2		2	0.667	7.194	51	57	49	157	52.333	564.748
Kincaidiana hexatheca				0	0.000	0.000				0	0.000	0.000
Tubificidae				0	0.000	0.000	1	1		2	0.667	7.194
	111	333	324	768	256	2755.651	323	411	558	1257	419	4510.226

			sensitive =		278	36.2			sensitive =		415	33.02
			facultat =		481	62.63			facultat =		597	47.49
			tolerant =		9	1.172			tolerant =		245	19.49
0	0	0		-----			0	3.6	0		-----	
28	31	33		100			34	36	37		100	
212	396	392					360	504	755			
140	644	471					324	435	701			
3.6	7.19	3.6					0	0	3.6			

Organisms	Station W5 (Dip Creek below Casino Creek confluence)						Station W7 (Upper Canadian Creek)					
	1	2	3	total	mean	N/m2	1	2	3	total	mean	N/m2
EPHEMEROPTERA				0	0.000	0.000				0	0.000	0.000
Ameletus sp			1	1	0.333	3.597	7	12		19	6.333	68.345
Baetis sp	1	1	1	3	1.000	10.791	23	46	19	88	29.333	316.547
Cinygmula sp	3	9	5	17	5.667	61.151	34	39	12	85	28.333	305.755
Ephemerella doddsi	3	2		5	1.667	17.986				0	0.000	0.000
Ephemerella grandis	1			1	0.333	3.597				0	0.000	0.000
Ephemerella infrequens				0	0.000	0.000				0	0.000	0.000
Ephemerella sp.	2	20		22	7.333	79.137				0	0.000	0.000
Epeorus albertae				0	0.000	0.000				0	0.000	0.000
Epeorus deceptivus				0	0.000	0.000		1	1	2	0.667	7.194
				0	0.000	0.000				0	0.000	0.000
PLECOPTERA, unid J/D	14	26	56	96	32.000	345.324	8	15	7	30	10.000	107.914
Capnia sp.	2	6	6	14	4.667	50.360	38	46	20	104	34.667	374.101
Cultus sp.				0	0.000	0.000				0	0.000	0.000
Podmosta sp.	2	3	1	6	2.000	21.583		1	2	3	1.000	10.791
Skwala (curvata)			1	1	0.333	3.597	2			2	0.667	7.194
Sweltsa sp. group	7	3	4	14	4.667	50.360	3	2	1	6	2.000	21.583
Utaperla sp.				0	0.000	0.000				0	0.000	0.000
Visoka cataractae				0	0.000	0.000				0	0.000	0.000
Zapada sp.		2					5	9	4			
TRICHOPTERA, unid J/D		6	1	7	2.333	25.180				0	0.000	0.000
Apatania sp.	4	14		18	6.000	64.748	3			3	1.000	10.791
Closoteca sp.				0	0.000	0.000				0	0.000	0.000
Ecclisomyia sp.	1	11		12	4.000	43.165	1	1		2	0.667	7.194
Glossoma sp.	3	4	2	9	3.000	32.374				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Facultative Organisms												
				0	0.000	0.000				0	0.000	0.000
DIPTERA unid Adult		1		1	0.333	3.597				0	0.000	0.000
Chironomidae, unid Juv/	15	21	10	46	15.333	165.468	3	7	5	15	5.000	53.957
Chironomidae pupae	9	17	5	31	10.333	111.511	1			1	0.333	3.597
Chironomidae adult	1	2	2	5	1.667	17.986			1	1	0.333	3.597
S.F. Chironominae				0	0.000	0.000				0	0.000	0.000
Micropsectra sp.			1	1	0.333	3.597				0	0.000	0.000
S.F. Diamesinae				0	0.000	0.000				0	0.000	0.000
Boreoheptagya sp.				0	0.000	0.000				0	0.000	0.000
Monodiamesa sp.				0	0.000	0.000			71	71	23.667	255.396
Pseudokeifferiella sp.		1	1	2	0.667	7.194				0	0.000	0.000
S.F. Orthocladiinae				0	0.000	0.000				0	0.000	0.000
Brillia sp.				0	0.000	0.000				0	0.000	0.000
Cardiocladius sp.	39	119	10	168	56.000	604.317				0	0.000	0.000
Corynoneura sp.			1	1	0.333	3.597	1			1	0.333	3.597
Cricotopus sp.	76	244	44	364	121.333	1309.353				0	0.000	0.000
Eukiefferiella sp.	6	11	2	19	6.333	68.345	7	11		18	6.000	64.748
Euryhapsis sp.				0	0.000	0.000		1		1	0.333	3.597
Heleniella sp.	2	6	4	12	4.000	43.165	1			1	0.333	3.597
Psectrocladius? sp.			2	2	0.667	7.194				0	0.000	0.000
Krenosmittia sp.				0	0.000	0.000		9		9	3.000	32.374
Rheocricotopus sp.				0	0.000	0.000				0	0.000	0.000
Synorthocladius sp.	26	34	4	64	21.333	230.216				0	0.000	0.000
Thienemanniella sp.		1		1	0.333	3.597				0	0.000	0.000
Ceratopogonidae				0	0.000	0.000				0	0.000	0.000
Culicoides sp.				0	0.000	0.000	2	2		4	1.333	14.388
Culicidae A		2		2	0.667	7.194				0	0.000	0.000

Empididae				0	0.000	0.000				0	0.000	0.000
Chelifera sp.	4	14		18	6.000	64.748		1		1	0.333	3.597
Clinocera sp.				0	0.000	0.000	1			1	0.333	3.597
Weidemannia sp.				0	0.000	0.000				0	0.000	0.000
Muscidae, unid J/D				0	0.000	0.000				0	0.000	0.000
Psychodidae				0	0.000	0.000				0	0.000	0.000
Pericoma sp.				0	0.000	0.000		1		1	0.333	3.597
Sciomyzidae ? L				0	0.000	0.000				0	0.000	0.000
Simulidae				0	0.000	0.000				0	0.000	0.000
Prosimulium sp.				0	0.000	0.000		1	1	2	0.667	7.194
Tipulidae unid J/D				0	0.000	0.000				0	0.000	0.000
Antocha spl	1	4		5	1.667	17.986	1			1	0.333	3.597
Dicranota sp.			1	1	0.333	3.597	1	4	1	6	2.000	21.583
Hexatoma sp.				0	0.000	0.000				0	0.000	0.000
Tipula sp.		5		5	1.667	17.986				0	0.000	0.000
					0.000	0.000					0.000	0.000
HOMOPTERA				0	0.000	0.000				0	0.000	0.000
Aphididae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Hymenoptera unid A				0	0.000	0.000				0	0.000	0.000
Formicidae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Lepidoptera unid L				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Collembola				0	0.000	0.000				0	0.000	0.000
Bourletiella spinata				0	0.000	0.000				0	0.000	0.000
Hypogastrura sp.		1	1	2	0.667	7.194			1	1	0.333	3.597
Isotoma sp.		1	1	2	0.667	7.194		10		10	3.333	35.971
				0	0.000	0.000				0	0.000	0.000
Arachnida				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Hydracarina unid J	2	2	2	6	2.000	21.583				0	0.000	0.000
Kerendowskia sp.	1	18	3	22	7.333	79.137				0	0.000	0.000
Lebertia sp.		3		3	1.000	10.791				0	0.000	0.000
Sperchon sp.		1		1	0.333	3.597				0	0.000	0.000
Torrenticola sp.	3	14	1	18	6.000	64.748	2	1		3	1.000	10.791
Wandesia sp.				0	0.000	0.000				0	0.000	0.000
Oribatei				0	0.000	0.000	1			1	0.333	3.597
				0	0.000	0.000				0	0.000	0.000
COPEPODA				0	0.000	0.000				0	0.000	0.000
Cyclopoida		1		1	0.333	3.597				0	0.000	0.000
Harpacticoida		1	2	3	1.000	10.791	5	11	2	18	6.000	64.748
				0	0.000	0.000				0	0.000	0.000
OSTRACODA				0	0.000	0.000		2		2	0.667	7.194
				0	0.000	0.000				0	0.000	0.000
OLIGOCHAETA, Naididae				0	0.000	0.000				0	0.000	0.000
Nais (communis)		1		1	0.333	3.597				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
GASTROPODA				0	0.000	0.000				0	0.000	0.000
Limacidae		1		1	0.333	3.597				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
NEMATODA	3	5	6	14	4.667	50.360	3	25	8	36	12.000	129.496
				0	0.000	0.000				0	0.000	0.000
Turbellaria		7	2	9	3.000	32.374	6	2	1	9	3.000	32.374
				0	0.000	0.000				0	0.000	0.000
Tolerant Organisms				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Enchytraeidae	3	13	1	17	5.667	61.151	1	9	2	12	4.000	43.165
Lumbriculidae	7	45	7	59	19.667	212.230	552	222	255	1029	343.000	3701.439
Kincaidiana hexatheca				0	0.000	0.000	14	7	1	22	7.333	79.137
Tubificidae	4	71	6	81	27.000	291.367	1	1		2	0.667	7.194
	245	774	197	1214	404.7	4355.938	727	499	415	1623	541	5823.466

		sensitive =		226	18.62			sensitive =		344	21.2	
		facultat =		831	68.45			facultat =		214	13.19	
		tolerant =		157	12.93			*tolerant* =		1065	65.62	
0	0	0			-----		7.19	7.19	0		-----	
34	36	37			100		36	37	37		100	
155	385	281					446	619	237			
532	1518	295					46.8	68.3	277			
0	0	0					0	0	0			

Organisms	Station W8 (Upper Casino Creek, below Proctor Gulch confluence)						Station W9 (Dip Creek, above Casino Creek)					
	1	2	3	total	mean	N/m2	1	2	3	total	mean	N/m2
EPHEMEROPTERA	7	12		19	6.333	68.345				0	0.000	0.000
Ameletus sp	23	46	19	88	29.333	316.547		1		1	0.333	3.597
Baetis sp	34	39	12	85	28.333	305.755	1	1	1	3	1.000	10.791
Cinygmula sp				0	0.000	0.000	3	4	3	10	3.333	35.971
Ephemerella doddsi				0	0.000	0.000	5	1	5	11	3.667	39.568
Ephemerella grandis				0	0.000	0.000				0	0.000	0.000
Ephemerella infrequens				0	0.000	0.000				0	0.000	0.000
Ephemerella sp.				0	0.000	0.000				0	0.000	0.000
Epeorus albertae		1	1	2	0.667	7.194				0	0.000	0.000
Epeorus deceptivus				0	0.000	0.000				0	0.000	0.000
	8	15	7	30	10.000	107.914				0	0.000	0.000
PLECOPTERA, unid J/D	38	46	20	104	34.667	374.101	8	7	3	18	6.000	64.748
Capnia sp.				0	0.000	0.000	1	6	1	8	2.667	28.777
Cultus sp.		1	2	3	1.000	10.791				0	0.000	0.000
Podmosta sp.	2			2	0.667	7.194			1	1	0.333	3.597
Skwala (curvata)	3	2	1	6	2.000	21.583	1			1	0.333	3.597
Sweltsa sp. group				0	0.000	0.000	1	5	4	10	3.333	35.971
Utaperla sp.				0	0.000	0.000	2	1		3	1.000	10.791
Visoka cataractae	5	9	4	18	6.000	64.748				0	0.000	0.000
Zapada sp.				0								
				0								
TRICHOPTERA, unid J/D	3			3	1.000	10.791		1		1	0.333	3.597
Apatania sp.				0	0.000	0.000	4	8		12	4.000	43.165
Closoteca sp.	1	1		2	0.667	7.194				0	0.000	0.000
Eccliso myia sp.				0	0.000	0.000	2	4	1	7	2.333	25.180
Glosso ma sp.				0	0.000	0.000	1			1	0.333	3.597
				0	0.000	0.000				0	0.000	0.000
Facultative Organis ms				0								
				0								
				0	0.000	0.000				0	0.000	0.000
DIPTERA unid Adult	3	7	5	15	5.000	53.957				0	0.000	0.000
Chironomidae, unid Juv/	1			1	0.333	3.597	21	20	8	49	16.333	176.259
Chironomidae pupae			1	1	0.333	3.597	6	3	1	10	3.333	35.971
Chironomidae adult				0	0.000	0.000	2	2	4	8	2.667	28.777
S.F. Chironominae				0	0.000	0.000				0	0.000	0.000
Micropsectra sp.				0	0.000	0.000	1			1	0.333	3.597
S.F. Diamesinae				0	0.000	0.000				0	0.000	0.000
Boreoheptagya sp.			71	71	23.667	255.396				0	0.000	0.000
Monodiamesa sp.				0	0.000	0.000				0	0.000	0.000
Pseudokeifferiella sp.				0	0.000	0.000				0	0.000	0.000
S.F. Orthocladiinae				0	0.000	0.000				0	0.000	0.000
Brillia sp.				0	0.000	0.000				0	0.000	0.000
Cardiocladius sp.	1			1	0.333	3.597	33	39	22	94	31.333	338.129
Corynoneura sp.				0	0.000	0.000	1	2		3	1.000	10.791
Cricotopus sp.	7	11		18	6.000	64.748	141	103	88	332	110.667	1194.245
Eukiefferiella sp.		1		1	0.333	3.597	10	10	4	24	8.000	86.331
Euryhapsis sp.	1			1	0.333	3.597				0	0.000	0.000
Heleniella sp.				0	0.000	0.000		2		2	0.667	7.194
Psectrocladius? sp.		9		9	3.000	32.374				0	0.000	0.000
Krenosmittia sp.				0	0.000	0.000				0	0.000	0.000
Rheocricotopus sp.				0	0.000	0.000				0	0.000	0.000
Synorthocladius sp.				0	0.000	0.000	20	18	4	42	14.000	151.079
Thienemanniella sp.				0	0.000	0.000	1		1	2	0.667	7.194
Ceratopogonidae	2	2		4	1.333	14.388				0	0.000	0.000
Culicoides sp.				0	0.000	0.000				0	0.000	0.000
Culicidae A				0	0.000	0.000	1			1	0.333	3.597

Empididae		1		1	0.333	3.597				0	0.000	0.000
Chelifera sp.	1			1	0.333	3.597		1	3	4	1.333	14.388
Clinocera sp.				0	0.000	0.000				0	0.000	0.000
Weidemannia sp.				0	0.000	0.000				0	0.000	0.000
Muscidae, unid J/D				0	0.000	0.000				0	0.000	0.000
Psychodidae		1		1	0.333	3.597				0	0.000	0.000
Pericoma sp.				0	0.000	0.000				0	0.000	0.000
Sciomyzidae ? L				0	0.000	0.000				0	0.000	0.000
Simulidae		1	1	2	0.667	7.194				0	0.000	0.000
Prosimulium sp.				0	0.000	0.000	1			1	0.333	3.597
Tipulidae unid J/D	1			1	0.333	3.597				0	0.000	0.000
Antocha spl	1	4	1	6	2.000	21.583				0	0.000	0.000
Dicranota sp.				0	0.000	0.000				0	0.000	0.000
Hexatoma sp.				0	0.000	0.000				0	0.000	0.000
Tipula sp.				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000					0.000	0.000
HOMOPTERA				0	0.000	0.000				0	0.000	0.000
Aphididae				0	0.000	0.000		2		2	0.667	7.194
				0	0.000	0.000				0	0.000	0.000
Hymenoptera unid A				0	0.000	0.000				0	0.000	0.000
Formicidae				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Lepidoptera unid L				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Collembola				0	0.000	0.000				0	0.000	0.000
Bourletiella spinata			1	1	0.333	3.597				0	0.000	0.000
Hypogastrura sp.		10		10	3.333	35.971				0	0.000	0.000
Isotoma sp.				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Arachnida				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
Hydracarina unid J				0	0.000	0.000	1	1		2	0.667	7.194
Kerendowskia sp.				0	0.000	0.000				0	0.000	0.000
Lebertia sp.				0	0.000	0.000				0	0.000	0.000
Sperchon sp.	2	1		3	1.000	10.791				0	0.000	0.000
Torrenticola sp.				0	0.000	0.000	1		1	2	0.667	7.194
Wandesia sp.	1			1	0.333	3.597				0	0.000	0.000
Oribatei				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
COPEPODA				0	0.000	0.000				0	0.000	0.000
Cyclopoida	5	11	2	18	6.000	64.748	1			1	0.333	3.597
Harpacticoida				0	0.000	0.000	1			1	0.333	3.597
		2		2	0.667	7.194				0	0.000	0.000
OSTRACODA				0	0.000	0.000		2		2	0.667	7.194
				0	0.000	0.000				0	0.000	0.000
OLIGOCHAETA, Naidida				0	0.000	0.000				0	0.000	0.000
Nais (communis)				0	0.000	0.000				0	0.000	0.000
				0	0.000	0.000				0	0.000	0.000
GASTROPODA				0	0.000	0.000				0	0.000	0.000
Limacidae				0	0.000	0.000				0	0.000	0.000
	3	25	8	36	12.000	129.496				0	0.000	0.000
NEMATODA				0	0.000	0.000	3	4	4	11	3.667	39.568
	6	2	1	9	3.000	32.374				0	0.000	0.000
Turbellaria				0	0.000	0.000		1		1	0.333	3.597
				0	0.000	0.000				0	0.000	0.000
Tolerant Organisms				0	0.000	0.000				0	0.000	0.000
										0	0.000	0.000
Enchytraeidae	1	9	2	12	4.000	43.165	7	6	9	22	7.333	79.137
Lumbriculidae	552	222	255	1029	343.000	3701.439	2	8	19	29	9.667	104.317
Kincaidiana hexatheca	14	7	1	22	7.333	79.137				0	0.000	0.000
Tubificidae	1	1		2	0.667	7.194	1	6	8	15	5.000	53.957
	727	499	415	1641	547	5888.052	284	269	195	748	249.3	2683.889
				sensitive =	362	22.06				sensitive =	87	11.63
				facultat =	214	13.04				facultat =	595	79.55
				tolerant =	1065	64.9				tolerant =	66	8.824
	7.19	7.19	0		-----		0	0	0		-----	
	36	37	37		100		37	38	37		100	
	446	619	237				104	140	68.3			
	46.8	68.3	277				773	651	457			
	0	0	0				0	0	0			
		0	0									

Pacific Sentinel Gold Corp.
Casino Project

Table 13
Periphyton Species Relative Abundance
(August 1993)

ORDER Genus/Species	SAMPLING SITE																							
	1						2						3						4					
	Replicate #						Replicate #						Replicate #						Replicate #					
	1	2	3	4	5		1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
CHRYSOPHYCEAE																								
Hydrurus foetidus (Vill.) Trev.																								
RHODOPHYCEAE																								
Audouinella violacea (Kuetz.) Hamel.		o					o			o			o			o				o	o	o	o	o
Batrachospermum sp.		o	o																	o				
CYANOPHYCEAE																								
Anabaena sp. (3 um dia)																			o					
Chamaesiphon curvatus Nordstedt																								
Chamaesiphon incrustans Grunow		o			o			o	o		o		o	o	o	XXX	OO	OO	o					
Gomphosphaeria lacustris Chodat		o																						
Lyngbya digueti Gomont	o	o	o		o		o	o	o	o	o	o	XXX	XXX	o	OO	OO	o	o		o	o	o	o
Oscillatoria sp. (3 um dia.)							o	o																
Phormidium sp.	o		o		o					o	o		o	o			o		o	o	o			
Rivularia sp. (2 um dia.)			o				o	o				o	OO	XXX		OO								o
CHLOROPHYCEAE																								
Closterium spp.		o																	o					
Cosmarium spp.																								
Mougeotia sp.																					o			
Stigeoclonium sp.																					o			o
Ulothrix sp. (4 um dia.)		o			o																			
Ulothrix tenerrima Kuetzing																			o	o	o	o		
Ulothrix zonata (Weber & Mohr) Keutzing																								
CRYPTOPHYCEAE																								
Cryptomonas sp.																						o		
unidentified cells in mucilage										o														
unidentified cysts in mucilage													o	o	XXX	OO	o	OO						
unidentified palmelloid green																						o		
Dominant	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Common	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO
Present	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Not Present																								

ORDER Genus/Species	SAMPLING SITE																							
	1						2						3						4					
	Replicate #						Replicate #						Replicate #						Replicate #					
	1	2	3	4	5		1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
BACILLARIOPHYCEAE																								
Achnanthes spp.	o		o	o	o		XXX	o	o	o	o	XXX	o	o	o	OO	OO	OO	o		o		o	
Achnanthes minutissima Kuetzing	XXX	XXX	XXX	OO	XXX		o	o	o	o	o	XXX	o	o	o	o	o	o	o	o	o	OO	o	OO
Caloneis spp.																								
Caloneis ventricosa (Ehr.) Meist.																								
Cocconeis placentula Ehr.		o						o	o	o	o	o						o						
Cymbella spp.	o	o	o	o	o		o	o	o	o	o	o		o	o	o	o	o	o	o		o		o
Cymbella cistula (Ehr.) Kirchn.																								o
Cymbella minuta Hilse ex Rabh.	o	o																	o	o	o		o	
Cymbella sinuata Greg.		o							o	o		o				o	o	o	o					
Cymbella tumida (Breb. ex Kuetz.) V. H.	o	OO	OO	o	o					o		o		o		o	o	o				o		o
Diatoma hiemale var. *mesodon* (Ehr.) Grun.		o		o									o	o			o							o
Diatoma tenue Ag.	OO	OO	XXX	XXX	o					OO	o					o	o	o	XXX	XXX	XXX	XXX	XXX	XXX
Didymosphenia geminata (Lyngb.) Schmidt	o	XXX	OO		OO			o		o						o	o		o					
Diploneis sp.																o								
Eunotia spp.		o								o							o							
Eunotia incisa W. Smith ex Greg.		o						o																
Fragilaria capucina Desm.		o	o	o	o																	o		
Fragilaria construens (Ehr.) Grun.																o			o					
Gomphonema sp. (20 um)		o			OO		o		o	o	o	OO		o	o	o	OO	o				o	o	
Gomphonema sp. (38 um)	o	OO		OO	OO				o	o	o	OO												
Gomphonema sp. (45 um)								o	o	o	o													
Gomphonema c.f. affine																								
Gomphonema angustatum (Kuetz.) Rabh.	XXX	OO	OO	XXX	XXX		o	XXX	o	OO	o	XXX	o	o	o	o	OO	o	o	o	o	o	o	o
Gomphonema brebissonii Kuetz.					o																		o	
Hannaea arcus (Ehr.) Patr.		OO	o	o	OO		o	o	OO	OO	o	o	o	o	o	o	XXX	OO	OO	o	o	o	o	o
Dominant	XXX	XXX	XXX	XXX	XXX		XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Common	OO	OO	OO	OO	OO		OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO
Present	o	o	o	o	o		o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Not Present																								

ORDER Genus/Species	SAMPLING SITE																							
	1					2						3						4						
	Replicate #					Replicate #						Replicate #						Replicate #						
	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
BACILLARIOPHYCEAE (continued)																							
Melosira varians C. A. Ag.	o			o																			
Meridion circulare (Grev.) Ag.	o	o	o	o	o		o	o	o	o	o	o		o	o	o	o	o	o	o	o	o	
Navicula spp.	o	o	o	o	o	o	o	o	o	o	o		o			o	o	o	o		o	o	o
Navicula cryptocephala Kuetz.		o								o							o						
Navicula lanceolata (Ag.) Kuetz.	o		o	o	o	o	o	o								o		o			o		o
Nitzschia spp.	o	o		o	o			o	o	o					o			o	o	o	o	o	o
Nitzschia sp. (20 um)																				OO			
Nitzschia sp. (35 um)																		OO	OO	OO			
Nitzschia sigmoidea (Ehr.) W. Smith	o	o		o																			
Pinnularia spp.									OO	o					o	o	o	o	o				
Synedra sp.																		XXX	XXX	XXX	OO	XXX	XXX
Synedra acus Kuetz.	o	o	o	o																			o
Synedra rumpens Kuetz.	OO	OO	o	o	o	o		o	OO	OO	o		o	o	o	OO	OO	OO	OO	OO	OO	OO	XXX
Synedra rumpens var. *fragilarioides* Grun.		o			o							o											
Synedra ulna (Nitz.) Ehr.		o	o	o	o						o	o						o	o	o			o
Tabellaria fenestrata (Lyngb.) Kuetz.				o	o		o		o								o						
Tabellaria flocculosa (Roth) Kuetz.			o								o												
Dominant	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Common	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO
Present	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Not Present																							

Pacific Sentinel Gold Corp.
Casino Project

Table 13
Periphyton Species Relative Abundance/m
(August 1993)

ORDER Genus/Species	SAMPLING SITE																							
	5						7					8						9						
	Replicate #						Replicate #					Replicate #						Replicate #						
	1	2	3	4	5	6	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6
CHRYSOPHYCEAE																							
Hydrurus foetidus (Vill.) Trev.								o	o	o												o	o
RHODOPHYCEAE																							
Audouinella violacea (Kuetz.) Hamel.	XXX	OO	o	o	XXX	o												XXX	o	OO	OO	OO	OO
Batrachospermum sp.																							
CYANOPHYCEAE																							
Anabaena sp. (3 um dia)						o																	
Chamaesiphon curvatus Nordstedt																			o				
Chamaesiphon incrustans Grunow							XXX	XXX	XXX	XXX	XXX							o				o	OO
Gomphosphaeria lacustris Chodat																							
Lyngbya digeutii Gomont	o	o	o	o	o	o	o	o	o	o	o							o	o	o	o	o	o
Oscillatoria sp. (3 um dia.)																							
Phormidium sp.		o		o					OO	o													
Rivularia sp. (2 um dia)					o													o	o	o	o	o	OO
CHLOROPHYCEAE																							
Closterium spp.		o	o	o		o														o	o		
Cosmarium spp.					o																		
Mougeotia sp.				o		o																	
Stigeoclonium sp.																							
Ulothrix sp. (4 um dia.)																							
Ulothrix tenerrima Kuetzing																							
Ulothrix zonata (Weber & Mohr) Keutzing		o	o	o		o																	
CRYPTOPHYCEAE																							
Cryptomonas sp.																							
unidentified cells in mucilage																							
unidentified cysts in mucilage	o																						
unidentified palmelloid green																							
Dominant	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Common	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO
Present	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Not Present																							

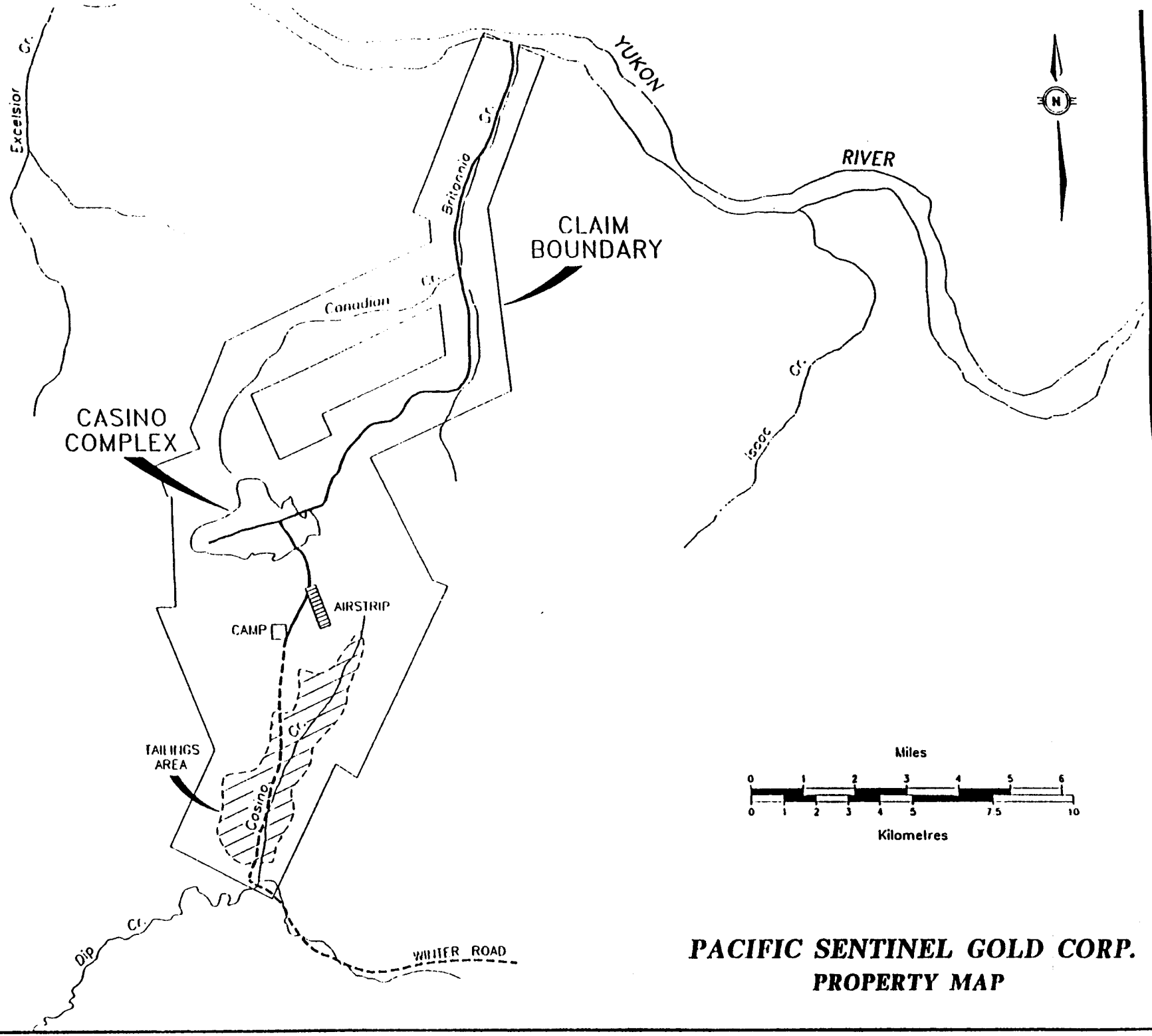
ORDER Genus/Species	SAMPLING SITE																							
	5						7					8						9						
	Replicate #						Replicate #					Replicate #						Replicate #						
	1	2	3	4	5	6	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6
BACILLARIOPHYCEAE																							
Achnanthes spp.	o	o	o	o	o	o		o													o		o
Achnanthes minutissima Kuetzing	OO	OO	OO	OO	OO	OO	o	o	o	o	o							OO	OO	OO	OO	OO	OO
Caloneis spp.																							
Caloneis ventricosa (Ehr.) Meist.									o									o					
Cocconeis placentula Ehr.			o	o																			
Cymbella spp.	o	o	o	o	o	o			o	o								o	o	o	o	o	o
Cymbella cistula (Ehr.) Kirchn.		o	o	o																			
Cymbella minuta Hilse ex Rabh.		o	o	o	o	o	o			o									o	o	o		o
Cymbella sinuata Greg.										o												o	
Cymbella tumida (Breb. ex Kuetz.) V. H.		o	o	o		o																	
Diatoma hiemale var. *mesodon* (Ehr.) Grun.	o		o	o		o	o	o	o	o	o								o	o	o		o
Diatoma tenue Ag.	XXX	XXX	XXX	XXX	XXX	XXX	o		o		o							OO	OO	OO	OO	OO	OO
Didymosphenia geminata (Lyngb.) Schmidt	o	o	o			o																	
Diploneis sp.																							
Eunotia spp.											o											o	
Eunotia incisa W. Smith ex Greg.							o			o													
Fragilaria capucina Desm.	o	OO	XXX	XXX	o	XXX	o			o								OO	XXX	XXX	XXX	OO	XXX
Fragilaria construens (Ehr.) Grun.																							
Gomphonema sp. (20 um)			o		o	o				o												o	
Gomphonema sp. (38 um)																							
Gomphonema sp. (45 um)																				o	o		o
Gomphonema c.f. affine			o																				
Gomphonema angustatum (Kuetz.) Rabh.	o	o	o	o	o	o				o	o							o	o	o	o	OO	OO
Gomphonema brebissonii Kuetz.		o																					
Hannaea arcus (Ehr.) Patr.	o	o	OO	OO	o	o	o	o	o	o	o							o	OO	o	OO	o	OO
Dominant	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Common	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO
Present	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Not Present																							

ORDER Genus/Species	SAMPLING SITE																							
	5						7					8						9						
	Replicate #						Replicate #					Replicate #						Replicate #						
	1	2	3	4	5	1	2	3	4	5	6	1	2	3	4	5	6	1	2	3	4	5	6
BACILLARIOPHYCEAE (continued)																							
Melosira varians C. A. Ag.		o																					
Meridion circulare (Grev.) Ag.		o	o	o	o			o		o								o	o	o	o	o	o
Navicula spp.	o	o	o	o	o	o			o		o							o	o	o	o	o	
Navicula cryptocephala Kuetz.		o	o	o		o		o		o								o	o	o	o	o	o
Navicula lanceolata (Ag.) Kuetz.			o		o	o																o	
Nitzschia spp.			o	o	o																		
Nitzschia sp. (20 um)									o											OO			
Nitzschia sp. (35 um)			OO			OO												o	o	o	o	o	
Nitzschia sigmoidea (Ehr.) W. Smith																							
Pinnularia spp.				o						o	o												
Synedra sp.	OO	o	o		XXX	o			o									o	o	o			o
Synedra acus Kuetz.	o	o	o	o	o	o												o		o			
Synedra rumpens Kuetz.	OO	XXX	XXX	OO	OO	OO	o	o	o	o	o							OO	OO	OO	OO	OO	o
Synedra rumpens var. *fragilarioides* Grun.	o																						
Synedra ulna (Nitz.) Ehr.	o	o	o	o		o				o									o	o		o	
Tabellaria fenestrata (Lyngb.) Kuetz.									o	o											o		
Tabellaria flocculosa (Roth) Kuetz.				o				o															
Dominant	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Common	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO	OO
Present	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Not Present																							

Pacific Sentinel Gold Corporation
Casino Project

Table 14
Chlorophyll "a" Content of Periphyton
(ug/cm^2)

Replicate	Site W1	Site W2	Site W3	Site W4	Site W5	Site W7	Site W8	Site W9
1	0.122	0.040	0.205	0.209	0.028	0.041	0.019	0.049
2	0.034	0.017	0.631	0.160	0.045	0.021	0.008	0.235
3	0.156	0.021	0.083	0.288	0.017	0.008	0.075	0.043
4	0.145	0.105	0.089	0.023	0.205	0.017	0.023	0.008
5	0.147	0.149	0.264	0.098	0.369	0.060	0.008	0.254
6	0.109	0.041	0.143	0.008	0.040	0.066	0.013	0.030
Mean	**0.119**	**0.062**	**0.236**	**0.131**	**0.117**	**0.035**	**0.024**	**0.103**
S.D.	**0.045**	**0.053**	**0.206**	**0.109**	**0.142**	**0.024**	**0.026**	**0.111**



PACIFIC SENTINEL GOLD CORP.

PROPERTY MAP

Figure 2

Casino Project

Mean Monthly Temperature

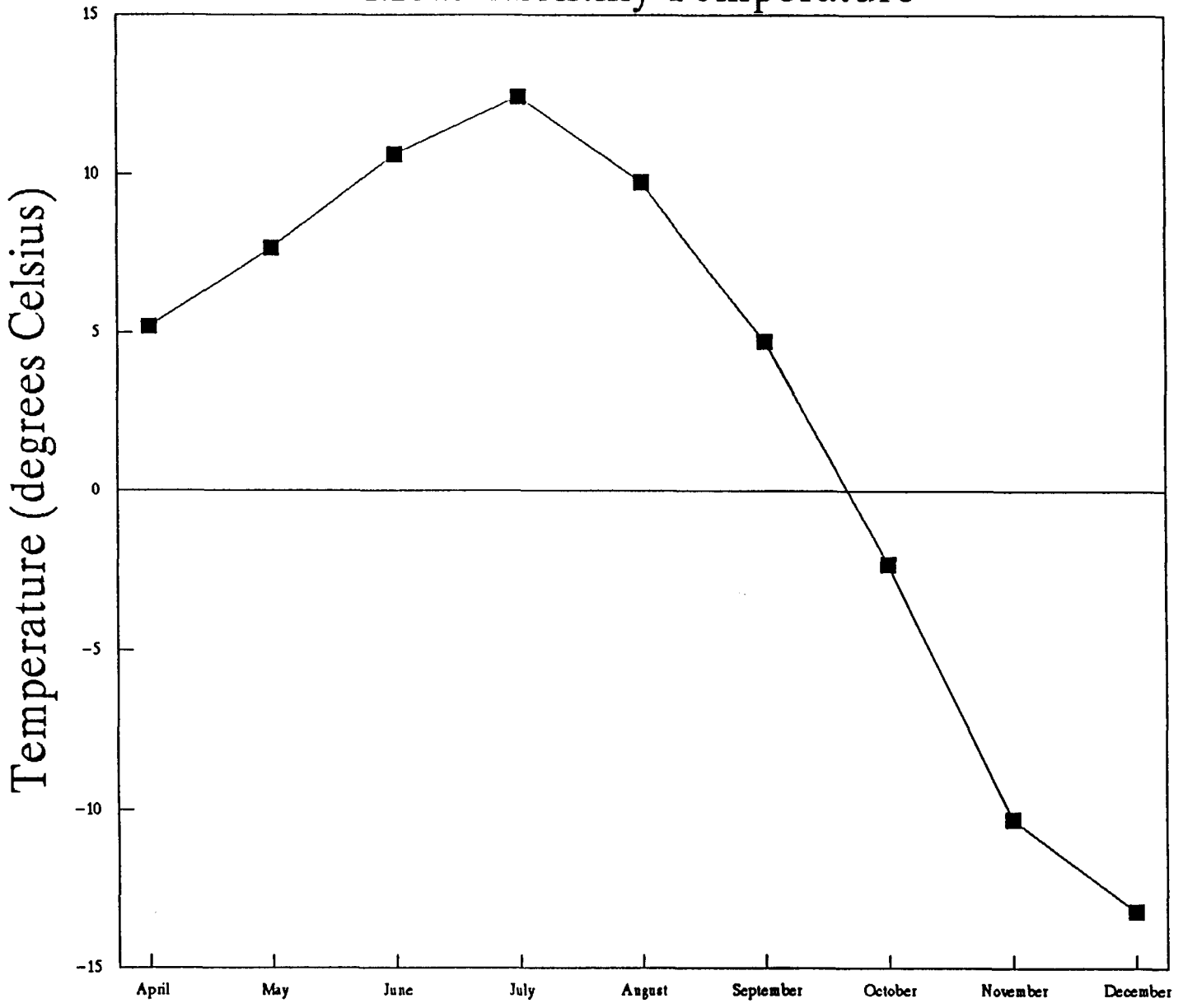


Figure 3

Casino Project

Monthly Cumulative Precipitation

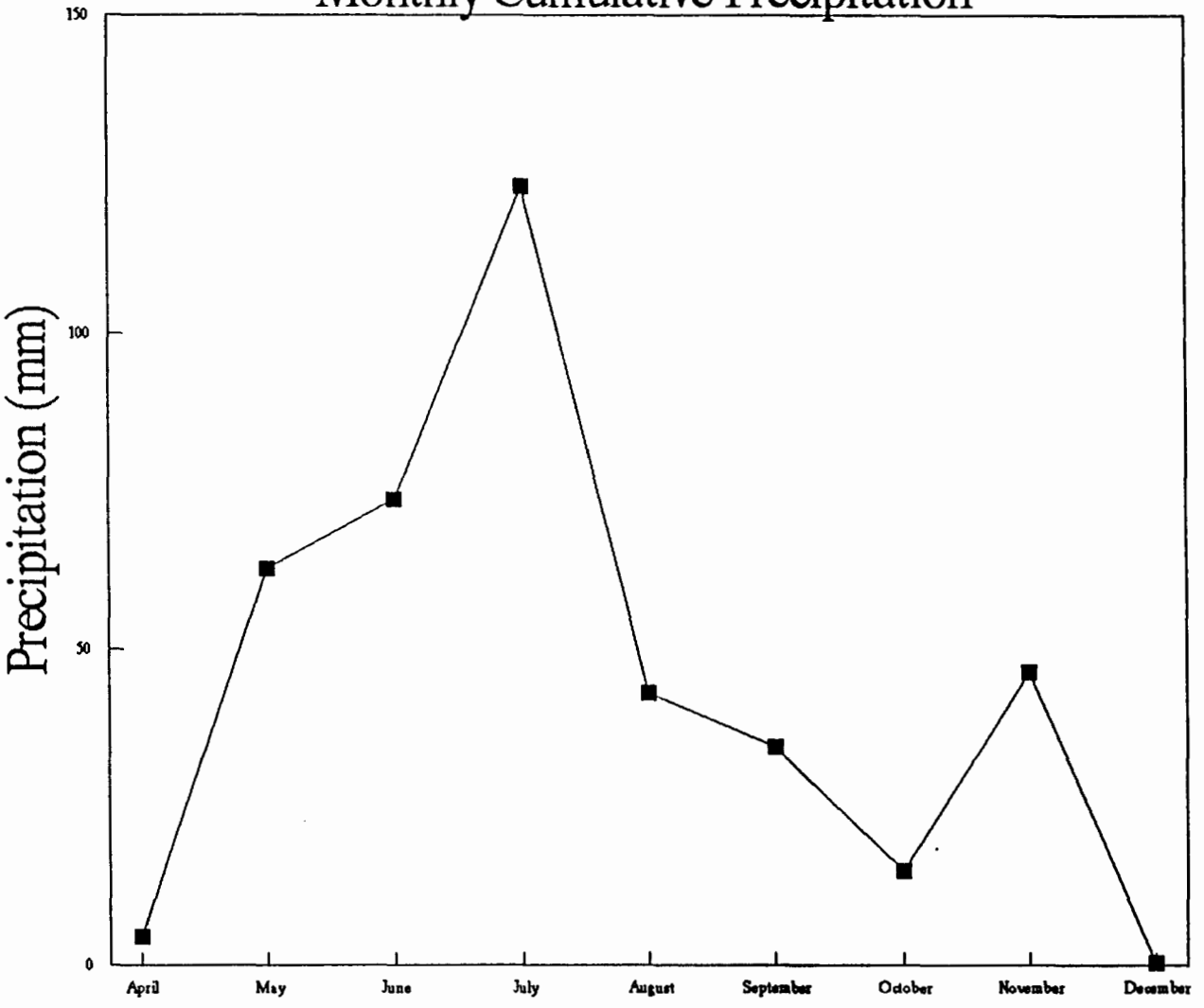


Figure 4

Casino Project
H1 Water Level

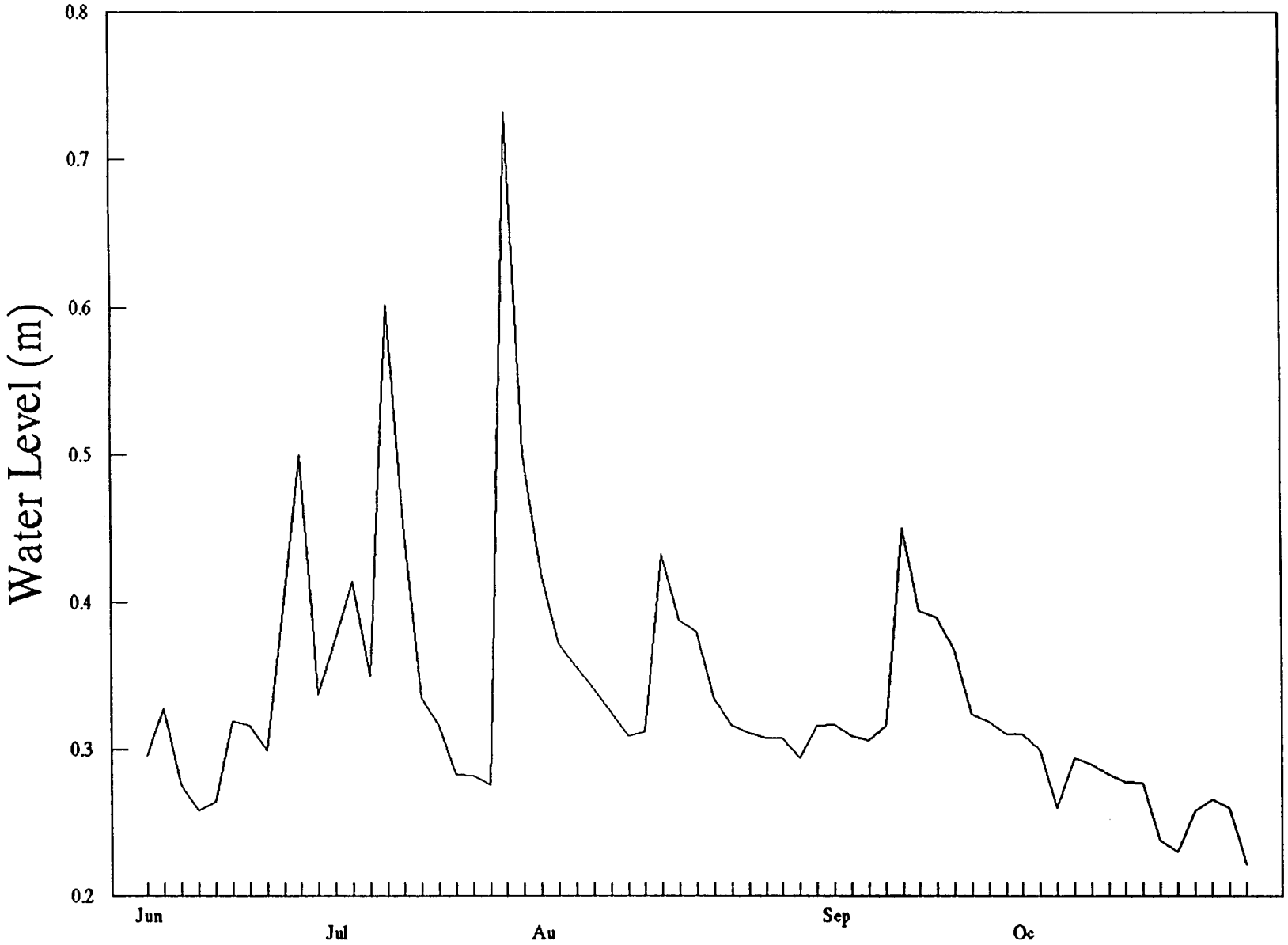


Figure 5

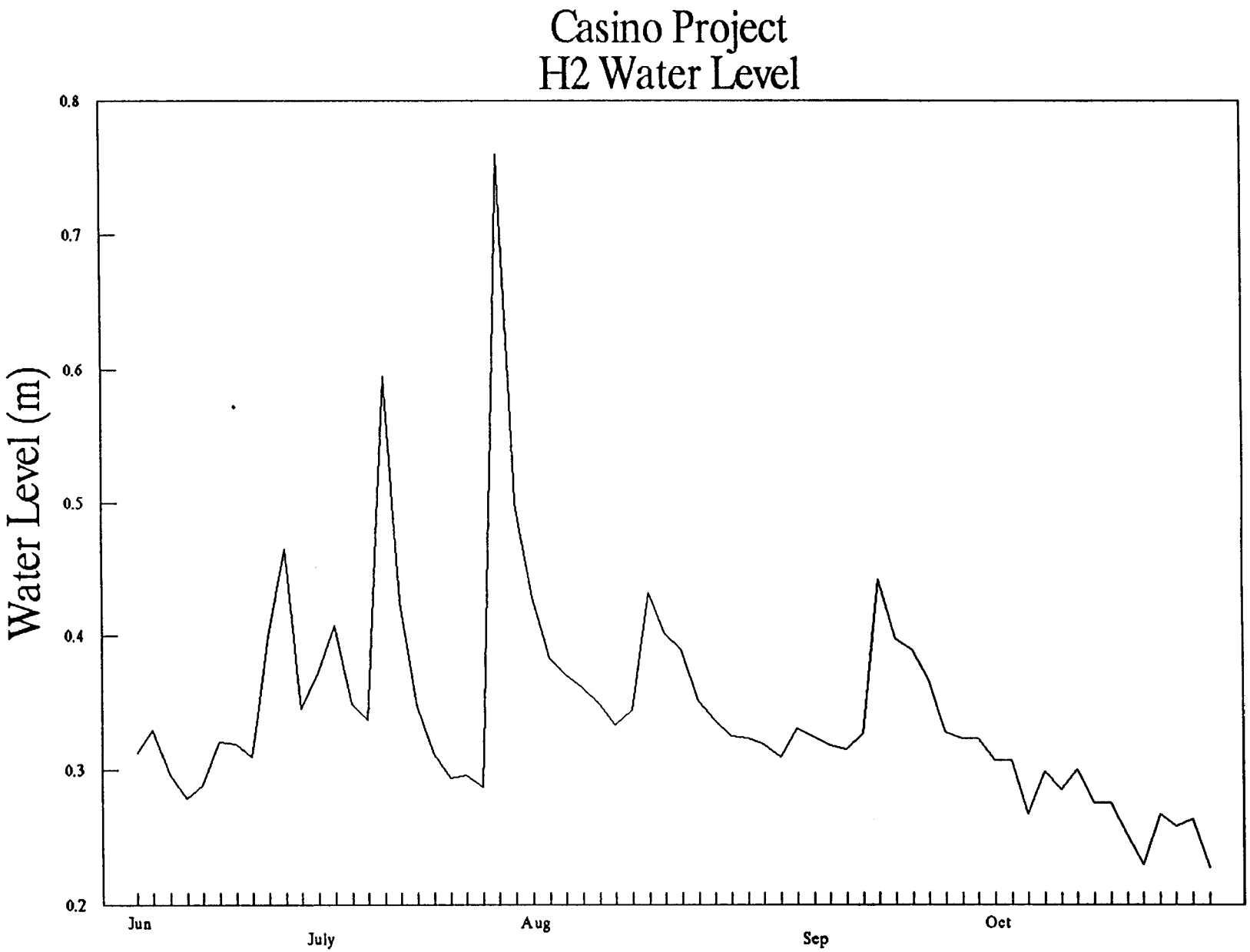

Casino Project
H2 Water Level
Water Level (m)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
Jun
July
Aug
Sep
Oct

Figure 6

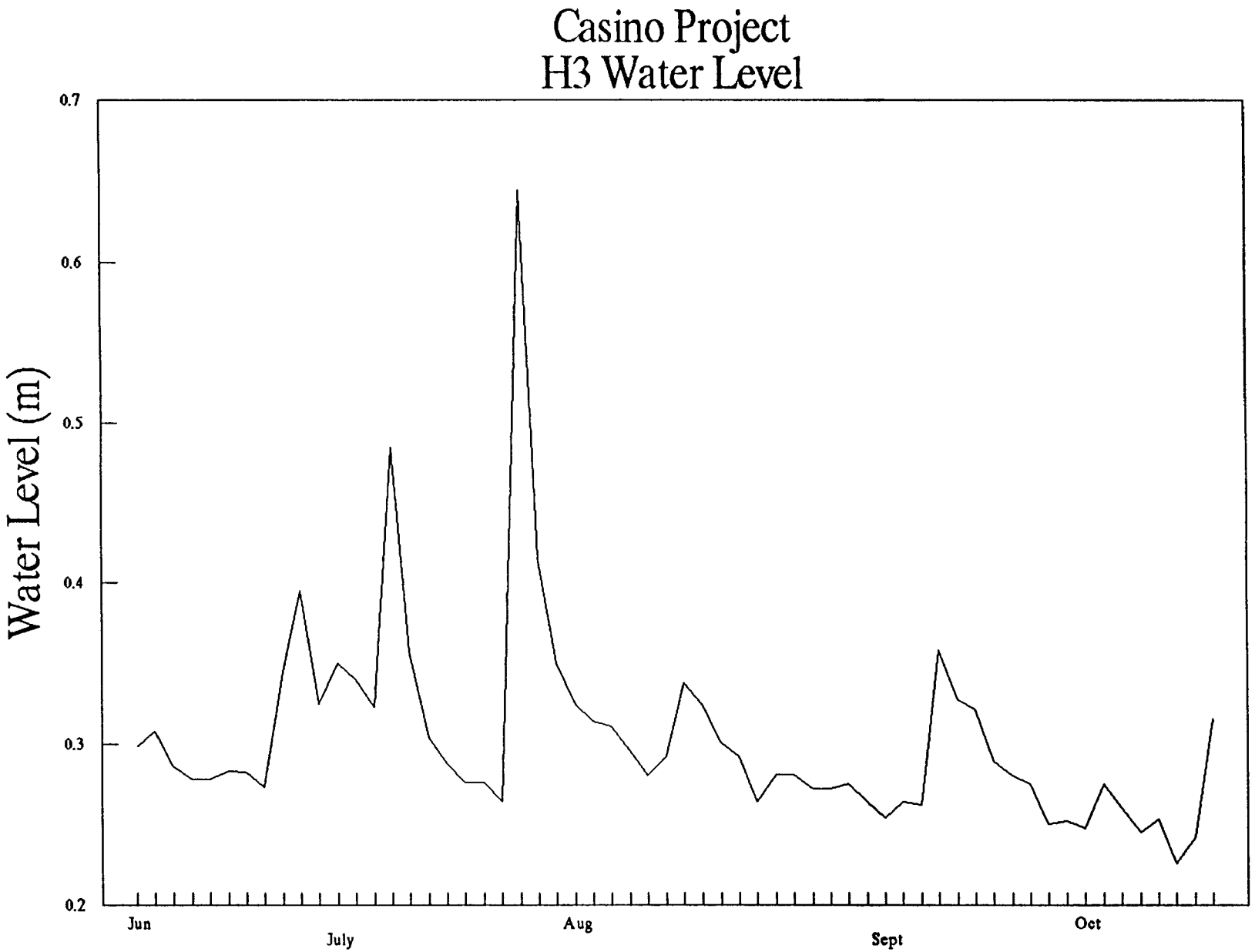

Casino Project
H3 Water Level
Water Level (m)
0.7
0.6
0.5
0.4
0.3
0.2
Jun
July
Aug
Sept
Oct

Figure 7

Casino Project
H4 Water Level

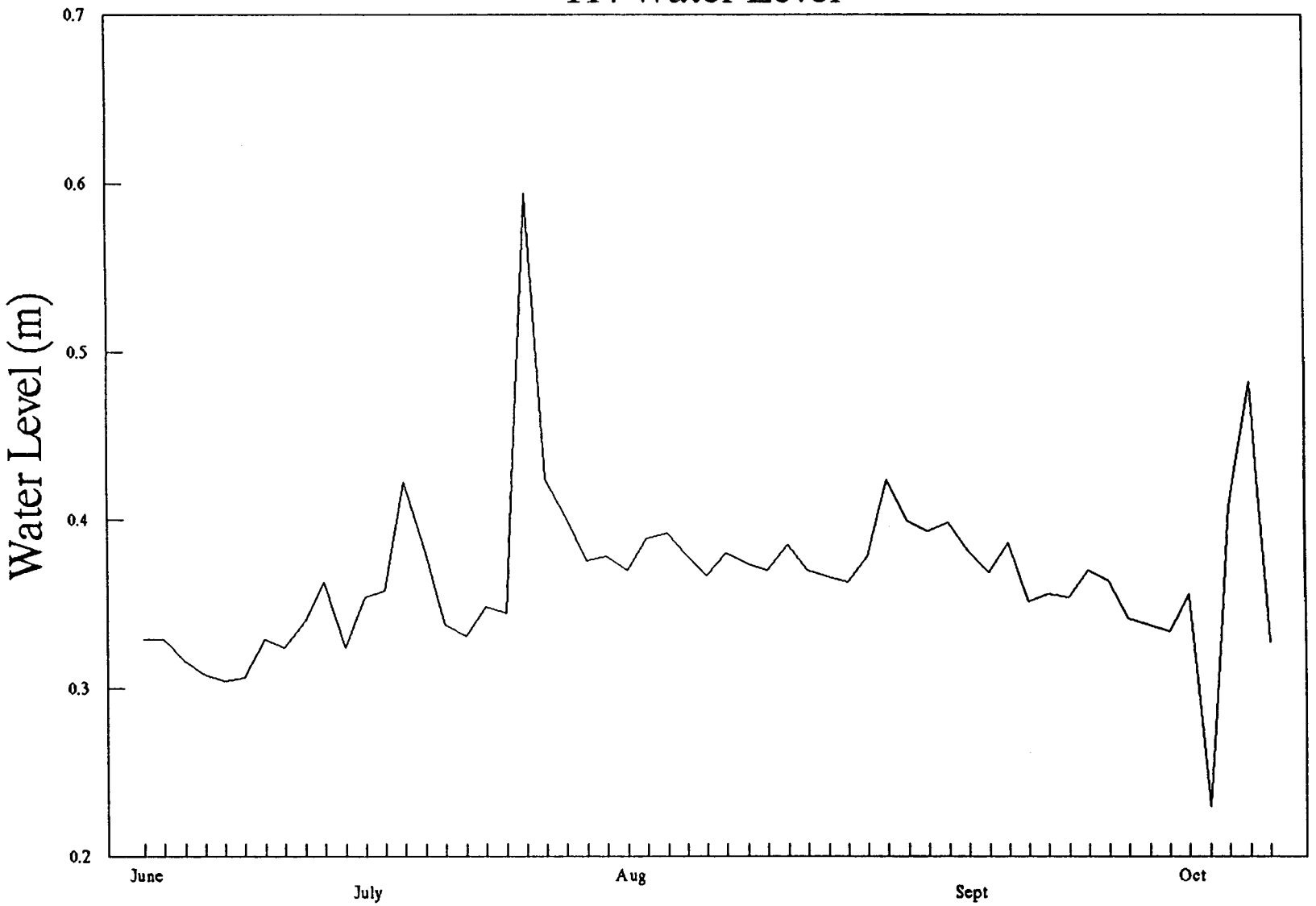
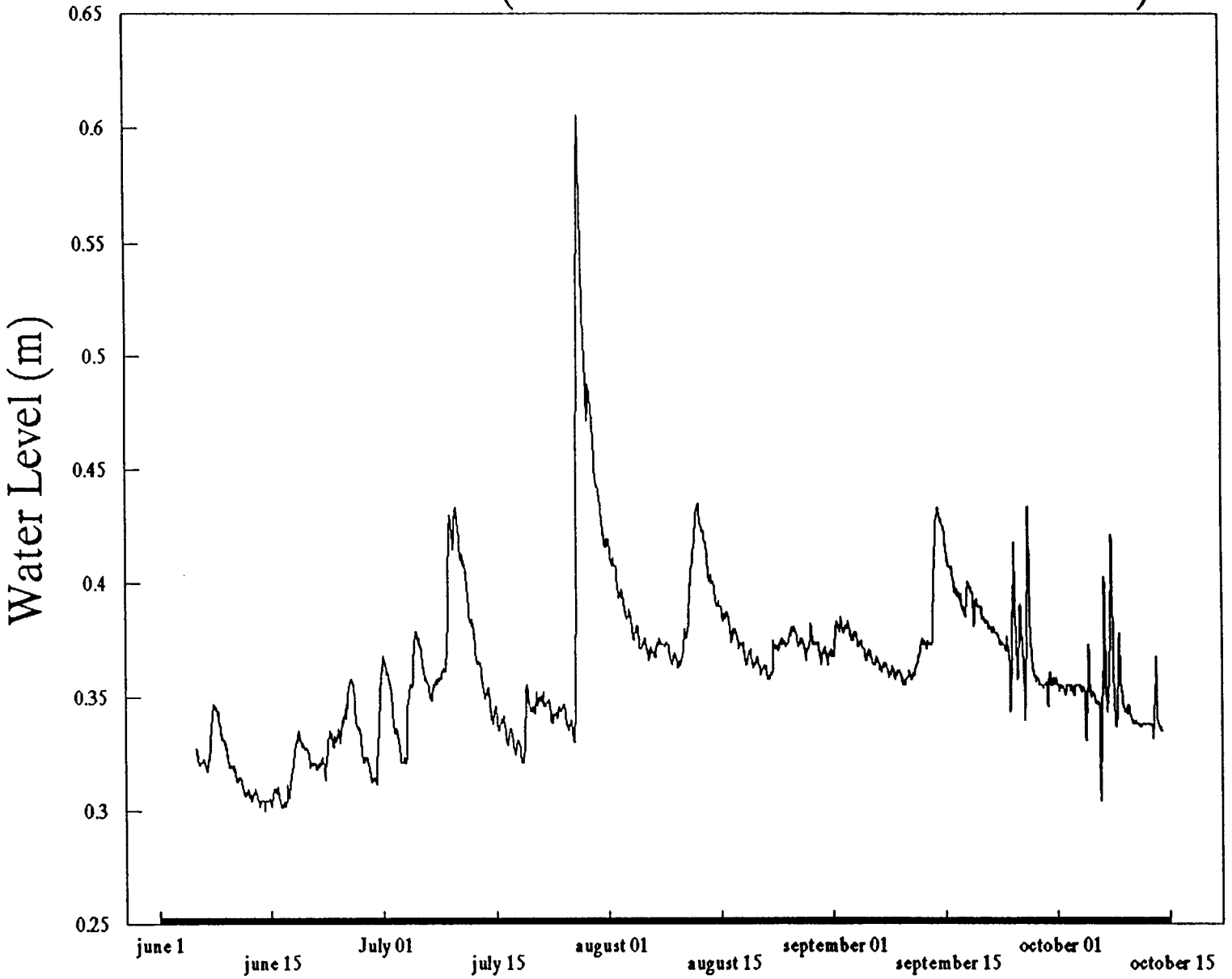


Figure 8

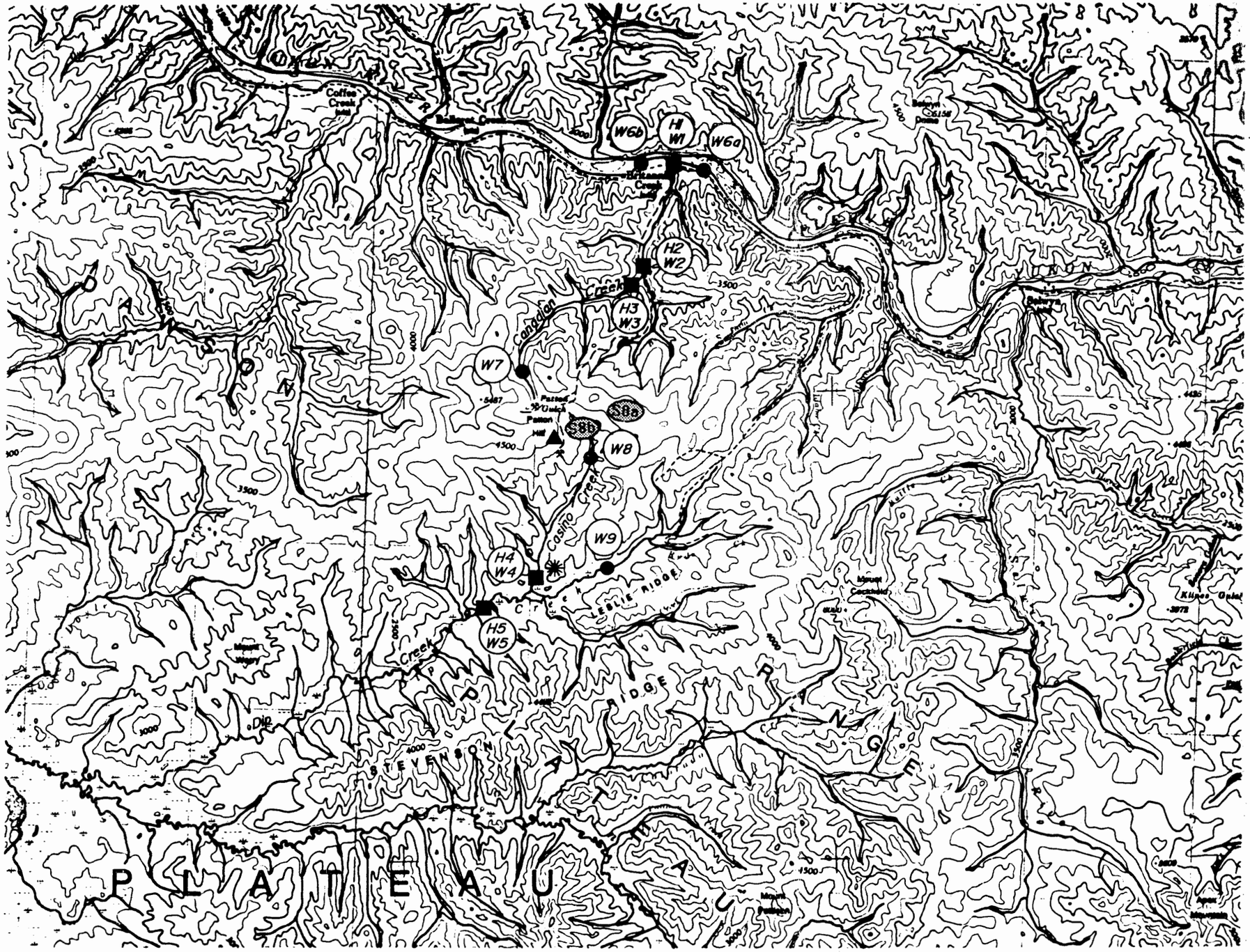
Casino Project
H4 Water Level (Automatic Water Level Recorder)



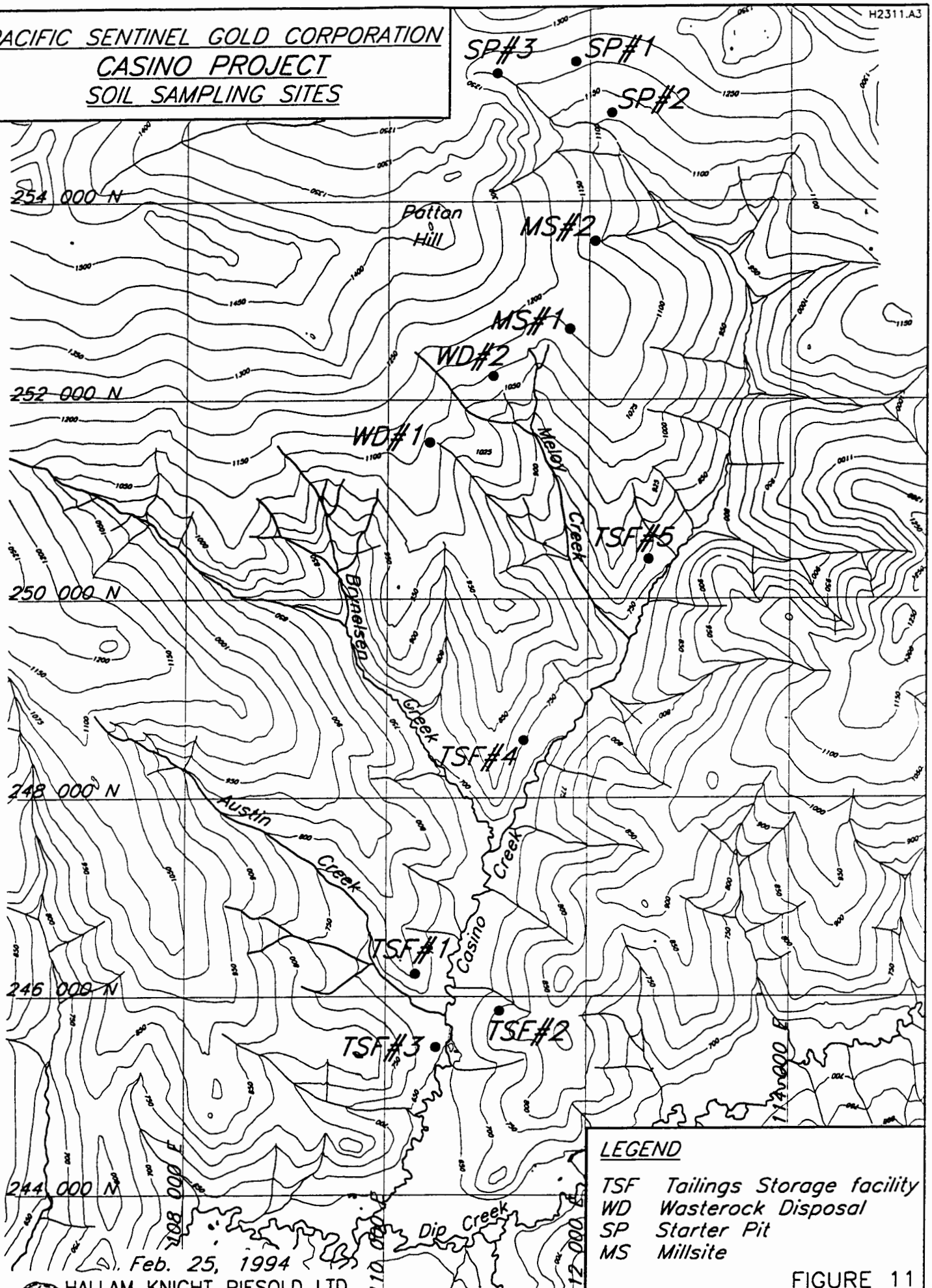
H2311.83

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

WATER QUALITY, HYDROLOGY AND METEOROLOGICAL STATIONS


Coffee Creek
Britannia Creek
Canadian Creek
Casino Creek
Dip Creek
Stevenson Ridge
Mount Cockscomb
Mount Hungabee
Mount Patterson
Mount Logan
Mount Vancouver
Mount Lucania
Mount Steele
Mount Wood
Mount Kennedy
Mount Hubbard
Mount Alverstone
Mount Fairweather
Mount Saint Elias
Mount Augusta
Mount Queen Elizabeth
Mount Queen Mary
Mount King George VI
Mount Slaggard
Mount Walsh

PACIFIC SENTINEL GOLD CORPORATION
CASINO PROJECT
SOIL SAMPLING SITES



LEGEND

TSF	Tailings Storage facility
WD	Wasterock Disposal
SP	Starter Pit
MS	Millsite

Feb. 25, 1994

HALLAM KNIGHT PIESOLD LTD.
ENVIRONMENTAL CONSULTANTS

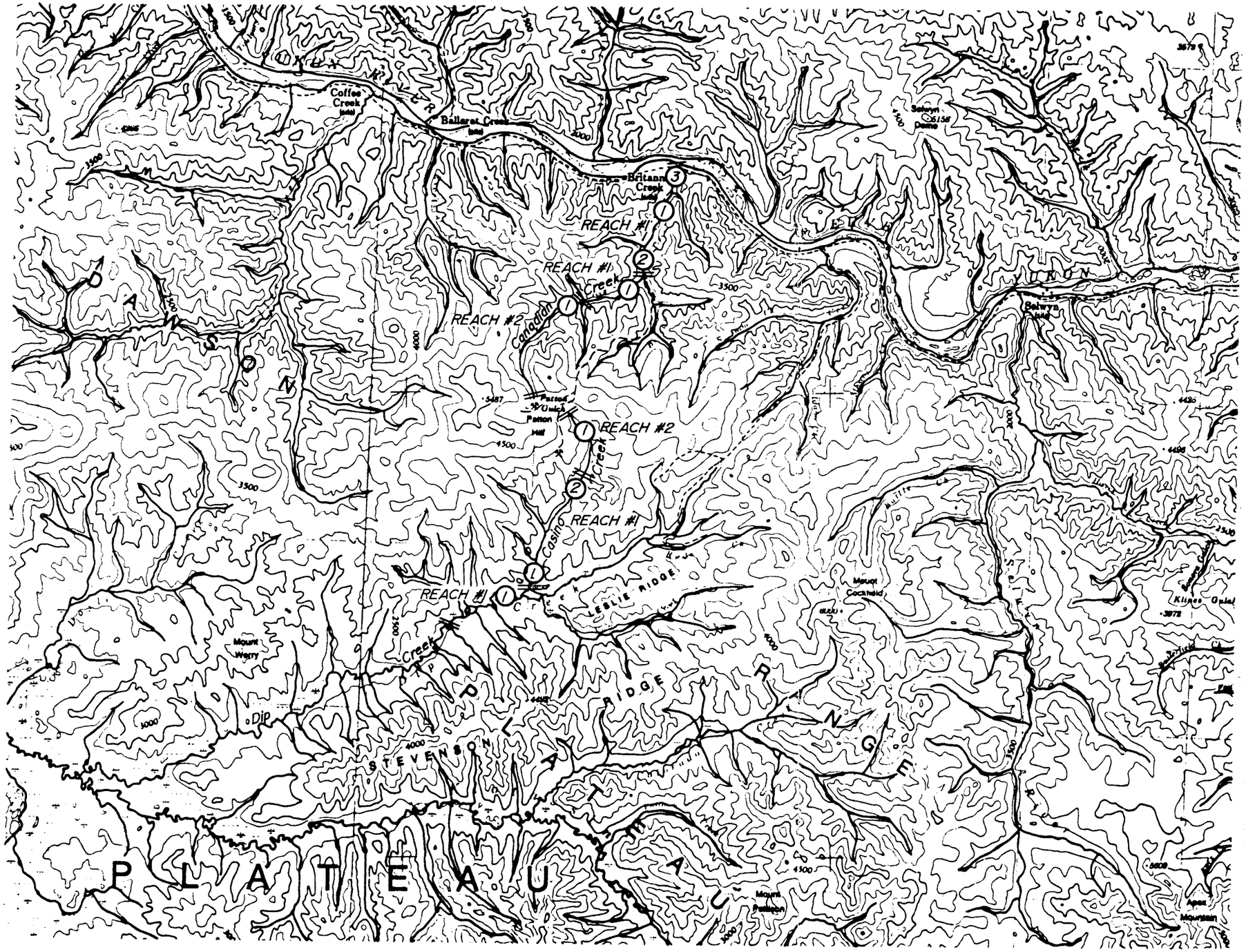
FIGURE 11

CAD FILE: \PROJECT\1000\H2311\FIG\A3 Plot scale 1=50

H2311.B4

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

FISHERIES STUDY SITES



LEGEND

② Sample Site

═ Reach Break

Scale: 1:250 000

Miles 5 0 5 10

Kilometres 5 0 5 10 15

September 1993

HALLAM KNIGHT PIESOLD LTD.
ENVIRONMENTAL CONSULTANTS

FIGURE 12

APPENDIX VI

DRILL SURVEY DATA AND CASING DATA

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
92-123	11630.62	54955.05	1160.99	452.43				11.58	11.58
					0.00	0.0	-90.0		
					306.63	15.8	-88.8		
					452.93	36.8	-88.8		
92-124	11621.97	54870.09	1150.51	485.24				13.41	13.41
					0.00	0.0	-90.0		
					306.93	28.8	-89.0		
					459.33	20.8	-89.0		
92-125	11256.87	54973.24	1242.51	558.39				7.92	0.00
					0.00	0.0	-90.0		
					306.93	185.8	-89.8		
					456.29	323.8	-89.3		
					556.87	352.8	-89.5		
92-126	11181.76	54880.76	1314.62	596.49				6.10	0.00
					0.00	0.0	-90.0		
					306.93	35.8	-89.0		
					459.33	28.8	-88.5		
					596.49	31.8	-88.5		
92-127	11098.06	54969.57	1310.88	402.34				6.71	0.00
					0.00	0.0	-90.0		
					304.80	271.8	-89.0		
92-128	11103.03	54890.45	1336.40	535.53				4.88	0.00
					0.00	0.0	-90.0		
					306.93	1.8	-89.0		
					486.77	61.8	-89.3		
92-129	11263.25	55044.24	1220.29	514.50				18.29	0.00
					0.00	0.0	-90.0		
					457.20	276.8	-88.5		
92-130	11457.80	54960.74	1172.77	140.36					
					0.00	0.0	-90.0		
92-131	11022.65	55052.23	1284.83	361.49				3.66	0.00
					0.00	0.0	-90.0		
					306.93	73.8	-89.7		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
92-132	11102.22	54810.34	1359.62	481.28				7.92	7.92
					0.00	0.0	-90.0		
					457.20	352.8	-88.8		
92-133	11015.22	54724.29	1353.26	475.49				3.05	0.00
					0.00	0.0	-90.0		
					304.80	155.8	-89.2		
					455.98	77.8	-89.5		
92-134	10930.64	54637.62	1343.33	569.06				6.10	0.00
					0.00	0.0	-90.0		
					303.89	57.8	-89.0		
					459.33	81.8	-89.2		
92-135	10745.43	54386.60	1374.95	407.52				2.44	0.00
					0.00	0.0	-90.0		
					407.52	35.8	-89.0		
92-136	11008.90	54539.54	1373.94	648.31				7.32	0.00
					0.00	0.0	-90.0		
					304.80	306.8	-87.8		
					459.33	293.8	-89.4		
					648.31	320.8	-87.0		
92-137	11092.72	54617.43	1345.80	578.21				8.53	0.00
					0.00	0.0	-90.0		
					334.37	54.8	-89.0		
					459.33	61.8	-89.3		
					578.21	338.8	-89.5		
92-138	11184.35	54702.83	1316.21	575.16				3.66	0.00
					0.00	0.0	-90.0		
					325.22	93.8	-89.0		
					459.33	343.8	-89.3		
92-139	11270.21	54785.84	1308.38	742.80				3.05	0.00
					0.00	0.0	-90.0		
					322.17	18.8	-89.8		
					471.53	19.8	-89.4		
					623.93	39.8	-89.2		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
92-140	11023.17	54881.86	1339.32	389.23				2.44	0.00
					0.00	0.0	-90.0		
					152.40	123.3	-89.6		
					304.80	268.8	-89.8		
92-141	10956.22	54960.13	1306.93	498.98				3.05	3.05
					0.00	0.0	-90.0		
					154.53	356.8	-89.4		
					306.93	31.8	-89.8		
					459.33	316.8	-89.4		
92-142	10932.31	55052.27	1283.74	387.40				4.27	4.27
					0.00	0.0	-90.0		
					325.22	99.8	-89.3		
92-143	11179.64	55052.10	1252.32	424.89				3.05	0.00
					0.00	0.0	-90.0		
					309.98	176.8	-89.0		
93-144	11705.28	54950.66	1156.55	390.75				20.12	0.00
					0.00	0.0	-90.0		
					152.40	274.8	-89.8		
					293.22	194.8	-89.5		
93-145	11100.68	55050.37	1280.12	456.29				5.49	5.49
					0.00	0.0	-90.0		
					153.01	299.8	-88.7		
					313.03	269.8	-88.9		
93-146	11536.91	54962.78	1166.52	666.60				8.53	8.53
					0.00	0.0	-90.0		
					151.49	332.8	-88.4		
					309.98	330.8	-88.0		
					459.03	318.8	-88.1		
					611.73	312.8	-88.6		
93-147	11012.31	54623.09	1363.36	623.93				2.44	0.00
					0.00	0.0	-90.0		
					151.49	255.8	-89.3		
					306.98	4.8	-89.5		
					471.53	288.8	-89.3		
					605.64	303.8	-88.8		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-148	10497.89	55002.06	1242.39	597.41				4.27	0.00
					0.00	0.0	-90.0		
					144.78	167.8	-89.5		
					304.80	157.8	-89.8		
					457.20	109.8	-89.3		
					597.41	132.8	-89.0		
93-149	11366.17	54966.98	1201.36	696.62				15.24	0.00
					0.00	0.0	-90.0		
					154.53	113.8	-88.0		
					306.63	133.8	-88.5		
					477.62	128.8	-88.8		
					611.73	210.8	-89.0		
93-150	11100.31	54707.33	1354.24	547.12				5.49	5.49
					0.00	0.0	-90.0		
					154.53	231.8	-89.4		
					325.22	319.8	-89.5		
					456.29	270.8	-89.5		
93-151	10928.15	54549.09	1355.13	545.29				4.27	4.27
					0.00	0.0	-90.0		
					152.40	358.8	-89.5		
					304.80	288.8	-89.3		
					434.95	340.8	-89.0		
93-152	11184.85	54799.77	1341.91	578.06				4.27	4.27
					0.00	0.0	-90.0		
					185.01	351.8	-89.6		
					313.03	32.8	-89.4		
					453.24	82.8	-89.3		
					578.21	25.8	-89.4		
93-153	10702.33	54502.51	1330.59	392.28				8.53	8.53
					0.00	0.0	-90.0		
					152.40	16.8	-89.3		
					322.17	10.8	-89.0		
93-154	11093.92	54543.07	1365.21	581.25				6.71	6.71
					0.00	0.0	-90.0		
					172.82	338.8	-89.0		
					309.98	350.8	-89.0		
					459.33	325.8	-88.7		
					581.25	4.3	-88.6		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-155	10499.43	54601.36	1296.83	387.10				3.66	3.66
					0.00	0.0	-90.0		
					149.96	131.8	-89.5		
					304.80	161.8	-89.5		
93-156	11184.92	54617.20	1298.10	797.66				7.32	0.00
					0.00	0.0	-90.0		
					309.98	35.8	-89.0		
					459.33	345.8	-88.0		
					762.00	39.8	-88.0		
93-157	10497.42	54400.16	1333.64	380.09				2.44	2.44
					0.00	0.0	-90.0		
					149.96	306.5	-89.0		
					304.80	339.8	-88.5		
93-158	10300.53	54399.68	1333.31	150.88				9.75	9.75
					0.00	0.0	-90.0		
					150.88	86.8	-89.0		
93-159	11177.80	54965.13	1280.20	517.25				4.27	0.00
					0.00	0.0	-90.0		
					154.53	28.8	-89.8		
					309.98	9.8	-89.0		
					462.38	4.8	-88.5		
93-160	10299.64	54999.78	1226.68	291.69				51.82	0.00
					0.00	0.0	-90.0		
					154.53	343.8	-88.6		
					291.69	19.3	-88.6		
93-161	11022.66	54968.43	1311.60	441.05				3.05	0.00
					0.00	0.0	-90.0		
					169.77	60.8	-89.8		
					306.93	193.8	-89.3		
93-162	10700.66	54999.21	1267.11	425.81				1.83	1.83
					0.00	0.0	-90.0		
					154.53	193.8	-89.0		
					300.84	114.8	-89.5		
					425.81	345.8	-88.5		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-163	11298.81	54699.34	1269.22	320.34				4.88	4.88
					0.00	0.0	-90.0		
					154.53	230.8	-89.2		
					306.93	192.8	-89.3		
93-164	11272.02	54872.02	1283.17	795.53				4.57	0.00
					0.00	0.0	-90.0		
					304.80	125.8	-89.2		
					457.20	150.8	-88.3		
					609.60	132.8	-88.0		
					795.53	130.8	-88.0		
93-165	11099.47	54399.14	1372.98	468.48				3.66	3.66
					0.00	0.0	-90.0		
					152.40	290.8	-89.1		
					304.80	336.8	-88.8		
					457.20	61.8	-89.0		
93-166	10499.49	55398.62	1246.77	303.28				21.34	0.00
					0.00	0.0	-90.0		
					154.53	100.8	-89.1		
					303.28	104.8	-89.3		
93-167	10096.60	55402.15	1200.32	303.89				13.41	0.00
					0.00	0.0	-90.0		
					154.53	171.8	-89.3		
					303.89	48.8	-89.9		
93-168	11199.28	54499.62	1330.99	569.06				5.49	5.49
					0.00	0.0	-90.0		
					154.53	210.8	-89.0		
					306.93	350.8	-89.9		
					569.06	329.3	-89.3		
93-169	10293.52	54406.36	1332.86	352.65				15.85	0.00
					0.00	0.0	-90.0		
					182.88	61.8	-89.0		
93-170	10274.12	55799.02	1227.14	316.08				11.58	0.00
					0.00	0.0	-90.0		
					154.53	17.8	-89.5		
					304.80	26.8	-89.1		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-171	11297.76	54600.28	1251.26	550.77				7.32	0.00
					0.00	0.0	-90.0		
					152.40	309.8	-89.4		
					456.29	0.8	-88.8		
93-172	10898.27	55500.34	1254.92	316.08				12.80	12.80
					0.00	0.0	-90.0		
					316.08	158.8	-82.3		
93-173	10800.12	54498.25	1336.91	617.22				12.80	0.00
					0.00	0.0	-90.0		
					154.53	354.8	-88.9		
					306.93	326.8	-88.6		
					459.33	344.3	-87.6		
					611.73	347.8	-87.2		
93-174	11367.85	54866.01	1237.14	781.81				13.72	0.00
					0.00	0.0	-90.0		
					341.38	182.8	-88.8		
					490.73	170.3	-88.8		
					609.60	231.3	-89.3		
					780.29	94.8	-89.4		
93-175	10595.69	54502.71	1345.37	413.61				4.88	4.88
					0.00	0.0	-90.0		
					304.80	20.3	-89.3		
					413.61	338.3	-88.9		
93-176	11616.08	55030.32	1171.80	474.57				24.99	0.00
					0.00	0.0	-90.0		
					154.53	73.8	-89.3		
					306.93	256.8	-89.3		
					462.38	268.8	-88.3		
93-177	10501.20	54501.37	1324.24	252.07				5.49	5.49
					0.00	0.0	-90.0		
					152.40	336.8	-88.1		
93-178	10900.53	54,399.96	1387.94	465.43				11.58	0.00
					0.00	0.0	-90.0		
					154.53	125.3	-89.2		
					306.93	93.3	-89.2		
					462.38	331.8	-89.2		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-179	10599.44	54400.88	1356.34	648.31				20.12	0.00
					0.00	0.0	-90.0		
					182.88	158.8	-89.7		
					304.80	113.8	-89.8		
					457.20	77.8	-89.4		
					609.60	85.8	-89.4		
93-180	11700.27	54870.44	1146.18	410.57				29.26	7.31
					0.00	0.0	-90.0		
					410.57	108.8	-89.5		
93-181	11363.93	54800.37	1260.92	186.12				4.57	4.57
					0.00	0.0	-90.0		(140.21 rods)
93-182	10799.07	54300.59	1386.40	422.76				9.75	0.00
					0.00	0.0	-90.0		
					154.53	41.8	-89.1		
					306.93	3.8	-89.2		
					422.76	49.8	-89.7		
93-183	11000.74	54450.25	1397.85	651.36				20.12	0.00
					0.00	0.0	-90.0		
					154.53	87.8	-89.0		
					306.93	53.8	-89.0		
					459.33	330.8	-89.7		
93-184	11098.95	55135.11	1237.59	447.14				18.29	0.00
					0.00	0.0	-90.0		
					154.53	125.8	-89.7		
					304.80	158.8	-89.4		
					447.14	106.8	-89.6		
93-185	11362.67	54802.61	1261.12	810.77				10.67	0.00
					0.00	0.0	-90.0		
					152.40	273.8	-88.3		
					304.80	265.8	-89.1		
					457.20	286.8	-88.1		
					627.89	178.8	-87.0		
					807.72	313.8	-88.0		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-186	11616.81	54796.45	1148.42	670.56				18.29	0.00
					0.00	0.0	-90.0		
					163.68	3.8	-89.4		
					297.79	318.8	-89.4		
					459.33	200.8	-88.6		
					620.88	266.8	-89.6		
93-187	10699.75	54199.36	1391.22	319.73				3.66	0.00
					0.00	0.0	-90.0		
					154.23	31.3	-89.0		
					306.93	28.8	-89.3		
93-188	10398.97	54399.75	1322.50	434.95				7.32	0.00
					0.00	0.0	-90.0		
					306.93	356.8	-89.3		
93-189	10500.16	54200.14	1388.28	328.27				9.14	0.00
					0.00	0.0	-90.0		
					157.58	46.8	-89.7		
					309.68	350.3	-89.5		
93-190	11365.76	54967.96	1200.64	440.74				4.88	4.88
					0.00	180.0	-45.0		
					12.19	176.8	-46.0		
					120.70	180.8	-46.0		
					170.69	180.3	-45.0		
					304.80	181.3	-43.5		
					440.74	183.8	-42.0		
93-191	10799.99	54600.37	1318.21	493.47				9.14	0.00
					0.00	0.0	-90.0		
					157.58	86.8	-89.3		
					306.93	36.8	-89.3		
					462.08	9.3	-89.0		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-192	11367.67	54863.91	1236.99	455.07				13.72	0.00
					0.00	90.0	-55.0		
					77.11	85.8	-55.0		
					153.31	85.8	-57.5		
					228.60	85.3	-59.0		
					320.04	85.8	-60.5		
					395.63	86.8	-61.5		
					453.54	86.8	-61.5		
93-193	10900.12	54480.37	1366.80	649.83				21.34	0.00
					0.00	0.0	-90.0		
					154.53	20.8	-89.3		
					306.93	35.8	-88.7		
					609.50	36.8	-87.5		
93-194	11022.60	54810.33	1349.79	447.14				4.27	0.00
					0.00	0.0	-90.0		
					154.53	167.3	-88.8		
					306.93	214.3	-88.6		
93-195	10299.78	54299.79	1355.01	380.39				11.58	0.00
					0.00	0.0	-90.0		
					154.53	94.8	-88.3		
					380.39	77.8	-88.0		
93-196	10699.43	54299.21	1404.20	483.72				4.27	0.00
					0.00	0.0	-90.0		
					157.58	84.8	-89.3		
					306.93	104.8	-88.9		
					462.38	70.3	-88.6		
93-197	11023.01	55141.28	1242.14	398.37				14.02	0.00
					0.00	0.0	-90.0		
					154.53	61.8	-89.5		
					303.89	111.8	-89.5		
93-198	10899.97	55000.65	1292.35	392.28				4.88	0.00
					0.00	0.0	-90.0		
					157.58	136.8	-89.5		
					306.63	202.8	-89.1		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-199	11701.78	55040.17	1168.49	449.58				26.21	17.68
					0.00	0.0	-90.0		
					154.53	185.8	-89.0		
					309.98	74.8	-89.2		
					449.58	55.3	-89.5		
93-200	11448.32	54873.86	1191.11	522.12				24.38	0.00
					0.00	0.0	-90.0		
					304.80	4.8	-88.8		
					484.63	18.3	-88.6		
93-201	10938.81	54727.61	1337.77	388.01				4.88	4.88
					0.00	0.0	-90.0		
					154.53	327.8	-89.3		
					304.80	312.8	-89.4		
93-202	11329.99	55035.81	1190.54	264.26				23.16	12.19
					0.00	0.0	-90.0		
93-203	10899.40	55101.17	1265.11	357.23				2.44	0.00
					0.00	0.0	-90.0		
					152.40	311.3	-89.3		
					303.89	359.3	-88.9		
					380.09	350.8	-89.5		
93-204	11182.96	55127.89	1224.59	450.80				6.71	6.71
					0.00	0.0	-90.0		
					154.53	273.3	-89.2		
					304.80	146.3	-89.6		
					450.19	133.8	-88.8		
93-205	11800.92	55002.06	1157.15	620.88				18.90	0.00
					0.00	0.0	-90.0		
					152.40	191.8	-88.4		
					304.80	208.8	-88.1		
					457.20	186.8	-87.2		
					620.88	201.8	-86.5		
93-206	10938.17	54799.82	1325.83	370.94				5.49	0.00
					0.00	0.0	-90.0		
					154.53	327.8	-88.6		
					304.80	342.3	-88.4		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-207	11456.92	54786.03	1209.70	397.76				4.57	4.57
					0.00	0.0	-90.0		
					204.22	27.3	-89.7		
					323.09	107.3	-89.6		
93-208	10949.74	55164.82	1224.71	380.08				4.88	4.88
					0.00	0.0	-90.0		
					152.40	85.8	-89.7		
					304.80	67.8	-89.5		
					380.09	68.8	-89.5		
93-209	11600.71	55101.43	1182.67	418.19				28.04	12.19
					0.00	0.0	-90.0		
					156.06	236.8	-88.8		
					417.58	230.8	-87.5		
93-210	11180.96	55128.77	1224.55	235.61				6.71	6.71
					0.00	90.0	-45.0		
					106.68	86.5	-47.0		
					152.40	85.5	-48.7		
					235.61	85.6	-52.0		
93-211	10940.91	54879.81	1319.10	367.89				6.10	0.00
					0.00	0.0	-90.0		
					152.40	336.8	-89.4		
					304.80	14.8	-88.6		
93-212	11445.49	54874.60	1191.23	579.12				13.72	0.00
					0.00	225.0	-45.0		
					76.20	233.8	-48.3		
					152.40	229.3	-50.0		
					228.60	230.3	-52.0		
					396.24	228.1	-54.5		
					451.10	228.1	-54.5		
					533.40	231.8	-52.0		
93-213	10998.74	55232.71	1229.51	529.44				29.87	0.00
					0.00	0.0	-90.0		
					152.40	160.6	-89.1		
					306.93	151.6	-89.3		
					457.20	168.8	-88.7		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-214	11538.01	54869.61	1160.35	656.23				18.29	0.00
					0.00	0.0	-90.0		
					154.53	297.8	-90.0		
					304.80	196.3	-89.6		
					457.20	140.8	-89.8		
					602.59	127.8	-89.3		
93-215	11246.57	55136.44	1205.18	444.09				42.67	0.00
					0.00	0.0	-90.0		
					154.53	318.3	-88.7		
					306.93	291.8	-89.0		
					438.00	318.8	-88.5		
93-216	11262.61	55046.89	1220.31	87.48				10.36	0.00
					0.00	90.0	-45.0		
					75.29	82.8	-46.0		
93-217	11800.10	54900.00	1144.78	573.33				22.56	0.00
					0.00	0.0	-90.0		
					152.40	78.8	-89.8		
					304.80	28.8	-89.5		
					457.20	241.8	-89.2		
93-218	11531.27	55027.79	1174.66	435.86				33.53	6.10(?)
					0.00	0.0	-90.0		
					158.50	267.8	-88.0		
					292.61	294.8	-88.5		
93-219	11098.93	55234.58	1218.22	383.74				26.21	0.00
					0.00	0.0	-90.0		
					154.53	337.3	-89.8		
					306.93	230.0	-89.5		
93-220	11450.43	55029.59	1179.05	407.52				26.21	0.00
					0.00	0.0	-90.0		
					159.11	208.3	-88.8		
					306.93	212.8	-88.3		
93-221	11698.16	54799.34	1139.69	507.80				11.58	0.00
					0.00	0.0	-90.0		
					154.53	297.8	-89.4		
					315.16	266.8	-88.8		
					456.29	233.3	-88.8		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-222	11546.30	54787.36	1167.08	367.89				33.53	0.00
					0.00	0.0	-90.0		
					159.72	335.8	-89.5		
					309.37	285.8	-89.4		
93-223	11458.60	54969.87	1172.86	553.82				52.73	10.36
					0.00	0.0	-90.0		
					152.40	284.8	-89.4		
					304.80	214.8	-88.8		
					548.64	306.8	-89.5		
93-224	11498.99	54701.73	1204.29	243.84				9.14	0.00
					0.00	0.0	-90.0		
					152.40	244.8	-89.1		
93-225	10802.38	55002.42	1276.10	320.65				12.19	12.19
					0.00	0.0	-90.0		
					152.40	276.3	-89.5		
					306.93	277.8	-89.9		
93-226	11600.49	54699.59	1164.11	252.98				16.76	16.76
					0.00	0.0	-90.0		
					155.45	283.8	-89.5		
93-227	10798.15	55101.98	1264.31	335.58				5.49	5.49
					0.00	0.0	-90.0		
					154.53	61.8	-89.4		
					306.93	91.8	-89.6		
93-228	10398.93	54903.95	1238.26	331.32				15.85	0.00
					0.00	0.0	-90.0		
					154.53	224.3	-88.0		
					304.80	41.8	-88.7		
93-229	10797.26	54705.02	1302.61	270.36				7.01	0.00
					0.00	0.0	-90.0		
					270.36	45.8	-89.4		
93-230	10098.53	54999.77	1222.68	246.89				40.54	0.00
					0.00	0.0	-90.0		
					164.59	156.8	-89.4		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-231	10199.89	54899.99	1235.77	268.22				23.47	0.00
					0.00	0.0	-90.0		
					152.40	318.8	-89.0		
93-232	10599.96	54999.01	1255.89	397.76				22.56	0.00
					0.00	0.0	-90.0		
					154.53	23.8	-88.1		
					306.93	55.8	-88.5		
93-233	10799.54	54899.20	1285.15	215.80				7.32	7.32
					0.00	0.0	-90.0		
					152.40	240.8	-89.8		
					215.80	183.3	-89.3		
93-234	10400.35	55000.76	1229.24	343.51				20.73	0.00
					0.00	0.0	-90.0		
					157.58	3.8	-89.0		
					304.80	22.8	-88.9		
93-235	11400.06	55101.51	1187.48	313.03				37.80	4.88
					0.00	0.0	-90.0		
					152.40	154.8	-89.9		
					306.93	217.8	-88.1		
93-236	11499.22	55098.83	1185.69	337.41				40.84	14.63
					0.00	0.0	-90.0		
					160.63	183.3	-89.3		
					306.93	95.8	-89.0		
93-237	10200.75	55100.91	1215.87	233.17				55.17	11.89
					0.00	0.0	-90.0		
					152.40	189.8	-89.1		
93-238	10599.92	55100.23	1253.30	352.65				3.66	0.00
					0.00	0.0	-90.0		
					157.58	136.8	-88.3		
					309.98	123.8	-89.0		
93-239	10399.45	55098.83	1230.21	366.98				19.51	0.00
					0.00	0.0	-90.0		
					154.53	102.8	-89.0		
					304.80	113.8	-89.3		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-240	10601.81	54899.86	1258.12	316.08				7.31	7.31
					0.00	0.0	-90.0		
					152.40	28.8	-89.3		
					306.93	353.8	-89.1		
93-241	10200.34	54998.96	1226.58	237.74				49.68	0.00
					0.00	0.0	-90.0		
					152.40	122.8	-87.1		
93-242	10099.92	55202.27	1203.57	271.62				36.58	0.00
					0.00	0.0	-90.0		
					154.53	77.8	-89.4		
					271.58	102.8	-88.7		
93-243	10499.78	55099.81	1242.36	349.61				17.07	0.00
					0.00	0.0	-90.0		
					157.58	278.8	-89.1		
93-244	10299.41	55399.63	1222.67	236.83				25.30	0.00
					0.00	0.0	-90.0		
					157.58	59.8	-88.5		
93-245	10499.44	54900.21	1241.66	299.92				11.58	0.00
					0.00	0.0	-90.0		
					154.20	72.8	-89.5		
					299.92	126.8	-89.7		
93-246	10100.38	54900.17	1232.02	234.70				20.12	0.00
					0.00	0.0	-90.0		
					228.60	38.8	-89.2		
93-247	10299.56	55100.17	1219.39	249.02				26.82	0.00
					0.00	0.0	-90.0		
					171.60	136.8	-88.5		
93-248	10100.37	55099.18	1213.38	252.07				14.33	6.10
					0.00	0.0	-90.0		
					252.07	106.8	-89.1		
93-249	10001.95	55000.43	1222.46	282.55				44.50	20.12
					0.00	0.0	-90.0		
					252.07	34.8	-89.2		

HOLE NO.	EASTING	NORTHING	ELEVATION (m)	LENGTH (m)	DISTANCE (m)	AZIMUTH	DIP (°)	CASING USED (m)	CASING LEFT IN HOLE (m)
93-250	10299.32	54900.53	1239.75	258.17				6.71	6.71
					0.00	0.0	-90.0		
					157.58	111.3	-88.7		

APPENDIX VII

CORE LOGGING AND CORE HANDLING TECHNIQUES

093190

0100-6
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p. 1

MANUAL FOR LOGGING

AND DATA COMPILATION

at the

Casino Cu-Au-Mo Porphyry

Diamond Drilling Project

Pacific Sentinel Gold Corp.

Yukon Territory

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Every effort has been made to supply complete and accurate information. The information contained herein is subject to change without notice. The author reserves the right to revise and improve this manual as he sees fit.

SUMMARY

Exploration of the Casino Cu-Au-Mo porphyry system will involve diamond drilling and detailed geological work. At the request of D.B. Forster and A. Archer and on behalf of Pacific Sentinel Gold Corp., this manual was prepared as a guide for the collection of geological and technical data. Its purpose is to standardize data collection procedures, document standard practice and aid in the development of a reliable database. The logging, sampling and data compilation procedures detailed in this manual are derived from experience on the Mt. Milligan, Kemess and Fish Lake Projects and are comparable with others in the mineral exploration industry in British Columbia and Yukon. This manual is intended as a guide for data collection personnel and as summary for persons interested in reviewing those aspects of the technical program. Users of the manual are encouraged to forward their comments and suggestions so that it may be kept up to date and accurately reflect the work being performed. Note that this manual assumes all logging is done in the metric system.

MANUALS

1 Geotechnical Log

1.1 INTRODUCTION

A variety of geotechnical information is required for mine feasibility and development studies. Geotechnical data from drill core should be collected from all diamond drill holes in an advanced exploration project on a mineral prospect. This information, when gathered during the delineation and infill phases of a drilling program, provides a good over-all sample of a mineralized deposit, with numerous, well-distributed geotechnical data points. The data can be readily used in mine evaluation and design studies.

1 Geotechnical Log

Geotechnical logging is the first procedure to be performed on diamond drill core when it arrives from the drill. It is important that geotechnical parameters are measured before the core is broken up or the footage markers are moved by other logging and sampling procedures. This logging can be done at the same time as metric conversion. Trained personnel should perform the work using this manual as a guide. Data should be recorded on the logging form provided in Appendix D-1.

NOTE: Shaded columns will be calculated later and do not need to be filled out.

1.2 EQUIPMENT LIST

- pencil, eraser, metric conversion calculator, retractable metric tape measure (minimum 5 metres), clipboard, geotechnical logging forms, geological hammer, knife, aluminum tags, eye protection.

1.3 PROCEDURE

1. ARRANGE CORE BOXES ON BENCH
   - individual core boxes are oriented on the logging bench so that the lowest depth (nearest to the surface) core for each box is in the top left corner.
   - consecutive boxes are arranged so that the core is logged as you would read a book, from the top upper left (nearest to the surface or collar) row by row to the bottom lower right (nearest to the end of hole E.O.H or total depth T.D.).

2. METRIC CONVERSION (If necessary)
   - write the metric depth with permanent waterproof black marker on an a dry marking block.
   - when removing a depth marker block to write the metric depth, put a pen or some other object in the box at that point to ensure that the marker goes back in the correct position.
   - round off to two decimal places (i.e. 91' = 27.74m).

3. RECORD METRIC DEPTHS (**FROM, TO**)
   - record the start and end of each drill run marked by driller's markers. The "TO" of one run is the same as the "FROM" for the next run.
   - record to two decimal places.
   - check for depth markers before the first piece of core in the first core box. There should be two markers here and they are often missing! Since casing is generally reamed 0.5 to 4 metres into bedrock, the first depth marker should record "ledge" (base of overburden or top of bedrock), the second marker before the first piece of core should record "casing" (bottom of casing).
   - writing must be **neat** and **legible**, preferably written in dark pencil. These logs will get faxed and photocopied several times!

4. CALCULATE DISTANCE BETWEEN DEPTH MARKERS (**LENGTH**)

   LENGTH = TO - FROM

   - record to two decimal places.

5. CORE RECOVERY (**REC**)

   - to get an accurate measurement, visualize a centreline down the interior of the core and measure only intact pieces along that line. See Figure 1 for example.
   - a recommended measuring technique is to "accumulate" the length on the tape measure so that the last measurement is the total to be recorded.
   - do not measure re-drilled, ground or rubbly material at the start of the run, especially after a mis-latch or bit change.
   - be sure to record sections with zero recovery.
   - record driller's comments such as "triconed interval", "no core", "mis-latch", "bit change", etc. in the remarks column of the logging form.
   - record to two decimal places.

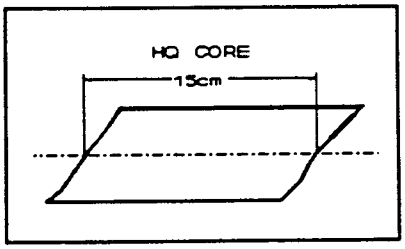


Figure 1 Measure core along centerline. Example shows minimum length piece for HQ RQD.

6. CALCULATE PERCENT RECOVERY (**REC%**)

REC% = (**REC/LENGTH**) * 100

- if REC > 110% check for misplaced or incorrect depth markers, ask driller to explain if necessary.
- if REC < 50%, record reasons for low recovery in remarks (i.e. gouge 69.9 to 71.2 metres). Ask driller to give reasons for poor recovery, if necessary.
- record to the nearest 1%.

7. ROCK QUALITY DESIGNATION (**RQD**)
   - measure total length of all intact pieces of core greater than 2.5 times the diameter of the core. The following lengths are the minimum inclusion size for various core sizes:

     BQ - 7.5 cm long pieces or greater
     NQ - 10.0 cm long pieces or greater
     HQ - 15.0 cm long pieces or greater

   - the correct way to determine RQD is to measure between "natural" breaks ignoring those caused during the drilling process. However, if it is not possible to differentiate between the two, then assume all breaks are natural.
   - record the sum of all lengths measured to two decimal places.
   - remember RQD cannot be greater than REC!

8. PERCENT RQD (**RQD%**) Shaded column
   - not necessary to calculate while logging, as this will be calculated when data entered.

RQD% = (**RQD/LENGTH**)*100

9. DEGREE OF BREAKAGE (BRKG)
   - the scheme for classifying degree of breakage is summarized in Table I.
   - the degree of breakage is a visual estimate of the quality of the rock in terms of the number of natural fractures or breaks.

TABLE 1

Classification Scheme for Degree of Breakage

Category	Mean Spacing of Breaks or Diameter of Fragments cm	Quality Descriptions
1	<1.5	Mostly fault gouge with or without minor rock fragments.
2	<1.5	Gouge and crushed rock.
3	<1.5	Crushed rock with or without minor gouge.
4	1.5-5	Crushed rock - no gouge.
5	1.5-5	Crushed rock - diameter of pieces <2.5 cm.
6	1.5-5	Crushed rock - diameter of pieces <5 cm.
7	5-7.5	Mean spacing 5 to 7.5 cm.
8	7.5	Mean Spacing 7.5 cm.
9	7.5-10	Mean spacing 7.5 to 10 cm.
10	10-15	Mean spacing 10 to 15 cm.
11	15	Mean spacing 15 cm.
12	15-20	Mean spacing 15 to 20 cm.
13	20-30	Mean spacing 20 to 30 cm.
14	30-60	Mean spacing 30-60 cm.
15	>60	Mean spacing >60 cm.

10 ROCK HARDNESS (HARD)

- the scheme for classifying rock hardness is summarized in Table II. (N.B. geologists, do not confuse with Moh's scale of mineral hardness).
- this scheme gives a reasonable first estimate of the unconfined compressive strength of the material.
- protect eyes from rock and steel fragments when hammering core.
- for hammering test use an average piece of core about the minimum length for an RQD reading (i.e. 10 cm for NQ core). Hammer from about 30cm (1 ft.) up, trying to swing consistently each time.
- if more than one level of rock hardness is present in a run, record the lowest value.

TABLE 2

Qualitative Estimation of Rock Hardness and Approximate Unconfined Compressive Strength

HARDNESS	CONSISTENCY	FIELD PERFORMANCE	APPROXIMATE RANGE OF UCS	
			MPa	psi
0	Extremely soft rock	Indented by thumbnail.	0.2-0.7	28-100
1	Very soft rock	Crumbles under firm blows with point of geological pick; can be peeled with a pocket knife.	0.7-7.0	100-1000
2	Soft rock	Can be peeled with a pocket knife with difficulty; shallow indentations made by firm blow of geological pick.	7.0-28	1000-4000
3	Average rock	Cannot be scrapped or peeled with a pocket knife; specimen can be fractured with single blow of a hammer and/or geological pick.	28-56	4000-8000
4	Hard rock	Specimen requires more than one blow with hammer and/or geological pick to fracture it.	56-112	8000-16000
5	Very hard rock	Specimen requires many blows of hammer and/or geological pick to fracture it.	112-224	16000-32000
6	Extremely hard rock	Specimen can only be chipped with geological pick.	>224	>32000

11. DEGREE OF WEATHERING (**WTHR**)
    - the degree of weathering or oxidation of the rock is used to define the upper boundary of unweathered bedrock and to delineate faults or other zones of intense weathering and oxidation.
    - the most common iron oxide to look for is limonite, which occurs as an orange, brown or red rusty to earthy material. Check for limonite on fractures.
    - the degree of weathering is visually estimated using Table III.

TABLE 3

Classification of Degree of Weathering

CODE	DESCRIPTION
1	Residual soil - original fabric destroyed.
2	Completely weathered - original fabric and relict structures remain but, rock is decomposed and friable.
3	Highly weathered - rock is discoloured and strength is significantly reduced by weathering.
4	Moderately weathered - rock is discoloured, but strength is only slightly affected, discontinuities weathered.
5	Slightly weathered - rock strength unchanged, weathering on joints only.
6	Fresh and Unweathered.

12. CROSS JOINT COUNT (**XJNT**)
    - record the number of cross joints by counting the number of natural breaks which are not along the bedding plane (if unable to differentiate between cross joints and bedding joints described below, assume all joints are cross joints).
    - if the run is entirely gouge, or has a large number of breaks, record 50 as a maximum value in this column.

13. CROSS JOINT FREQUENCY (**XJ/M**) Shaded column
    - not necessary to calculate while logging, will be calculated after data entry.

    XJ/M = (XJNT/LENGTH)

14. BEDDING JOINT COUNT (**BJNT**)
    - record number of bedding joints in sedimentary rocks by counting the number of natural breaks parallel to the bedding plane.
    - if the run has a large number of breaks record 50 as the maximum value in this column.

15. BEDDING JOINT FREQUENCY (**BJ/M**) Shaded column
    - not necessary to calculate while logging, will be calculated after data entry.

    BJ/M = (BJNT/LENGTH)

16. SURFACE CHARACTERISTICS OF JOINTS (**SURF**)
    - record joint surface characteristics using Figure 1 as a guide.

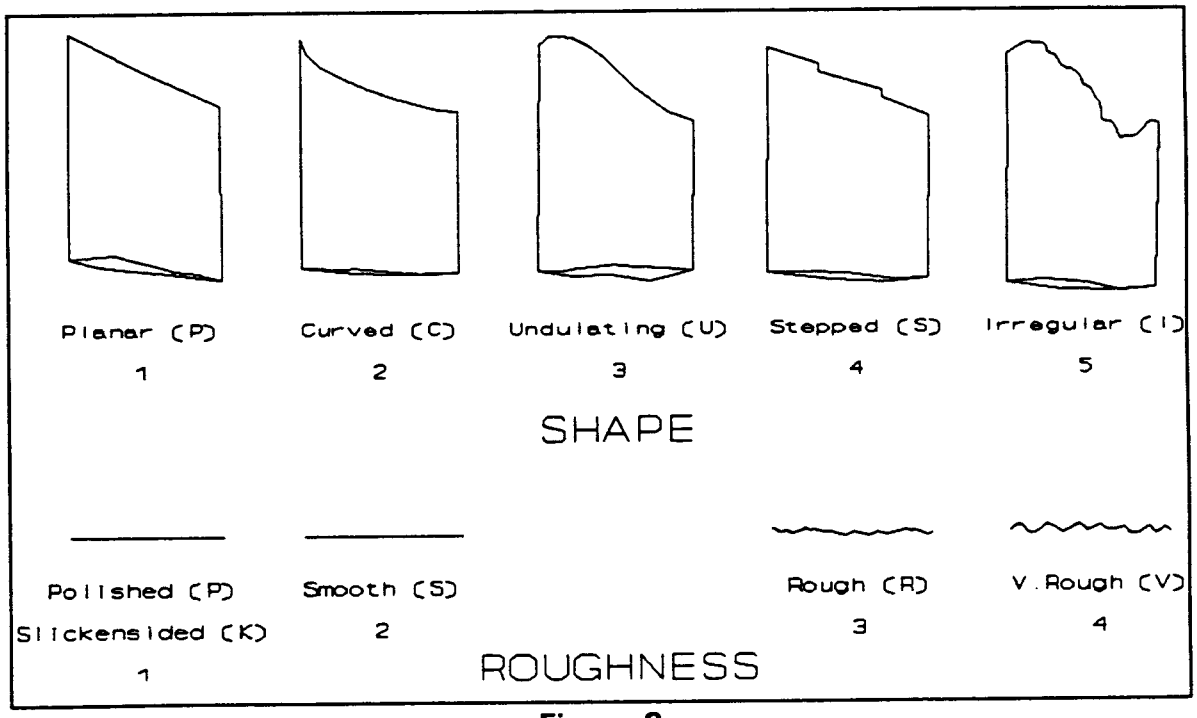


Figure 2
Classification of the Surface Characteristics of Joints
Shape and Roughness

17. REMARKS
    - record drillers comments, and important features such as faults, gouge, triconed intervals, etc.

18. MARK CORE BOXES
    - measure the distance from the nearest marker block to the start and end of each core box, taking into account the recovery for the interval, and mark these depths on the box with black waterproof marker.
    - when geotechnical logging is complete, clearly mark each core box with an aluminum tag giving the hole number, box number, from and to depth for the box.

2 Geological Log

2.1 INTRODUCTION

The evaluation of geologic data is a fundamental part of the discovery, exploration and development of a mineral prospect. In many advanced exploration projects, a large portion of the geologic information is derived from diamond drill core logging. These logs must give a clear, complete and accurate description of the lithology, alteration, veining, mineralization, structure and weathering encountered in each drill hole. The logs must also meet the requirements of all members of the exploration team, including geologists, engineers, managers and others. This can best be accomplished by recording information in three formats; in a numerical form which is readily entered into a computer database, in written form with detail sufficient for geological compilation and other technical studies, and in summary form for quick reference.

Geological logging should be performed by a qualified geologist or geological engineer using this manual as a guide to data recording procedures. This manual is not intended as a guide to the geology itself. It is assumed that all geologists involved in core logging will have a detailed introduction to the geology of the project area prior to logging their first hole.

Logging should be carried out on the forms provided. Header information should be filled out as soon as it becomes available.

The geologic log form may be used as a combination "computer log" form with additional information in a more traditional "written log" format. The geological computer code section is filled out by the geologist in the manner described in the field notes. To ensure that the Geological log fulfils its purpose, **all** appropriate columns **must** be filled out by the geologist for **all** cored intervals. It is also recommended that a written log portion is recorded by the geologist as remarks, for the same **From-To intervals** as the computer coded section. This log should contain the names of the **major units** and **sub-units** and provides a full written description of the **lithology, alteration, veining, mineralization, structure** and **weathering** encountered. It is generally not necessary to keypunch the written log information.

Geological logging is performed after geotechnical logging has been completed on that section of core. (Avoid breaking core until geotechnical logging is complete!) The core is washed off with water and given a quick visual scan prior to detailed geological logging and coding. As logging progresses, K-spar etching and staining, and specific gravity logging are performed. The core is logged in detail and the Geological codes are filled out for the computer log. The geologist then marks out and records the sample intervals and the core is ready for photography and sampling. Geological logs and a synoptic logs must be produced for every drill hole, including abandoned holes with no core, special purpose holes (i.e. metallurgical holes, geotechnical holes, etc.).

2.2 GEOLOGIST'S RESPONSIBILITIES

Each geologist is responsible for a specific drill hole or drill holes. The geologist should:

- verify the set-up before the drill moves onto it.
- line up the drill on the correct azimuth and set the head on inclined holes.
- name the hole number and check it off the list.
- supervise the drill and regularly monitor its progress.
- regularly confer with the project geologist or engineer and the driller as to the status of the hole.
- record the geological codes and written log on the appropriate forms.
- supervise the geotechnical logging.
- supervise the S.G. logging.
- mark out and tag samples to be assayed.
- record the sampling log.

- ensure that all core photographs are taken.
- supervise downhole surveying where necessary.
- examine all core before shutting down the drill.
- determine whether the casing should be left in the hole.
- mark the hole with a permanent, protective marker, (i.e. an aluminum tag on a flagged, squared pole inserted in the hole), after the drill has moved off the set-up.
- fill out the sample requisition form.
- supervise the core splitting, preparation of samples for shipment and racking of split core.
- visually inspect the split core.
- submit samples for thin section, ICP multi-element scans, whole rock analyses and other special analyses where necessary.
- complete and record down hole survey test corrections.
- complete the synoptic log.
- sketch the drill hole in cross-section.
- file the completed assay tag books.
- create the drill hole file and file all logs, assay results and other data pertaining to the hole.
- transmit all necessary information to head office.
- submit the logs for keypunching.
- inspect the results of the drill hole collar survey.
- review the assays and investigate unexpected or unusual results.

2.3 NOTE ON HOLE NUMBERING

It is essential from a data handling point of view that no conflicting or confusing drill hole numbers exist. To avoid some common drill hole numbering problems:

- all drill hole numbers should be consecutive integers with the year drilling started as a prefix.
- there should be only one series of integers with no duplications, i.e. if the last hole drilled on the property was "87-34" then the next hole started in 1992 should be "92-35".
- do not start the numbering series over or change the numbering procedure within a property. All diamond drill holes, percussion holes, underground holes, geotechnical holes, metallurgical holes, holes drilled by company X on zone Y, phase III holes, etc., should be numbered consecutively as they are drilled with no duplications.
- do not use suffixes, such as "92-34a" and "92-34b".
- an abandoned hole should have its own number, particularly if core was

recovered or if it was surveyed. The next attempted hole from the same set-up should have a new number.
- if drill holes are to be identified by property, add another prefix before the year. In this case it may be necessary to use a different integer series for each property.
- in a multi-drill program, keep an up-to-date master list of drill hole numbers used on the wall in the office. Each geologist records the next hole number, their initials, the time, date and drill rig number as each new drill hole is collared.

2.4 EQUIPMENT LIST

- pencil, eraser, calculator, retractable metric tape measure, clipboard, geological logging forms (header page and other pages), sampling logging form (if necessary), synoptic logging form, consecutively numbered dual tag sample tags, swing magnet or magnetic susceptibility meter, hand lens, pocket knife, geological hammer, water bucket, brush, 20 ml bottle of dilute HCl, binocular microscope, staple gun, flagging tape, sample requisition form, eye protection.

2.5 PROCEDURE

1. RECORD HEADER INFORMATION
   - fill out all header information as it becomes available.
   - approximate collar co-ordinates and elevation should be recorded, (i.e. geophysical grid co-ordinates), if the collar survey is not immediately available.

2. WASH CORE
   - wash core with a stiff brush using water to remove cuttings, mud, grease and dirt prior to logging.

3. VISUALLY SCAN CORE
   - visually scan core while washing down. Look for lithologic contacts, structural features, alteration and mineralization, and mark with a yellow lumber crayon for future reference.
   - scanning the core is an iterative process of examining every piece of core, wetting it down and re-examining it several times to determine the major rock unit and sub-unit boundaries.

4. ASSESS HOLE

- concentrate on the "big picture" during the initial examination, particularly if drilling is still in progress, (i.e. has the target been intersected?, are there any significant new discoveries?, new units? etc.)
- the decision to continue drilling or to shut down the hole is often made during initial examination. Where possible, shut-down decisions should be made after careful examination of **all** core under suitable conditions, (i.e. under lights in the core shack, **not** at the drill at night).
- in general, drilling should continue beyond the target depth: well past areas of significant mineralization, and also well past any major contacts, marker units, or faults that are encountered. Stopping a hole too soon is usually worse than drilling too far. When in doubt consider leaving the casing in the hole.
- many geologists keep a scratch log and sketch the geology in cross-section prior to detailed logging to keep things in perspective.

5. MEASURE & MARK ROCK UNIT BOUNDARIES
   - use a **yellow lumber crayon.**
   - measure rock unit boundaries from the nearest driller's marker. Make adjustments for core recovery if necessary when marking the depth of a rock unit boundary.
   - mark the contact depth on the core or core box.

6. RECORD GEOLOGICAL CODES
   - record FROM - TO's to the nearest decimal place, or to two decimal places if necessary.
   - all appropriate columns must be filled out using the applicable codes, a copy of which should be added to the appendix of this manual.
   - for coding purposes, it is most useful to record the total content (i.e. all K-spar or carbonate) in the alteration-mineralization column, even though there may be primary and secondary components to the material.
   - **always** record an estimate of the pyrite, chalcopyrite content, even if low or zero.
   - record the presence of other possible ore-bearing minerals, particularly sulphides, oxides or native metals (i.e. chalcocite, native copper, bornite, etc.) These occurrences should also be fully described in the written log portion.

7. RECORD WRITTEN LOG
   - record for each geologic rock unit.
   - describe geology in detail. It is useful to organize comments into a

standard format, for example:

MAIN ROCK TYPE NAME - record colour, grain size, texture, mineralogy, orientation of planar surfaces (if any) for each of the following:
- the protolith (if recognized).
- phenocrysts (including percent distribution, shape, degree of crystallinity).
- clasts or fragments (including percent distribution, lithology, texture, sorting, roundness, sphericity, support).
- the matrix or groundmass.

ALTERATION - including type if recognized, percent distribution, details of replacement, contact relationships.

VEINING - including percent overall, distribution, width, orientation (angle with respect to long axis of core), contact relationships).

MINERALIZATION - including percent distribution, location, details of replacement, crystallinity and with particular emphasis on mode of occurrence of sulphides and native elements.

STRUCTURE - faults, shear zones and zones of breakage (include percent gouge, width, orientation, surface characteristics, contact relationships).

WEATHERING - level of weathering, depth of leached zone, depth of supergene zone, zone indicator minerals.

OTHER - also record any special characteristics or features, i.e. orientation of stratigraphic tops indicators, etc.
- record the relative strength of magnetic minerals.
- record possible reasons for zones of poor core recovery and/or missing core.
- record the nature of all lithologic contacts.

- writing must be **neat** and **legible**, preferably written in dark pencil. These logs will get faxed and photocopied several times!

8. MARK OUT AND RECORD SAMPLE INTERVALS
   - mark with a **red lumber crayon**
   - sample and assay the entire length of all drill holes from prospective areas, (possible exceptions include holes drilled specifically for metallurgical, geotechnical or condemnation purposes).
   - do not include any "foreign" or inappropriate material as described in the Geotechnical logging section (1.3.5 A and B). Clearly mark these sections "Do Not Sample" with flagging tape or remove them from the core box.

- each drill rig should have its own series of consecutively numbered, two tag sample books.
- samples should be 2.0 metres core length, wherever possible, and no greater than 2.5 metres (except in zones of poor recovery), and no less than 1.0 metre (except for samples of veins, which should not be less than 0.3 metres).
- samples intervals should not cross volcanic-intrusive contacts, contacts of post-mineral dykes greater than 1.0 metre core width and contacts of mineralized veins greater than 0.3 metres core width.
- sample intervals should correspond with the nearest metre in all other circumstances.
- measure samples from the nearest depth marker, taking into account core recovery if necessary.
- mark the sample boundary and depth on the core and the core box with a red lumber crayon.
- record the sample From-To on the geological form along with the sample number.
- record the sample From-To in the sample tag book for each sample tag number.
- place the dual sample tags at the start of each sample interval.
- break the sample with a hammer at the red line boundary.

9. RECORD SYNOPTIC LOG

- record synoptic log as drilling progresses, particularly header information.
- describe PURPOSE of hole prior to drilling, describe the target briefly.
- describe COMMENTS of hole after drilling completed, give a very brief comment on the results of the hole i.e. "good mineralization encountered", or "abandoned redrilled from same set-up as hole ddh X"
- for each rock type, summarize the from-to, alteration and mineralization information in the columns provided. Use one line for each rock type.

10. REVIEW THE CORE

- it is good practice to briefly check the split core before it is racked and look for alteration and mineralization that was not apparent unsplit.
- review the core after the assays have been returned if the results are significantly higher or lower than expected, or if very high grade results are returned.
- note and date any changes to geology logs that have already been keypunched on the log to ensure that new information can easily be recognized and the database updated.

2 Geological Log 16

3 Specific Gravity Log

3.1 INTRODUCTION

Specific gravity (S.G.) is an important factor used to estimate the tonnage and metal content of mineral deposits. Regularly-spaced S.G. measurements of diamond drill core samples provide numerous, well-distributed data points throughout a deposit area. These measurements may be used to estimate the in-situ dry bulk density for various rock types. The in-situ dry bulk density value is used to estimate tonnages and therefore determine the metal content of the rock.

The specific gravity of a rock sample is the ratio of the mass of a given volume of rock to the mass of an equal volume of water. There are several ways to determine specific gravity. The method described in this manual involves weighing **unsplit drill core** samples in air and then weighing the samples submersed in water. This method provides a reasonable specific gravity determination for most core samples which are large enough and competent enough to withstand submersion in water. However, the S.G. of relatively impermeable samples with numerous unconnected void spaces will be underestimated by this method; (values obtained in this situation may actually be closer to the dry bulk density). If a significant amount of core is too broken or incompetent to be measured using this method, a separate procedure should be established for this material (i.e. a laboratory analysis of crushed reject). As a check on the validity of the overall results of the field determinations, it is recommended that a subset of the results (5 to 10% of the total) be compared with results obtained using an independent method, (i.e laboratory analysis of crushed reject).

A specific gravity determination assumes zero void space; this differs from what is found in many rock masses where voids and fractures are common. An in-situ bulk density estimate includes the effect of natural pores, vugs, fractures, and other voids which occur in the rock mass. The term "dry" bulk density specifies that the moisture content of the voids is assumed to be zero. Dry bulk densities are used in tonnage calculations for reserve estimates because assay results (contained metal per unit volume) assume zero moisture content. Therefore, when the dry bulk density is multiplied by the volume, a tonnage value is obtained which may then be multiplied by grade to give the total metal content. If a straight S.G. value were used in the foregoing calculation on a rock with 5% void space, the metal content would be over-estimated by 5%. If a wet bulk density value were used in the same calculation, the metal content would be over-estimated by up to 3%. In a rock mass with no void spaces, the specific gravity of the rock is essentially equal to the in-situ bulk density. In some rock masses, particularly in the upper highly weathered sections of some

mineralized deposits, the in-situ bulk density may be significantly less than the specific gravity. In all cases it is appropriate to measure the specific gravity. However, care must be taken so that the two are not confused, and where necessary, the in-situ bulk density should be evaluated separately.

Personnel involved in S.G. logging should have the method demonstrated to them by before performing this work. Logging forms are provided for data entry in Appendix B.

3.2 EQUIPMENT LIST

- pencil, eraser, calculator, specific gravity logging forms, triple beam balance (minimum 2.0 kilogram capacity), bucket full of clean water, two wire "cages" (described below), for suspending core samples in air and in water (the wire cages can be made of fine steel wire, do not use copper or brass wire).

3.3 PROCEDURE

1. SELECT SAMPLES
   - samples should be selected every eight metres from pieces of whole unsplit core which are competent enough to be submersed in water and weigh from 200 to 1500 grams.
   - the exact depth location of the sample, and the correct sample number should be recorded in the log.
   - samples should be taken as close to the eight metre interval as possible
   - if the sample at the eight metre interval contains concentrations of magnetite, pyrite and/or veins, this should be noted in the log, and the sample should still be measured. A geologist may need to verify the S.G. if it falls outside the acceptable range. High or low values are acceptable, as long as they reflect a realistic distribution of such values within the deposit.

2. PREPARE BALANCE
   - ensure the balance is clean and level.
   - prepare the "cages".
   - check that the balance arm and the "cage" apparatus underneath moves freely (i.e. make sure the cage does not come into contact with the frame or the edges of the bucket). The cage itself should be under water. It may be necessary to counteract the added weight of the cage by wrapping a length of wire of sufficient weight around one of the beams

so that the balance can be zeroed with no weight in the tray. (Make sure that this wire does not interfere with the balance apparatus and cannot move during weighing).
- weighing tray must be clean and dry.
- ensure the water in the bucket is clean by replacing it daily.

3. ZERO THE BALANCE
   - zero the balance with the "cage" attached underneath.
   - counterweights provided with the balance have two weights stamped on them. The actual weight is usually stamped on the bottom of the counterweight. It represents the true weight of the counterweight. The balance arm weight is stamped on the top of the counterweight. It represents the effective weight of the counterweight when placed on the balance arm. The actual weight is less than the balance arm weight.
   - select counterweight(s) of about 500 to 1000 grams actual weight.
   - place the counterweight(s) in the weighing tray.
   - adjust the counterweights on the triple beam side to equal the actual weight stamped on the bottom of the counterweight(s) in the tray.
   - if the sides do not balance, turn the fine adjustment knob to achieve exact balance.
   - empty the weighing pan and remove all counterweights from the triple beam side and ensure all non-removable counterweights are in their zero notch on their beam.
   - check for balance with no weight in the tray. The sides may not balance exactly but should be very close to balancing, if not repeat the procedure from step 2.
   - this method zeros the balance in the range of the samples to be weighed.

4. WEIGH THE SAMPLE IN AIR (Ma)
   - for the purposes of this procedure assume:

   WEIGHT = MASS

   - record all weights to two decimal places.
   - weigh dry samples in air first.
   - samples are weighed in the stainless steel weighing tray or in the "cage" (left side).
   - add a 250 gm or 500 gm counterweight on to the triple beam (right) side.
   - a common type of triple-beam balance has three non-removable counterweights. The two larger non-removable counterweights run along

notched beams and measure in increments of 100 gm and 10 gm respectively. These weights must end up in a notch when weighing a sample.

- the smallest non-removable counterweight which measures in increments of 0.1 to 1.0 gm slides freely to any point on the beam.
- adjust the counterweights until balance is achieved.
- once balance is achieved, sum all the effective weights of the counterweights and record the mass in air (**Ma**) of the sample to two decimal places.
- writing must be **neat** and **legible**, preferably written in dark pencil. These logs will get faxed and photocopied several times!

5. WEIGH THE SAMPLE IN WATER (Mw)
   - place the sample in the cage and suspend it underneath the balance to submerse the entire sample in water. **The sample must be completely submersed.** No part of the sample may show above water or touch the sides, or the bottom of the bucket. If the sample fragments while underwater do not record this sample. Select another sample or reweigh the sample in air again when dry and use the new **Ma**. (The effect of unfilled voids will be factored in when the bulk density is estimated later).
   - adjust the counterweights to balance and record the weight in water (**Mw**).
   - to maintain consistency in the method, submerse all samples for the same length of time, (i.e. only as long as it takes to obtain the weight in water Mw).

6. CALCULATE THE SAMPLE VOLUME (Vc)
   - the volume of the core sample (**Vc**) is calculated as follows:

$$\mathbf{Vc = Ma - Mw}$$

7. CALCULATE THE SPECIFIC GRAVITY (S.G.)
   - the specific gravity is calculated as follows:

$$\mathbf{S.G. = Ma / Vc}$$

   - all calculations should be performed on each sample immediately after it is weighed. Any S.G. values which are less than 2.5 or greater than 3.2 should be reweighed, recalculated and verified by a geologist. These calculations will also be checked after they are keypunched.

4 Core Photography

4.1 INTRODUCTION

It is a widely held practice in British Columbia and the Yukon to photograph drill core from major exploration projects. Three or four boxes of unsplit wetted core are usually photographed at once. The photographs are assembled in an album and form part of the permanent record for the drill program.

4.2 EQUIPMENT LIST

- core stand, 35 mm camera with wide angle lens, flash unit or photographic lamps, 100 to 400 ASA colour print film, water sprayer, magic marker and paper for labels.

4.3 PROCEDURE

1. SET CORE ON PHOTO STAND
   - the photo stand should be adjacent to the core logging area.
   - if indoors, it should be well-lit and away from windows for consistent light.
   - if outdoors, heavy shadow areas should be avoided. It is recommended that a portable frame wrapped in translucent white plastic is constructed to place around the core when photographing it to diffuse the light.
   - it should be set up so that it is easy to place and remove the core boxes from the stand.
   - the stand should hold 3 to 4 boxes of core depending on the angle and the distance from the camera lens.
   - the ideal arrangement is to have the camera set and mounted in a fixed location above the photo stand.
   - arrange boxes in logging order.
   - make a label with **HOLE NO.**, **BOX NO.s**, **PROJECT NAME** and **FROM** of first box and **TO** of last box . This label must be clear and legible, and large enough to be read in the resulting photograph.

2. PHOTOGRAPH CORE
   - use readily available, high resolution 100 ASA film (i.e. Fuji HR100 or equivalent).
   - the exposure, aperture and focal length should be pre-set for consistent results.

- wet the core.
- ensure the flash or lights are set, the label is in place and all the core is wet.
- compose photograph, ensuring all the core and the label is in the field of view, focus and shoot.

5 Sampling for Assay (Core Splitting)

5.1 INTRODUCTION

This section of the manual describes the duties of core splitter personnel. It deals with procedures involved in preparing the core to be split, splitting the core in half using a core splitter, sampling the core and preparing the samples for shipment. For discussion on the selection and marking out of samples, see section 2.5.8 of Geology Logging.

The most common procedure for sampling diamond drill core in an exploration project is to split the core in half with a splitting machine or cut it in half with a diamond saw. One half of the core goes into the sample bag which is sent to the assay lab for analysis, the other half is retained in the core box and stored in a core rack for future reference. A two metre sample of half NQ core, yields approximately 4.5 kg of material for assay. When properly split, this sample is representative of the entire length of core sampled, and provides, for most ore types, sufficient material for assaying and other studies.

The core is ready to be sampled after geotechnical logging, geology logging, S.G. logging and core photography are complete and the geologist has submitted the core to be split. Core splitting personnel should be receive detailed instructions before performing this work and use this manual as guide to sampling procedures. It must be stressed that core splitting and sampling work is an important part of the sample preparation process. Careful, methodical work is the key to successful sampling. Core splitting personnel should not hesitate to contact a geologist immediately if there are any questions about sampling procedures, specific samples, or if any problems arise during sampling, (i.e. mixed-up samples, samples that seem too large or too small, missing tags, etc.). It is best to make a note of sampling problems in the log--**even if they cannot be corrected!**--than to ignore them.

NOTE: Do not wear metallic jewellery when sampling, i.e. gold rings, copper bracelets, etc. should **not** be worn.

5.2 EQUIPMENT LIST

Longyear (or similar make) HQ-NQ core splitter, 2 steel or aluminum cake or bread tins to use as sample tins, whisk brush or compressed air unit, spare splitter blades and hardware, wrenches for splitter hardware, short handled 2 lb. sledge hammer, axe handle, two U-bolts, waterproof black magic markers, aluminum tags, pen, 1" nails, eye protection, hearing protection, dust masks,gloves, tablespoon, 12" x 16" 0.4 mil poly bags, twist ties, burlap sacks, shipment tags, completed sample tag book, completed sampling log, completed sample requisition form.

5.3 PROCEDURE

1. MARK SAMPLES WITH ALUMINUM TAGS
   - permanently mark the assay sample locations by affixing an aluminum tag with the sample number and from-to interval written on it underneath the first piece of core at the start of each sample interval.
   - the sample number is on the sample tag which is placed at the start of the sample in the core box.
   - the from-to interval is written on the core itself or on the core box in red lumber crayon. If the from-to interval is unclear, check the sampling log or contact a geologist.

2. ARRANGE CORE BOXES
   - place core to be sampled within reach of the splitting machine.
   - start at the top of the hole with box 1.
   - arrange core boxes so that the lowest depth (nearest surface) is in the top left corner. The core is split along the rows from left to right, then row by row from top to bottom, as you would read a book.
   - samples should be split in consecutive order to avoid mix-ups.

3. MARK SAMPLE BAGS
   - mark sample bags with sample numbers to be used with a permanent black marker. Double-check the marked bags prior to sampling to make sure the sample numbers are correct and that there are no errors, omissions or duplications.

4. PREPARE EQUIPMENT
   - the core splitting area should be swept out and cleaned at the end of each shift.
   - clean out sample tins by inverting them and tapping them on the table

or clean with compressed air to remove all traces of rock material.
- brush off groove of splitting machine with whisk or clean with compressed air to remove all traces of rock material.
- arrange sample tins on either side of the splitting machine to catch the split sample.

5. SPLIT THE CORE
- always wear safety glasses when hammering or splitting core. Hearing protection, dust masks and gloves are also recommended.
- start sampling at the red line marked on the core and/or the core box.
- do not sample material marked "rubble", "caved" or "do not sample", leave it in the box.
- pull dual sample tag from core box and place in sample bag with corresponding number.
- break core so that it will fit into the splitting machine (less than 10 cm long).
- ideally, one half of the core, representing the material from one side of the cylinder of core, will go into the sample. The other half will remain in, or be replaced in the core box in the same position as it was prior to splitting. Pieces of core which have been stained for K-spar (yellow stain) should be sampled so that the stained piece is retained in the core box, stained side up.
- place core in machine so that it rests in the groove.
- orient core so that the plane of foliation (i.e. bedding, shearing, etc.), or the plane of any veins or lithologic contacts are perpendicular to the groove in the splitting machine. This will tend to give the best split, and reduces possible sampling bias.
- wheel down on the core to break it. (It is recommended that an axe handle is attached to the wheel by securing it with U-bolts. This will give the extra leverage necessary to break core by turning the wheel).
- if the core does not break with the wheel, hammer on the plunger in the centre of the wheel until the core breaks.
- the core should split in half with each halve landing in opposite sample tins.
- if the core is not fully or completely split or is "full-round" in cross-section, re-insert in the same orientation and split again. Do not allow any "full-round" pieces to be placed in the sample bag or the core box.
- if the core is soft cut the core with a knife or scrape with a spoon to take half the sample and place it in the sample tin.
- if the core is very rubbly, take approximately half the fragments for the sample tin.

- if the core breaks into a series of thin disks, (full-round), break each disk in half with a hammer and put one half in the sample tin.

6. BAG SAMPLE, RETURN HALF TO CORE BOX
   - one tin is the "sample tin" where the sample is allowed to collect until the entire length of sample has been split or the tray is full. This material then goes into the bag with the sample tag.
   - the other side is the "return tin". This material is returned to the core box after each piece is broken.
   - for a right handed person, the sample is usually collected in the sample tin on the left.
   - after each split is made replace the "return" piece in the core box in the same orientation as it was before being split.
   - **never leave a sample unfinished!** Always complete and bag an entire sample before leaving the splitting area or performing other work.

7. CLEAN EQUIPMENT BETWEEN SAMPLES
   - at the end of each sample, thoroughly clean out the sample tins and the splitting machine to avoid cross-contamination between samples.

8. SEAL AND ARRANGE SAMPLE BAGS
   - when the sample is completely split, seal bag with twist tie and place with other samples from the same hole in order.

9. PLACE SAMPLE BAGS IN SHIPPING SACKS
   - when an entire hole is completely split, the sample bags are ready to be placed in the shipping sacks.
   - place the samples, five to a bag, in the shipping sacks in consecutive order.

10. MARK SHIPPING SACKS
    - number the shipping bags (i.e. 1 of 12, 2 of 12, etc.)
    - do **NOT** mark the drill hole number on **anything** which is shipped to the assay lab.
    - record the shipping sack number for each set of five samples on the sampling log.
    - attach shipping labels on **each** shipping sack, with the address of the assay lab and the address of the company.

11. SHIP SAMPLES TO THE ASSAY LAB
    - complete the sample requisition form and include it in the first shipping

sack.
- seal the shipping sacks and ship a complete hole's worth of sample sacks in the same shipment.

12. RACK THE SPLIT CORE
- after a hole is completed, notify the geologist who logged the hole. They may wish to look at the split core.
- when the geologist is finished with the core, place the core in the core racks in consecutive order by hole, from top to bottom column-wise, then from left to right in the rack.

6 Sample Storage

6.1 INTRODUCTION

Sample storage deserves a reasonable amount of attention in an advanced exploration project. Sample materials provide solid evidence which backs up the exploration data. These materials may be used extensively in the development phase, and it is therefore wise to plan for and provide good storage facilities. All in-situ rock material recovered during a diamond drill coring program should be retained indefinitely in appropriate long-term storage facilities for future use.

6.2 SAMPLE HANDLING

Diamond drill core material should be handled with a great deal of care as it passes through the logging, sampling and shipping procedures which prepare it for assay. The "sample" becomes smaller as the original material is split and divided in several steps along the way to final assay analysis. Each time a split is taken or the sample is divided or subsampled, a "reject" is created. The main forms of "reject" material are:

1. Half of the split core which remains in the box.
2. Crushed material which remains in the sample bag.
3. Pulverized material or "pulp" which is stored in a paper bag.

If the proper sampling procedures are followed, each "reject" should be a **representative sample** of the original cylinder of rock from which it was taken. Thus the remaining rock material or "reject" has considerable value, especially when its

replacement cost is considered. This material should be maintained as a representative sample wherever possible, and stored according to its value. Careful storage and documentation of this material also enhances the ability of geologists, metallurgists, geochemists, engineers and others to independently analyze and evaluate the deposit.

N.B. Rejects which have been improperly sampled, or have been sampled for metallics gold assay, are no longer representative samples and should be marked as such. They generally can not be used again.

6.3 LONG TERM STORAGE

Split diamond drill core and unsampled diamond drill core are generally stored in permanent core racks which are constructed at the exploration site. These structures should be designed to allow easy access to individual core boxes and to shelter the core from the elements. Crushed sample rejects and pulps are generally stored at the assay laboratory in the short term. For the longer term, crushed sample rejects (roughly 4 to 5 kilograms each), should be stored, sorted by assay file number, in wooden boxes mounted on wooden pallets (i.e. apple crates). These crates should be covered if the rejects are stored out-of-doors. Pulps take up the least amount of space of all sample materials (100 to 500 grams each), and should be provided with the best long term storage facilities. Pulps are stored sorted by assay file number in flat cardboard boxes. These boxes should be shelved in a dry warehouse, in an orderly manner, allowing easy access to individual boxes.

6.4 CATALOGUING

All rock materials and samples in storage should be catalogued so they can be identified and pulled for further study. It is recommended that a "Master Assay List" be prepared and kept up-to-date. This list should be a cross-referenced index of all diamond drill holes, sample numbers, lab file numbers and check sample numbers. Every undertaking which causes core material, rejects or pulps to be consumed, re-numbered, duplicated or changed in character (i.e. become non-representative samples), should be carefully documented and filed with the master list. Metallurgical studies, check sampling, special assaying, acid-base accounting, engineering and environmental studies are the most likely to be of concern. All users of the material should discuss their requirements and outline a plan for minimizing disruption to the samples and the storage system.

7 Data Compilation

7.1 INTRODUCTION

The on-going compilation of data is an essential part of an advanced exploration project. This manual describes data compilation which involves: appropriate duplication and filing of original records, transmittal to head office and filing of a duplicate set of records, keypunching and loading of data into a computer database, verification of the computer database, and generation of plans, cross-sections, and other output in the ultimate preparation for reserve estimation work. Data must be compiled in a timely fashion so that it may be readily retrieved soon after it is originally recorded in the field. Compilation in the field should take place on original working copies, which are the most up-to-date and pertinent to the exploration process. Compilation in the head office involves the maintenance of a duplicate set of records and the creation of a master computer database, from which working copies may be distributed from time to time. Field personnel have the responsibility of keeping the head office personnel informed of corrections and changes to be made to the duplicated data set and the master computer database. Head office personnel have the responsibility of conferring with field personnel on all aspects of geologic compilation and the technical details regarding data collection.

7.2 ORIGINAL COPY FILING

The original copies of all diamond drill logs, and all documents pertaining to each drill hole should be filed by drill hole in a secure metal cabinet. It is useful to have three legal size (8.5" x 14") file folders of different colours, i.e. plain, red and blue, for each drill hole. The plain manila file folder would contain all geologic information, including the coded geological forms, synoptic log, S.G. log, downhole survey logs, synoptic cross-section, thin section reports, and any additional geologic logs or other notes pertaining to the drill hole. The red file folder would contain all sampling and assay information, including the sampling log, sample requisition form, all assay results, geochemical results, multi-element results, whole rock analyses, metallic assays, screen analyses, oxide analyses, and check sampling results. The blue file folder would contain all geotechnical and engineering logs, including the geotechnical log, packer test results, piezometer readings, metallurgical sampling information, and other specific engineering logs or notes. Each of the three file folders for each drill hole would be filed in a single hanging file holder.

Core photographs should be filed by drill hole in order in photograph album binders. Albums with removable photograph inserts are the best suited for this purpose.

Negatives should be sorted by drill hole and stored separately from the albums. Core photographs are generally compiled and stored at the head office. Down hole survey tests and completed sample tag books should be kept at for at least 18 months in a safe place at the exploration site.

7.3 DATA TRANSMITTAL

Completed data logs should be transmitted from the exploration site to the head office when all the logging for the drill hole is complete. It is the responsibility of the geologist in charge of the drill hole to ensure that the following completed logs are faxed to the head office as soon as the logging is complete:

- geotechnical
- geological (with all collar and downhole survey information)
- sampling
- synoptic
- synoptic cross-section
- specific gravity log

The geologist should also ensure that the exposed photographic film of the core is sent to the head office, and that assay requisition forms are sent to the assay lab. Arrangements should also be made with the assay lab to have all analytical results faxed to the exploration site as soon as they become available.

7.4 DUPLICATE COPY FILING

A duplicate copy of all drill hole logs and assay results should be kept in the head office. The filing system should be the same as the one used to file the hard copy originals. This filing must be kept up-to-date on a daily basis, as this set will provide a full back-up in the event that the original data set is destroyed. A complete print-out of all verified data from the computer database, sorted by drill hole, should also be kept separate from the computer data storage system. Copies of these print-outs should also be sent to the exploration site and filed there for reference purposes. It is recommended that the following information is copied from the individual drill hole files and made into special topic files:

- thin section reports
- check assay results
- multi-element results
- oxide assay results

- whole rock analyses
- metallics assay results

7.5 KEYPUNCHING

All data logs should be keypunched into a set of intermediate text files as soon as the data is received. The format of the keypunched text files should be similar to the original written files. The keypunched text files should be backed up onto diskette or tape and archived for future reference.

7.6 COMPUTER DATABASE

Once the keypunching is complete, the intermediate text files of logging data are imported and/or merged into the final exploration database. Caution should be exercised when importing or merging data to avoid translation and merging errors. It is recommended that a sole individual be assigned the task of database manager and be responsible for all data loading and merging. To avoid merging errors, a single series of sample numbers should be used for all sampling, including check sampling.

7.7 VERIFICATION

All keypunched and merged data should be verified against the original version and corrected. Verification should be performed by manually comparing each data entry in the **final unverified database** (after all database manipulations are complete), against the **most original data record** available. In the case of drill logs, the final unverified database is checked against the original hand coded geological forms. In the case of assays, the assay lab should demonstrate that it uses a method of checking any keypunched data (i.e. the actual assayer's worksheets, where applicable) against the data recorded on the assay certificate. This can be accomplished either by double entry (i.e. the data is keypunched once from start to finish, and then keypunched again, and the two files are compared and differences noted through a computer utility), or by manual verification of each work sheet record against the certificate record. This will ensure that the assays recorded on the certificates are correct. To ensure that individual assays on the laboratory assay certificate match the company's unverified database records, manual verification is required. Manual verification is best performed in two person teams. One person reads aloud the data from one record and another person checks the other record visually for errors.

7.8 COMPUTER OUTPUT

Once verification and correction of the final database is complete for a series of holes, computer output can be generated. This output can be in many forms, commonly:

- printed data lists
- ASCII test files on diskette
- plotted cross-sections
- plotted surface plans
- plotted level plans

7.9 GEOLOGIC COMPILATION

Geologic compilation should involve the correlation and interpolation of lithology, structure, alteration, mineralization and weathering zones in a series of two dimensional views to create a model which is three dimensionally sound. This is accomplished by detailed re-examination and comparison of drill core and geologic logs from neighbouring drill holes, and the creation of a two dimensional model of the geology, usually on vertical cross-sections. It is essential that this model is checked, either by creating other two dimensional views, such as bench plans and/or longitudinally oriented cross-sections, or by true three dimensional modelling.

The importance of completing a geologic interpolation which is three dimensionally sound, particularly with regard to lithology and structure, cannot be over-emphasized. The continuity of geologic features in three dimensions is an important consideration in detailed exploration drilling, infill drilling, underground exploration and ore reserve estimation.

Although a complete discussion of geologic compilation and three dimensional modelling is outside the scope of this manual, the following approach to this process is one which has been successfully used on other projects.

- geologic compilation is done in sectional views.
- drill hole traces are plotted with geologic information to a suitable scale and with a distance between sections which corresponds to the overall drill pattern.
- where-ever possible, the geologists most familiar with the drill core should perform the correlation work.
- consecutive sections are regularly overlain on a light table and checked for continuity, and re-checked prior to digitizing.
- digitize cross-sections, ("snap" digitized outlines to 3D contact points on drill hole traces, if possible).

- plot a set of bench plans (same as the block model benches) with geological "ticks" (points where geologic information from the cross-sections intersects the mid-points each bench), along with the drill hole traces on the bench (the actual data points).
- re-interpolate the geology on the bench plans and digitize the new interpolation (as above, "snap" to 3D points).
- re-plot the cross-sections and continue the interpolation if necessary, or use the new bench plan model to create the rock model.

The bench plan phase of interpolation produces a model which is incrementally interpolated to the same scale as the block model used in reserve estimation.

8 Check Assaying

8.1 INTRODUCTION

Check assaying is good insurance against the possibility of inaccurate, misrepresented or biased assay results--a major area of concern in any exploration project! A properly established check assaying program can highlight areas of concern in the sampling process and in the assay results as work progresses. A successful program of check sample analysis will allow a positive statement to be made about the reliability and reproducibility of the original assay results.

Check assaying programs are generally designed to investigate the precision and accuracy of the original assay results reported by the original assay lab. This is accomplished by re-submitting re-numbered blind duplicates of the original pulps to the original lab and to a second lab for standard assay. Check assaying programs may also be set up to look into the suitability and reliability of the sample preparation method used, the suitability of various types and sizes of samples and subsamples, and the reproducibility of high grade and/or metallic bearing samples. This manual describes a procedure for selecting and submitting blind duplicate pulp samples and matching the paired data for analysis. Analysis of the paired data, and discussion of the results of this analysis is outside the scope of this manual. It is strongly recommended that a qualified person review the paired data and report on the findings in a timely manner, making recommendations for further investigation, if required.

8.2 SELECTION OF CHECK SAMPLES

Check samples can be selected by a combination of random sampling as the project progresses and by periodic selection from the completed set of assay results. The random samples tend to be well distributed and timely, but include many gangue samples and few higher grade samples. The periodic checks focus on the important higher grade assays. The following steps can be used as a guide to selecting periodic blind pulp samples for check assaying:

1 Create a computer file with all the verified assays in it. This file should have the following information: diamond drill hole number, from, to, sample number, Au assay, Cu assay, Mo assay and lab file number. Obtain a count of the total number of assays.

2 Sort the data by Au assay value, with the highest Au values at the top of the list.

3 Select about 5% of the total samples for checking as follows:

a) determine the number of samples to be selected for checking.

Total samples X 0.05 = Number to be selected for checking

b) select all of the highest 3% of the Au assays and append them to a separate file.

Total samples X 0.03 = Number of top Au assays to be selected

c) remove the top 3% Au values and resort by Cu value.

d) select all of the highest 1% remaining Cu assays and append them to the same file as the top 3% Au values.

Total samples X 0.01 = Number of top Cu assays to be selected

e) remove the top 1% remaining Cu values, and also remove all values in the range from the detection limit to low background from the list.

f) sort by drill hole and select samples randomly over a range of drill holes to include samples from various time periods and zones.

8.3 PREPARATION AND ASSAY

Ideally, the pulps selected in section 8.2 should be sent to the company for splitting and re-numbering under the direct supervision of a qualified company geologist or geochemist. Since most mining exploration companies do not have the proper facilities or the personnel available to perform this work, the splitting and re-numbering of the pulps should be performed at a second lab. The second lab should also perform the second or intra-lab check on the duplicate pulp.

Pulps should be divided into two samples using standard analytical laboratory techniques which avoid imparting any sampling bias or causing cross-contamination of the pulps. One split is returned to the original pulp bag for assay by the second lab. The second split goes into the renumbered bag for that sample. Care must be taken so that there is no way of determining the identity of the original sample from the re-numbered pulp. This re-numbered pulp is then sent to the original lab for standard analysis.

All check assaying should be performed using the same standard techniques used in the original analysis. As with original assays, the labs should demonstrate that all keypunched data has been verified against the assay certificates where applicable.

8.4 MATCHING PAIRED DATA

When the original analytical results for the check assays are returned from the original and second assay lab, the checks are merged with the original results. Merging will result in three matched pairs for comparison as follows:

A Original lab, original assay vs Original lab, blind assay
B Original lab, original assay vs Second lab, blind assay
C Original lab, blind assay vs Second lab, blind assay

These pairs can be analyzed by a variety of statistical techniques, including: histograms, scatterplots, regression analysis, etc. Pair A is the most important to consider, as it reflects the precision of the original lab in reproducing its own results. Pairs B and C compare the relative accuracy of the two labs and generally has slightly poorer correlation than Pair A.

8.5 VERIFICATION

All data, and check assay data in particular, should be verified. This is accomplished by manually checking the matched pair file against the three sets of assay certificates and the re-numbering list. This must be done prior to performing any statistical analysis.

9 Database Management

9.1 INTRODUCTION

The master computer database will contain all the diamond drill hole information to which the interpolated, geologic, topographic and engineering information will be added for ore reserve estimation. The key to proper database management is **maintaining the integrity of the master version** of the database as exploration proceeds. This involves keeping the master database reasonably up-to-date, ensuring that the data in it has been verified against the original records, that corrections to the data are properly applied, and that all transactions involving the database are carefully documented. To properly maintain this integrity, there should be **only one** person solely in charge of the master database.

A strict rule of database management is that there exists only **ONE** official master version of the database. Many copies of this database may exist; however for any additions, corrections or modifications to be database to take effect, they must be documented and submitted to the database manager to be recorded in the official master version. This manual describes techniques for maintaining the integrity of a master drill hole database.

9.2 LOADING DATA

The master computer database should contain the following sets of data for each diamond drill hole:

HEADER
- diamond drill hole number as a string (i.e. "92-57")
- diamond drill hole number as an integer (i.e. "57")
- core size (i.e. NQ, HQ, XX for no core)

- zone
- claim the ddh is collared in
- assay type (i.e. totally assayed, partly assayed, geochem., not assayed, etc.)
- type of ddh (i.e. infill, delineation, step-out, wild-cat, geotech., metallurgical, etc.)
- depth of casing
- verification level (i.e. all, collars surveys only, assays, none, etc.)

COLLAR SURVEY
- northing
- easting
- elevation
- azimuth
- inclination (dip)

DOWNHOLE SURVEYS
- depth of survey
- azimuth
- inclination

GEOTECHNICAL DATA
- all columns from the log
- all calculated columns

GEOLOGICAL DATA
- all columns from the computer log
- all intervals to be calculated

ASSAY AND S.G. DATA
- from, to, sample number from sampling log
- original assay certificate number
- assay results from lab certificates
- S.G.'s from S.G. log keyed to sample number
- all intervals to be calculated

9.3 MANIPULATIONS

"Manipulations" refers to all calculations which must be performed on data after it has been keypunched, including calculation of from-to intervals, percent recovery, etc. All manipulations should be performed **prior** to verification. The results of all manipulations should be checked, as they are generally not a part of the regular verification process. If manipulations are to be made within the master database, the

entire master database should be backed up, dated and archived prior to manipulation.

9.4 VERIFICATION AND CORRECTION

Section 7.5 describes the procedure for verifying keypunched and merged data in the master database. It is the responsibility of the database manager to ensure that the appropriate corrections are also verified. Once the final data manipulations have been made, and the database has been verified and corrected, the verification level should be noted in the database header. At this point it is also wise to make the database "read only" or "write protected". Corrections which post-date the verification process, should be noted as a memo to the database and these memos maintained in separate hard-copy file in chronological order. The database should be backed-up after each correction, and the dated back-up kept in a secure place separate from the master database.

APPENDICES

APPENDIX A

STAINING PROCEDURE FOR DETERMINATION OF POTASSIUM FELDSPAR

Potassium feldspar has an important association with alkalic and calc-alkalic copper porphyry deposits. It may occur as a primary component of intrusive "porphyry" rocks and surrounding volcanic rocks. It is also important as a secondary mineral in copper porphyry deposits, occurring in syn-mineralization veins, dykes, and alteration halos which define the "Potassic Zone". Fine grained K-spar is indistinguishable from fine plagioclase feldspar and fine silica in hand specimen. The sodium cobaltnitrite staining procedure is a good field test which allows for rapid evaluation of the potassium feldspar content of a rock.

CAUTION: HYDROFLUORIC ACID (HF) IS EXTREMELY TOXIC!

- improper handling of this acid can be fatal!
- contact with the eyes causes permanent blindness!
- inhaling the fumes causes permanent lung damage!
- contact with the skin causes severe burns and may cause permanent tissue and bone damage!
- even very dilute HF will burn flesh!

SAFETY PRECAUTIONS

- allow only trained personnel to handle hazardous materials such as HF.
- read all safety information provided by law with each shipment of reagents and keep these with the reagents.
- keep plenty of fresh water, an eye rinsing device and HF antidote handy at all times.
- perform etching in a well ventilated area preferably under a fume hood.
- do not allow HF to come into contact with the face, skin or clothing, **always** keep exposed skin covered, wear rubber gloves, and protective eye wear when handling HF or etched rocks.

APPENDIX A
K-SPAR STAINING

NOTES FOR SUCCESSFUL STAINING

A. Use safety equipment.
B. Keep reagents above 10 degrees C.
C. Make up new Sodium Cobaltinitrite solution after staining 20 to 40 specimens.
D. Use "semi-conductor grade" (48%) HF for etching rocks.
E. Change the HF solution at least every two days.
F. Do not attempt to etch cold or frozen rocks.
G. Do not etch for too long.
H. Change the rinse water daily.
I. Keep the fume hood area clean.

MIXING SODIUM COBALTNITRITE SOLUTION

1. Empty stale chemicals into a designated waste pail.
2. Wash out plastic staining dish.
3. Add approximately 20 ml of hot water to plastic mixing bottle.
4. Measure 20 grams of Sodium Cobaltnitrite on balance.
5. Add Sodium Cobaltnitrite powder to mixing bottle, replace lid and shake thoroughly to dissolve crystals.
6. Pour solution into shallow plastic container. Keep lid on when not in use.

PREPARING HYDROFLUORIC ETCH BATH

1. Carefully pour HF into dry, shallow plastic container.
2. Keep lid on container when not in use.

STAINING PROCEDURE

1. Sample should be at room temperature and free of grease, mud and dirt.
2. Rinse sample in water, then place sample in HF etching tray using tongs. (unlike some acids, water can be safely added to HF).
3. Etch sample in HF solution for approx. 20 to 45 seconds.
4. Remove sample with tongs and rinse in water.
5. Place etched side in Sodium Cobaltnitrite solution for approximately 60 to 90 seconds.
6. Rinse sample thoroughly in water. Do **NOT** wipe the stained surface.

GEOTECHNICAL LOG FORM

GEOTECHNICAL LOG
CASINO PROJECT

LOGGED BY:

DATA ENTRY
DATE:
BY:

DATA CHECKING
DATE:
BY:

DDH
Page
of
DATE

FROM	TO	LENGTH	REC	REC%	RQD	RQD%	BRKG	HARD	WTHR	XJNT	XJ/M	BJNT	BJ/M	SHAPE	RGH	REMARKS

SPECIFIC GRAVITY LOG FORM

SPECIFIC GRAVITY
CASINO PROJECT

	DATA ENTRY	DATA CHECKING
LOGGED BY:	DATE:	DATE:
	BY:	BY:

DDH

DATE

Page

of

SAMPLE No.	DEPTH metres	MASS IN AIR (Ma)	MASS IN WATER (Mw)	CORE VOLUME (Vc = Ma Mw)	S.G. (Ma/Vc)

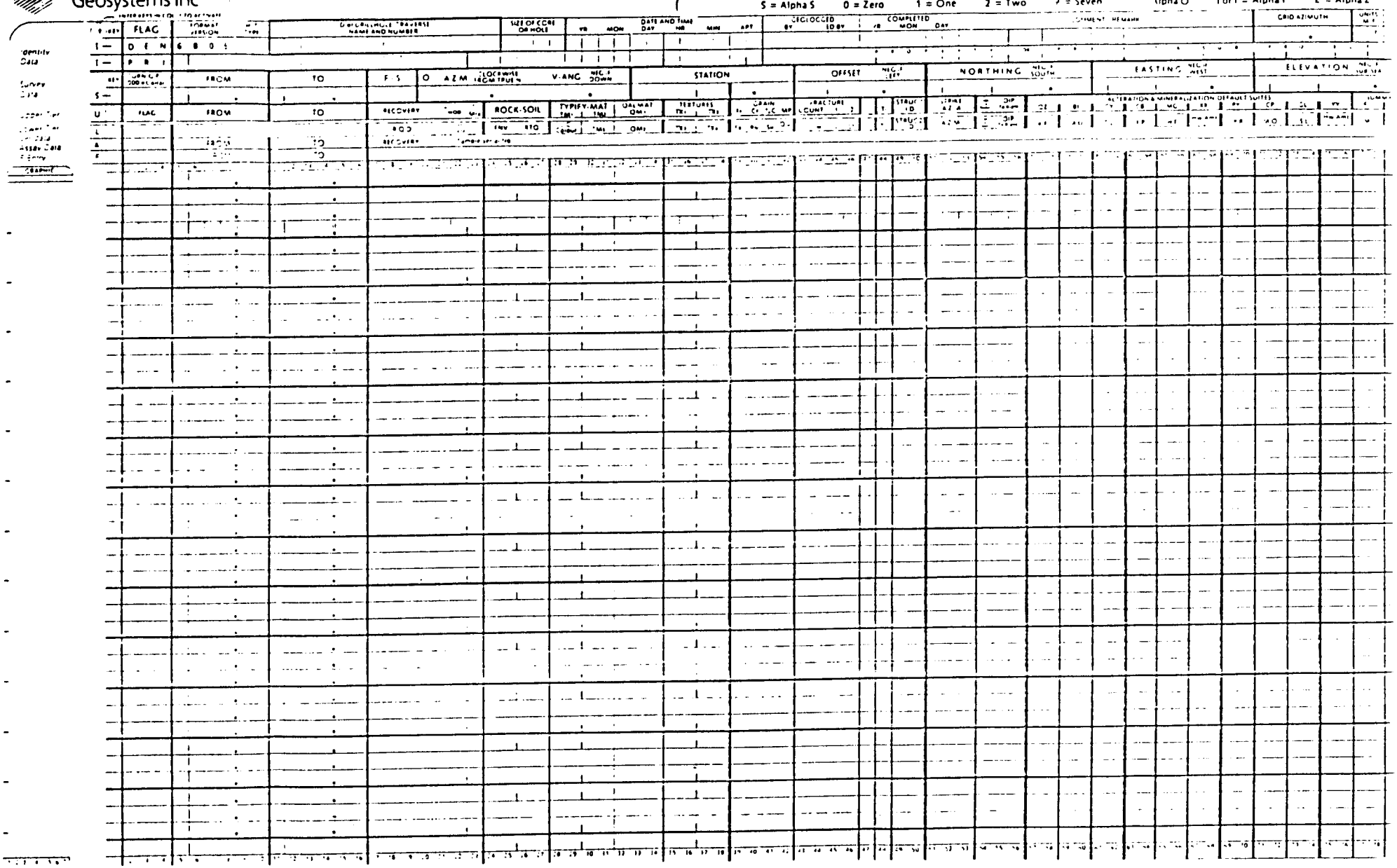
GEOLOG, HEADER FORM

Lynx
Geosystems Inc

Geolog System

Geof

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Alpha O I or l = Alpha I Z = Alpha Z



LOGGING FORMS

SYNOPTIC LOG, HEADER FORM

SYNOPTIC DRILL LOG
CASINO PROJECT

Hole Number		Total Depth			
Northing		Casing Depth			Left In or Out
Easting		Survey Data	Azimuth	Dip	Instrument
Elevation		Collar			
Core Size					
Drilling Started					
Drilling Finished					
Logged by					

Purpose/Target:

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	RQD	Visual Grade Cu%	Visual Grade MoS2%	*Comments*

SYNOPTIC LOG, SECONDARY FORM

SYNOPTIC DRILL LOG
CASINO PROJECT

HOLE NO.

Page of

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	RQD	Visual Grade Cu%	Visual Grade MoS2%	Comments

APPENDIX E
OTHER FORMS

SUMMARY LOG, HEADER FORM

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number		Total Depth			
Northing		Casing Depth		Left In or Out	
Easting		Survey Data	Azimuth	Dip	Instrument
Elevation		Collar			
Core Size					
Drilling Started					
Drilling Finished					
Logged by					

Purpose/Target:

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	RQD	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)

APPENDIX E
OTHER FORMS

SUMMARY LOG, SECONDARY FORM

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO.

Page of

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	RQD	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)

APPENDIX VIII

SUMMARY DRILL LOGS

093190

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-123	**Total Depth**	452.43 m		
Northing	254,955.09	**Casing Depth**			Left In
Easting	111,630.63	**Survey Data**	**Azimuth**	**Dip**	**Instrument**
Elevation	1160.84 m	**Collar**		-90.0°	
Core Size	HQ to 182.88 and NQ to 452.43	306.6 m	317°	-88.9°	Sperry Sun
Drilling Started	June 9, 1992/May 1, 1993	452.9 m	338°	-88.8°	Sperry Sun
Drilling Finished	June 12, 1992/May 6, 1993				
Logged by	T. Becker				

Purpose/Target: To deepen drill hole 92-123 and to test the zone at depth.

Comments: Dominately heterolithic breccia with zones of Patton Porphyry, mainly altered to potassic in matrix with phyllic clasts.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.23	8.23		OVB							
8.23	11.12	2.89	562001	CAP	BRXC	5	8440	0.05	0.022	0.27	1.8
11.12	14.33	3.21	562002	CAP	BRXC	5	6950	0.11	0.040	0.62	3.0
14.33	17.37	3.04	562003	CAP	BRXT	5	4440	0.13	0.042	0.58	3.2
17.37	20.42	3.05	562004	CAP	BRXT	5	8540	0.18	0.058	0.48	1.8
20.42	23.47	3.05	562005	CAP	BRXC	5	8640	0.19	0.040	0.99	2.9
23.47	26.52	3.05	562006	SUS	BRXC	5	8740	0.51	0.022	0.75	1.7
26.52	29.56	3.04	562007	SUS	BRXT	5	8740	1.40	0.037	0.65	3.2
29.56	32.61	3.05	562008	SUS	BRXC	5	9600	1.08	0.067	1.40	3.1
32.61	35.66	3.05	562009	SUS	BRXC	5	10040	1.18	0.052	1.20	4.4
35.66	39.78	4.12	562010	SUS	BRXC	5	7440	1.61	0.043	0.86	10.1
39.78	44.20	4.42	562011	SUS	BRXC	5	10940	1.26	0.043	1.34	4.9
44.20	48.16	3.96	562012	SUS	BRXC	5	10740	1.09	0.035	1.10	4.4
48.16	51.51	3.35	562013	SUS	BRXC	3	4740	0.76	0.018	0.75	1.7
51.51	55.47	3.96	562014	SUS	BRXC	3	10940	0.67	0.038	0.68	2.5
55.47	58.52	3.05	562015	SUS	BRXC	3	10740	0.55	0.043	0.68	3.0
58.52	61.57	3.05	562016	SUS	BRXC	3	10590	0.43	0.048	2.05	2.3
61.57	64.62	3.05	562017	SUS	BRXC	3	10630	0.56	0.045	0.89	3.5
64.62	67.66	3.04	562018	SUS	BRXT	5	10360	0.60	0.053	0.92	3.5
67.66	70.71	3.05	562019	SUS	BRXT	5	11030	0.51	0.050	0.75	1.8
70.71	73.76	3.05	562020	SUS	BRXT	5	10040	0.48	0.062	0.72	3.6
73.76	76.81	3.05	562021	SUS	BRXC	2	11040	0.82	0.078	0.96	4.2
76.81	79.86	3.05	562022	SUS	BRXC	2	9730	0.57	0.060	0.79	2.8
79.86	82.90	3.04	562023	SUS	BRXC	2	9725	0.40	0.047	0.48	1.7
82.90	85.95	3.05	562024	SUS	BRXC	2	9470	1.00	0.058	1.13	3.5
85.95	89.00	3.05	562025	SUS	BRXC	2	11300	0.59	0.050	0.89	2.7
89.00	92.05	3.05	562026	SUS	BRXC	2	12640	0.57	0.052	0.65	2.7
92.05	95.10	3.05	562027	SUS	BRXC	2	13340	0.51	0.052	0.68	2.8
95.10	98.14	3.04	562028	SUS	BRXC	1	13550	0.49	0.035	0.68	8.2
98.14	101.19	3.05	562029	SUS	BRXC	2	11430	0.44	0.048	0.48	1.8
101.19	104.24	3.05	562030	SUS	BRXC	2	13100	0.54	0.047	0.72	3.5
104.24	107.29	3.05	562031	HYP	PPXX	7	12245	0.38	0.037	0.41	1.2
107.29	110.34	3.05	562032	HYP	PPXX	7	11730	0.40	0.038	0.45	2.6
110.34	113.38	3.04	562033	HYP	PPXX	7	13500	0.43	0.030	0.58	1.4
113.38	116.43	3.05	562034	HYP	BRXC	2	11600	0.33	0.055	0.45	1.1

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
116.43	119.48	3.05	562035	HYP	BRXC	2	13600	0.31	0.042	0.45	1.7
119.48	122.53	3.05	562036	HYP	BRXC	2	12840	0.32	0.037	0.51	0.9
122.53	125.58	3.05	562037	HYP	PPXX	7	13530	0.23	0.022	0.38	1.3
125.58	128.62	3.04	562038	HYP	PPXX	7	12720	0.24	0.010	0.27	0.9
128.62	131.67	3.05	562039	HYP	PPXX	7	12330	0.29	0.018	0.51	1.3
131.67	134.72	3.05	562040	HYP	BRXC	2	13700	0.40	0.032	1.34	6.1
134.72	137.77	3.05	562041	HYP	BRXC	2	13450	0.50	0.028	0.31	13.4
137.77	140.82	3.05	562042	HYP	BRXC	2	13400	0.35	0.042	0.21	4.2
140.82	143.86	3.04	562043	HYP	BRXC	2	12130	0.45	0.032	0.34	3.4
143.86	146.91	3.05	562044	HYP	BRXC	2	12430	0.38	0.050	0.38	5.0
146.91	149.96	3.05	562045	HYP	PPXX	2	12600	0.29	0.045	0.31	2.8
149.96	153.01	3.05	562046	HYP	BRXC	2	11900	0.31	0.042	0.34	2.1
153.01	156.06	3.05	562047	HYP	PPXX	2	14310	0.31	0.017	0.27	5.1
156.06	159.10	3.04	562048	HYP	PPXX	7	13740	0.44	0.028	0.68	4.8
159.10	162.15	3.05	562049	HYP	BRXC	7	12230	0.64	0.055	0.68	2.5
162.15	165.20	3.05	562050	HYP	BRXC	7	10840	0.61	0.053	0.75	2.6
165.20	168.25	3.05	562051	HYP	BRXC	7	12430	0.44	0.033	0.55	2.6
168.25	171.30	3.05	562052	HYP	BRXC	7	14020	0.51	0.017	0.79	3.7
171.30	174.34	3.04	562053	HYP	BRXC	7	11550	0.51	0.020	0.82	2.2
174.34	177.39	3.05	562054	HYP	PPXX	7	13260	0.55	0.012	0.65	2.9
177.39	180.44	3.05	562055	HYP	PPXX	7	11540	0.46	0.017	0.55	2.0
180.44	182.88	2.44	562056	HYP	PPXX	7	9400	0.45	0.028	0.62	1.7
182.88	185.01	2.13	563611	HYP	IXAF	7	3900	1.22	0.092	1.20	
185.01	188.06	3.05	563612	HYP	IXPA	7	6760	0.54	0.054	0.45	
188.06	191.11	3.05	563613	HYP	IXPA	7	7020	0.74	0.086	0.82	
191.11	194.16	3.05	563614	HYP	IXPA	7	6440	0.91	0.136	0.58	
194.16	197.21	3.05	563615	HYP	IXPA	7	6400	0.29	0.088	0.17	
197.21	200.25	3.04	563616	HYP	IXPA	7	6480	0.07	0.111	0.07	
200.25	203.30	3.05	563617	HYP	IXAF	7	6500	0.32	0.120	0.31	
203.30	206.35	3.05	563618	HYP	IXAF	7	6580	0.59	0.043	0.69	
206.35	209.40	3.05	563619	HYP	PPXX	7	6940	0.08	0.010	0.14	
209.40	212.45	3.05	563620	HYP	PPXX	7	7380	0.07	0.001	0.07	
212.45	215.49	3.04	563621	HYP	IXAF	7	6600	0.20	0.045	0.21	
215.49	218.54	3.05	563622	HYP	IXAF	7	6900	0.24	0.031	0.21	
218.54	221.59	3.05	563623	HYP	IXPA	7	6800	0.55	0.081	0.51	
221.59	224.64	3.05	563624	HYP	IXAF	7	5520	0.47	0.075	0.65	
224.64	227.69	3.05	563625	HYP	IXAF	7	6280	0.29	0.074	0.27	
227.69	230.73	3.04	563626	HYP	IXAF	7	6200	0.65	0.061	0.65	
230.73	233.78	3.05	563627	HYP	IXAF	7	6120	0.20	0.038	0.21	
233.78	236.83	3.05	563628	HYP	PPXX	7	6760	0.18	0.011	0.21	
236.83	239.88	3.05	563629	HYP	LTDX	1	6200	0.09	0.005	0.10	
239.88	241.71	1.83	563630	HYP	F/ZN	3	5040	0.19	0.021	0.21	
241.71	244.75	3.04	563631	HYP	F/ZN	3	6480	0.19	0.039	0.14	
244.75	249.02	4.27	563632	HYP	IXAC	7	8510	0.28	0.078	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
249.02	251.46	2.44	563633	HYP	IXAF	7	4300	0.24	0.047	0.17	
251.46	254.51	3.05	563634	HYP	IXAF	7	6320	0.34	0.052	0.31	
254.51	257.56	3.05	563635	HYP	IXAF	7	5850	0.39	0.076	0.34	
257.56	260.76	3.20	563636	HYP	IXPA	7	6450	0.25	0.076	0.24	
260.76	264.26	3.50	563637	HYP	IXPB	7	7300	0.28	0.073	0.34	
264.26	267.31	3.05	563638	HYP	IXPB	7	6460	0.31	0.040	0.27	
267.31	270.36	3.05	563639	HYP	PPXX	7	6700	0.39	0.030	0.38	
270.36	273.41	3.05	563640	HYP	IXAF	7	6010	0.26	0.055	0.38	
273.41	276.45	3.04	563641	HYP	IXAF	7	6650	0.43	0.095	0.65	
276.45	279.50	3.05	563642	HYP	IXPA	7	6220	0.27	0.076	0.27	
279.50	282.55	3.05	563643	HYP	IXAC	7	6200	0.28	0.026	0.45	
282.55	285.60	3.05	563644	HYP	IXPA	7	6120	0.30	0.076	0.34	
285.60	288.65	3.05	563645	HYP	IXAF	7	6700	0.33	0.058	0.48	
288.65	291.69	3.04	563646	HYP	IXAF	7	5800	0.28	0.062	0.48	
291.69	294.74	3.05	563647	HYP	IXAF	7	7220	0.35	0.099	0.34	
294.74	297.79	3.05	563648	HYP	IXAF	7	6120	0.30	0.093	0.24	
297.79	300.23	2.44	563649	HYP	IXAF	7	5180	0.37	0.110	0.45	
300.23	303.43	3.20	563650	HYP	IXAF	7	6420	0.37	0.114	0.65	
303.43	306.63	3.20	563651	HYP	IXAF	7	15450	0.26	0.055	0.31	
306.63	309.83	3.20	563652	HYP	IXAF	7	15250	0.22	0.072	0.34	
309.83	313.03	3.20	563653	HYP	IXAF	7	15800	0.26	0.077	0.38	
313.03	316.08	3.05	563654	HYP	IXAF	7	14450	0.35	0.070	0.72	
316.08	319.13	3.05	563655	HYP	IXPA	7	7660	0.36	0.062	0.55	
319.13	322.17	3.04	563656	HYP	IXAF	7	7250	0.42	0.069	0.38	
322.17	325.22	3.05	563657	HYP	IXAF	7	6580	0.69	0.090	0.82	
325.22	328.27	3.05	563658	HYP	IXAF	7	7650	0.39	0.068	0.24	
328.27	331.32	3.05	563659	HYP	IXAF	7	7140	0.22	0.062	0.21	
331.32	334.37	3.05	563660	HYP	IXAF	7	6700	0.33	0.075	0.41	
334.37	337.41	3.04	563661	HYP	IXAF	7	7580	0.32	0.074	0.45	
337.41	340.46	3.05	563662	HYP	IXAF	7	7020	0.28	0.078	0.34	
340.46	343.51	3.05	563663	HYP	IXAF	7	6500	0.33	0.057	0.51	
343.51	346.56	3.05	563664	HYP	IXAF	7	6940	0.31	0.053	0.55	
346.56	349.61	3.05	563665	HYP	IXAF	7	7040	0.24	0.033	0.31	
349.61	352.65	3.04	563666	HYP	IXAF	7	7090	0.16	0.031	0.48	
352.65	355.70	3.05	563667	HYP	IXAF	7	7220	0.33	0.039	0.48	
355.70	358.75	3.05	563668	HYP	IXAF	7	6640	0.19	0.036	0.21	
358.75	361.80	3.05	563669	HYP	IXAF	7	6900	0.23	0.034	0.27	
361.80	364.85	3.05	563670	HYP	IXAF	7	6930	0.25	0.030	0.27	
364.85	367.89	3.04	563671	HYP	IXAF	7	7050	0.19	0.036	0.24	
367.89	370.94	3.05	563672	HYP	IXAF	7	7300	0.27	0.041	0.31	
370.94	373.99	3.05	563673	HYP	IXAF	7	7020	0.16	0.037	0.24	
373.99	377.04	3.05	563674	HYP	IXPA	7	6750	0.28	0.030	0.34	
377.04	380.09	3.05	563675	HYP	IXAF	7	7320	0.25	0.038	0.24	
380.09	383.13	3.04	563676	HYP	IXAF	7	6020	0.34	0.048	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
383.13	386.18	3.05	563677	HYP	IXAF	7	6530	0.43	0.059	0.48	
386.18	389.23	3.05	563678	HYP	IXAF	7	6710	0.35	0.035	0.51	
389.23	392.28	3.05	563679	HYP	IXAF	7	6750	0.36	0.042	0.34	
392.28	395.33	3.05	563680	HYP	IXAF	7	6540	0.19	0.028	0.17	
395.33	398.37	3.04	563681	HYP	IXAF	7	6560	0.24	0.030	0.24	
398.37	401.42	3.05	563682	HYP	IXAF	7	6420	0.28	0.043	0.27	
401.42	404.47	3.05	563683	HYP	IXAF	7	7180	0.22	0.035	0.24	
404.47	407.52	3.05	563684	HYP	IXAF	7	7160	0.32	0.035	0.31	
407.52	410.57	3.05	563685	HYP	IXAF	7	6280	0.19	0.009	0.17	
410.57	413.61	3.04	563686	HYP	PPXX	7	6660	0.17	0.009	0.14	
413.61	416.66	3.05	563687	HYP	PPXX	7	6920	0.28	0.017	0.27	
416.66	419.71	3.05	563688	HYP	PPXX	7	7420	0.26	0.013	0.38	
419.71	422.76	3.05	563689	HYP	PPXX	7	6720	0.28	0.014	0.34	
422.76	425.81	3.05	563690	HYP	PPXX	7	7600	0.24	0.006	0.27	
425.81	428.85	3.04	563691	HYP	PPXX	7	6620	0.22	0.013	0.27	
428.85	431.90	3.05	563692	HYP	PPXX	7	6600	0.18	0.011	0.41	
431.90	434.95	3.05	563693	HYP	IXAF	5	7060	0.07	0.039	0.03	
434.95	438.00	3.05	563694	HYP	IXAF	5	6600	0.11	0.078	0.10	
438.00	441.05	3.05	563695	HYP	IXAF	5	6840	0.06	0.021	0.03	
441.05	443.79	2.74	563696	HYP	IXAF	5	6300	0.06	0.026	0.00	
443.79	446.84	3.05	563697	HYP	IXAF	5	6220	0.11	0.036	0.03	
446.84	450.04	3.20	563698	HYP	IXAC	5	6840	0.09	0.047	0.07	
450.04	452.43	2.39	563699	HYP	IXAC	5	6020	0.13	0.123	0.10	
452.43	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-124	Total Depth	485.24 m		
Northing	254,870.06	Casing Depth	13.41 m		Left In
Easting	111,621.84	Survey Data	Azimuth	Dip	Instrument
Elevation	1150.60 m	Collar			
Core Size	HQ to 182.88, NQ to 485.24	306.93 m	325°	-88.9°	
Drilling Started	June 12, 1992/May 6, 1993	459.33 m	310°	-89.0°	
Drilling Finished	June 15, 1992/May 12, 1993				
Logged by	T. Becker				

Purpose/Target: Hole 92-124 encountered good mineralization to 182.88 m.
Hole 93-124 tested the extension of the zone to 485.24 m

Comments: Dominately heterolithic breccia with Patton Porphyry dykes,
mainly altered to potassic in matrix with phyllic/argillic clasts.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	6.71	4.27	H562057	CAP	BRXC	3	3100	0.040	0.009	0.07	0.5
6.71	11.28	4.57	H562058	CAP	BRXC	3	5400	0.030	0.014	0.68	2.5
11.28	14.17	2.89	H562059	SUS	BRXC	5	3050	1.900	0.017	1.51	5.0
14.17	17.53	3.36	H562060	SUS	BRXC	5	8000	1.960	0.025	1.13	3.5
17.53	21.03	3.50	H562061	SUS	BRXC	5	3200	1.190	0.017	0.93	2.0
21.03	24.99	3.96	H562062	SUS	BRXC	5	8900	1.610	0.022	0.86	3.6
24.99	28.04	3.05	H562063	SUS	BRXC	5	8850	1.880	0.023	1.03	6.4
28.04	31.09	3.05	H562064	SUS	BRXC	5	8100	1.770	0.020	1.13	5.0
31.09	34.14	3.05	H562065	SUS	BRXC	5	5750	1.820	0.025	1.31	18.4
34.14	37.19	3.05	H562066	SUS	BRXC	5	8850	1.340	0.038	1.16	3.5
37.19	40.23	3.04	H562067	SUS	PPXX	3	8800	1.060	0.004	0.86	2.9
40.23	43.28	3.05	H562068	SUS	PPXX	7	6500	1.110	0.005	1.34	3.2
43.28	46.33	3.05	H562069	SUS	BRXC	5	4750	1.080	0.016	0.86	3.7
46.33	50.14	3.81	H562070	SUS	BRXC	5	7900	2.990	0.040	3.63	8.5
50.14	53.64	3.50	H562071	SUS	BRXC	5	7800	1.530	0.023	1.54	4.2
53.64	56.54	2.90	H562072	SUS	BRXC	5	10000	1.510	0.026	1.54	4.0
56.54	59.89	3.35	H562073	SUS	BRXC	5	8200	0.840	0.033	0.82	3.4
59.89	63.70	3.81	H562074	SUS	BRXC	5	14250	1.540	0.048	1.99	9.2
63.70	67.67	3.97	H562075	SUS	BRXC	5	15000	1.120	0.051	1.03	3.4
67.67	70.71	3.04	H562076	HYP	BRXC	2	11500	0.400	0.032	0.48	1.6
70.71	75.29	4.58	H562077	HYP	BRXC	2	18550	0.540	0.036	0.68	2.0
75.29	78.03	2.74	H562078	HYP	BRXC	2	9250	0.390	0.038	0.55	1.3
78.03	82.30	4.27	H562079	HYP	BRXC	2	16100	0.680	0.043	0.79	2.1
82.30	85.34	3.04	H562080	HYP	BRXC	2	9500	0.950	0.042	1.23	2.8
85.34	88.54	3.20	H562081	HYP	BRXC	2	12900	1.160	0.040	1.23	6.6
88.54	91.59	3.05	H562082	HYP	BRXC	5	13000	0.790	0.046	0.65	4.0
91.59	94.79	3.20	H562083	HYP	BRXC	3	13700	0.620	0.037	0.72	3.9
94.79	97.99	3.20	H562084	HYP	META	3	12500	0.620	0.029	0.62	2.6
97.99	101.04	3.05	H562085	HYP	META	1	13250	0.440	0.010	0.41	1.9
101.04	104.24	3.20	H562086	HYP	BRXC	2	12400	0.650	0.018	0.72	2.3
104.24	106.80	2.56	H562087	HYP	BRXC	2	11000	0.260	0.022	0.27	1.1
106.80	110.34	3.54	H562088	HYP	BRXC	3	13000	0.150	0.010	0.21	0.6
110.34	113.39	3.05	H562089	HYP	META	1	15200	0.300	0.013	0.34	1.2

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
113.39	116.43	3.04	H562090	HYP	BRXC	1	13300	0.420	0.009	0.48	1.4
116.43	119.48	3.05	H562091	HYP	BRXC	2	11000	0.370	0.048	0.38	2.6
119.48	122.53	3.05	H562092	HYP	BRXC	2	11400	0.360	0.055	0.48	1.1
122.53	125.58	3.05	H562093	HYP	PPXX	1	10200	0.390	0.038	0.45	1.4
125.58	129.08	3.50	H562094	HYP	PPXX	1	11800	0.500	0.013	0.51	1.9
129.08	132.13	3.05	H562095	HYP	PPXX	2	11500	0.190	0.027	0.27	1.0
132.13	136.25	4.12	H562096	HYP	PPXX	1	14600	0.570	0.025	0.62	1.6
136.25	139.29	3.04	H562097	HYP	PPXX	1	12200	0.460	0.023	0.48	1.6
139.29	142.34	3.05	H562098	HYP	BRXC	2	11400	0.650	0.060	0.68	2.3
142.34	145.39	3.05	H562099	HYP	BRXC	2	12500	0.420	0.108	0.48	1.3
145.39	148.44	3.05	H562100	HYP	BRXC	2	11400	0.470	0.063	0.38	1.3
148.44	151.49	3.05	H562101	HYP	BRXC	2	11700	0.570	0.060	0.51	1.9
151.49	154.53	3.04	H562102	HYP	BRXC	2	11700	0.420	0.070	0.34	1.7
154.53	157.58	3.05	H562103	HYP	BRXC	2	12350	0.680	0.062	0.82	3.6
157.58	160.63	3.05	H562104	HYP	BRXC	2	13750	0.970	0.030	1.27	3.7
160.63	163.68	3.05	H562105	HYP	BRXC	2	13800	0.990	0.061	1.23	3.8
163.68	166.73	3.05	H562106	HYP	BRXC	1	12650	1.280	0.116	2.16	4.7
166.73	170.54	3.81	H562107	HYP	BRXC	1	13500	0.680	0.063	0.72	3.8
170.54	174.35	3.81	H562108	HYP	BRXC	1	14450	0.610	0.096	0.62	2.9
174.35	177.39	3.04	H562109	HYP	BRXC	1	16200	0.580	0.104	0.51	2.3
177.39	180.44	3.05	H562110	HYP	BRXC	1	12000	0.620	0.095	0.72	3.5
180.44	182.88	2.44	H562111	HYP	BRXC	1	10900	0.620	0.070	0.86	2.3
182.88	185.01	2.13	563700	HYP	IXAF	7	3000	0.49	0.047	0.58	
185.01	188.06	3.05	563701	HYP	IXAF	7	7500	0.52	0.030	0.41	
188.06	191.11	3.05	563702	HYP	IXAF	7	7020	0.61	0.066	0.65	
191.11	193.85	2.74	563703	HYP	IXPA	7	5900	0.63	0.063	0.62	
193.85	196.90	3.05	563704	HYP	PPXX	7	6500	0.16	0.032	0.17	
196.90	199.95	3.05	563705	HYP	PPXX	7	7100	0.16	0.009	0.10	
199.95	203.30	3.35	563706	HYP	IXPA	7	7220	0.27	0.042	0.24	
203.30	206.35	3.05	563707	HYP	IXPA	7	6640	0.20	0.022	0.17	
206.35	209.40	3.05	563708	HYP	IXPA	7	6680	0.67	0.078	0.48	
209.40	212.45	3.05	563709	HYP	IXPA	7	7280	0.54	0.083	0.51	
212.45	215.49	3.04	563710	HYP	IXPA	7	6980	0.44	0.092	0.45	
215.49	218.54	3.05	563711	HYP	IXPA	7	6700	0.54	0.078	0.69	
218.54	221.59	3.05	563712	HYP	IXPA	7	6740	0.42	0.140	0.48	
221.59	224.64	3.05	563713	HYP	IXPA	7	7260	0.71	0.102	0.75	
224.64	227.69	3.05	563714	HYP	IXPA	7	6860	0.46	0.163	0.55	
227.69	230.73	3.04	563715	HYP	IXPA	7	6680	0.38	0.100	0.48	
230.73	233.78	3.05	563716	HYP	IXPA	7	7040	0.57	0.136	0.79	
233.78	236.83	3.05	563717	HYP	IXPA	7	6440	0.47	0.172	0.34	
236.83	239.88	3.05	563718	HYP	IXPA	7	7360	0.67	0.166	0.79	
239.88	242.93	3.05	563719	HYP	IXPA	7	6420	0.57	0.110	0.65	
242.93	245.97	3.04	563720	HYP	IXPA	7	6240	0.25	0.097	0.27	
245.97	249.02	3.05	563721	HYP	IXPA	7	5640	0.34	0.099	0.34	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
249.02	252.07	3.05	563722	HYP	IXPA	7	6400	0.37	0.075	0.38	
252.07	255.12	3.05	563723	HYP	IXPA	7	6700	0.37	0.061	0.45	
255.12	258.17	3.05	563724	HYP	IXPA	7	7460	0.34	0.103	0.31	
258.17	261.21	3.04	563725	HYP	IXPA	7	7060	0.33	0.083	0.38	
261.21	264.26	3.05	563726	HYP	IXPA	7	6960	0.54	0.059	0.55	
264.26	267.31	3.05	563727	HYP	IXPA	7	7240	0.81	0.079	1.17	
267.31	270.36	3.05	563728	HYP	IXPA	7	6920	0.45	0.043	0.51	
270.36	273.40	3.04	563729	HYP	IXPA	7	6980	0.55	0.027	0.62	
273.40	276.45	3.05	563730	HYP	IXPA	7	6500	0.49	0.034	0.58	
276.45	279.50	3.05	563731	HYP	IXPA	7	7640	0.25	0.062	0.24	
279.50	282.55	3.05	563732	HYP	IXPA	7	7120	0.26	0.093	0.21	
282.55	285.60	3.05	563733	HYP	IXPA	7	7200	0.42	0.193	0.69	
285.60	288.65	3.05	563734	HYP	IXPA	7	7320	0.36	0.159	0.38	
288.65	291.69	3.04	563735	HYP	IXPA	7	7180	0.37	0.057	0.65	
291.69	294.74	3.05	563736	HYP	IXPA	7	7020	0.42	0.042	0.41	
294.74	297.79	3.05	563737	HYP	IXPA	7	6800	0.25	0.046	0.31	
297.79	300.83	3.04	563738	HYP	IXPA	7	6680	0.32	0.051	0.41	
300.83	303.88	3.05	563739	HYP	IXPA	7	6720	0.36	0.042	0.45	
303.88	306.93	3.05	563740	HYP	IXPA	7	6780	0.35	0.079	0.38	
306.93	309.98	3.05	563741	HYP	IXPA	7	6740	0.33	0.081	0.27	
309.98	313.03	3.05	563742	HYP	IXPA	7	6560	0.29	0.074	0.38	
313.03	316.08	3.05	563743	HYP	IXPA	7	6500	0.32	0.054	0.31	
316.08	319.13	3.05	563744	HYP	IXPA	7	6620	0.24	0.031	0.24	
319.13	322.17	3.04	563745	HYP	IXPA	7	6520	0.33	0.043	0.34	
322.17	324.92	2.75	563746	HYP	IXPA	7	6420	0.26	0.056	0.31	
324.92	327.96	3.04	563747	HYP	IXPA	7	6920	0.18	0.045	0.17	
327.96	331.01	3.05	563748	HYP	IXPA	7	7240	0.46	0.045	0.79	
331.01	334.06	3.05	563749	HYP	IXAF	7	7340	0.23	0.069	0.21	
334.06	337.11	3.05	563750	HYP	IXPA	7	7280	0.35	0.043	0.51	
337.11	340.16	3.05	563751	HYP	IXPA	7	7520	0.42	0.052	0.51	
340.16	343.36	3.20	563752	HYP	IXAF	7	7320	0.28	0.212	0.31	
343.36	346.56	3.20	563753	HYP	IXAF	7	7680	0.18	0.071	0.24	
346.56	349.61	3.05	563754	HYP	IXPA	7	7140	0.19	0.065	0.48	
349.61	352.65	3.04	563755	HYP	IXPA	7	6840	0.08	0.043	0.14	
352.65	355.70	3.05	563756	HYP	PPXX	7	6460	0.24	0.059	0.27	
355.70	358.75	3.05	563757	HYP	IXPA	7	7120	0.20	0.020	0.21	
358.75	361.80	3.05	563758	HYP	IXAF	7	7280	0.31	0.053	0.31	
361.80	364.85	3.05	563759	HYP	IXAF	7	6720	0.28	0.070	0.27	
364.85	367.89	3.04	563760	HYP	IXPA	7	6680	0.39	0.104	0.82	
367.89	370.94	3.05	563761	HYP	IXPA	7	6690	0.18	0.075	0.17	
370.94	373.99	3.05	563762	HYP	IXPA	7	6900	0.26	0.061	0.31	
373.99	377.04	3.05	563763	HYP	IXPA	7	6600	0.29	0.081	0.31	
377.04	380.09	3.05	563764	HYP	IXPA	7	7120	0.25	0.063	0.24	
380.09	383.13	3.04	563765	HYP	IXPA	7	6980	0.37	0.047	0.34	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
383.13	386.18	3.05	563766	HYP	IXPA	7	7040	0.27	0.062	0.34	
386.18	389.22	3.04	563767	HYP	IXPA	7	7120	0.50	0.062	0.41	
389.22	392.27	3.05	563768	HYP	IXPA	7	6980	0.14	0.051	0.14	
392.27	395.32	3.05	563769	HYP	IXPA	7	7040	0.22	0.030	0.21	
395.32	398.37	3.05	563770	HYP	IXPA	7	7000	0.31	0.048	0.34	
398.37	401.42	3.05	563771	HYP	IXAF	7	7160	0.18	0.089	0.27	
401.42	404.46	3.04	563772	HYP	IXAF	7	6770	0.15	0.027	0.17	
404.46	407.51	3.05	563773	HYP	IXAF	7	6820	0.08	0.007	0.10	
407.51	410.56	3.05	563774	HYP	IXAF	7	7420	0.10	0.024	0.10	
410.56	413.61	3.05	563775	HYP	IXAF	7	6840	0.19	0.028	0.24	
413.61	416.66	3.05	563776	HYP	IXPA	7	7180	0.47	0.052	0.69	
416.66	419.20	2.54	563777	HYP	IXAF	7	6180	0.29	0.028	0.31	
419.20	422.75	3.55	563778	HYP	IXAF	7	6940	0.22	0.042	0.31	
422.75	425.80	3.05	563779	HYP	IXAF	7	6560	0.08	0.032	0.10	
425.80	428.85	3.05	563780	HYP	IXAF	7	6900	0.14	0.032	0.17	
428.85	431.90	3.05	563781	HYP	IXAF	7	6740	0.29	0.038	0.41	
431.90	434.95	3.05	563782	HYP	IXPA	7	6400	0.25	0.043	0.48	
434.95	438.00	3.05	563783	HYP	IXAF	7	6420	0.22	0.016	0.24	
438.00	441.05	3.05	563784	HYP	IXAF	7	5880	0.14	0.022	0.21	
441.05	444.09	3.04	563785	HYP	IXAF	7	6980	0.13	0.054	0.21	
444.09	447.14	3.05	563786	HYP	IXAF	7	7880	0.20	0.025	0.21	
447.14	450.19	3.05	563787	HYP	WRDR	7	7800	0.25	0.015	0.24	
450.19	453.24	3.05	563788	HYP	WRDR	7	7460	0.31	0.019	0.31	
453.24	456.29	3.05	563789	HYP	IXPA	7	6980	0.39	0.017	0.31	
456.29	459.33	3.04	563790	HYP	IXPA	7	7040	0.20	0.054	0.21	
459.33	462.38	3.05	563791	HYP	IXPA	7	7080	0.19	0.058	0.17	
462.38	465.43	3.05	563792	HYP	IXPA	7	7120	0.23	0.031	0.34	
465.43	468.48	3.05	563793	HYP	PPXX	7	7500	0.10	0.026	0.14	
468.48	471.53	3.05	563794	HYP	PPXX	7	7520	0.07	0.002	0.10	
471.53	474.57	3.04	563795	HYP	PPXX	7	7480	0.14	0.033	0.17	
474.57	477.62	3.05	563796	HYP	PPXX	7	7490	0.11	0.006	0.21	
477.62	480.67	3.05	563797	HYP	IXPA	7	6960	0.12	0.009	0.14	
480.67	483.72	3.05	563798	HYP	IXPA	7	7360	0.19	0.024	0.27	
483.72	485.24	1.52	563799	HYP	LTDX	1	3280	0.05	0.009	0.07	
485.24	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-125	Total Depth	558.39 m
Northing	254,973.24	Casing Depth	Left Out
Easting	111,256.87	Survey Data	Azimuth / Dip / Instrument
Elevation	1242.51 m	Collar	-90.00°
Core Size	HQ to 213.36 m in 1992; NQ in 1993	306.9 m	127° / -89.75° / Sperry Sun
Drilling Started	June 16, 1992/May 16, 1993	456.3 m	260° / -89.25° / Sperry Sun
Drilling Finished	June 21, 1992/May 23, 1993	556.9 m	293° / -89.50° / Sperry Sun
Logged by	M. Dittrick		
Purpose/Target:	Redrill 92-125 to depth.		

Comments: Overall potassic alteration with occasional small zones of phyllic/ argillic; sulphides relatively low; veining relatively weak.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	6.25	3.20	H562112	CAP	QZMF	7	5440	0.170	0.025	0.79	2.4
6.25	9.75	3.50	H562113	CAP	PPXX	7	10500	0.440	0.012	0.55	1.5
9.75	12.80	3.05	H562114	CAP	BRXT	3	8730	0.210	0.022	0.55	1.8
12.80	15.85	3.05	H562115	CAP	BRXT	3	10480	0.080	0.016	0.10	0.5
15.85	18.90	3.05	H562116	CAP	BRXT	3	5530	0.080	0.021	0.27	0.5
18.90	21.95	3.05	H562117	CAP	BRXT	4	10050	0.030	0.025	0.31	0.5
21.95	24.99	3.04	H562118	CAP	BRXT	4	11320	0.030	0.017	0.10	1.0
24.99	28.04	3.05	H562119	CAP	BRXT	4	10430	0.030	0.025	0.14	1.0
28.04	30.48	2.44	H562120	CAP	BRXT	4	8470	0.030	0.024	0.17	0.8
30.48	33.53	3.05	H562121	CAP	BRXT	4	12400	0.050	0.046	0.24	1.2
33.53	36.58	3.05	H562122	CAP	BRXT	5	6600	0.040	0.036	0.14	1.5
36.58	39.93	3.35	H562123	CAP	BRXT	5	10640	0.060	0.032	0.14	1.7
39.93	43.13	3.20	H562124	CAP	BRXT	5	9650	0.080	0.025	0.21	1.2
43.13	46.33	3.20	H562125	SUS	PPXX	7	11410	0.530	0.026	0.38	1.7
46.33	49.38	3.05	H562126	SUS	PPXX	7	10330	0.410	0.006	0.21	1.2
49.38	52.42	3.04	H562127	SUS	PPXX	7	9850	0.310	0.015	0.31	1.5
52.42	55.47	3.05	H562128	SUS	QZMF	1	9650	0.660	0.011	0.82	3.0
55.47	59.89	4.42	H562129	SUS	PPXX	7	12140	0.720	0.010	0.24	1.5
59.89	63.09	3.20	H562130	SUS	PPXX	7	7500	0.440	0.019	0.62	2.5
63.09	65.84	2.75	H562131	SUS	QZMI	3	7350	0.200	0.036	0.17	0.6
65.84	68.43	2.59	H562132	SUS	QZMI	5	7160	0.120	0.041	0.24	0.9
68.43	72.24	3.81	H562133	SUS	QZMF	7	11830	0.760	0.023	0.38	1.4
72.24	75.29	3.05	H562134	SUS	QZMI	5	9000	0.320	0.043	0.38	1.5
75.29	78.03	2.74	H562135	SUS	QZMI	1	8100	0.410	0.033	0.27	1.2
78.03	81.69	3.66	H562136	SUS	QZMF	4	10200	0.620	0.005	0.21	1.5
81.69	85.65	3.96	H562137	SUS	QZMF	5	14250	0.520	0.032	0.27	0.8
85.65	89.00	3.35	H562138	SUS	QZMF	4	13270	0.410	0.007	0.31	0.8
89.00	92.05	3.05	H562139	SUS	QZMF	5	12950	0.550	0.025	0.34	1.0
92.05	95.10	3.05	H562140	SUS	QZMF	5	12340	0.410	0.033	0.34	1.1
95.10	98.15	3.05	H562141	SUS	KGRD	5	10630	0.750	0.022	0.27	0.8
98.15	101.35	3.20	H562142	SUS	KGRD	5	10830	0.780	0.012	0.27	1.5
101.35	104.85	3.50	H562143	SUS	QZMF	5	11740	0.600	0.022	0.34	2.0
104.85	107.90	3.05	H562144	SUS	QZMF	5	11450	0.530	0.111	0.41	2.1

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
107.90	111.25	3.35	H562145	SUS	QZMF	5	10870	1.090	0.070	0.24	2.9
111.25	114.30	3.05	H562146	HYP	QZMI	4	11710	0.160	0.026	0.14	0.9
114.30	117.35	3.05	H562147	HYP	KGRD	4	11900	0.360	0.030	0.21	1.7
117.35	120.70	3.35	H562148	HYP	KGRD	1	11400	0.180	0.012	0.24	0.6
120.70	123.44	2.74	H562149	HYP	KGRD	1	9930	0.220	0.018	0.24	1.3
123.44	126.64	3.20	H562150	HYP	QZMF	4	11460	0.240	0.031	0.27	0.6
126.64	129.84	3.20	H562151	HYP	QZMF	1	10450	0.250	0.017	0.31	1.1
129.84	133.04	3.20	H562152	HYP	KGRD	2	11350	0.230	0.022	0.27	0.5
133.04	135.94	2.90	H562153	HYP	KGRD	2	9160	0.310	0.043	0.38	1.3
135.94	138.68	2.74	H562154	HYP	QZMF	2	8240	0.220	0.013	0.31	1.0
138.68	141.73	3.05	H562155	HYP	QZMF	1	10830	0.240	0.018	0.31	1.3
141.73	144.78	3.05	H562156	HYP	QZMF	4	11500	0.170	0.025	0.24	0.5
144.78	147.98	3.20	H562157	HYP	KGRD	4	11430	0.190	0.033	0.24	0.4
147.98	151.18	3.20	H562158	HYP	QZMF	1	11740	0.190	0.011	0.21	0.6
151.18	154.23	3.05	H562159	HYP	QZMI	4	12180	0.240	0.009	0.27	1.2
154.23	157.28	3.05	H562160	HYP	QZMI	1	11540	0.220	0.011	0.34	0.8
157.28	160.48	3.20	H562161	HYP	QZMF	1	12400	0.160	0.016	0.24	0.5
160.48	163.52	3.04	H562162	HYP	QZMI	2	12800	0.180	0.015	0.27	0.7
163.52	166.57	3.05	H562163	HYP	KGRD	4	11900	0.230	0.038	0.27	1.2
166.57	169.62	3.05	H562164	HYP	KGRD	4	13100	0.240	0.056	0.38	1.8
169.62	172.67	3.05	H562165	HYP	KGRD	5	11650	0.330	0.037	0.41	0.8
172.67	175.72	3.05	H562166	HYP	QZMI	7	11040	0.210	0.014	0.31	0.9
175.72	178.77	3.05	H562167	HYP	QZMI	7	12050	0.170	0.013	0.21	0.6
178.77	181.97	3.20	H562168	HYP	QZMI	7	14100	0.260	0.015	0.34	1.3
181.97	185.01	3.04	H562169	HYP	QZMI	7	13930	0.200	0.020	0.27	1.0
185.01	188.06	3.05	H562170	HYP	QZMI	7	12400	0.240	0.078	0.27	1.1
188.06	191.11	3.05	H562171	HYP	QZMI	7	13430	0.300	0.022	0.41	1.1
191.11	194.16	3.05	H562172	HYP	QZMI	7	11740	0.280	0.024	0.34	0.7
194.16	197.21	3.05	H562173	HYP	QZMI	4	11750	0.170	0.015	0.21	1.1
197.21	200.25	3.04	H562174	HYP	QZMI	2	12300	0.310	0.021	0.31	3.1
200.25	203.30	3.05	H562175	HYP	QZMI	2	10850	0.240	0.054	0.31	1.0
203.30	206.35	3.05	H562176	HYP	QZMI	2	11810	0.190	0.017	0.27	0.9
206.35	209.40	3.05	H562177	HYP	QZMI	7	12130	0.200	0.011	0.24	0.9
209.40	213.36	3.96	H562178	HYP	QZMI	7	15850	0.270	0.021	0.41	1.0
213.36	215.49	2.13	563800	HYP	WRGD	7	4350	0.27	0.035	0.38	
215.49	218.54	3.05	563801	HYP	WRGD	5	6440	0.26	0.049	0.41	
218.54	221.59	3.05	563802	HYP	WRGD	7	7430	0.31	0.034	0.38	
221.59	224.64	3.05	563803	HYP	WRGD	7	4860	0.20	0.018	0.24	
224.64	227.69	3.05	563804	HYP	WRGD	7	6270	0.20	0.156	0.45	
227.69	230.73	3.04	563805	HYP	WRGD	7	6370	0.31	0.039	0.41	
230.73	233.78	3.05	563806	HYP	WRGD	7	7040	0.29	0.066	0.34	
233.78	236.83	3.05	563807	HYP	WRGD	7	7580	0.19	0.023	0.27	
236.83	239.88	3.05	563808	HYP	WRGD	7	7400	0.18	0.014	0.14	
239.88	242.93	3.05	563809	HYP	WRGD	7	6760	0.28	0.039	0.34	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
242.93	245.97	3.04	563810	HYP	WRGD	7	6580	0.18	0.021	0.17	
245.97	249.02	3.05	563811	HYP	WRGD	7	6540	0.25	0.069	0.24	
249.02	252.07	3.05	563812	HYP	WRGD	7	7560	0.24	0.032	0.31	
252.07	255.12	3.05	563813	HYP	WRGD	7	6670	0.16	0.141	0.31	
255.12	258.17	3.05	563814	HYP	WRGD	7	6970	0.23	0.030	0.21	
258.17	261.21	3.04	563815	HYP	WRGD	7	6700	0.22	0.042	0.27	
261.21	264.26	3.05	563816	HYP	WRGD	7	6970	0.25	0.043	0.31	
264.26	267.31	3.05	563817	HYP	WRGD	7	6810	0.26	0.039	0.24	
267.31	270.36	3.05	563818	HYP	WRGD	7	6830	0.17	0.124	0.21	
270.36	273.41	3.05	563819	HYP	WRGD	7	6630	0.22	0.068	0.27	
273.41	276.45	3.04	563820	HYP	WRGD	7	7150	0.27	0.039	0.31	
276.45	279.50	3.05	563821	HYP	WRGD	7	6950	0.21	0.059	0.17	
279.50	282.55	3.05	563822	HYP	WRGD	7	6650	0.20	0.050	0.31	
282.55	285.60	3.05	563823	HYP	WRGD	7	7020	0.22	0.036	0.34	
285.60	288.65	3.05	563824	HYP	WRGD	7	6830	0.19	0.053	0.27	
288.65	291.69	3.04	563825	HYP	WRGD	7	6470	0.29	0.044	0.27	
291.69	294.74	3.05	563826	HYP	WRGD	7	6580	0.25	0.043	0.21	
294.74	297.79	3.05	563827	HYP	WRGD	7	6990	0.21	0.040	0.17	
297.79	300.84	3.05	563828	HYP	WRGD	7	6130	0.13	0.017	0.14	
300.84	303.89	3.05	563829	HYP	WRGD	5	7080	0.20	0.074	0.24	
303.89	306.93	3.04	563830	HYP	WRGD	7	6170	0.14	0.067	0.17	
306.93	309.98	3.05	563831	HYP	WRGD	7	6720	0.12	0.163	0.10	
309.98	313.03	3.05	563832	HYP	WRGD	7	5950	0.22	0.120	0.21	
313.03	316.08	3.05	563833	HYP	WRGD	7	6380	0.19	0.079	0.24	
316.08	319.13	3.05	563834	HYP	WRGD	7	7260	0.19	0.039	0.10	
319.13	322.17	3.04	563835	HYP	WRGD	7	3720	0.18	0.109	0.24	
322.17	325.22	3.05	563836	HYP	WRGD	7	6400	0.18	0.075	0.17	
325.22	328.27	3.05	563837	HYP	WRGD	7	9030	0.20	0.040	0.17	
328.27	331.32	3.05	563838	HYP	WRGD	7	7060	0.22	0.088	0.31	
331.32	334.37	3.05	563839	HYP	WRGD	7	6830	0.18	0.057	0.21	
334.37	337.41	3.04	563840	HYP	WRGD	3	6860	0.11	0.390	0.10	
337.41	340.46	3.05	563841	HYP	WRGD	7	6830	0.14	0.023	0.14	
340.46	343.51	3.05	563842	HYP	WRGD	7	6670	0.14	0.031	0.14	
343.51	346.56	3.05	563843	HYP	WRGD	7	6890	0.11	0.200	0.17	
346.56	349.61	3.05	563844	HYP	WRGD	7	6900	0.10	0.131	0.17	
349.61	352.65	3.04	563845	HYP	WRGD	7	7470	0.16	0.041	0.07	
352.65	355.70	3.05	563846	HYP	WRGD	7	7200	0.17	0.103	0.17	
355.70	358.75	3.05	563847	HYP	WRGD	7	7150	0.09	0.039	0.07	
358.75	361.80	3.05	563848	HYP	WRGD	7	6900	0.14	0.160	0.10	
361.80	364.85	3.05	563849	HYP	WRGD	7	6220	0.09	0.020	0.07	
364.85	367.89	3.04	563850	HYP	WRGD	7	6270	0.10	0.094	0.07	
367.89	370.94	3.05	563851	HYP	WRGD	7	6400	0.17	0.032	0.14	
370.94	373.99	3.05	563852	HYP	WRGD	3	6650	0.17	0.056	0.10	
373.99	377.04	3.05	563853	HYP	WRGD	7	6740	0.15	0.079	0.14	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.04	380.09	3.05	563854	HYP	WRGD	7	6860	0.15	0.152	0.07	
380.09	383.13	3.04	563855	HYP	WRGD	7	6020	0.10	0.107	0.10	
383.13	386.18	3.05	563856	HYP	WRGD	7	6450	0.19	0.053	0.31	
386.18	389.23	3.05	563857	HYP	WRGD	5	5810	0.17	0.095	0.14	
389.23	392.28	3.05	563858	HYP	WRGD	2	6990	0.28	0.048	0.17	
392.28	395.33	3.05	563859	HYP	WRGD	7	6360	0.33	0.147	0.21	
395.33	398.37	3.04	563860	HYP	WRGD	2	3840	0.31	0.068	0.21	
398.37	401.42	3.05	563861	HYP	WRGD	2	4990	0.68	0.220	0.65	
401.42	404.47	3.05	563862	HYP	WRGD	7	6490	0.28	0.045	0.17	
404.47	407.52	3.05	563863	HYP	WRGD	4	6200	0.22	0.121	0.21	
407.52	410.57	3.05	563864	HYP	WRGD	4	5740	0.19	0.179	0.10	
410.57	413.61	3.04	563865	HYP	WRGD	4	6270	0.33	0.056	0.31	
413.61	416.66	3.05	563866	HYP	WRGD	7	6330	0.22	0.032	0.17	
416.66	419.71	3.05	563867	HYP	WRGD	7	7220	0.29	0.048	0.41	
419.71	422.76	3.05	563868	HYP	WRGD	7	6990	0.24	0.055	0.17	
422.76	425.81	3.05	563869	HYP	WRGD	7	7200	0.29	0.036	0.21	
425.81	428.85	3.04	563870	HYP	WRGD	7	6360	0.23	0.042	0.17	
428.85	431.75	2.90	563871	HYP	WRGD	7	6810	0.37	0.033	0.41	
431.75	434.95	3.20	563872	HYP	WRGD	7	7110	0.17	0.049	0.17	
434.95	438.00	3.05	563873	HYP	WRGD	7	7290	0.11	0.037	0.07	
438.00	441.05	3.05	563874	HYP	WRGD	7	7040	0.28	0.041	0.27	
441.05	444.09	3.04	563875	HYP	WRGD	7	6310	0.20	0.038	0.17	
444.09	447.14	3.05	563876	HYP	WRGD	7	7040	0.07	0.062	0.03	
447.14	450.19	3.05	563877	HYP	WRGD	7	6810	0.12	0.041	0.14	
450.19	453.24	3.05	563878	HYP	WRGD	7	6400	0.12	0.087	0.14	
453.24	456.29	3.05	563879	HYP	WRGD	7	6580	0.15	0.039	0.07	
456.29	459.33	3.04	563880	HYP	WRGD	4	6330	0.18	0.016	0.17	
459.33	462.38	3.05	563881	HYP	WRGD	4	6540	0.13	0.024	0.14	
462.38	465.43	3.05	563882	HYP	WRGD	4	6400	0.12	0.054	0.17	
465.43	468.48	3.05	563883	HYP	WRGD	4	6200	0.13	0.151	0.14	
468.48	471.53	3.05	563884	HYP	WRGD	4	6970	0.14	0.055	0.21	
471.53	474.57	3.04	563885	HYP	WRGD	4	6810	0.18	0.053	0.17	
474.57	477.62	3.05	563886	HYP	WRGD	4	6650	0.09	0.051	0.10	
477.62	480.67	3.05	563887	HYP	WRGD	4	6450	0.09	0.165	0.10	
480.67	483.72	3.05	563888	HYP	WRGD	7	7040	0.19	0.125	0.31	
483.72	486.77	3.05	563889	HYP	WRGD	7	7040	0.09	0.054	0.14	
486.77	489.81	3.04	563890	HYP	WRGD	7	6880	0.14	0.081	0.17	
489.81	492.86	3.05	563891	HYP	WRGD	7	7040	0.11	0.078	0.14	
492.86	495.91	3.05	563892	HYP	WRGD	7	6580	0.13	0.056	0.10	
495.91	498.96	3.05	563893	HYP	WRGD	7	7040	0.11	0.025	0.14	
498.96	502.01	3.05	563894	HYP	WRGD	7	7040	0.07	0.068	0.34	
502.01	505.05	3.04	563895	HYP	WRGD	7	7200	0.14	0.052	0.21	
505.05	508.10	3.05	563896	HYP	WRGD	7	7150	0.09	0.021	0.10	
508.10	511.15	3.05	563897	HYP	WRGD	7	6170	0.10	0.038	0.14	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
511.15	514.20	3.05	563898	HYP	WRGD	7	6380	0.14	0.057	0.17	
514.20	517.25	3.05	563899	HYP	WRGD	7	7150	0.09	0.040	0.10	
517.25	520.29	3.04	563900	HYP	WRGD	7	6490	0.10	0.045	0.07	
520.29	523.34	3.05	563901	HYP	WRGD	7	6920	0.13	0.072	0.14	
523.34	526.39	3.05	563902	HYP	WRGD	7	7010	0.17	0.044	0.17	
526.39	529.44	3.05	563903	HYP	WRGD	7	4060	0.19	0.047	0.17	
529.44	532.49	3.05	563904	HYP	WRGD	7	7150	0.09	0.027	0.10	
532.49	535.53	3.04	563905	HYP	WRGD	7	6970	0.13	0.056	0.14	
535.53	538.58	3.05	563906	HYP	WRGD	7	6900	0.08	0.092	0.10	
538.58	541.63	3.05	563907	HYP	WRGD	7	6580	0.21	0.065	0.24	
541.63	544.68	3.05	563908	HYP	WRGD	7	6290	0.16	0.037	0.24	
544.68	547.73	3.05	563909	HYP	WRGD	7	6740	0.11	0.152	0.14	
547.73	550.77	3.04	563910	HYP	WRGD	7	6920	0.14	0.031	0.14	
550.77	553.82	3.05	563911	HYP	WRGD	4	6700	0.18	0.054	0.17	
553.82	556.87	3.05	563912	HYP	WRGD	7	6420	0.16	0.094	0.17	
556.87	558.39	1.52	563913	HYP	WRGD	7	3310	0.13	0.054	0.21	
558.39	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-126	Total Depth	596.49 m		
Northing	254,880.76	Casing Depth			Left Out
Easting	111,181.76	Survey Data	Azimuth	Dip	Instrument
Elevation	1320 m	Collar			
Core Size	HQ to 243.84 m; NQ to 596.49 m	306.9 m	331°	-89.0°	Sperry Sun
Drilling Started	June 22, 1992/May 26, 1993	459.3 m	330°	-88.6°	Sperry Sun
Drilling Finished	June 27, 1992/May 31, 1993	596.5 m	329°	-88.5°	Sperry Sun
Logged by	M. Dittrick				

Purpose/Target: To extend 92-126 in order to check mineralization to depth.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	7.16	4.11	H562180	CAP	BRXT	3	13100	0.180	0.089	0.99	28.4
7.16	10.36	3.20	H562181	CAP	BRXT	3	11840	0.190	0.046	0.72	11.7
10.36	14.33	3.97	H562182	CAP	BRXT	3	14560	0.200	0.128	0.89	41.7
14.33	17.37	3.04	H562183	CAP	BRXT	3	10860	0.100	0.035	0.55	15.9
17.37	20.42	3.05	H562184	CAP	BRXT	3	8200	0.120	0.026	0.45	2.8
20.42	23.47	3.05	H562185	CAP	BRXT	4	11680	0.200	0.035	0.62	2.7
23.47	26.52	3.05	H562186	CAP	BRXT	3	12660	0.180	0.036	0.58	1.7
26.52	29.26	2.74	H562187	CAP	BRXT	3	10600	0.140	0.039	0.68	1.6
29.26	32.61	3.35	H562188	CAP	BRXT	3	11060	0.110	0.030	0.72	1.5
32.61	35.66	3.05	H562189	CAP	BRXT	7	13280	0.130	0.037	0.31	0.7
35.66	38.71	3.05	H562190	CAP	BRXT	7	11780	0.200	0.056	0.34	0.7
38.71	41.76	3.05	H562191	CAP	BRXT	7	13200	0.230	0.072	0.72	1.8
41.76	44.81	3.05	H562192	CAP	BRXT	7	12760	0.200	0.036	0.45	1.5
44.81	47.85	3.04	H562193	CAP	BRXT	7	12400	0.180	0.029	0.27	2.1
47.85	51.21	3.36	H562194	CAP	BRXT	7	14260	0.150	0.033	0.21	0.9
51.21	55.47	4.26	H562195	CAP	BRXT	7	17260	0.180	0.020	0.31	0.5
55.47	59.59	4.12	H562196	CAP	BRXT	7	14960	0.190	0.089	0.62	1.3
59.59	62.79	3.20	H562197	CAP	BRXT	7	11000	0.110	0.026	0.31	0.4
62.79	65.84	3.05	H562198	CAP	BRXT	7	11880	0.140	0.125	0.41	1.1
65.84	68.88	3.04	H562199	CAP	BRXT	7	11020	0.130	0.167	0.55	2.0
68.88	71.78	2.90	H562200	CAP	BRXT	7	11080	0.140	0.086	0.24	0.7
71.78	75.29	3.51	H562201	CAP	BRXT	7	10860	0.080	0.101	0.21	1.5
75.29	78.33	3.04	H562202	CAP	BRXT	5	9260	0.120	0.099	0.31	1.0
78.33	81.38	3.05	H562203	CAP	BRXT	5	12380	0.110	0.070	0.41	1.2
81.38	85.34	3.96	H562204	CAP	BRXT	5	14600	0.150	0.080	0.17	0.5
85.34	88.54	3.20	H562205	CAP	BRXT	5	12080	0.130	0.078	0.21	0.6
88.54	91.74	3.20	H562206	CAP	BRXT	7	11780	0.120	0.086	0.38	0.8
91.74	95.10	3.36	H562207	CAP	BRXT	7	11860	0.160	0.091	0.21	0.8
95.10	99.06	3.96	H562208	CAP	BRXT	7	14140	0.150	0.021	0.10	0.7
99.06	102.57	3.51	H562209	CAP	BRXT	7	12220	0.160	0.031	0.27	0.7
102.57	105.77	3.20	H562210	CAP	BRXT	7	12280	0.210	0.025	0.21	1.1
105.77	108.51	2.74	H562211	CAP	BRXT	4	10880	0.210	0.029	0.51	2.3
108.51	111.56	3.05	H562212	CAP	BRXT	4	11400	0.160	0.021	0.41	3.4

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
111.56	114.45	2.89	H562213	CAP	BRXT	7	10760	0.190	0.041	0.38	2.3
114.45	117.35	2.90	H562214	CAP	BRXT	7	11160	0.200	0.016	0.21	1.0
117.35	120.55	3.20	H562215	SUS	BRXT	7	12980	0.560	0.041	0.27	1.4
120.55	123.60	3.05	H562216	SUS	BRXT	7	14040	0.390	0.040	0.45	1.4
123.60	126.95	3.35	H562217	SUS	BRXT	7	13000	0.600	0.045	0.86	3.0
126.95	130.15	3.20	H562218	SUS	BRXT	7	12240	0.490	0.033	0.55	1.6
130.15	133.20	3.05	H562219	SUS	BRXT	7	12420	0.220	0.023	0.21	0.8
133.20	136.25	3.05	H562220	SUS	BRXT	7	12740	0.470	0.030	0.24	0.9
136.25	139.29	3.04	H562221	SUS	BRXT	7	11900	0.240	0.036	0.17	0.4
139.29	142.34	3.05	H562222	SUS	BRXT	7	12580	0.690	0.100	0.34	0.9
142.34	145.39	3.05	H562223	SUS	BRXT	5	12160	0.640	0.339	0.62	2.0
145.39	148.44	3.05	H562224	SUS	BRXT	5	11860	0.530	0.062	0.21	1.3
148.44	152.10	3.66	H562225	SUS	BRXT	4	14980	1.010	0.029	0.51	4.3
152.10	155.45	3.35	H562226	SUS	BRXT	5	13260	0.900	0.032	0.45	3.1
155.45	158.50	3.05	H562227	SUS	BRXT	4	12600	0.680	0.036	0.24	1.6
158.50	161.70	3.20	H562228	SUS	BRXT	4	11820	0.510	0.053	0.41	1.6
161.70	164.90	3.20	H562229	SUS	BRXT	7	13040	0.430	0.025	0.48	1.6
164.90	168.10	3.20	H562230	SUS	BRXT	7	11960	0.480	0.026	0.41	1.6
168.10	171.14	3.04	H562231	SUS	BRXT	7	13200	0.560	0.027	0.45	2.2
171.14	174.08	2.94	H562232	SUS	BRXT	5	11400	0.280	0.019	0.41	1.1
174.08	177.24	3.16	H562233	SUS	BRXT	5	12200	0.430	0.052	0.45	1.7
177.24	180.44	3.20	H562234	SUS	BRXT	5	13060	0.200	0.028	0.24	1.0
180.44	183.34	2.90	H562235	SUS	BRXT	5	11260	0.550	0.048	1.20	2.6
183.34	186.23	2.89	H562236	HYP	BRXT	5	12640	0.260	0.055	0.21	1.1
186.23	189.59	3.36	H562237	HYP	BRXT	5	12160	0.400	0.067	0.34	2.1
189.59	192.63	3.04	H562238	HYP	BRXT	5	12120	0.480	0.098	0.31	1.2
192.63	196.60	3.97	H562239	HYP	BRXT	5	15420	0.320	0.036	0.41	1.6
196.60	199.80	3.20	H562240	HYP	BRXT	5	12780	0.280	0.073	0.31	1.6
199.80	203.15	3.35	H562241	HYP	BRXT	5	11940	0.360	0.146	0.27	1.3
203.15	206.20	3.05	H562242	HYP	BRXT	5	11660	0.370	0.073	0.51	1.9
206.20	209.40	3.20	H562243	HYP	BRXT	7	12580	0.300	0.033	0.38	1.6
209.40	212.44	3.04	H562244	HYP	BRXT	7	11560	0.180	0.038	0.21	1.0
212.44	215.49	3.05	H562245	HYP	BRXT	7	11800	0.280	0.039	0.38	1.4
215.49	218.54	3.05	H562246	HYP	BRXT	7	12580	0.400	0.047	0.45	1.9
218.54	221.59	3.05	H562247	HYP	BRXT	5	12000	0.250	0.077	0.34	1.3
221.59	224.64	3.05	H562248	HYP	BRXT	5	10760	0.300	0.164	0.38	1.3
224.64	227.69	3.05	H562249	HYP	BRXT	5	11700	0.280	0.153	0.24	1.3
227.69	230.58	2.89	H562250	HYP	BRXT	5	11460	0.190	0.079	0.27	1.1
230.58	233.63	3.05	H562251	HYP	BRXT	5	12320	0.260	0.069	0.31	1.6
233.63	236.83	3.20	H562252	HYP	BRXT	5	11780	0.230	0.014	0.27	1.1
236.83	239.88	3.05	H562253	HYP	BRXT	5	12360	0.140	0.009	0.17	1.1
239.88	243.84	3.96	H562254	HYP	BRXT	5	14000	0.160	0.022	0.24	1.1
243.84	245.98	2.14	563914	HYP	IXPA	7	3860	0.30	0.054	0.34	
245.98	249.02	3.04	563915	HYP	IXPA	7	6620	0.12	0.055	0.17	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
249.02	252.07	3.05	563916	HYP	IXPA	7	7240	0.15	0.018	0.27	
252.07	255.12	3.05	563917	HYP	IXPA	7	6720	0.10	0.021	0.10	
255.12	258.17	3.05	563918	HYP	IXPA	7	6940	0.14	0.025	0.17	
258.17	261.21	3.04	563919	HYP	IXPA	7	6260	0.20	0.025	0.27	
261.21	264.26	3.05	563920	HYP	IXPA	7	6560	0.35	0.031	0.45	
264.26	267.31	3.05	563921	HYP	IXPA	7	7240	0.13	0.173	0.21	
267.31	270.36	3.05	563922	HYP	IXPA	7	6500	0.27	0.035	0.31	
270.36	273.41	3.05	563923	HYP	IXPA	7	6800	0.32	0.044	0.34	
273.41	276.45	3.04	563924	HYP	IXPA	7	7200	0.40	0.032	0.45	
276.45	279.50	3.05	563925	HYP	IXPA	7	6760	0.18	0.066	0.27	
279.50	282.55	3.05	563926	HYP	IXPA	7	6460	0.19	0.075	0.24	
282.55	285.60	3.05	563927	HYP	IXPA	7	6560	0.20	0.132	0.27	
285.60	288.64	3.04	563928	HYP	IXPA	7	6620	0.21	0.039	0.31	
288.64	291.69	3.05	563929	HYP	IXPA	7	6700	0.21	0.037	0.31	
291.69	294.74	3.05	563930	HYP	IXPA	7	6820	0.25	0.048	0.34	
294.74	297.79	3.05	563931	HYP	IXPA	7	7140	0.17	0.066	0.21	
297.79	300.84	3.05	563932	HYP	IXPA	7	7100	0.17	0.043	0.27	
300.84	303.88	3.04	563933	HYP	IXPA	7	7380	0.20	0.039	0.24	
303.88	306.93	3.05	563934	HYP	IXPA	7	7180	0.25	0.038	0.31	
306.93	309.98	3.05	563935	HYP	IXPA	7	7260	0.29	0.043	0.45	
309.98	313.03	3.05	563936	HYP	IXPA	7	6920	0.11	0.025	0.10	
313.03	316.08	3.05	563937	HYP	IXPA	7	6880	0.10	0.029	0.10	
316.08	319.13	3.05	563938	HYP	IXPA	7	6720	0.13	0.086	0.14	
319.13	322.17	3.04	563939	HYP	IXPA	7	6960	0.19	0.070	0.17	
322.17	325.22	3.05	563940	HYP	IXPA	7	6880	0.11	0.064	0.10	
325.22	328.27	3.05	563941	HYP	IXPA	7	6900	0.16	0.122	0.17	
328.27	331.32	3.05	563942	HYP	IXPA	7	6320	0.21	0.050	0.24	
331.32	334.37	3.05	563943	HYP	IXPA	7	6720	0.14	0.130	0.14	
334.37	337.41	3.04	563944	HYP	IXPA	7	6600	0.13	0.050	0.14	
337.41	340.46	3.05	563945	HYP	IXPA	7	6960	0.18	0.086	0.14	
340.46	343.51	3.05	563946	HYP	IXPA	7	6860	0.15	0.231	0.17	
343.51	346.56	3.05	563947	HYP	IXPA	7	6380	0.13	0.121	0.24	
346.56	349.61	3.05	563948	HYP	IXPA	7	7300	0.12	0.213	0.10	
349.61	352.65	3.04	563949	HYP	IXPA	7	6920	0.19	0.090	0.24	
352.65	355.70	3.05	563950	HYP	IXPA	7	7520	0.18	0.480	0.24	
355.70	358.75	3.05	563951	HYP	IXPA	7	7060	0.31	0.620	0.21	
358.75	361.80	3.05	563952	HYP	IXPA	7	7520	0.31	0.061	0.34	
361.80	364.85	3.05	563953	HYP	IXPA	7	7260	0.30	0.039	0.31	
364.85	367.89	3.04	563954	HYP	IXPA	7	7340	0.24	0.030	0.14	
367.89	370.94	3.05	563955	HYP	IXPA	7	7760	0.30	0.069	0.33	
370.94	373.99	3.05	563956	HYP	IXPA	7	7360	0.22	0.042	0.31	
373.99	377.04	3.05	563957	HYP	IXPA	7	8320	0.28	0.043	0.24	
377.04	380.09	3.05	563958	HYP	IXPA	7	7580	0.14	0.024	0.14	
380.09	383.13	3.04	563959	HYP	IXPA	7	7540	0.16	0.051	0.24	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
383.13	386.18	3.05	563960	HYP	IXPA	7	7580	0.10	0.026	0.14	
386.18	389.23	3.05	563961	HYP	IXPA	7	7800	0.12	0.028	0.17	
389.23	392.28	3.05	563962	HYP	IXPA	7	7900	0.15	0.038	0.24	
392.28	395.33	3.05	563963	HYP	IXPA	7	7420	0.14	0.034	0.17	
395.33	398.37	3.04	563964	HYP	IXPA	7	7540	0.12	0.022	0.14	
398.37	401.42	3.05	563965	HYP	IXPA	7	7440	0.08	0.039	0.10	
401.42	404.47	3.05	563966	HYP	IXPA	2	7380	0.13	0.043	0.14	
404.47	407.52	3.05	563967	HYP	IXPA	2	7000	0.15	0.070	0.17	
407.52	410.57	3.05	563968	HYP	IXPA	2	7660	0.17	0.036	0.14	
410.57	413.61	3.04	563969	HYP	IXPA	2	7290	0.19	0.062	0.21	
413.61	416.66	3.05	563970	HYP	IXPA	2	7200	0.16	0.056	0.17	
416.66	419.71	3.05	563971	HYP	IXPA	2	7000	0.11	0.093	0.10	
419.71	422.76	3.05	563972	HYP	IXPA	2,7	6720	0.08	0.043	0.14	
422.76	425.81	3.05	563973	HYP	IXPA	7	7480	0.08	0.027	0.10	
425.81	428.85	3.04	563974	HYP	IXPA	7	7360	0.09	0.070	0.10	
428.85	431.90	3.05	563975	HYP	IXPA	7	7000	0.07	0.024	0.10	
431.90	434.95	3.05	563976	HYP	IXPA	7	7720	0.07	0.044	0.21	
434.95	438.00	3.05	563977	HYP	IXPA	4	7780	0.10	0.036	0.17	
438.00	441.05	3.05	563978	HYP	IXPA	4	6600	0.13	0.044	0.17	
441.05	444.09	3.04	563979	HYP	IXPA	4	6420	0.07	0.017	0.10	
444.09	447.14	3.05	563980	HYP	IXPA	4	6860	0.13	0.058	0.69	
447.14	450.19	3.05	563981	HYP	IXPA	4	6540	0.12	0.029	0.18	
450.19	453.24	3.05	563982	HYP	IXPA	4	6680	0.38	0.037	0.34	
453.24	456.29	3.05	563983	HYP	IXPA	4	6920	0.67	0.034	0.69	
456.29	459.33	3.04	563984	HYP	IXPA	4	6580	0.23	0.033	0.27	
459.33	462.38	3.05	563985	HYP	IXPA	4	6280	0.22	0.051	0.31	
462.38	465.42	3.04	563986	HYP	IXPA	4	6580	0.23	0.061	0.34	
465.42	468.48	3.06	563987	HYP	IXPA	4	7100	0.22	0.066	0.27	
468.48	471.53	3.05	563988	HYP	IXPA	7	6920	0.22	0.036	0.21	
471.53	474.57	3.04	563989	HYP	IXPA	7	7580	0.13	0.034	0.14	
474.57	477.62	3.05	563990	HYP	IXPA	7	7760	0.11	0.073	0.14	
477.62	480.67	3.05	563991	HYP	IXPA	7	7500	0.17	0.023	0.21	
480.67	483.72	3.05	563992	HYP	IXPA	7	7340	0.31	0.043	0.34	
483.72	486.77	3.05	563993	HYP	IXPA	7	7160	0.21	0.038	0.21	
486.77	489.82	3.05	563994	HYP	IXPA	7	7040	0.19	0.035	0.24	
489.82	492.86	3.04	563995	HYP	IXPA	7	6220	0.19	0.034	0.17	
492.86	495.91	3.05	563996	HYP	IXPA	7	6580	0.28	0.056	0.24	
495.91	498.96	3.05	563997	HYP	IXPA	7	6240	0.12	0.123	0.14	
498.96	502.01	3.05	563998	HYP	IXPA	7	7000	0.09	0.066	0.14	
502.01	505.06	3.05	563999	HYP	IXPA	7	6860	0.19	0.045	0.27	
505.06	508.10	3.04	564000	HYP	IXPA	7	7280	0.13	0.023	0.10	
508.10	511.15	3.05	564001	HYP	IXPA	7	7640	0.14	0.033	0.10	
511.15	514.20	3.05	564002	HYP	IXPA	4	7900	0.12	0.034	0.14	
514.20	517.25	3.05	564003	HYP	IXPA	4	7460	0.22	0.046	0.17	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
517.25	520.29	3.04	564004	HYP	IXPA	4	7680	0.28	0.042	0.24	
520.29	523.34	3.05	564005	HYP	IXPA	4	8080	0.26	0.116	0.24	
523.34	526.39	3.05	564006	HYP	IXPA	4	8100	0.22	0.032	0.24	
526.39	529.44	3.05	564007	HYP	IXPA	4	7520	0.28	0.035	0.24	
529.44	532.49	3.05	564008	HYP	IXPA	4	7540	0.07	0.019	0.07	
532.49	535.53	3.04	564009	HYP	IXPA	4	7460	0.21	0.033	0.17	
535.53	538.58	3.05	564010	HYP	IXPA	4	7860	0.27	0.040	0.27	
538.58	541.63	3.05	564011	HYP	IXPA	4	7500	0.24	0.028	0.14	
541.63	544.68	3.05	564012	HYP	IXPA	4	7880	0.24	0.048	0.17	
544.68	547.73	3.05	564013	HYP	IXPA	4	7140	0.18	0.047	0.14	
547.73	550.77	3.04	564014	HYP	IXPA	7	7680	0.12	0.051	0.10	
550.77	553.82	3.05	564015	HYP	IXPA	4	7300	0.18	0.058	0.14	
553.82	556.87	3.05	564016	HYP	IXPA	4	6920	0.14	0.039	0.14	
556.87	559.92	3.05	564017	HYP	IXPA	4	6930	0.29	0.031	0.31	
559.92	562.97	3.05	564018	HYP	IXPA	4	7300	0.14	0.028	0.10	
562.97	566.01	3.04	564019	HYP	IXPA	7	7720	0.07	0.039	0.07	
566.01	569.06	3.05	564020	HYP	IXPA	7	7780	0.17	0.029	0.14	
569.06	572.11	3.05	564021	HYP	IXPA	7	7520	0.23	0.044	0.27	
572.11	575.16	3.05	564022	HYP	IXPA	7	7320	0.10	0.069	0.14	
575.16	578.21	3.05	564023	HYP	IXPA	7	7620	0.11	0.066	0.10	
578.21	581.25	3.04	564024	HYP	IXPA	7	7220	0.07	0.077	0.07	
581.25	584.30	3.05	564025	HYP	IXPA	7	8600	0.07	0.046	0.07	
584.30	587.35	3.05	564026	HYP	IXPA	7	7080	0.15	0.029	0.14	
587.35	590.40	3.05	564027	HYP	IXPA	4	9140	0.16	0.072	0.17	
590.40	593.45	3.05	564028	HYP	IXPA	7	5140	0.11	0.046	0.14	
593.45	596.49	3.04	564029	HYP	IXPA	7	5240	0.13	0.072	0.10	
596.49	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-127	Total Depth	402.34 m		
Northing	254,969.57	Casing Depth	7.22 m		Left Out
Easting	111,098.06	Survey Data	Azimuth	Dip	Instrument
Elevation	1310.88 m	Collar		-90.00°	
Core Size	HQ	304.8 m	213(T)	-89.25°	
Drilling Started	June 27-June 29, 1992/May 8, 1993				
Drilling Finished	July 15-July 19, 1992/May 18, 1993				
Logged by	M.P. Phillips				
Purpose/Target:	Deepen Hole 92-127.				
Comments:	Visually copper grades low.				

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.20	3.20		OVB							
3.20	5.79	2.59	H562255	CAP	BRXT	3	11480	0.190	0.090	0.34	1.4
5.79	8.84	3.05	H562256	CAP	BRXT	3	12920	0.300	0.077	0.51	1.3
8.84	12.80	3.96	H562257	CAP	BRXT	3	16300	0.300	0.028	0.48	1.4
12.80	15.85	3.05	H562258	CAP	BRXT	3	13420	0.220	0.030	0.48	1.4
15.85	19.20	3.35	H562259	CAP	BRXT	3	11440	0.140	0.070	0.55	2.1
19.20	23.16	3.96	H562260	CAP	BRXT	3	16040	0.100	0.035	0.38	1.5
23.16	26.21	3.05	H562261	CAP	BRXT	3	12920	0.130	0.045	0.51	1.7
26.21	29.41	3.20	H562262	CAP	BRXT	3	12380	0.120	0.040	0.58	1.8
29.41	32.46	3.05	H562263	CAP	BRXT	3	12020	0.130	0.033	0.55	1.2
32.46	35.36	2.90	H562264	CAP	BRXT	3	11860	0.110	0.062	0.38	1.9
35.36	39.32	3.96	H562265	CAP	BRXT	3	14560	0.080	0.030	0.27	1.6
39.32	42.52	3.20	H562266	CAP	BRXT	3	13080	0.080	0.022	0.24	0.8
42.52	45.72	3.20	H562267	CAP	BRXT	3	12580	0.080	0.022	0.58	2.7
45.72	49.38	3.66	H562268	CAP	BRXT	3	14540	0.080	0.013	0.34	0.7
49.38	52.43	3.05	H562269	CAP	BRXT	3	12300	0.130	0.025	0.17	0.8
52.43	55.47	3.04	H562270	CAP	BRXT	3	11620	0.120	0.107	0.34	1.0
55.47	58.52	3.05	H562271	CAP	BRXT	3	12100	0.090	0.067	0.62	1.4
58.52	61.57	3.05	H562272	CAP	BRXT	3	12380	0.170	0.052	0.68	2.4
61.57	64.62	3.05	H562273	CAP	BRXT	3	12660	0.120	0.035	0.58	2.0
64.62	67.67	3.05	H562274	CAP	BRXT	3	12240	0.070	0.047	0.75	1.9
67.67	70.71	3.04	H562275	CAP	BRXT	3	12260	0.090	0.037	0.82	3.1
70.71	73.76	3.05	H562276	CAP	BRXT	3	12320	0.090	0.045	1.06	2.6
73.76	76.81	3.05	H562277	CAP	BRXT	3	9860	0.200	0.035	0.58	6.7
76.81	79.86	3.05	H562278	CAP	BRXT	3	11320	0.100	0.038	0.34	2.7
79.86	82.60	2.74	H562279	CAP	BRXT	3	8750	0.080	0.025	0.41	5.6
82.60	85.95	3.35	H562280	CAP	BRXT	3	12800	0.180	0.025	0.34	2.5
85.95	89.00	3.05	H562281	CAP	BRXT	3	10200	0.130	0.037	0.62	2.2
89.00	92.05	3.05	H562282	CAP	BRXT	3	12540	0.100	0.037	0.68	2.7
92.05	95.10	3.05	H562283	CAP	BRXT	3	11160	0.140	0.032	0.38	1.4
95.10	98.15	3.05	H562284	CAP	BRXT	3	12900	0.090	0.050	0.41	1.2
98.15	101.19	3.04	H562285	CAP	BRXT	3	12200	0.100	0.052	0.45	1.1
101.19	104.24	3.05	H562286	CAP	BRXT	3	11800	0.100	0.050	0.48	1.5
104.24	107.29	3.05	H562287	CAP	BRXT	3	12180	0.090	0.035	0.55	2.0

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
107.29	110.34	3.05	H562288	CAP	BRXT	3	16700	0.200	0.057	0.86	1.5
110.34	113.39	3.05	H562289	SOX	BRXT	3	11360	0.220	0.053	0.65	1.3
113.39	116.74	3.35	H562290	SOX	BRXT	3	11860	0.370	0.018	0.41	1.0
116.74	119.48	2.74	H528040	CAP	PPXX	1	10740	0.260	0.018	0.24	0.6
119.48	122.53	3.05	H528041	SOX	BRXT	7	11200	1.150	0.066	0.75	2.0
122.53	125.58	3.05	H528042	SUS	BRXT	7	11500	0.880	0.076	0.68	4.3
125.58	128.63	3.05	H528043	SUS	BRXT	7	12080	1.000	0.056	0.65	1.8
128.63	131.67	3.04	H528044	SUS	BRXT	7	11220	1.270	0.029	1.30	2.6
131.67	134.72	3.05	H528045	SUS	BRXT	7	11740	1.590	0.040	0.65	1.8
134.72	137.77	3.05	H528046	SUS	BRXT	7	12220	0.940	0.040	0.65	2.6
137.77	140.82	3.05	H528047	SUS	BRXT	7	11140	0.650	0.022	0.68	2.3
140.82	143.71	2.89	H528048	SUS	BRXT	7	10680	0.840	0.025	0.51	2.7
143.71	146.76	3.05	H528049	SUS	BRXT	7	10940	0.750	0.042	0.55	2.1
146.76	149.96	3.20	H528050	SUS	BRXT	7	12160	0.420	0.026	0.58	2.2
149.96	153.01	3.05	H528051	SUS	PPXX	2	10820	0.530	0.024	0.89	2.9
153.01	156.06	3.05	H528052	SUS	BRXT	7	11920	1.020	0.038	1.06	3.1
156.06	159.11	3.05	H528053	SUS	BRXT	7	11560	0.830	0.027	0.58	1.8
159.11	162.15	3.04	H528054	SUS	BRXT	7	10960	1.110	0.022	0.65	2.1
162.15	165.51	3.36	H528055	SUS	BRXT	7	11540	0.310	0.088	0.68	1.7
165.51	168.25	2.74	H528056	SUS	BRXT	7	12440	0.330	0.019	0.68	1.7
168.25	171.30	3.05	H528057	SUS	BRXT	7	11220	0.790	0.076	0.51	2.3
171.30	174.96	3.66	H528058	SUS	BRXT	7	13360	0.570	0.061	1.06	2.7
174.96	177.39	2.43	H528059	SUS	BRXT	7	9360	0.920	0.041	1.78	3.8
177.39	180.44	3.05	H528060	HYP	BRXT	7	11080	0.300	0.037	0.55	1.0
180.44	184.40	3.96	H528061	HYP	BRXT	7	13940	0.350	0.024	0.68	1.7
184.40	187.15	2.75	H528062	HYP	BRXT	7	11000	0.250	0.020	0.41	2.0
187.15	190.20	3.05	H528063	HYP	BRXT	7	11060	0.460	0.039	0.79	3.4
190.20	194.31	4.11	H528064	HYP	BRXT	7	15700	0.420	0.050	0.48	3.7
194.31	197.21	2.90	H528065	HYP	BRXT	7	10380	0.300	0.074	0.45	1.5
197.21	200.25	3.04	H528066	HYP	BRXT	7	12160	0.250	0.085	0.41	2.3
200.25	203.30	3.05	H528067	HYP	BRXT	7	10480	0.460	0.088	0.68	2.8
203.30	206.35	3.05	H528068	HYP	BRXT	7	11300	0.380	0.108	0.65	2.6
206.35	208.79	2.44	H528069	HYP	BRXT	7	8020	0.300	0.076	0.45	1.5
208.79	211.84	3.05	H528070	HYP	BRXT	7	11220	0.250	0.039	0.34	1.8
211.84	214.88	3.04	H528071	HYP	BRXT	7	10700	0.280	0.106	0.48	1.6
214.88	217.93	3.05	H528072	HYP	BRXT	7	11180	0.340	0.133	0.62	1.9
217.93	220.68	2.75	H528073	HYP	BRXT	7	10760	0.210	0.105	0.34	1.4
220.68	224.64	3.96	H528074	HYP	BRXT	7	15880	0.290	0.039	0.89	2.0
224.64	227.69	3.05	H528075	HYP	BRXT	7	11180	0.320	0.046	0.89	3.0
227.69	230.73	3.04	H528076	HYP	BRXT	7	11200	0.310	0.080	0.68	2.1
230.73	233.78	3.05	H528077	HYP	BRXT	7	10480	0.680	0.073	0.58	3.3
233.78	236.83	3.05	H528078	HYP	BRXT	7	10520	0.480	0.126	0.48	5.3
236.83	239.57	2.74	H528079	HYP	BRXT	7	9720	0.260	0.047	0.31	0.5
239.57	242.32	2.75	H528080	HYP	BRXT	7	9400	0.320	0.158	0.79	2.3

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
242.32	243.84	1.52	H528081	HYP	BRXT	7	5500	1.020	0.325	1.75	5.5
243.84	244.45	0.61	Not sampled - caved - assigned grade					0.030	0.036	0.48	
244.45	247.50	3.05	570001	HYP	QXPX	7	10300	0.30	0.036	0.48	
247.50	251.61	4.11	570002	HYP	QXPX	7	13020	0.29	0.097	0.45	
251.61	253.14	1.53	570003	HYP	QXPX	7	4960	0.22	0.038	0.34	
253.14	255.88	2.74	570004	HYP	QXPX	7	8940	0.33	0.067	0.48	
255.88	259.08	3.20	570005	HYP	QXPX	7	11000	0.48	0.111	0.69	
259.08	262.74	3.66	570006	HYP	QXPX	7	12100	0.35	0.082	0.58	
262.74	265.79	3.05	570007	HYP	QXPX	7	10700	0.27	0.186	0.45	
265.79	268.84	3.05	570008	HYP	QXPX	7	10540	0.25	0.240	0.34	
268.84	271.88	3.04	570009	HYP	QXPX	7	10560	0.26	0.045	0.51	
271.88	273.41	1.53	570010	HYP	QXPX	7	6300	0.28	0.028	0.65	
273.41	276.46	3.05	570011	HYP	QXPX	7	10620	0.34	0.040	0.58	
276.46	279.50	3.04	570012	HYP	QXPX	7	10640	0.25	0.052	1.75	
279.50	282.55	3.05	570013	HYP	QXPX	7	10040	0.17	0.063	0.24	
282.55	285.60	3.05	570014	HYP	PPDX	7	11140	0.15	0.070	0.21	
285.60	288.19	2.59	570015	HYP	QXPX	7	9700	0.09	0.011	0.17	
288.19	291.24	3.05	570016	HYP	PPDX	7	11580	0.01	0.013	0.03	
291.24	294.13	2.89	570017	HYP	PPDX	7	11120	0.04	0.005	0.10	
294.13	297.18	3.05	570018	HYP	PPDX	7	12360	0.10	0.014	0.17	
297.18	300.23	3.05	570019	HYP	PPDX	7	10760	0.20	0.115	0.24	
300.23	303.28	3.05	570020	HYP	PPDX	7	12580	0.11	0.017	0.14	
303.28	306.32	3.04	570021	HYP	PPDX	7	12520	0.19	0.008	0.14	
306.32	307.84	1.52	570022	HYP	PPDX	7	6760	0.11	0.007	0.10	
307.84	309.98	2.14	570023	HYP	PPDX	7	7000	0.07	0.006	0.07	
309.98	313.03	3.05	570024	HYP	PPDX	7	11060	0.33	0.008	0.21	
313.03	316.07	3.04	570025	HYP	PPDX	7	10160	0.07	0.004	0.07	
316.07	318.21	2.14	570026	HYP	PPDX	7	8700	0.02	0.006	<0.01	
318.21	320.34	2.13	570027	HYP	PPDX	7	5020	0.04	0.004	<0.01	
320.34	324.15	3.81	570028	HYP	PPDX	7	15720	0.11	0.006	0.10	
324.15	327.35	3.20	570029	HYP	PPDX	7	11960	0.06	0.025	0.10	
327.35	330.40	3.05	570030	HYP	PPDX	7	14240	0.11	0.029	0.14	
330.40	333.45	3.05	570031	HYP	PPDX	7	12300	0.16	0.014	0.21	
333.45	336.14	2.69	570032	HYP	PPDX	7	8740	0.03	0.011	0.07	
336.14	339.55	3.41	570033	HYP	PPDX	7	12420	0.03	0.006	0.00	
339.55	341.83	2.28	570034	HYP	PPDX	7	9140	0.10	0.006	<0.01	
341.83	345.03	3.20	570035	HYP	QXAX	7	10680	0.17	0.049	0.24	
345.03	348.08	3.05	570036	HYP	QXAX	7	11380	0.10	0.044	0.14	
348.08	349.61	1.53	570037	HYP	QXAX	7	6420	0.14	0.050	0.17	
349.61	352.65	3.04	570038	HYP	QXAX	7	10700	0.17	0.032	0.21	
352.65	355.70	3.05	570039	HYP	QXPX	7	12480	0.15	0.017	0.17	
355.70	358.75	3.05	570040	HYP	QXPX	7	10900	0.08	0.018	0.07	
358.75	361.80	3.05	570041	HYP	QXPX	7	11420	0.15	0.037	0.21	
361.80	364.84	3.04	570042	HYP	QXPX	7	11500	0.09	0.054	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
364.84	367.89	3.05	570043	HYP	QXPX	7	12500	0.08	0.047	0.07	
367.89	369.72	1.83	570044	HYP	QXPX	7	5900	0.13	0.026	0.14	
369.72	372.77	3.05	570045	HYP	QXPX	7	9680	0.10	0.024	0.10	
372.77	375.82	3.05	570046	HYP	QXPX	7	9460	0.10	0.028	0.10	
375.82	377.34	1.52	570047	HYP	QXPX	7	5980	0.11	0.025	0.17	
377.34	380.09	2.75	570048	HYP	QXPX	7	10460	0.15	0.026	0.17	
380.09	383.13	3.04	570049	HYP	QXPX	7	14960	0.10	0.037	0.14	
383.13	386.18	3.05	570050	HYP	QXPX	7	7700	0.09	0.031	0.14	
386.18	388.62	2.44	570051	HYP	PPDX	7	7920	0.04	0.024	0.07	
388.62	390.75	2.13	570052	HYP	PPDX	7	7900	0.02	0.024	0.07	
390.75	393.80	3.05	570053	HYP	PPDX	7	11900	0.03	0.008	0.07	
393.80	396.54	2.74	570054	HYP	PPDX	7	10920	0.05	0.004	0.10	
396.54	399.29	2.75	570055	HYP	PPDX	7	9940	0.06	0.014	0.07	
399.29	402.34	3.05	570056	HYP	PPDX	7	11480	0.08	0.004	0.03	
402.34	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-128	Total Depth	535.53 m
Northing	254,890.45	Casing Depth	Left Out
Easting	111,103.03	Survey Data	Azimuth / Dip / Instrument
Elevation	1336.40 m	Collar	-90°
Core Size	HQ	306.93 m	300° / -89° / Sperry Sun
Drilling Started	June 30, 1992/May 25, 1993	480.66 m	007° / -89° / Sperry Sun
Drilling Finished	July 7, 1992/June 2, 1993		
Logged by	M.P. Phillips		
Purpose/Target:	Deepen 92-128.		

Comments: Better copper associated with potassic alteration having strong secondary KF and Bi, magnetite and gypsum. Zones with this assemblage were not numerous and overall grade is estimated at 0.15% Cu.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	6.71	3.05	H562895	CAP	BRXT	3	10840	0.090	0.021	0.23	0.7
6.71	9.75	3.04	H562896	CAP	BRXT	3	10400	0.080	0.045	0.23	1.2
9.75	12.80	3.05	H562897	CAP	BRXT	3	12500	0.090	0.051	0.33	0.9
12.80	15.85	3.05	H562898	CAP	BRXT	3	11400	0.080	0.029	0.73	2.4
15.85	18.90	3.05	H562899	CAP	BRXT	3	11640	0.160	0.077	1.15	2.1
18.90	21.95	3.05	H562900	CAP	BRXT	3	12020	0.170	0.084	0.50	1.0
21.95	24.99	3.04	H562901	CAP	BRXT	3	12400	0.350	0.061	0.40	0.8
24.99	27.74	2.75	H562902	CAP	BRXT	3	10020	0.140	0.149	2.36	5.5
27.74	30.78	3.04	H562903	CAP	BRXT	3	12000	0.080	0.035	0.67	1.0
30.78	33.83	3.05	H562904	CAP	BRXT	3	11960	0.240	0.060	0.70	2.4
33.83	37.03	3.20	H562905	CAP	BRXT	3	11280	0.100	0.096	1.43	6.9
37.03	40.08	3.05	H562906	CAP	BRXT	3	12000	0.130	0.070	0.67	2.4
40.08	43.28	3.20	H562907	CAP	BRXT	3	12860	0.200	0.049	0.90	3.8
43.28	46.33	3.05	H562908	CAP	BRXT	3	8600	0.170	0.065	1.05	2.1
46.33	49.38	3.05	H562909	CAP	BRXT	3	11700	0.300	0.032	0.76	1.0
49.38	52.43	3.05	H562910	CAP	BRXT	3	12360	0.170	0.066	0.46	2.1
52.43	55.47	3.04	H562911	CAP	BRXT	3	12220	0.140	0.074	1.58	6.2
55.47	58.52	3.05	H562912	CAP	BRXT	3	10340	0.080	0.047	1.60	4.8
58.52	61.57	3.05	H562913	CAP	BRXT	3	13420	0.070	0.053	0.91	3.4
61.57	64.62	3.05	H562914	CAP	BRXT	3	11620	0.070	0.089	0.34	2.4
64.62	67.67	3.05	H562915	CAP	BRXT	3	12020	0.090	0.043	0.57	1.0
67.67	70.71	3.04	H562916	CAP	BRXT	3	12960	0.130	0.060	0.68	3.4
70.71	73.76	3.05	H562917	CAP	BRXT	3	11400	0.110	0.034	0.50	1.4
73.76	76.81	3.05	H562918	CAP	BRXT	3	11600	0.110	0.192	0.30	1.0
76.81	79.86	3.05	H562919	CAP	BRXT	3	11840	0.160	0.041	0.55	0.6
79.86	82.91	3.05	H562920	CAP	BRXT	3	12400	0.150	0.042	0.76	1.0
82.91	85.95	3.04	H562921	SOX	BRXT	3	12040	0.210	0.028	0.41	0.8
85.95	89.00	3.05	H562922	SOX	BRXT	3	12660	1.090	0.018	0.19	1.0
89.00	92.05	3.05	H652923	SOX	BRXT	3	13360	0.510	0.024	0.37	1.7
92.05	95.10	3.05	H652924	SOX	BRXT	3	11380	0.190	0.022	0.36	1.7
95.10	98.14	3.04	H652925	SOX	BRXT	3	11540	0.130	0.044	0.34	1.4
98.14	101.19	3.05	H652926	SOX	BRXT	3	12360	0.130	0.030	0.39	1.4
101.19	104.24	3.05	H652927	SOX	BRXT	3	13440	0.130	0.021	0.24	1.7

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
104.24	107.29	3.05	H652928	SOX	BRXT	3	12320	0.140	0.025	0.28	1.4
107.29	110.34	3.05	H652929	SOX	BRXT	7	12520	0.200	0.044	0.45	1.7
110.34	113.39	3.05	H652930	SOX	BRXT	7	12200	0.410	0.024	0.39	1.4
113.39	116.43	3.04	H652931	SOX	BRXT	7	12220	0.210	0.039	0.30	0.7
116.43	119.48	3.05	H652932	SOX	BRXT	3	9680	0.220	0.088	0.48	7.5
119.48	122.53	3.05	H652933	SOX	BRXT	3	12500	0.180	0.023	0.24	1.4
122.53	125.58	3.05	H652934	SOX	BRXT	3	10640	0.160	0.017	0.33	1.4
125.58	128.63	3.05	H652935	SOX	BRXT	3	12160	0.140	0.034	0.28	1.4
128.63	131.67	3.04	H652936	SOX	BRXT	7	11940	0.210	0.058	0.30	1.7
131.67	134.72	3.05	H652937	SOX	BRXT	7	11800	0.320	0.054	0.31	2.1
134.72	137.77	3.05	H652938	SOX	BRXT	7	13440	0.360	0.074	0.49	2.7
137.77	140.82	3.05	H652939	SOX	BRXT	7	12820	0.240	0.020	0.19	0.7
140.82	143.87	3.05	H652940	SOX	BRXT	7	12500	0.220	0.017	0.16	1.0
143.87	146.61	2.74	H652941	SOX	BRXT	7	12300	0.310	0.035	0.34	1.0
146.61	149.96	3.35	H652942	SOX	BRXT	7	13300	0.310	0.024	0.16	1.0
149.96	153.01	3.05	H652943	SOX	BRXT	7	13620	0.360	0.028	0.39	1.7
153.01	156.06	3.05	H652944	SUS	BRXT	7	12580	0.620	0.019	0.42	2.4
156.06	159.11	3.05	H652945	SUS	BRXT	7	12400	0.710	0.020	0.31	1.0
159.11	162.15	3.04	H652946	SUS	BRXT	7	14640	0.280	0.017	0.18	0.4
162.15	165.20	3.05	H652947	SUS	BRXT	7	12360	0.440	0.013	0.21	1.0
165.20	169.47	4.27	H652948	SUS	BRXT	7	17320	0.550	0.015	0.28	1.0
169.47	172.67	3.20	H652949	SUS	BRXT	7	11660	0.760	0.110	0.47	1.7
172.67	175.87	3.20	H652950	SUS	BRXT	7	14640	0.800	0.030	0.61	1.7
175.87	178.92	3.05	H652951	SUS	BRXT	7	12920	0.350	0.023	0.19	0.5
178.92	181.97	3.05	H652952	SUS	BRXT	7	12540	0.170	0.018	0.29	Tr
181.97	185.01	3.04	H652953	SUS	BRXT	5	12120	0.330	0.022	0.39	1.4
185.01	188.06	3.05	H652954	SUS	BRXT	7	13360	0.690	0.021	0.38	1.4
188.06	191.11	3.05	H562955	SUS	BRXT	5	10360	1.860	0.024	2.02	5.5
191.11	194.16	3.05	H562956	SUS	BRXT	5	12000	0.500	0.027	0.59	1.4
194.16	197.21	3.05	H562957	SUS	BRXT	5	12140	0.450	0.029	0.54	2.1
197.21	200.25	3.04	H562958	SUS	BRXT	7	12600	0.310	0.023	0.58	1.4
200.25	203.30	3.05	H562959	HYP	BRXT	7	12040	0.320	0.035	0.70	1.4
203.30	206.35	3.05	H562960	HYP	BRXT	7	13880	0.380	0.026	0.80	2.4
206.35	209.40	3.05	H562961	HYP	BRXT	7	12920	0.210	0.017	0.27	1.0
209.40	212.45	3.05	H562962	HYP	BRXT	7	13680	0.160	0.008	0.25	1.4
212.45	215.04	2.59	H562963	HYP	BRXT	7	10120	0.540	0.013	0.22	1.4
215.04	218.08	3.04	H562964	HYP	BRXT	7	13960	0.210	0.013	0.23	1.4
218.08	221.44	3.36	H562965	HYP	BRXT	5	8080	1.840	0.017	0.46	3.8
221.44	224.64	3.20	H562966	HYP	BRXT	5	13520	0.590	0.022	0.32	3.1
224.64	227.69	3.05	H562967	HYP	BRXT	7	11720	0.200	0.019	0.30	1.4
227.69	231.04	3.35	H562968	HYP	BRXT	5	12680	0.280	0.029	0.31	1.4
231.04	233.78	2.74	H562969	HYP	BRXT	5	11060	0.240	0.085	0.39	1.4
233.78	236.83	3.05	H562970	HYP	BRXT	5	12240	0.360	0.049	0.68	2.1
236.83	239.88	3.05	H562971	HYP	BRXT	5	11840	0.460	0.044	0.75	2.4

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	H562972	HYP	BRXT	5	11480	0.230	0.048	0.58	1.4
242.93	245.97	3.04	H562973	HYP	BRXT	5	11600	0.430	0.021	0.37	2.1
245.97	249.02	3.05	H562974	HYP	BRXT	5	11860	0.250	0.021	0.44	1.0
249.02	252.07	3.05	H562975	HYP	BRXT	5	10840	0.260	0.025	0.48	1.4
252.07	255.12	3.05	H562976	HYP	BRXT	5	10520	0.010	Tr	0.35	0.6
255.12	258.17	3.05	H562977	HYP	BRXT	5	11120	0.160	0.025	0.31	1.0
258.17	261.21	3.04	H562978	HYP	BRXT	5	12060	0.180	0.035	0.35	1.7
261.21	264.26	3.05	H562979	HYP	BRXT	5	11640	0.290	0.105	0.69	2.7
264.26	268.24	3.98	H562980	HYP	BRXT	5	16220	0.210	0.050	0.27	2.1
268.24	271.27	3.03	H562981	HYP	BRXT	5	11500	0.220	0.059	0.30	2.4
271.27	274.32	3.05	H562982	HYP	BRXT	5	9720	0.170	0.076	0.31	1.0
274.32	276.45	2.13	570143	HYP	IXPA	7	6460	0.15	0.083	0.17	
276.45	279.50	3.05	570144	HYP	IXPA	7	12740	0.19	0.061	0.31	
279.50	282.55	3.05	570145	HYP	IXPA	7	12900	0.17	0.023	0.21	
282.55	285.60	3.05	570146	HYP	IXPA	7	12920	0.14	0.041	0.21	
285.60	288.64	3.04	570147	HYP	IXPA	7	13300	0.19	0.098	0.17	
288.64	291.69	3.05	570148	HYP	IXPA	7	12300	0.18	0.083	0.17	
291.69	294.74	3.05	570149	HYP	IXPA	7	12460	0.13	0.048	0.14	
294.74	297.79	3.05	570150	HYP	IXPA	7	12880	0.20	0.059	0.24	
297.79	300.84	3.05	570151	HYP	IXPA	7	13160	0.15	0.080	0.21	
300.84	303.89	3.05	570152	HYP	IXPA	7	12650	0.14	0.030	0.17	
303.89	306.94	3.05	570153	HYP	IXPA	7	13600	0.15	0.041	0.21	
306.94	309.98	3.04	570154	HYP	IXPA	7	12440	0.22	0.055	0.34	
309.98	313.03	3.05	570155	HYP	IXPA	7	11540	0.14	0.098	0.27	
313.03	316.08	3.05	570156	HYP	IXPA	7	10900	0.13	0.108	0.17	
316.08	319.13	3.05	570157	HYP	IXPA	7	11320	0.15	0.091	0.21	
319.13	322.17	3.04	570158	HYP	IXPA	7	11580	0.16	0.032	0.17	
322.17	325.22	3.05	570159	HYP	IXPA	7	11280	0.16	0.027	0.21	
325.22	328.27	3.05	570160	HYP	IXPA	7	11800	0.16	0.035	0.17	
328.27	331.32	3.05	570161	HYP	IXPA	7	10640	0.13	0.029	0.14	
331.32	334.37	3.05	570162	HYP	IXPA	7	10780	0.13	0.050	0.14	
334.37	336.65	2.28	570163	HYP	IXPA	7	8740	0.18	0.061	0.24	
336.65	339.70	3.05	570164	HYP	IXPA	7	11060	0.14	0.050	0.14	
339.70	341.68	1.98	570165	HYP	IXPA	7	5820	0.13	0.019	0.10	
341.68	343.81	2.13	570166	HYP	IXPA	7	8440	0.09	0.024	0.07	
343.81	345.64	1.83	570167	HYP	IXPA	7	5320	0.09	0.030	0.10	
345.64	348.08	2.44	570168	HYP	IXPA	7	10140	0.24	0.087	0.48	
348.08	351.13	3.05	570169	HYP	IXPA	7	12640	0.10	0.015	0.10	
351.13	354.18	3.05	570170	HYP	IXPA	7	11520	0.14	0.032	0.17	
354.18	357.23	3.05	570171	HYP	IXPA	7	12500	0.11	0.028	0.07	
357.23	358.75	1.52	570172	HYP	IXPA	7	6480	0.18	0.040	0.14	
358.75	361.80	3.05	570173	HYP	IXPA	7	11640	0.11	0.043	0.10	
361.80	364.85	3.05	570174	HYP	IXPA	7	12540	0.12	0.042	0.10	
364.85	367.89	3.04	570175	HYP	IXPA	7	12140	0.19	0.044	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	570176	HYP	IXPA	7	11640	0.13	0.050	0.10	
370.94	373.99	3.05	570177	HYP	IXPA	7	12540	0.08	0.045	0.10	
373.99	377.04	3.05	570178	HYP	IXPA	7	10900	0.11	0.061	0.10	
377.04	380.09	3.05	570179	HYP	IXPA	7	12560	0.18	0.078	0.31	
380.09	383.13	3.04	570180	HYP	IXPA	7	12540	0.15	0.083	0.14	
383.13	386.18	3.05	570181	HYP	IXPA	7	12980	0.19	0.046	0.21	
386.18	389.23	3.05	570182	HYP	IXPA	7	13380	0.13	0.071	0.10	
389.23	392.28	3.05	570183	HYP	IXPA	7	13400	0.10	0.025	0.10	
392.28	395.33	3.05	570184	HYP	IXPA	7	13140	0.08	0.071	0.03	
395.33	398.37	3.04	570185	HYP	IXPA	7	13520	0.24	0.046	0.27	
398.37	401.46	3.09	570186	HYP	PPDP	7	12740	0.12	0.060	0.10	
401.46	404.47	3.01	570187	HYP	PPDP	7	14220	0.07	0.027	0.03	
404.47	406.60	2.13	570188	HYP	PPDP	7	8660	0.07	0.016	0.61	
406.60	409.65	3.05	570189	HYP	PPDP	7	14300	0.19	0.020	0.24	
409.65	412.09	2.44	570190	HYP	PPDP	7	9840	0.14	0.014	0.14	
412.09	415.14	3.05	570191	HYP	PPDP	7	14640	0.07	0.006	0.03	
415.14	417.88	2.74	570192	HYP	PPDP	7	11540	0.16	0.026	0.14	
417.88	419.40	1.52	570193	HYP	PPDP	7	5280	0.22	0.005	0.09	
419.40	422.45	3.05	570194	HYP	PPDP	7	14340	0.07	0.007	0.07	
422.45	425.65	3.20	570195	HYP	PPDP	7	12680	0.08	0.016	0.00	
425.65	428.85	3.20	570196	HYP	IXPA	7	12420	0.05	0.024	0.00	
428.85	431.90	3.05	570197	HYP	IXPA	7	15760	0.06	0.019	0.03	
431.90	434.95	3.05	570198	HYP	IXPA	7	14660	0.07	0.030	0.03	
434.95	438.00	3.05	570199	HYP	IXPA	7	14700	0.12	0.041	0.14	
438.00	441.05	3.05	570200	HYP	IXPA	7	13960	0.11	0.023	0.10	
441.05	444.09	3.04	570201	HYP	IXPA	7	11500	0.14	0.037	0.07	
444.09	447.14	3.05	570202	HYP	IXPA	7	11540	0.10	0.071	0.07	
447.14	450.19	3.05	570203	HYP	IXPA	5	11380	0.11	0.081	0.10	
450.19	453.24	3.05	570204	HYP	IXPA	5	12620	0.12	0.033	0.14	
453.24	456.29	3.05	570205	HYP	IXPA	7	14660	0.19	0.058	0.21	
456.29	459.33	3.04	570206	HYP	IXPA	7	13860	0.24	0.033	0.27	
459.33	462.38	3.05	570207	HYP	IXPA	7	13400	0.33	0.033	0.31	
462.38	465.43	3.05	570208	HYP	IXPA	7	13460	0.23	0.092	0.34	
465.43	468.48	3.05	570209	HYP	IXPA	7	13400	0.06	0.097	0.03	
468.48	471.53	3.05	570210	HYP	IXPA	7	14540	0.13	0.086	0.14	
471.53	474.51	2.98	570211	HYP	IXPA	7	14040	0.08	0.067	0.00	
474.51	477.62	3.11	570212	HYP	IXPA	7	12460	0.13	0.015	0.14	
477.62	480.67	3.05	570213	HYP	IXPA	7	12240	0.03	0.017	0.00	
480.67	483.72	3.05	570214	HYP	IXPA	7	12960	0.11	0.013	0.03	
483.72	486.77	3.05	570215	HYP	IXPA	7	13280	0.06	0.013	0.00	
486.77	489.81	3.04	570216	HYP	IXPA	7	12220	0.05	0.015	0.00	
489.81	492.86	3.05	570217	HYP	IXPA	7	12840	0.05	0.009	0.00	
492.86	495.91	3.05	570218	HYP	IXPA	7	12480	0.12	0.019	0.14	
495.91	498.96	3.05	570219	HYP	IXPA	7	12800	0.08	0.015	0.00	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
498.96	502.01	3.05	570220	HYP	IXPA	7	12340	0.05	0.011	0.00	
502.01	505.06	3.05	570221	HYP	IXPA	7	11940	0.02	0.009	0.00	
505.06	508.10	3.04	570222	HYP	IXPA	7	12540	0.04	0.013	0.00	
508.10	511.15	3.05	570223	HYP	IXPA	7	12120	0.08	0.026	0.00	
511.15	514.20	3.05	570224	HYP	IXPA	7	12440	0.03	0.016	0.00	
514.20	517.25	3.05	570225	HYP	IXPA	7	12640	0.01	0.006	0.00	
517.25	520.30	3.05	570226	HYP	IXPA	7	12600	0.03	0.015	0.00	
520.30	523.34	3.04	570227	HYP	IXPA	7	12500	0.20	0.026	0.17	
523.34	526.39	3.05	570228	HYP	IXPA	7	12440	0.04	0.011	0.00	
526.39	529.44	3.05	570229	HYP	IXPA	7	12400	0.06	0.015	0.00	
529.44	532.49	3.05	570230	HYP	IXPA	5	12840	0.09	0.052	0.00	
532.49	535.53	3.04	570231	HYP	IXPA	5	11600	0.18	0.025	0.10	
535.53	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-129	Total Depth	514.50 m		
Northing	255,044.24	Casing Depth	18.29 m		Left Out
Easting	111,263.25	Survey Data	Azimuth	Dip	Instrument
Elevation	1220.29 m	Collar		-90.0°	
Core Size	HQ to 449.43/NQ to end	457.20 m	278°	-88.5°	Sperry Sun
Drilling Started	July 7, 1992/August 21, 1993				
Drilling Finished	July 12, 1993/August 29, 1993				
Logged by	F. Gish/L. Brommeland/B. Thurston				

Purpose/Target: To test continuity of mineralization on 255,040 N drill section at depth.

Comments: Moderate hypogene copper mineralization; strong molybdenum.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	7.01	3.96	H562291	CAP	BRXT	5	2900	0.070	0.040	0.21	1.4
7.01	10.97	3.96	H562292	CAP	BRXT	5	15220	0.080	0.060	0.17	1.7
10.97	14.02	3.05	H562293	CAP	BRXT	5	10840	0.100	0.046	0.07	0.8
14.02	17.22	3.20	H562294	SOX	BRXT	3	12480	1.360	0.015	0.27	1.0
17.22	20.42	3.20	H562295	SOX	BRXT	3	11760	0.640	0.008	0.31	1.2
20.42	23.32	2.90	H562296	SOX	BRXT	3	10720	0.540	0.018	0.48	1.3
23.32	25.91	2.59	H562297	CAP	BRXT	3	9240	0.140	0.036	0.17	1.9
25.91	28.96	3.05	H562298	CAP	BRXT	3	12600	0.050	0.029	0.07	1.1
28.96	32.61	3.65	H562299	CAP	BRXT	4	13700	0.020	0.033	0.03	0.3
32.61	35.66	3.05	H562300	CAP	BRXC	2	13240	0.080	0.016	0.31	1.2
35.66	38.71	3.05	H562301	CAP	BRXC	2	11620	0.030	0.044	0.21	0.6
38.71	41.76	3.05	H562302	CAP	BRXT	2	10400	0.050	0.028	0.03	Tr
41.76	44.81	3.05	H562303	CAP	BRXT	3	12460	0.090	0.030	0.03	Tr
44.81	47.85	3.04	H562304	CAP	BRXT	3	12080	0.040	0.023	Tr	0.3
47.85	50.90	3.05	H562305	CAP	BRXT	3	10880	0.030	0.038	0.01	Tr
50.90	55.17	4.27	H562306	SUS	BRXT	3	16360	0.310	0.032	0.10	0.5
55.17	58.37	3.20	H562307	SUS	BRXT	3	12400	0.660	0.021	0.10	0.6
58.37	61.57	3.20	H562308	SUS	BRXT	3	12680	0.300	0.027	0.03	Tr
61.57	64.62	3.05	H562309	SUS	BRXT	1	12480	0.290	0.027	0.07	0.3
64.62	67.36	2.74	H562310	SUS	BRXT	3	10060	0.590	0.037	0.07	0.4
67.36	70.71	3.35	H562311	SUS	BRXT	3	12440	0.660	0.048	0.21	1.1
70.71	73.76	3.05	H562312	SUS	BRXT	3	12220	0.640	0.029	0.24	1.0
73.76	76.81	3.05	H562313	SUS	BRXC	2	10420	0.290	0.056	0.27	0.8
76.81	79.86	3.05	H562314	SUS	BRXT	4	12180	0.400	0.073	0.48	1.5
79.86	82.91	3.05	H562315	SUS	BRXT	4	11540	0.530	0.123	0.34	1.4
82.91	86.41	3.50	H562316	SUS	BRXC	2	12440	0.510	0.116	0.34	1.1
86.41	89.00	2.59	H562317	SUS	BRXC	2	12160	0.280	0.040	0.21	1.7
89.00	92.05	3.05	H562318	SUS	BRXC	2	12920	0.470	0.026	0.79	5.0
92.05	95.10	3.05	H562319	HYP	BRXC	3	9700	0.200	0.093	0.17	1.0
95.10	98.15	3.05	H562320	HYP	BRXC	2	12120	0.190	0.069	0.31	1.0
98.15	101.19	3.04	H562321	HYP	BRXC	2	10600	0.150	0.040	0.21	0.8
101.19	105.16	3.97	H562322	HYP	BRXC	3	15280	0.230	0.027	0.31	1.0
105.16	108.05	2.89	H562323	HYP	BRXC	2	11200	0.250	0.025	0.38	1.0

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.05	111.86	3.81	H562324	HYP	BRXC	2	14720	0.060	0.029	0.10	Tr
111.86	115.82	3.96	H562325	HYP	BRXC	1	14100	0.130	0.023	0.17	0.6
115.82	119.48	3.66	H562326	HYP	BRXC	1	13860	0.230	0.009	0.34	0.8
119.48	122.53	3.05	H562327	HYP	PPXX	1	11860	0.060	0.001	0.17	0.4
122.53	125.58	3.05	H562328	HYP	PPXX	1	12040	0.220	0.009	0.17	0.9
125.58	128.63	3.05	H562329	HYP	BRXC	2	12460	0.160	0.019	0.10	1.8
128.63	131.67	3.04	H562330	HYP	BRXC	5	13060	0.370	0.012	0.31	1.5
131.67	134.72	3.05	H562331	HYP	BRXC	5	12440	0.150	0.048	0.24	0.7
134.72	137.77	3.05	H562332	HYP	BRXC	5	13780	0.310	0.046	0.17	1.5
137.77	140.82	3.05	H562333	HYP	BRXT	5	13060	0.580	0.031	0.65	2.5
140.82	143.87	3.05	H562334	HYP	BRXT	5	12860	0.400	0.103	0.45	1.6
143.87	146.91	3.04	H562335	HYP	BRXT	4	12660	0.460	0.066	0.48	1.9
146.91	149.96	3.05	H562336	HYP	BRXT	5	12820	0.110	0.083	0.31	0.5
149.96	153.01	3.05	H562337	HYP	BRXT	5	12360	0.210	0.057	0.21	1.1
153.01	156.06	3.05	H562338	HYP	BRXT	5	12380	0.300	0.100	0.34	1.2
156.06	159.11	3.05	H562339	HYP	BRXT	5	13140	0.350	0.105	0.45	1.4
159.11	162.15	3.04	H562340	HYP	BRXT	3	12160	0.440	0.095	0.58	2.0
162.15	165.20	3.05	H562341	HYP	BRXT	3	12380	0.380	0.076	0.55	1.3
165.20	168.25	3.05	H562342	HYP	BRXT	3	12600	0.170	0.041	0.24	0.8
168.25	171.30	3.05	H562343	HYP	BRXT	2	13340	0.130	0.097	0.14	1.2
171.30	174.35	3.05	H562344	HYP	BRXT	3	13100	0.190	0.052	0.27	0.6
174.35	177.39	3.04	H562345	HYP	BRXT	3	11720	0.150	0.055	0.14	0.7
177.39	180.44	3.05	H562346	HYP	BRXT	3	12960	0.150	0.052	0.17	0.6
180.44	182.88	2.44	H562347	HYP	BRXT	2	9600	0.200	0.048	0.31	0.9
182.88	184.10	1.22	566486	HYP	WRGD	4	2800	0.13	0.021	0.24	
184.10	186.23	2.13	566487	HYP	WRGD	4	8420	0.15	0.046	0.27	
186.23	188.06	1.83	566488	HYP	WRGD	4	7700	0.31	0.090	0.34	
188.06	191.11	3.05	566489	HYP	WRGD	4	11900	0.44	0.033	0.51	
191.11	194.16	3.05	566490	HYP	WRGD	4	11680	0.30	0.039	0.41	
194.16	195.99	1.83	566491	HYP	WRGD	4	7280	0.53	0.035	0.69	
195.99	199.03	3.04	566492	HYP	IXAX	4	12180	0.49	0.057	0.45	
199.03	201.93	2.90	566493	HYP	IXAX	4	11100	0.47	0.034	0.51	
201.93	204.98	3.05	566494	HYP	IXAX	4	12540	0.25	0.010	0.27	
204.98	207.42	2.44	566495	HYP	IXAX	4	9200	0.29	0.173	0.31	
207.42	209.40	1.98	566496	HYP	IXAX	4	8700	0.24	0.211	0.38	
209.40	212.45	3.05	566497	HYP	IXAX	4	10100	0.12	0.089	0.21	
212.45	214.88	2.43	566498	HYP	IXAX	4	11100	0.19	0.072	0.27	
214.88	217.93	3.05	566499	HYP	IXAX	4	11840	0.17	0.027	0.21	
217.93	220.98	3.05	566500	HYP	IXAX	4	12860	0.10	0.097	0.10	
220.98	224.03	3.05	566501	HYP	IXAX	4/7	11500	0.27	0.091	0.45	
224.03	227.08	3.05	566502	HYP	IXAX	4/7	12240	0.20	0.197	0.31	
227.08	230.12	3.04	566503	HYP	IXAX	4/7	12780	0.12	0.035	0.21	
230.12	233.17	3.05	566504	HYP	IXAX	4/7	10300	0.13	0.139	0.21	
233.17	236.22	3.05	566505	HYP	IXAX	3	11600	0.18	0.059	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	(m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.22	239.27	3.05	566506	HYP	IXAX	7/4	10380	0.15	0.220	0.31	
239.27	242.01	2.74	566507	HYP	IXAX	4	12280	0.12	0.116	0.14	
242.01	245.67	3.66	566508	HYP	IXAX	3	11280	0.08	0.130	0.10	
245.67	248.72	3.05	566509	HYP	IXAX	7/4	14520	0.07	0.316	0.10	
248.72	251.92	3.20	566510	HYP	IXAX	6	12980	0.15	0.405	0.17	
251.92	254.81	2.89	566511	HYP	IXAX	4	12100	0.15	0.152	0.14	
254.81	257.71	2.90	566512	HYP	IXAX	4	11720	0.17	0.145	0.17	
257.71	260.76	3.05	566513	HYP	IXAX	4	12440	0.14	0.124	0.17	
260.76	263.80	3.04	566514	HYP	IXAX	7/4	11300	0.14	0.088	0.17	
263.80	267.00	3.20	566515	HYP	IXAX	4	12900	0.09	0.157	0.07	
267.00	270.05	3.05	566516	HYP	IXAX	4	12200	0.09	0.127	0.10	
270.05	273.25	3.20	566517	HYP	IXAX	4	13800	0.08	0.226	0.14	
273.25	276.00	2.75	566518	HYP	IXAX	7	10640	0.16	0.087	0.14	
276.00	279.04	3.04	566519	HYP	IXAX	7/5	11240	0.10	0.033	0.14	
279.04	282.55	3.51	566520	HYP	IXAX	7	13280	0.07	0.059	0.10	
282.55	285.60	3.05	566521	HYP	IXAX	7	11940	0.08	0.135	0.10	
285.60	288.65	3.05	566522	HYP	IXAX	7	12880	0.12	0.039	0.10	
288.65	291.69	3.04	566523	HYP	IXAX	4	12680	0.15	0.078	0.17	
291.69	294.74	3.05	566524	HYP	IXAX	4	13240	0.11	0.371	0.51	
294.74	297.79	3.05	566525	HYP	IXAX	4	11400	0.10	0.095	0.14	
297.79	300.84	3.05	566526	HYP	QMIE	4	11040	0.11	0.143	0.10	
300.84	303.89	3.05	566527	HYP	QMIE	4	11040	0.14	0.028	0.14	
303.89	306.93	3.04	566528	HYP	QMIE	4	13220	0.12	0.067	0.17	
306.93	309.98	3.05	566529	HYP	QMIE	4	12220	0.10	0.043	0.14	
309.98	313.03	3.05	566530	HYP	QMIE	4	12520	0.08	0.165	0.10	
313.03	316.08	3.05	566531	HYP	QMIE	4	11520	0.07	0.079	0.10	
316.08	319.13	3.05	566532	HYP	QMIE	4	11920	0.02	0.052	0.45	
319.13	322.17	3.04	566533	HYP	QMIE	4	10460	0.03	0.093	0.10	
322.17	325.22	3.05	566534	HYP	QMIE	4	12040	0.08	0.074	0.10	
325.22	328.27	3.05	566535	HYP	QMIE	4	11760	0.03	0.207	0.03	
328.27	331.32	3.05	566536	HYP	QMIE	4	11900	0.03	0.064	0.07	
331.32	334.37	3.05	566537	HYP	QMIE	4	11980	0.03	1.180	0.07	
334.37	337.41	3.04	566538	HYP	QMIE	4	12880	0.04	0.184	0.07	
337.41	340.46	3.05	566539	HYP	QMIE	4	11880	0.04	0.087	0.07	
340.46	343.51	3.05	566540	HYP	QMIE	4	11500	0.03	0.082	0.03	
343.51	346.56	3.05	566541	HYP	QMIE	4	13000	0.04	0.100	0.07	
346.56	349.61	3.05	566542	HYP	QMIE	4	12080	0.10	0.174	0.10	
349.61	352.65	3.04	566543	HYP	QMIE	4/7	13040	0.14	0.055	0.21	
352.65	355.70	3.05	566544	HYP	QMIE	4/7	12600	0.15	0.094	0.21	
355.70	358.75	3.05	566545	HYP	QMIE	4/7	12700	0.12	0.101	0.10	
358.75	361.79	3.04	566546	HYP	QMIE	4/7	12280	0.18	0.080	0.24	
361.79	364.84	3.05	566547	HYP	QMIE	6/7	12500	0.26	0.104	0.34	
364.84	367.89	3.05	566548	HYP	QMIE	6/7	12000	0.11	0.116	0.51	
367.89	370.94	3.05	566549	HYP	QMIE	6/7	12680	0.18	0.046	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.99	3.05	566550	HYP	WRGD	6/7	13000	0.10	0.162	0.14	
373.99	377.04	3.05	566551	HYP	WRGD	6/7	12820	0.08	0.061	0.14	
377.04	380.08	3.04	566552	HYP	WRGD	6/7	12880	0.11	0.072	0.21	
380.08	383.13	3.05	566553	HYP	WRGD	6/7	12200	0.06	0.107	0.14	
383.13	386.18	3.05	566554	HYP	WRGD	6/7	12300	0.09	0.067	0.17	
386.18	389.23	3.05	566555	HYP	WRGD	7	11880	0.11	0.072	0.14	
389.23	392.27	3.04	566556	HYP	WRGD	7	12320	0.17	0.034	0.27	
392.27	395.32	3.05	566557	HYP	WRGD	7/3	11000	0.08	0.047	0.14	
395.32	398.37	3.05	566558	HYP	WRGD	7	12480	0.11	0.104	0.17	
398.37	401.42	3.05	566559	HYP	WRGD	7	12360	0.10	0.058	0.17	
401.42	404.47	3.05	566560	HYP	WRGD	7	12920	0.08	0.070	0.10	
404.47	407.52	3.05	566561	HYP	WRGD	7	13100	0.18	0.098	0.17	
407.52	410.56	3.04	566562	HYP	WRGD	7	12320	0.11	0.058	0.21	
410.56	413.61	3.05	566563	HYP	WRGD	7/5	12200	0.04	0.351	0.10	
413.61	416.66	3.05	566564	HYP	WRGD	7	12400	0.08	0.053	0.14	
416.66	419.71	3.05	566565	HYP	WRGD	7	12000	0.10	0.046	0.17	
419.71	422.75	3.04	566566	HYP	WRGD	7	12780	0.14	0.068	0.17	
422.75	425.81	3.06	566567	HYP	WRGD	7	16020	0.10	0.082	0.17	
425.81	428.85	3.04	566568	HYP	WRGD	7	12500	0.09	0.114	0.17	
428.85	431.90	3.05	566569	HYP	WRGD	7	13720	0.09	0.032	0.14	
431.90	434.95	3.05	566570	HYP	WRGD	7	7560	0.07	0.051	0.17	
434.95	438.00	3.05	566571	HYP	WRGD	7	12860	0.07	0.164	0.17	
438.00	441.05	3.05	566572	HYP	WRGD	7	12820	0.06	0.106	0.14	
441.05	444.09	3.04	566573	HYP	WRGD	7	12860	0.11	0.076	0.14	
444.09	447.14	3.05	566574	HYP	WRGD	7	12840	0.08	0.044	0.14	
447.14	449.43	2.29	566575	HYP	WRGD	7	8720	0.07	0.040	0.10	
449.43	450.19	0.76	566576	HYP	WRGD	7	8960	0.12	0.020	0.17	
450.19	453.24	3.05	566577	HYP	WRGD	7	6420	0.10	0.047	0.14	
453.24	456.29	3.05	566578	HYP	WRGD	7	6620	0.08	0.041	0.17	
456.29	459.33	3.04	566579	HYP	WRGD	7	6980	0.10	0.125	0.17	
459.33	462.38	3.05	566580	HYP	WRGD	7	6720	0.06	0.078	0.21	
462.38	465.43	3.05	566581	HYP	WRGD	7	6960	0.07	0.100	0.17	
465.43	468.48	3.05	566582	HYP	WRGD	7	6500	0.21	0.063	0.27	
468.48	471.53	3.05	566583	HYP	WRGD	7/5	6400	0.16	0.042	0.24	
471.53	474.57	3.04	566584	HYP	WRGD	7	7180	0.10	0.052	0.14	
474.57	477.62	3.05	566585	HYP	WRGD	7/5	6780	0.09	0.046	0.14	
477.62	480.67	3.05	566586	HYP	WRGD	7	7020	0.11	0.051	0.21	
480.67	483.72	3.05	566587	HYP	WRGD	7/5	6720	0.07	0.073	0.14	
483.72	486.77	3.05	566588	HYP	WRGD	7	6820	0.08	0.053	0.14	
486.77	489.81	3.04	566589	HYP	WRGD	7	6720	0.08	0.030	0.07	
489.81	492.86	3.05	566590	HYP	WRGD	7	7000	0.08	0.026	0.14	
492.86	495.91	3.05	566591	HYP	WRGD	7	7660	0.09	0.027	0.14	
495.91	498.96	3.05	566592	HYP	WRGD	7	7360	0.06	0.085	0.14	
498.96	502.01	3.05	566593	HYP	WRGD	7	8020	0.06	0.039	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-129

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
502.01	505.05	3.04	566594	HYP	WRGD	7	7120	0.06	0.040	0.07	
505.05	508.10	3.05	566595	HYP	WRGD	7	7300	0.08	0.077	0.10	
508.10	511.15	3.05	566596	HYP	WRGD	7	7580	0.06	0.039	0.10	
511.15	514.50	3.35	566597	HYP	WRGD	7	7220	0.05	0.084	0.07	
514.50	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-131	**Total Depth**	361.49 m
Northing	255,052.23	**Casing Depth**	Left Out
Easting	111,022.65	**Survey Data**	**Azimuth** / **Dip** / **Instrument**
Elevation	1284.83 m	**Collar**	-90.0°
Core Size	HQ	306.9 m	015° / -89.7° / Sperry Sun
Drilling Started	July 19, 1992/July 21, 1993		
Drilling Finished	July 25, 1992/July 25, 1993		
Logged by	P. Fischl		

Purpose/Target: This hole was deepened to test for ore grade mineralization encountered at similar depths in adjacent holes (93-145, 93-141).

Comments: This deepened section encountered moderately to strongly potassic altered heterolithic microbreccia (mostly coarse). Section carries weak to moderate Cu mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	6.10	3.66	H528082	CAP	BRXT	7	11640	0.060	0.052	0.62	4.5
6.10	9.30	3.20	H528083	CAP	BRXT	3	12500	0.070	0.070	0.58	2.6
9.30	11.89	2.59	H528084	CAP	BRXT	7	10920	0.110	0.068	0.68	1.0
11.89	14.78	2.89	H528085	CAP	BRXT	7	11200	0.150	0.048	0.51	1.9
14.78	18.59	3.81	H528086	CAP	BRXT	7	12980	0.240	0.038	0.51	2.1
18.59	21.64	3.05	H528087	CAP	BRXT	5	11840	0.050	0.029	0.41	2.0
21.64	24.99	3.35	H528088	CAP	BRXT	5	11880	0.030	0.031	0.38	2.0
24.99	28.04	3.05	H528089	CAP	BRXT	7	11020	0.050	0.040	0.38	2.2
28.04	31.08	3.04	H528090	CAP	BRXT	7	11980	0.090	0.036	0.45	2.2
31.08	34.14	3.06	H528091	CAP	BRXT	7	13480	0.100	0.038	0.45	2.5
34.14	36.73	2.59	H528092	CAP	BRXT	7	9440	0.150	0.042	0.68	1.9
36.73	40.23	3.50	H528093	CAP	BRXT	7	13380	0.060	0.039	0.38	1.9
40.23	43.28	3.05	H528094	CAP	BRXT	5	11200	0.040	0.030	0.27	1.1
43.28	46.33	3.05	H528095	CAP	BRXT	7	12660	0.100	0.039	0.51	1.6
46.33	50.14	3.81	H528096	CAP	BRXT	7	14500	0.080	0.015	0.31	2.3
50.14	53.95	3.81	H528097	CAP	BRXT	5	15560	0.040	0.042	0.34	1.6
53.95	57.00	3.05	H528098	CAP	BRXT	5	12060	0.050	0.036	0.24	1.4
57.00	60.04	3.04	H528099	CAP	BRXT	7	11460	0.070	0.058	0.34	2.6
60.04	63.09	3.05	H528100	CAP	BRXT	5	11040	0.060	0.055	0.48	4.1
63.09	66.14	3.05	H528101	CAP	BRXT	5	10900	0.090	0.031	0.65	2.9
66.14	69.34	3.20	H528102	CAP	BRXT	5	12000	0.070	0.031	0.38	1.5
69.34	72.24	2.90	H528103	CAP	BRXT	4	11540	0.060	0.064	0.41	1.1
72.24	75.29	3.05	H528104	CAP	BRXT	4	11620	0.090	0.020	0.34	1.9
75.29	78.33	3.04	H528105	CAP	BRXT	7	11480	0.130	0.049	0.48	1.6
78.33	81.38	3.05	H528106	CAP	BRXT	7	10080	0.130	0.039	0.89	1.5
81.38	84.43	3.05	H528107	CAP	BRXT	7	12420	0.130	0.030	0.68	2.0
84.43	87.48	3.05	H528108	CAP	BRXT	4	12600	0.110	0.031	0.79	3.7
87.48	90.22	2.74	H528109	CAP	BRXT	4	11240	0.130	0.016	0.31	1.4
90.22	93.42	3.20	H528110	SOX	BRXT	7	13560	0.400	0.071	0.75	2.7
93.42	96.62	3.20	H528111	SOX	BRXT	7	13040	0.670	0.067	0.41	2.7
96.62	99.67	3.05	H528112	SUS	BRXT	4	12340	0.410	0.041	0.38	1.7
99.67	102.71	3.04	H528113	SUS	BRXT	7	11740	1.190	0.052	0.38	1.5
102.71	105.77	3.06	H528114	SUS	BRXT	7	11800	0.990	0.095	0.55	1.5

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	H528115	SUS	BRXT	7	11380	0.680	0.044	0.58	1.5
108.81	111.40	2.59	H528116	SUS	BRXT	7	6760	0.850	0.049	0.48	1.5
111.40	114.45	3.05	H528117	SUS	BRXT	4	9840	0.730	0.028	0.48	1.4
114.45	117.65	3.20	H528118	SUS	BRXC	2	12300	0.710	0.041	0.48	2.9
117.65	120.85	3.20	H528119	SUS	BRXC	7	11060	0.740	0.049	0.51	2.5
120.85	124.97	4.12	H528220	SUS	BRXT	7	15100	0.430	0.038	0.55	1.7
124.97	128.17	3.20	H528121	SUS	BRXT	7	12540	0.720	0.066	0.86	2.3
128.17	131.37	3.20	H528122	HYP	BRXT	7	12620	0.280	0.064	0.68	1.4
131.37	134.72	3.35	H528123	HYP	BRXT	7	13060	0.760	0.076	0.79	2.6
134.72	137.77	3.05	H528124	HYP	BRXT	7	11480	0.630	0.049	0.38	1.8
137.77	140.82	3.05	H528125	HYP	BRXT	7	13200	0.540	0.060	0.72	1.3
140.82	143.87	3.05	H528126	HYP	BRXT	7	11100	0.410	0.039	0.55	1.5
143.87	146.61	2.74	H528127	HYP	BRXT	7	11540	0.790	0.071	0.55	4.7
146.61	149.33	2.72	H528128	HYP	QZMF	7	12780	0.540	0.103	0.75	2.2
149.33	152.10	2.77	H528129	HYP	QZMF	7	10600	0.540	0.056	0.55	1.9
152.10	155.14	3.04	H528130	HYP	BRXT	7	12860	0.900	0.046	0.41	1.0
155.14	158.19	3.05	H528131	HYP	QZMF	7	12820	0.490	0.079	0.75	1.8
158.19	162.00	3.81	H528132	HYP	BRXT	7	15920	0.400	0.051	0.72	1.3
162.00	164.90	2.90	H528133	HYP	BRXT	7	11940	0.350	0.038	0.55	1.5
164.90	168.55	3.65	H528134	HYP	QZMF	7	15500	0.400	0.068	0.45	1.4
168.55	171.30	2.75	H528135	HYP	QZMF	7	9120	0.460	0.065	0.68	1.6
171.30	174.35	3.05	H528136	HYP	BRXT	7	11580	0.360	0.040	0.68	1.7
174.35	177.39	3.04	H528137	HYP	BRXT	7	12180	0.270	0.063	0.89	1.7
177.39	180.44	3.05	H528138	HYP	BRXT	7	12300	0.360	0.049	1.30	1.9
180.44	183.49	3.05	H528139	HYP	BRXT	3	11780	0.290	0.046	0.89	2.2
183.49	186.54	3.05	H528140	HYP	BRXT	7	11880	0.320	0.062	0.89	2.0
186.54	190.50	3.96	H528141	HYP	BRXT	7	15100	0.180	0.031	0.65	1.6
190.50	193.55	3.05	H528142	HYP	BRXC	7	11280	0.200	0.023	0.48	1.4
193.55	196.60	3.05	H528143	HYP	BRXC	7	10140	0.270	0.059	0.51	1.1
196.60	199.18	2.58	H528144	HYP	BRXC	7	9100	0.310	0.023	0.55	1.8
199.18	203.30	4.12	H528145	HYP	BRXT	7	16000	Tr	Tr	0.03	Tr
203.30	206.35	3.05	H528146	HYP	BRXT	7	12160	0.180	0.036	0.27	1.5
206.35	209.40	3.05	H528147	HYP	BRXT	7	11680	0.190	0.023	0.27	1.0
209.40	212.45	3.05	H528148	HYP	BRXT	7	12420	0.190	0.016	0.27	2.0
212.45	215.49	3.04	H528149	HYP	BRXT	7	11200	0.200	0.029	0.38	1.7
215.49	218.54	3.05	H528150	HYP	BRXT	7	12120	0.280	0.027	0.38	2.7
218.54	221.28	2.74	H528151	HYP	BRXT	7	10460	0.160	0.041	0.31	1.0
221.28	224.49	3.21	H528152	HYP	BRXT	7	11740	0.170	0.036	0.27	1.1
224.49	228.60	4.11	H528153	HYP	BRXT	7	16260	0.200	0.039	0.31	0.9
228.60	231.65	3.05	566087	HYP	MBCH	7	6960	0.21	0.048	0.17	
231.65	232.87	1.22	566088	HYP	MBCH	7	4540	0.21	0.042	0.21	
232.87	235.92	3.05	566089	HYP	MBCH	7	11160	0.27	0.145	0.31	
235.92	238.35	2.43	566090	HYP	MBCH	7	9520	0.21	0.046	0.14	
238.35	239.88	1.53	566091	HYP	MBCH	7	6140	0.18	0.122	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	566092	HYP	MBCH	7	11620	0.18	0.100	0.17	
242.93	245.82	2.89	566093	HYP	MBCH	7	9120	0.20	0.143	0.21	
245.82	249.02	3.20	566094	HYP	MBCH	7	10760	0.21	0.087	0.21	
249.02	252.07	3.05	566095	HYP	MBCH	7	11100	0.31	0.054	0.31	
252.07	255.88	3.81	566096	HYP	MBCH	7	13820	0.21	0.064	0.31	
255.88	259.69	3.81	566097	HYP	MBFH	7	11380	0.18	0.107	0.17	
259.69	261.82	2.13	566098	HYP	MBFH	7	5980	0.17	0.114	0.27	
261.82	264.26	2.44	566099	HYP	MBNH	7	10700	0.09	0.187	0.07	
264.26	267.31	3.05	566100	HYP	MBCH	7	12320	0.12	0.182	0.14	
267.31	270.36	3.05	566101	HYP	MBCH	7	12520	0.09	0.142	0.17	
270.36	273.41	3.05	566102	HYP	MBCH	7	10060	0.11	0.189	0.14	
273.41	276.45	3.04	566103	HYP	MBCH	7	12760	0.17	0.169	0.24	
276.45	279.50	3.05	566104	HYP	MBCH	7	11260	0.15	0.125	0.10	
279.50	282.55	3.05	566105	HYP	MBCH	7	14420	0.21	0.077	0.62	
282.55	284.38	1.83	566106	HYP	MBCH	7	8020	0.14	0.019	0.10	
284.38	287.12	2.74	566107	HYP	MBCH	7	11700	0.14	0.033	0.17	
287.12	290.17	3.05	566108	HYP	MBCH	7	12640	0.13	0.030	0.17	
290.17	293.52	3.35	566109	HYP	MBCH	7	12780	0.11	0.047	0.14	
293.52	295.35	1.83	566110	HYP	MBCH	7	8620	0.12	0.043	0.14	
295.35	298.40	3.05	566111	HYP	MBNH	7	11900	0.14	0.049	0.21	
298.40	300.84	2.44	566112	HYP	MBNH	7	10360	0.26	0.050	0.31	
300.84	303.89	3.05	566113	HYP	MBNH	7	12860	0.15	0.052	0.14	
303.89	306.93	3.04	566114	HYP	MBNH	7	12940	0.17	0.031	0.17	
306.93	309.98	3.05	566115	HYP	MBNH	7	12080	0.22	0.043	0.27	
309.98	312.57	2.59	566116	HYP	MBCH	7	9020	0.15	0.032	0.17	
312.57	315.65	3.08	566117	HYP	MBCH	7	11140	0.14	0.033	0.21	
315.65	318.70	3.05	566118	HYP	MBCH	7	12540	0.29	0.048	0.34	
318.70	321.78	3.08	566119	HYP	MBCH	7	12980	0.19	0.052	0.24	
321.78	324.92	3.14	566120	HYP	MBCH	7	11900	0.17	0.086	0.10	
324.92	328.27	3.35	566121	HYP	MBCH	7	14260	0.15	0.056	0.21	
328.27	332.23	3.96	566122	HYP	MBCH	7	16160	0.09	0.085	0.14	
332.23	335.28	3.05	566123	HYP	MBCH	7	12760	0.09	0.070	0.10	
335.28	337.11	1.83	566124	HYP	MBCH	7	8960	0.13	0.084	0.14	
337.11	340.16	3.05	566125	HYP	MBCH	7	12820	0.13	0.094	0.10	
340.16	343.20	3.04	566126	HYP	MBCH	7	12540	0.06	0.050	<0.03	
343.20	346.25	3.05	566127	HYP	MBCH	7	12060	0.12	0.026	0.07	
346.25	349.61	3.36	566128	HYP	MBCH	7	12520	0.14	0.092	0.10	
349.61	352.04	2.43	566129	HYP	MBCH	7	10040	0.13	0.060	0.14	
352.04	355.09	3.05	566130	HYP	MBCH	7	11700	0.11	0.035	0.07	
355.09	358.44	3.35	566131	HYP	MBCH	7	13960	0.05	0.049	0.07	
358.44	361.49	3.05	566132	HYP	MBCH	7	11780	0.05	0.032	0.03	
361.49	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-132	**Total Depth**	481.28 m		
Northing	254,810.34	**Casing Depth**	7.92 m		Left In
Easting	111,102.22	**Survey Data**	**Azimuth**	**Dip**	**Instrument**
Elevation	1359.62 m	**Collar**		-90.0°	
Core Size	HQ	457.2 m	008°	-88.7°	Sperry Sun
Drilling Started	July 25, 1992/July 10, 1993				
Drilling Finished	July 31, 1992/July 14, 1993				
Logged by	P. Fischl/M. Sze				

Purpose/Target: This hole was deepened to test for ore grade mineralization encountered at depth in adjacent holes (93-152, 93-128, 93-150).

Comments: Encountered moderately mineralized milled breccia (MBCP) and weakly mineralized Patton Porphyry (PPDP).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	7.01	4.57	H528154	CAP	BRXT	7	9320	0.040	0.019	0.82	7.3
7.01	9.75	2.74	H528155	CAP	BRXT	7	6720	0.070	0.026	0.65	5.3
9.75	12.80	3.05	H528156	CAP	BRXT	7	8140	0.030	0.038	0.72	6.6
12.80	15.85	3.05	H528157	CAP	BRXT	7	10140	0.050	0.062	0.55	2.6
15.85	18.90	3.05	H528158	CAP	BRXT	7	8700	0.110	0.059	0.72	2.8
18.90	21.95	3.05	H528159	CAP	BRXT	7	10420	0.400	0.050	0.45	2.1
21.95	24.99	3.04	H528160	CAP	BRXT	7	9520	0.150	0.052	0.38	2.1
24.99	27.74	2.75	H528161	CAP	BRXT	7	10660	0.150	0.040	0.31	2.0
27.74	31.09	3.35	H528162	CAP	BRXT	7	11760	0.150	0.052	0.41	3.0
31.09	34.14	3.05	H528163	CAP	BRXT	7	11180	0.150	0.042	0.34	2.2
34.14	38.10	3.96	H528164	CAP	BRXT	7	14160	0.120	0.087	0.65	2.7
38.10	41.15	3.05	H528165	CAP	BRXT	7	11460	0.120	0.050	0.79	2.6
41.15	44.35	3.20	H528166	CAP	BRXT	7	11060	0.130	0.045	0.55	2.2
44.35	47.55	3.20	H528167	CAP	BRXT	7	11200	0.120	0.046	0.45	1.1
47.55	50.90	3.35	H528168	CAP	BRXT	7	11560	0.150	0.052	0.99	2.4
50.90	53.95	3.05	H528169	CAP	BRXT	7	11440	0.140	0.040	0.65	1.5
53.95	57.00	3.05	H528170	CAP	BRXT	7	12560	0.190	0.036	0.45	1.0
57.00	60.05	3.05	H528171	CAP	BRXT	7	12100	0.120	0.053	0.79	1.3
60.05	63.09	3.04	H528172	CAP	BRXT	7	11880	0.150	0.044	0.72	1.8
63.09	66.14	3.05	H528173	CAP	BRXT	7	11880	0.140	0.045	0.41	1.4
66.14	69.49	3.35	H528174	CAP	BRXT	7	13160	0.100	0.063	0.51	1.5
69.49	72.24	2.75	H528175	CAP	BRXT	7	9980	0.110	0.057	0.38	1.6
72.24	75.74	3.50	H528176	CAP	BRXT	7	9660	0.080	0.079	0.58	1.1
75.74	79.71	3.97	H528177	CAP	BRXT	7	10020	0.180	0.069	0.58	3.2
79.71	82.91	3.20	H528178	CAP	BRXT	7	11700	0.080	0.062	0.89	7.2
82.91	85.99	3.08	H528179	CAP	BRXT	7	12460	0.080	0.079	1.47	4.1
85.99	89.00	3.01	H528180	CAP	BRXT	7	12860	0.070	0.046	0.68	2.6
89.00	92.05	3.05	H528181	CAP	BRXT	7	10800	0.080	0.038	0.82	2.5
92.05	95.10	3.05	H528182	CAP	BRXT	7	11900	0.100	0.042	0.58	2.9
95.10	98.15	3.05	H528183	CAP	BRXT	7	12220	0.080	0.037	1.13	2.1
98.15	102.11	3.96	H528184	CAP	BRXT	7	14680	0.080	0.042	0.65	2.9
102.11	105.77	3.66	H528185	CAP	BRXT	7	11920	0.070	0.041	0.68	3.6
105.77	109.12	3.35	H528186	CAP	BRXT	7	10500	0.050	0.073	1.88	5.2

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
109.12	112.78	3.66	H528187	CAP	BRXT	7	15140	0.060	0.041	0.55	2.1
112.78	115.52	2.74	H528188	CAP	BRXT	7	11540	0.060	0.032	0.58	3.8
115.52	118.41	2.89	H528189	CAP	BRXT	7	11460	0.080	0.066	1.03	3.5
118.41	121.31	2.90	H528190	CAP	BRXT	7	10820	0.040	0.043	0.82	2.8
121.31	125.58	4.27	H528191	CAP	BRXT	7	14780	0.060	0.044	0.55	2.3
125.58	128.63	3.05	H528192	CAP	BRXT	7	11300	0.040	0.029	0.72	5.8
128.63	132.59	3.96	H528193	CAP	BRXT	7	15340	0.040	0.020	0.68	4.1
132.59	135.64	3.05	H528194	CAP	BRXT	7	11220	0.060	0.029	0.79	6.4
135.64	138.99	3.35	H528195	CAP	BRXT	7	10680	0.060	0.027	0.82	6.2
138.99	141.88	2.89	H528196	CAP	BRXT	7	11200	0.060	0.060	0.92	6.4
141.88	144.93	3.05	H528197	CAP	BRXT	7	12340	0.070	0.018	0.65	2.9
144.93	147.98	3.05	H528198	CAP	BRXT	7	12680	0.160	0.034	0.58	3.4
147.98	151.18	3.20	H528199	SOX	BRXT	7	11600	0.240	0.034	0.68	2.6
151.18	154.35	3.17	H528200	SOX	BRXT	7	11540	0.200	0.045	0.51	2.5
154.35	157.58	3.23	H528201	SUS	BRXT	7	10980	0.220	0.052	0.58	1.6
157.58	160.63	3.05	H528202	SUS	BRXT	7	12660	0.210	0.063	0.45	1.8
160.63	163.68	3.05	H528203	SUS	BRXT	7	11740	0.330	0.072	0.51	1.2
163.68	166.72	3.04	H528204	SUS	BRXT	7	12120	0.440	0.050	0.41	1.6
166.72	169.77	3.05	H528205	SUS	BRXT	7	12300	0.260	0.045	0.45	11.2
169.77	172.82	3.05	H528206	SUS	BRXT	7	11620	0.930	0.030	0.58	1.9
172.82	175.87	3.05	H528207	SUS	BRXT	7	11060	0.940	0.015	0.34	1.4
175.87	178.77	2.90	H528208	SUS	BRXT	7	9600	0.950	0.013	0.38	1.3
178.77	181.66	2.89	H528209	SUS	BRXT	7	11560	0.500	0.017	0.38	1.4
181.66	184.86	3.20	H528210	SUS	BRXT	7	11180	0.490	0.013	0.31	1.7
184.86	188.06	3.20	H528211	HYP	BRXT	7	11980	0.210	0.028	0.38	1.5
188.06	191.11	3.05	H528212	HYP	BRXT	7	11980	0.200	0.030	0.45	1.4
191.11	194.16	3.05	H528213	HYP	BRXT	7	11280	0.160	0.021	0.38	1.3
194.16	197.21	3.05	H528214	HYP	BRXT	7	10920	0.450	0.320	0.51	4.0
197.21	200.25	3.04	H528215	HYP	BRXT	7	11500	0.560	0.099	0.68	3.7
200.25	203.30	3.05	H528216	HYP	BRXT	5	12040	0.790	0.047	0.51	9.4
203.30	206.35	3.05	H528217	HYP	BRXT	5	11820	0.450	0.024	0.48	4.3
206.35	209.40	3.05	H528218	HYP	BRXT	7	12040	0.240	0.040	0.55	1.8
209.40	212.90	3.50	H528219	HYP	BRXT	7	13920	0.160	0.014	0.38	1.1
212.90	215.49	2.59	H528220	HYP	BRXT	7	10440	0.180	0.021	0.48	1.3
215.49	218.54	3.05	H528221	HYP	BRXT	7	12260	0.160	0.016	0.31	1.0
218.54	221.59	3.05	H528222	HYP	BRXT	7	12380	0.240	0.023	0.55	2.2
221.59	225.55	3.96	H528223	HYP	BRXT	2	16700	0.130	0.026	0.24	1.3
225.55	228.75	3.20	H528224	HYP	BRXT	2	13020	0.140	0.023	0.31	1.0
228.75	231.59	2.84	H528225	HYP	BRXT	7	13440	0.170	0.073	0.31	1.1
231.59	235.00	3.41	H528226	HYP	BRXT	7	14620	0.240	0.053	0.48	1.4
235.00	238.20	3.20	H528227	HYP	BRXT	2	12440	0.240	0.087	0.51	1.6
238.20	241.40	3.20	H528228	HYP	BRXT	7	11000	0.260	0.059	0.31	0.8
241.40	244.45	3.05	H528229	HYP	BRXT	2	12360	0.200	0.072	0.55	1.3
244.45	247.50	3.05	H528230	HYP	BRXT	3	12260	0.270	0.078	0.68	1.7

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-132

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
247.50	250.55	3.05	H528231	HYP	BRXT	2	12280	0.190	0.056	0.48	2.0
250.55	253.59	3.04	H528232	HYP	BRXT	2	12460	0.140	0.029	0.41	1.1
253.59	256.64	3.05	H528233	HYP	BRXT	2	11700	0.210	0.030	0.31	1.8
256.64	259.69	3.05	H528234	HYP	BRXT	2	12520	0.170	0.031	0.48	1.4
259.69	262.74	3.05	H528235	HYP	BRXT	7	12940	0.210	0.055	0.51	1.7
262.74	265.79	3.05	H528236	HYP	BRXT	7	11640	0.330	0.088	0.45	1.2
265.79	268.83	3.04	H528237	HYP	BRXT	7	11840	0.210	0.037	0.45	0.8
268.83	271.88	3.05	H528238	HYP	BRXT	7	12260	0.190	0.038	0.45	0.6
271.88	274.93	3.05	H528239	HYP	BRXT	7	12640	0.140	0.026	0.27	1.2
274.93	277.98	3.05	H528240	HYP	BRXT	1	12700	0.140	0.042	0.21	0.7
277.98	281.03	3.05	H528241	HYP	BRXT	1	12640	0.190	0.061	0.48	0.8
281.03	284.07	3.04	H528242	HYP	BRXT	1	13540	0.180	0.060	0.34	0.9
284.07	287.12	3.05	H528243	HYP	BRXT	1	12220	0.160	0.034	0.31	1.2
287.12	290.17	3.05	H528244	HYP	BRXT	1	12260	0.250	0.027	0.58	2.0
290.17	292.91	2.74	H528245	HYP	PPXX	7	10920	0.200	0.022	0.45	1.0
292.91	295.65	2.74	H528246	HYP	PPXX	7	11720	0.130	0.021	0.27	0.9
295.65	298.86	3.21	H528247	HYP	PPXX	7	11820	0.140	0.041	0.38	0.8
298.86	302.21	3.35	H528248	HYP	PPXX	7	12460	0.140	0.020	0.27	0.9
302.21	304.80	2.59	H528249	HYP	PPXX	7	12300	0.130	0.021	0.24	0.9
304.80	306.93	2.13	569325	HYP	MBCP	7/5	7080	0.18	0.016	0.21	
306.93	309.98	3.05	569326	HYP	MBCP	7/5	12060	0.22	0.019	0.31	
309.98	313.03	3.05	569327	HYP	MBCP	7/5	12120	0.22	0.028	0.45	
313.03	316.08	3.05	569328	HYP	MBCP	7/5	10580	0.19	0.074	0.24	
316.08	318.52	2.44	569329	HYP	MBCP	7/5	10340	0.30	0.034	0.48	
318.52	322.17	3.65	569330	HYP	MBCP	7/5	12880	0.21	0.027	0.27	
322.17	325.22	3.05	569331	HYP	MBCP	7/5	11460	0.33	0.040	0.69	
325.22	328.27	3.05	569332	HYP	MBCP	7/5	12640	0.28	0.047	0.51	
328.27	331.32	3.05	569333	HYP	MBCP	7/5	12660	0.55	0.073	1.10	
331.32	334.36	3.04	569334	HYP	MBCP	7/5	11640	0.47	0.103	0.69	
334.36	337.41	3.05	569335	HYP	MBCP	7/5	13020	0.25	0.076	0.41	
337.41	340.46	3.05	569336	HYP	MBCP	7/5	12400	0.57	0.070	1.44	
340.46	343.51	3.05	569337	HYP	MBCP	7/5	11420	0.61	0.090	1.37	
343.51	346.56	3.05	569338	HYP	MBCP	7/5	12740	0.21	0.073	0.51	
346.56	349.61	3.05	569339	HYP	MBCP	7/5	12820	0.19	0.076	0.41	
349.61	352.65	3.04	569340	HYP	MBCP	7/5	11800	0.23	0.062	0.41	
352.65	355.70	3.05	569341	HYP	MBCP	7/5	19080	0.13	0.060	0.14	
355.70	358.75	3.05	569342	HYP	MBCP	7/5	4010	0.09	0.132	0.14	
358.75	361.80	3.05	569343	HYP	MBCP	7/5	10340	0.09	0.029	0.14	
361.80	364.85	3.05	569344	HYP	MBCP	7/5	12440	0.12	0.046	0.14	
364.85	367.89	3.04	569345	HYP	MBCP	7/5	12780	0.13	0.041	0.21	
367.89	370.94	3.05	569346	HYP	MBCP	7/5	11820	0.10	0.040	0.14	
370.94	373.99	3.05	569347	HYP	MBCP	7/5	10360	0.13	0.055	0.21	
373.99	377.04	3.05	569348	HYP	MBCP	7/5	11840	0.21	0.045	0.17	
377.04	380.09	3.05	569349	HYP	MBCP	7/5	11120	0.10	0.032	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-132

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
380.09	383.13	3.04	569350	HYP	MBCP	7/5	8920	0.10	0.057	0.10	
383.13	386.49	3.36	569351	HYP	MBCP	7/5	12150	0.11	0.053	0.07	
386.49	389.23	2.74	569352	HYP	MBCP	7/5	8440	0.13	0.021	0.17	
389.23	392.28	3.05	569353	HYP	PPDP	7/3	12080	0.13	0.017	0.14	
392.28	395.33	3.05	569354	HYP	PPDP	7/3	13240	0.09	0.029	0.10	
395.33	398.37	3.04	569355	HYP	PPDP	7/3	12660	0.09	0.042	0.07	
398.37	401.42	3.05	569356	HYP	PPDP	7/3	1200	0.13	0.034	0.14	
401.42	404.16	2.74	569357	HYP	PPDP	7/3	9060	0.12	0.026	0.14	
404.16	407.21	3.05	569358	HYP	PPDP	7/3	14740	0.10	0.031	0.07	
407.21	410.26	3.05	569359	HYP	PPDP	7/3	13200	0.08	0.053	0.07	
410.26	413.46	3.20	569360	HYP	PPDP	7/3	14070	0.10	0.020	0.10	
413.46	416.51	3.05	569361	HYP	PPDP	7/3	13480	0.12	0.020	0.14	
416.51	419.71	3.20	569362	HYP	PPDP	7/3	12900	0.08	0.023	0.07	
419.71	422.76	3.05	569363	HYP	PPDP	7/3	13220	0.11	0.019	0.14	
422.76	425.81	3.05	569364	HYP	PPDP	7/3	13000	0.17	0.013	0.07	
425.81	428.85	3.04	569365	HYP	PPDP	7/3	13440	0.12	0.044	0.14	
428.85	431.90	3.05	569366	HYP	PPDP	7/3	13100	0.12	0.021	0.14	
431.90	434.95	3.05	569367	HYP	PPDP	7/3	12800	0.13	0.025	0.14	
434.95	438.00	3.05	569368	HYP	PPDP	7/3	12900	0.13	0.058	0.17	
438.00	441.05	3.05	569369	HYP	PPDP	7/3	13180	0.17	0.027	0.17	
441.05	444.09	3.04	569370	HYP	PPDP	7/3	12900	0.12	0.018	0.21	
444.09	447.14	3.05	569371	HYP	PPDP	7/3	12940	0.18	0.029	0.14	
447.14	450.19	3.05	569372	HYP	PPDP	7/3	12540	0.23	0.030	0.24	
450.19	453.24	3.05	569373	HYP	PPDP	7/3	13760	0.08	0.014	0.10	
453.24	456.29	3.05	569374	HYP	PPDP	7/3	13500	0.12	0.025	0.07	
456.29	459.33	3.04	569375	HYP	PPDP	7/3	13320	0.16	0.027	0.21	
459.33	462.38	3.05	569376	HYP	PPDP	7/3	13740	0.16	0.019	0.14	
462.38	465.43	3.05	569377	HYP	PPDP	7/3	12920	0.08	0.022	0.10	
465.43	468.48	3.05	569378	HYP	PPDP	7/3	13680	0.05	0.038	0.03	
468.48	471.53	3.05	569379	HYP	PPDP	7/3	13760	0.09	0.027	0.10	
471.53	474.57	3.04	569380	HYP	PPDP	7/3	12420	0.24	0.028	0.21	
474.57	477.62	3.05	569381	HYP	PPDP	7/3	13180	0.12	0.023	0.14	
477.62	481.28	3.66	569382	HYP	PPDP	7/3	15480	0.09	0.030	0.17	
481.28	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-133	**Total Depth**	475.49 m		
Northing	254,724.29	**Casing Depth**	3.05 m		Left In
Easting	111,015.22	**Survey Data**	**Azimuth**	**Dip**	**Instrument**
Elevation	1353.26 m	**Collar**			
Core Size	HQ	304.80 m	079°	-89.2°	Sperry Sun
Drilling Started	July 31, 1992/July 20, 1993	437.69 m	035°	-89.6°	Sperry Sun
Drilling Finished	August 4, 1992/July 25, 1993				
Logged by	C. DeLong				

Purpose/Target: Extension of 92-133.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	6.71	4.27	H528250	CAP	BRXT	7	19250	0.040	0.020	0.51	1.8
6.71	9.75	3.04	H528251	CAP	BRXT	7	19040	0.050	0.020	0.58	2.9
9.75	12.80	3.05	H528252	CAP	BRXT	7	12260	0.060	0.026	0.65	2.0
12.80	15.85	3.05	H528253	CAP	BRXT	7	12220	0.020	0.015	0.65	4.1
15.85	19.50	3.65	H528254	CAP	BRXT	7	15180	0.070	0.018	0.62	1.5
19.50	22.71	3.21	H528255	CAP	BRXT	3	13660	0.110	0.023	0.79	2.5
22.71	25.91	3.20	H528256	CAP	BRXT	3	11660	0.100	0.020	0.55	3.4
25.91	28.96	3.05	H528257	CAP	BRXT	7	13020	0.080	0.042	0.58	3.9
28.96	32.00	3.04	H528258	CAP	BRXT	7	11960	0.090	0.022	1.06	7.0
32.00	34.75	2.75	H528259	CAP	BRXT	5	10200	0.080	0.019	0.82	6.9
34.75	38.71	3.96	H528260	CAP	BRXT	5	15640	0.100	0.023	0.79	3.6
38.71	41.45	2.74	H528261	CAP	BRXT	7	9800	0.290	0.027	1.23	4.3
41.45	44.50	3.05	H528262	CAP	BRXT	7	12740	0.570	0.021	0.86	2.4
44.50	47.55	3.05	H528263	SOX	BRXT	7	12580	0.420	0.016	0.89	2.7
47.55	50.60	3.05	H528264	CAP	BRXT	7	12620	0.310	0.020	1.03	2.7
50.60	53.04	2.44	H528265	CAP	BRXT	7	9680	0.170	0.026	0.92	2.3
53.04	57.00	3.96	H528266	CAP	BRXT	7	15900	0.140	0.016	0.65	2.5
57.00	60.05	3.05	H528267	CAP	BRXT	7	12240	0.120	0.010	1.61	1.3
60.05	63.09	3.04	H528268	CAP	BRXT	7	12700	0.150	0.022	1.10	3.8
63.09	66.14	3.05	H528269	SOX	BRXT	7	11380	0.820	0.029	0.99	3.9
66.14	69.19	3.05	H528270	SOX	BRXT	7	13180	0.290	0.026	0.92	2.5
69.19	72.54	3.35	H528271	SOX	BRXT	7	14340	0.190	0.030	1.27	44.9
72.54	75.29	2.75	H528272	CAP	BRXT	7	11860	0.250	0.026	0.65	3.6
75.29	78.33	3.04	H528273	CAP	BRXT	7	12220	0.200	0.017	1.16	5.3
78.33	81.38	3.05	H528274	CAP	BRXT	5	13100	0.270	0.028	1.58	23.8
81.38	84.43	3.05	H528275	SOX	BRXT	5	12280	0.450	0.025	0.75	3.1
84.43	87.47	3.04	H528276	SOX	BRXT	7	13620	0.240	0.023	0.86	3.2
87.47	90.53	3.06	H528277	SOX	BRXT	7	10460	0.120	0.032	1.10	4.7
90.53	93.57	3.04	H528278	SOX	BRXT	7	12680	0.250	0.019	0.82	3.2
93.57	96.62	3.05	H528279	SUS	BRXT	7	13720	0.320	0.019	0.55	3.9
96.62	99.67	3.05	H528280	SUS	BRXT	7	11340	0.470	0.028	1.58	5.9
99.67	102.72	3.05	H528281	HYP	BRXT	7	12940	0.520	0.046	1.58	6.9
102.72	105.77	3.05	H528282	HYP	BRXT	7	14060	0.360	0.047	0.79	18.1

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	H528283	HYP	BRXT	7	13090	0.210	0.019	0.62	6.2
108.81	111.86	3.05	H528284	HYP	BRXT	7	12500	0.670	0.023	0.72	44.0
111.86	114.91	3.05	H528285	HYP	BRXT	7	13260	0.310	0.041	0.72	5.7
114.91	117.96	3.05	H528286	HYP	BRXT	7	13000	0.310	0.017	0.89	5.0
117.96	121.01	3.05	H528287	HYP	BRXT	7	11540	0.350	0.029	0.92	3.8
121.01	124.05	3.04	H528288	HYP	BRXT	7	15560	0.330	0.018	0.82	3.8
124.05	128.32	4.27	H528289	HYP	BRXT	7	17240	0.330	0.028	0.65	3.9
128.32	131.37	3.05	H528290	HYP	BRXT	7	14360	0.300	0.032	0.58	1.9
131.37	134.26	2.89	H528291	HYP	BRXT	7	10840	0.360	0.059	0.62	1.6
134.26	137.77	3.51	H528292	HYP	BRXT	7	14040	0.250	0.031	0.65	2.4
137.77	140.82	3.05	H528293	HYP	BRXT	7	12280	0.260	0.037	0.31	1.8
140.82	143.87	3.05	H528294	HYP	BRXT	7	12120	0.420	0.043	0.79	4.1
143.87	146.91	3.04	H528295	HYP	BRXT	7	12240	0.640	0.032	0.75	3.3
146.91	149.96	3.05	H528296	HYP	BRXT	7	12420	0.510	0.018	0.55	3.0
149.96	153.01	3.05	H528297	HYP	BRXT	5	12600	0.900	0.054	0.99	7.8
153.01	156.06	3.05	H528298	HYP	BRXT	5	11540	0.440	0.023	0.51	10.2
156.06	159.11	3.05	H528299	HYP	BRXT	7	12160	0.480	0.022	0.62	5.0
159.11	162.15	3.04	H528300	HYP	BRXT	7	11480	0.410	0.027	0.62	3.0
162.15	165.20	3.05	H528301	HYP	PPXX	5	11280	0.360	0.022	0.62	2.7
165.20	168.25	3.05	H528302	HYP	PPXX	1	12600	0.100	0.001	0.10	0.9
168.25	171.30	3.05	H528303	HYP	PPXX	1	11800	0.100	0.006	0.17	1.7
171.30	174.35	3.05	H528304	HYP	PPXX	1	12360	0.050	0.002	0.07	0.6
174.35	177.39	3.04	H528305	HYP	PPXX	1	12120	0.080	0.002	0.14	0.8
177.39	180.44	3.05	H528306	HYP	PPXX	1	14020	0.080	0.002	0.45	1.0
180.44	183.49	3.05	H528307	HYP	PPXX	1	12980	0.100	0.003	0.14	3.1
183.49	186.54	3.05	H528308	HYP	PPXX	1	13240	0.120	0.004	0.31	2.9
186.54	189.59	3.05	H528309	HYP	PPXX	1	10540	0.050	0.004	0.14	1.0
189.59	192.63	3.04	H528310	HYP	PPXX	1	13520	0.040	0.006	0.10	0.6
192.63	195.68	3.05	H528311	HYP	PPXX	1	13860	0.020	0.002	0.03	Tr
195.68	198.73	3.05	H528312	HYP	PPXX	1	14100	0.060	0.008	0.14	0.7
198.73	201.78	3.05	H528313	HYP	PPXX	1	13000	0.030	0.003	0.07	0.7
201.78	204.83	3.05	H528314	HYP	PPXX	1	13380	0.020	0.002	0.03	0.4
204.83	207.87	3.04	H528315	HYP	PPXX	1	13300	0.040	0.004	0.10	0.6
207.87	210.92	3.05	H528316	HYP	PPXX	1	12400	0.100	0.006	0.17	1.4
210.92	213.36	2.44	H528317	HYP	PPXX	1	11600	0.110	0.008	0.17	1.8
213.36	214.88	1.52	569430	HYP	PPDP	1	4220	0.07	0.004	0.10	
214.88	217.93	3.05	569431	HYP	PPDP	1	13080	0.17	0.032	0.24	
217.93	220.68	2.75	569432	HYP	PPDP	1	7160	0.12	0.028	0.07	
220.68	223.72	3.04	569433	HYP	PPDP	1	1360	0.13	0.023	0.14	
223.72	226.77	3.05	569434	HYP	WRGD	7	13780	0.18	0.015	0.24	
226.77	230.12	3.35	569435	HYP	WRGD	7/5	13140	0.17	0.016	0.17	
230.12	232.56	2.44	569436	HYP	WRGD	7/5	8600	0.35	0.021	0.21	
232.56	236.83	4.27	569437	HYP	MBFP	7/5	18880	0.18	0.019	0.17	
236.83	239.88	3.05	569438	HYP	MBFP	5	13580	0.11	0.023	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.92	3.04	569439	HYP	MBFP	5	13680	0.16	0.018	0.21	
242.92	245.97	3.05	569440	HYP	MBFP	5	12500	0.18	0.010	0.14	
245.97	249.02	3.05	569441	HYP	MBFP	5	13320	0.16	0.013	0.10	
249.02	252.07	3.05	569442	HYP	MBFP	3	12500	0.20	0.020	0.10	
252.07	255.12	3.05	569443	HYP	MBFH	5	13420	0.10	0.013	0.00	
255.12	258.17	3.05	569444	HYP	MBFH	5	13640	0.12	0.024	0.03	
258.17	261.21	3.04	569445	HYP	MBFH	5	12620	0.19	0.016	0.10	
261.21	264.26	3.05	569446	HYP	MBFH	5	13460	0.18	0.020	0.14	
264.26	267.31	3.05	569447	HYP	MBFH	5	13580	0.16	0.029	0.10	
267.31	270.36	3.05	569448	HYP	MBFH	5	12800	0.21	0.024	0.14	
270.36	273.41	3.05	569449	HYP	MBFH	3	12480	0.12	0.021	0.07	
273.41	276.45	3.04	569450	HYP	MBFH	3	13340	0.13	0.011	0.10	
276.45	279.50	3.05	569451	HYP	MBFB	6	11660	0.25	0.019	0.38	
279.50	282.55	3.05	569452	HYP	MBFB	6	11020	0.23	0.046	0.27	
282.55	285.60	3.05	569453	HYP	MBFB	6	10920	0.44	0.031	0.38	
285.60	288.64	3.04	569454	HYP	MBFB	3	10980	0.12	0.029	0.14	
288.64	291.69	3.05	569455	HYP	MBFB	7	11320	0.17	0.029	0.24	
291.69	293.83	2.14	569456	HYP	PPDP	5	7600	0.20	0.033	0.27	
293.83	295.66	1.83	569457	HYP	PPDP	5	7080	0.07	0.013	0.07	
295.66	298.40	2.74	569458	HYP	PPDP	5	10840	0.11	0.019	0.14	
298.40	301.45	3.05	569459	HYP	PPDP	5	12660	0.07	0.019	0.00	
301.45	304.50	3.05	569460	HYP	MBFP	1	12900	0.12	0.257	0.07	
304.50	306.93	2.43	569461	HYP	MBFP	1	8620	0.08	0.018	0.03	
306.93	309.98	3.05	569462	HYP	MBFP	1	11100	0.08	0.017	0.03	
309.98	313.03	3.05	569463	HYP	MBFP	1	12700	0.07	0.016	0.10	
313.03	316.08	3.05	569464	HYP	MBCH	1	11780	0.07	0.019	0.07	
316.08	319.13	3.05	569465	HYP	MBCH	7	11760	0.06	0.020	0.07	
319.13	322.17	3.04	569466	HYP	MBCH	7/5	11780	0.05	0.013	<0.03	
322.17	325.22	3.05	569467	HYP	MBCH	7/5	12520	0.04	0.011	0.14	
325.22	328.27	3.05	569468	HYP	MBCH	7/5	10880	0.14	0.017	0.24	
328.27	331.32	3.05	569469	HYP	MBCH	7/5	11880	0.15	0.027	0.27	
331.32	334.37	3.05	569470	HYP	MBCH	7/5	12300	0.08	0.053	0.27	
334.37	337.41	3.04	569471	HYP	MBCH	7/5	12920	0.06	0.057	0.07	
337.41	338.94	1.53	569472	HYP	PPDP	6	5060	0.23	0.055	0.17	
338.94	341.99	3.05	569473	HYP	PPDP	6	12860	0.15	0.091	0.03	
341.99	345.03	3.04	569474	HYP	PPDP	6	12160	0.08	0.076	0.07	
345.03	348.08	3.05	569475	HYP	PPDP	6	12540	0.04	0.016	<0.03	
348.08	349.91	1.83	569476	HYP	MBCH	7	6360	0.10	0.087	0.10	
349.91	352.65	2.74	569477	HYP	MBCH	7	10580	0.14	0.039	0.17	
352.65	355.70	3.05	569478	HYP	MBCH	3	10600	0.13	0.135	0.10	
355.70	358.44	2.74	569479	HYP	MBCH	6	11120	0.18	0.063	0.14	
358.44	361.49	3.05	569480	HYP	MBCH	5/7	12340	0.10	0.057	0.07	
361.49	364.69	3.20	569481	HYP	MBCH	5	12800	0.13	0.059	0.07	
364.69	367.74	3.05	569482	HYP	MBCH	5/7	12440	0.44	0.072	0.38	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.74	370.79	3.05	569483	HYP	MBCH	5/7	13140	0.10	0.062	0.10	
370.79	373.99	3.20	569484	HYP	MBCH	5/7	12120	0.15	0.357	0.21	
373.99	377.04	3.05	569485	HYP	MBNH	7/5	11620	0.16	0.021	0.17	
377.04	380.09	3.05	569486	HYP	MBNH	7/5	12880	0.13	0.045	0.10	
380.09	383.13	3.04	569487	HYP	MBNH	7/5	13780	0.13	0.037	0.14	
383.13	386.18	3.05	569488	HYP	MBNH	5	13160	0.05	0.017	0.03	
386.18	388.62	2.44	569489	HYP	MBNH	1	10600	0.13	0.031	0.14	
388.62	391.82	3.20	569490	HYP	MBNH	7	12960	0.10	0.023	0.10	
391.82	395.02	3.20	569491	HYP	MBNH	7	13180	0.14	0.032	0.17	
395.02	398.07	3.05	569492	HYP	MBNH	5	12980	0.29	0.024	0.17	
398.07	401.12	3.05	569493	HYP	MBNH	7	13500	0.22	0.015	0.27	
401.12	404.47	3.35	569494	HYP	MBNH	7	12680	0.16	0.025	0.21	
404.47	407.52	3.05	569495	HYP	MBNH	6/5	12580	0.10	0.047	0.10	
407.52	410.57	3.05	569496	HYP	MBNH	5/3	12900	0.25	0.038	0.34	
410.57	413.61	3.04	569497	HYP	MBNH	5/3	11840	0.07	0.020	<0.03	
413.61	415.75	2.14	569498	HYP	MBFH	6/3	10480	0.17	0.040	0.14	
415.75	419.10	3.35	569499	HYP	MBFH	6/3	10400	0.22	0.047	0.24	
419.10	422.15	3.05	569500	HYP	MBFH	6/3	12800	0.14	0.049	0.10	
422.15	425.20	3.05	569501	HYP	MBFH	6/3	12120	0.11	0.025	0.24	
425.20	428.24	3.04	569502	HYP	MBFH	6/3	13000	0.15	0.057	0.51	
428.24	431.29	3.05	569503	HYP	MBFH	6/3	12400	0.21	0.058	0.27	
431.29	434.34	3.05	569504	HYP	MBFH	6/7	13300	0.22	0.019	0.24	
434.34	437.39	3.05	569505	HYP	MBFH	6/7	13650	0.26	0.033	0.17	
437.39	440.44	3.05	569506	HYP	MBFH	6/7	13150	0.30	0.037	0.31	
440.44	443.48	3.04	569507	HYP	MBFH	6/7	13400	0.29	0.027	0.21	
443.48	446.68	3.20	569508	HYP	MBFH	6/7	13450	0.15	0.077	0.17	
446.68	449.88	3.20	569509	HYP	MBFH	6/7	13260	0.13	0.136	0.14	
449.88	452.93	3.05	569510	HYP	MBFH	6/7	12560	0.10	0.144	0.24	
452.93	456.29	3.36	569511	HYP	MBFH	6/7	11160	0.06	0.092	0.07	
456.29	459.03	2.74	569512	HYP	MBFH	6/7	9500	0.19	0.175	0.34	
459.03	462.08	3.05	569513	HYP	MBFH	6/7	11840	0.07	0.038	0.07	
462.08	463.30	1.22	569514	HYP	MBFH	6/7	4780	0.08	0.036	0.10	
463.30	466.34	3.04	569515	HYP	MBFH	6/7	11640	0.20	0.063	0.27	
466.34	469.39	3.05	569516	HYP	MBFH	6/7	11740	0.15	0.095	0.24	
469.39	472.44	3.05	569517	HYP	MBFH	6/7	12020	0.10	0.035	0.14	
472.44	475.49	3.05	569518	HYP	MBFH	6/7	11560	0.05	0.028	0.10	
475.49	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-134	Total Depth	569.06 m		
Northing	254,637.62	Casing Depth	6.1 m		Left Out
Easting	110,930.64	Survey Data	Azimuth	Dip	Instrument
Elevation	1343.33 m	Collar			
Core Size	HQ	303.9 m	045°	-89.00°	Sperry Sun
Drilling Started	August 4, 1992/August 6, 1993	459.3 m	080°	-89.25°	Sperry Sun
Drilling Finished	August 7, 1992/August 14, 1993				
Logged by	C. DeLong				

Purpose/Target: Extend 1992 hole to test for deeper mineralization.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.35	3.35		OVB							
3.35	6.25	2.90	H528318	CAP	BRXT	7	9400	0.030	0.007	0.21	1.4
6.25	9.75	3.50	H528319	CAP	BRXT	7	12280	0.080	0.010	0.45	1.9
9.75	12.50	2.75	H528320	CAP	BRXT	7	10540	0.040	0.010	0.68	2.6
12.50	15.24	2.74	H528321	CAP	BRXT	7	10760	0.050	0.011	0.34	1.8
15.24	18.44	3.20	H528322	CAP	BRXT	7	12660	0.040	0.009	0.34	2.1
18.44	21.64	3.20	H528323	CAP	BRXT	7	11240	0.030	0.010	0.41	2.3
21.64	24.69	3.05	H528324	CAP	BRXT	7	10760	0.010	0.015	0.41	2.8
24.69	27.75	3.06	H528325	CAP	BRXT	3	10700	0.010	0.010	0.41	2.4
27.75	30.78	3.03	H528326	CAP	BRXT	7	12260	0.020	0.006	0.45	2.5
30.78	34.14	3.36	H528327	CAP	BRXT	7	12240	0.010	0.007	0.34	2.3
34.14	37.19	3.05	H528328	CAP	BRXT	7	11080	0.020	0.007	0.51	2.3
37.19	40.23	3.04	H528329	CAP	BRXT	7	9040	0.030	0.014	0.58	1.9
40.23	43.28	3.05	H528330	CAP	BRXT	7	12860	0.020	0.009	0.41	1.8
43.28	46.33	3.05	H528331	CAP	BRXT	7	12380	0.020	0.012	0.41	1.9
46.33	49.23	2.90	H528332	CAP	BRXT	7	11560	0.020	0.007	0.45	2.0
49.23	52.43	3.20	H528333	CAP	BRXT	7	12720	0.020	0.007	0.75	2.3
52.43	55.47	3.04	H528334	CAP	BRXT	7	12540	0.030	0.008	0.34	1.8
55.47	58.52	3.05	H528335	CAP	BRXT	7	13260	0.020	0.009	0.31	1.4
58.52	61.57	3.05	H528336	CAP	BRXT	7	12440	0.050	0.006	0.38	2.7
61.57	64.62	3.05	H528337	CAP	BRXT	7	11760	0.060	0.009	0.41	2.1
64.62	67.67	3.05	H528338	CAP	BRXT	7	12460	0.040	0.010	0.55	2.1
67.67	70.71	3.04	H528339	CAP	BRXT	7	11400	0.020	0.008	0.45	1.9
70.71	73.76	3.05	H528340	CAP	BRXT	7	13120	0.050	0.010	0.45	1.9
73.76	76.81	3.05	H528341	SUS	BRXT	7	11880	0.200	0.050	0.55	2.2
76.81	79.86	3.05	H528342	SOX	BRXT	7	12360	0.470	0.097	0.48	3.2
79.86	82.91	3.05	H528343	SOX	BRXT	7	12000	0.350	0.030	0.75	8.8
82.91	85.95	3.04	H528344	HYP	BRXT	5	11900	0.350	0.035	1.37	23.8
85.95	89.00	3.05	H528345	HYP	BRXT	5	14000	0.340	0.068	1.20	10.1
89.00	92.05	3.05	H528346	HYP	BRXT	7	11540	0.280	0.089	0.72	2.7
92.05	95.10	3.05	H528347	HYP	BRXT	7	12940	0.230	0.085	0.82	2.1
95.10	98.15	3.05	H528348	HYP	BRXT	7	13260	0.210	0.003	0.31	0.5
98.15	101.19	3.04	H528349	HYP	BRXT	7	12240	0.370	0.005	1.06	1.3
101.19	104.24	3.05	H528350	HYP	BRXT	5	13400	0.360	0.020	0.79	3.1

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
104.24	107.29	3.05	H528351	HYP	BRXT	5	13720	0.150	0.010	0.48	1.2
107.29	110.34	3.05	H528352	HYP	BRXT	5	12640	0.130	0.021	1.13	2.5
110.34	113.39	3.05	H528353	HYP	BRXT	5	12820	0.150	0.009	0.45	1.5
113.39	116.43	3.04	H528354	HYP	BRXT	3	11500	0.210	0.009	0.31	1.4
116.43	119.48	3.05	H528355	HYP	BRXT	5	12380	0.220	0.008	0.31	1.8
119.48	122.53	3.05	H528356	HYP	BRXT	5	13200	0.200	0.009	0.45	2.1
122.53	125.58	3.05	H528357	HYP	BRXT	2	13340	0.210	0.009	0.31	2.3
125.58	128.63	3.05	H528358	HYP	BRXT	1	12680	0.250	0.008	0.27	2.8
128.63	131.67	3.04	H528359	HYP	BRXT	2	13120	0.120	0.011	0.24	1.1
131.67	134.72	3.05	H528360	HYP	BRXT	5	13340	0.120	0.007	0.10	1.0
134.72	137.77	3.05	H528361	HYP	BRXT	5	13280	0.330	0.010	0.24	1.5
137.77	140.82	3.05	H528362	HYP	BRXT	5	13240	0.280	0.006	0.27	1.2
140.82	143.87	3.05	H528363	HYP	BRXT	5	12620	0.170	0.015	0.17	1.1
143.87	146.91	3.04	H528364	HYP	BRXT	5	12800	0.160	0.005	0.14	0.8
146.91	150.87	3.96	H528365	HYP	BRXT	5	15500	0.130	0.005	0.10	0.9
150.87	153.92	3.05	H528366	SOX	BRXT	5	13000	0.160	0.006	0.17	1.0
153.92	156.97	3.05	H528367	SOX	BRXT	5	12480	0.150	0.007	0.21	1.5
156.97	159.87	2.90	H528368	SOX	BRXT	1	14200	0.120	0.006	0.17	1.1
159.87	162.92	3.05	H528369	HYP	KGRD	5	13540	0.070	0.003	0.21	1.1
162.92	165.81	2.89	H528370	HYP	QZMF	5	11100	0.120	0.009	0.24	1.3
165.81	169.77	3.96	H528371	HYP	QZMF	5	17500	0.130	0.004	0.27	1.1
169.77	172.82	3.05	H528372	HYP	QZMF	5	12460	0.150	0.005	0.21	1.1
172.82	175.87	3.05	H528373	HYP	QZMI	5	12080	0.230	0.008	0.21	3.9
175.87	178.92	3.05	H528374	HYP	QZMF	5	12580	0.200	0.008	0.31	1.4
178.92	181.97	3.05	H528375	HYP	QZMI	5	13160	0.140	0.004	0.31	1.1
181.97	185.01	3.04	H528376	HYP	QZMI	5	13340	0.120	0.008	0.14	0.7
185.01	188.06	3.05	H528377	HYP	PPXX	5	12960	0.150	0.002	0.21	0.9
188.06	191.11	3.05	H528378	HYP	QZMI	5	12600	0.110	0.003	0.07	0.8
191.11	194.16	3.05	H528379	HYP	QZMI	5	12300	0.120	0.003	0.10	1.1
194.16	197.21	3.05	H528380	HYP	QZMI	5	12740	0.110	0.003	0.10	1.2
197.21	200.25	3.04	H528381	HYP	QZMI	5	13900	0.130	0.007	0.17	1.2
200.25	203.30	3.05	H528382	HYP	QZMI	5	12600	0.130	0.010	0.10	1.4
203.30	206.35	3.05	H528383	HYP	QZMI	5	12580	0.100	0.013	0.10	1.2
206.35	209.40	3.05	H528384	HYP	QZMI	5	11860	0.100	0.006	0.10	1.1
209.40	213.36	3.96	H528385	HYP	QZMF	5	15920	0.110	0.008	0.14	1.2
213.36	217.93	4.57	569733	HYP	WRGD	7	16480	0.06	0.004	0.10	
217.93	220.98	3.05	569734	HYP	WRGD	5	12960	0.07	0.009	0.07	
220.98	224.03	3.05	569735	HYP	WRGD	7	11620	0.11	0.012	0.10	
224.03	227.68	3.65	569736	HYP	WRGD	7/5	13800	0.11	0.008	0.10	
227.68	231.34	3.66	569737	HYP	WRGD	7/5	13340	0.10	0.009	0.14	
231.34	233.78	2.44	569738	HYP	WRGD	7/5	12460	0.13	0.010	0.14	
233.78	236.83	3.05	569739	HYP	WRGD	7/5	12860	0.12	0.012	0.17	
236.83	239.88	3.05	569740	HYP	WRGD	7/5	11580	0.11	0.008	0.07	
239.88	242.92	3.04	569741	HYP	WRGD	7/5	12480	0.13	0.009	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
242.92	245.97	3.05	569742	HYP	WRGD	7/5	13140	0.15	0.007	0.17	
245.97	249.02	3.05	569743	HYP	WRGD	7/5	12420	0.14	0.036	0.24	
249.02	252.07	3.05	569744	HYP	WRGD	7/5	12260	0.20	0.018	0.17	
252.07	255.12	3.05	569745	HYP	WRGD	7/5	12940	0.15	0.012	0.21	
255.12	258.16	3.04	569746	HYP	WRGD	7/5	11620	0.21	0.018	0.27	
258.16	261.22	3.06	569747	HYP	WRGD	7/5	12120	0.26	0.014	0.31	
261.22	263.96	2.74	569748	HYP	WRGD	7/5	10860	0.17	0.015	0.21	
263.96	267.00	3.04	569749	HYP	WRGD	7/5	8820	0.24	0.031	0.24	
267.00	270.36	3.36	569750	HYP	WRGD	7/5	14080	0.14	0.010	0.14	
270.36	273.41	3.05	569751	HYP	PPDP	7/5	11060	0.19	0.018	0.14	
273.41	276.45	3.04	569752	HYP	WRGD	7/5	11800	0.17	0.014	0.21	
276.45	279.50	3.05	569753	HYP	WRGD	7/5	12020	0.15	0.010	0.17	
279.50	282.55	3.05	569754	HYP	WRGD	7/5	11760	0.14	0.020	0.17	
282.55	285.60	3.05	569755	HYP	WRGD	7/5	11960	0.11	0.010	0.17	
285.60	288.65	3.05	569756	HYP	WRGD	7/5	12640	0.13	0.021	0.17	
288.65	291.08	2.43	569757	HYP	WRGD	7/5	8060	0.14	0.009	0.14	
291.08	294.13	3.05	569758	HYP	WRGD	5/7	12280	0.13	0.018	0.10	
294.13	297.18	3.05	569759	HYP	WRGD	5/7	13680	0.13	0.012	0.24	
297.18	300.23	3.05	569760	HYP	WRGD	7/5	13960	0.28	0.018	0.24	
300.23	303.28	3.05	569761	HYP	WRGD	7/5	12320	0.09	0.015	0.10	
303.28	306.93	3.65	569762	HYP	WRGD	7/5	15460	0.09	0.013	0.10	
306.93	309.98	3.05	569763	HYP	WRGD	7/3	13020	0.12	0.018	0.14	
309.98	313.03	3.05	569764	HYP	WRGD	7/3	12740	0.13	0.013	0.10	
313.03	316.08	3.05	569765	HYP	WRGD	7/3	12920	0.09	0.012	0.07	
316.08	319.13	3.05	569766	HYP	WRGD	7/3	13180	0.07	0.035	0.07	
319.13	322.17	3.04	569767	HYP	WRGD	7/3	13900	0.10	0.016	0.07	
322.17	325.22	3.05	569768	HYP	WRGD	7/3	12780	0.10	0.012	0.10	
325.22	328.27	3.05	569769	HYP	WRGD	7/3	12800	0.08	0.015	0.03	
328.27	331.32	3.05	569770	HYP	WRGD	7/3	12840	0.14	0.014	0.10	
331.32	334.37	3.05	569771	HYP	WRGD	7/3	13040	0.13	0.013	0.10	
334.37	337.41	3.04	569772	HYP	WRGD	7/3	13180	0.09	0.013	0.10	
337.41	340.46	3.05	569773	HYP	WRGD	7	13620	0.10	0.011	0.14	
340.46	343.51	3.05	569774	HYP	WRGD	7	12800	0.12	0.024	0.17	
343.51	346.56	3.05	569775	HYP	WRGD	7	13020	0.15	0.018	0.17	
346.56	349.61	3.05	569776	HYP	WRGD	7/5	13140	0.09	0.088	0.10	
349.61	352.65	3.04	569777	HYP	WRGD	7/5	12540	0.13	0.026	0.10	
352.65	355.70	3.05	569778	HYP	WRGD	7/5	13180	0.10	0.076	0.10	
355.70	358.75	3.05	569779	HYP	WRGD	7/5	13060	0.08	0.020	0.07	
358.75	361.80	3.05	569780	HYP	WRGD	7/5	11250	0.08	0.024	0.10	
361.80	364.85	3.05	569781	HYP	WRGD	7/5	13000	0.14	0.021	0.17	
364.85	367.89	3.04	569782	HYP	WRGD	7	13160	0.09	0.019	0.07	
367.89	370.94	3.05	569783	HYP	WRGD	7	13180	0.09	0.033	0.14	
370.94	373.99	3.05	569784	HYP	WRGD	4/3	12500	0.04	0.011	0.17	
373.99	377.04	3.05	569785	HYP	WRGD	7/5	12520	0.06	0.012	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.04	380.09	3.05	569786	HYP	WRGD	3/5	12450	0.08	0.015	0.17	
380.09	383.13	3.04	569787	HYP	WRGD	3/5	12620	0.06	0.014	0.17	
383.13	386.18	3.05	569788	HYP	WRGD	3/5	12780	0.09	0.016	0.10	
386.18	389.23	3.05	569789	HYP	WRGD	3/5	11760	0.08	0.019	0.14	
389.23	391.36	2.13	569790	HYP	WRGD	7/5	8500	0.09	0.021	0.14	
391.36	394.41	3.05	569791	HYP	WRGD	7/5	12680	0.09	0.022	0.14	
394.41	397.46	3.05	569792	HYP	WRGD	7/5	11760	0.08	0.019	0.10	
397.46	401.42	3.96	569793	HYP	WRGD	7/5	16650	0.08	0.024	0.14	
401.42	404.47	3.05	569794	HYP	WRGD	7/5	11850	0.10	0.023	0.14	
404.47	407.52	3.05	569795	HYP	WRGD	7/5	12950	0.07	0.024	0.07	
407.52	410.57	3.05	569796	HYP	WRGD	7/5	12400	0.06	0.021	0.07	
410.57	413.61	3.04	569797	HYP	WRGD	7/5	12280	0.05	0.043	0.03	
413.61	416.66	3.05	569798	HYP	WRGD	7/5	12100	0.10	0.035	0.17	
416.66	419.71	3.05	569799	HYP	WRGD	7/5	12760	0.08	0.026	0.07	
419.71	422.76	3.05	569800	HYP	WRGD	7	12020	0.06	0.025	0.10	
422.76	424.89	2.13	569801	HYP	PPDP	7	8480	0.10	0.032	0.10	
424.89	427.94	3.05	569802	HYP	MBFH	7	12220	0.08	0.043	0.07	
427.94	430.99	3.05	569803	HYP	WRGD	7	11380	0.05	0.042	0.03	
430.99	434.95	3.96	569804	HYP	WRGD	7/5	14800	0.06	0.048	0.03	
434.95	438.00	3.05	569805	HYP	WRGD	7/5	11500	0.11	0.054	0.14	
438.00	441.05	3.05	569806	HYP	WRGD	7/5	11800	0.07	0.030	0.07	
441.05	444.09	3.04	569807	HYP	WRGD	7/5	11680	0.05	0.039	0.10	
444.09	447.14	3.05	569808	HYP	WRGD	7/5	12000	0.08	0.034	0.10	
447.14	450.19	3.05	569809	HYP	WRGD	7/5	11250	0.09	0.035	0.21	
450.19	453.24	3.05	569810	HYP	WRGD	7/5	11500	0.08	0.031	0.10	
453.24	456.29	3.05	569811	HYP	WRGD	7/5	13080	0.10	0.048	0.14	
456.29	459.33	3.04	569812	HYP	WRGD	7/5	10460	0.07	0.150	0.10	
459.33	462.38	3.05	569813	HYP	WRGD	7/5	12360	0.04	0.123	0.07	
462.38	465.43	3.05	569814	HYP	WRGD	7/5	11620	0.04	0.184	0.07	
465.43	468.48	3.05	569815	HYP	WRGD	7/5	13260	0.10	0.055	0.10	
468.48	471.53	3.05	569816	HYP	WRGD	7/5	11540	0.10	0.055	0.10	
471.53	474.57	3.04	569817	HYP	WRGD	7/5	10820	0.08	0.060	0.07	
474.57	477.62	3.05	569818	HYP	WRGD	7/5	12580	0.15	0.048	0.10	
477.62	480.67	3.05	569819	HYP	WRGD	7/5	10400	0.07	0.055	0.10	
480.67	483.72	3.05	569820	HYP	WRGD	7/5	12640	0.09	0.040	0.14	
483.72	485.85	2.13	569821	HYP	WRGD	7/5	6500	0.08	0.071	0.07	
485.85	488.90	3.05	569822	HYP	WRGD	7/5	13440	0.05	0.061	0.07	
488.90	491.95	3.05	569823	HYP	WRGX	7/5	12760	0.10	0.128	0.10	
491.95	495.91	3.96	569824	HYP	MBFW	7/5	17340	0.11	0.103	0.14	
495.91	498.96	3.05	569825	HYP	MBFW	7/5	13460	0.08	0.062	0.14	
498.96	502.00	3.04	569826	HYP	WRGD	7/5	12880	0.07	0.058	0.07	
502.00	505.05	3.05	569827	HYP	WRGD	7/5	13200	0.06	0.066	0.07	
505.05	508.10	3.05	569828	HYP	WRGD	7/5	13640	0.08	0.063	0.17	
508.10	511.15	3.05	569829	HYP	WRGX	7/5	13620	0.11	0.037	0.14	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
511.15	514.20	3.05	569830	HYP	WRGX	7/5	12660	0.08	0.040	0.07	
514.20	517.25	3.05	569831	HYP	MBFW	7/5	13000	0.02	0.026	<0.03	
517.25	520.29	3.04	569832	HYP	MBFW	7/5	13260	0.04	0.038	<0.03	
520.29	523.34	3.05	569833	HYP	MBCW	7/5	12680	0.06	0.032	0.07	
523.34	526.39	3.05	569834	HYP	MBCW	7/5	12720	0.05	0.028	0.07	
526.39	529.44	3.05	569835	HYP	MBCW	7/5	12360	0.08	0.050	0.10	
529.44	532.49	3.05	569836	HYP	MBCW	7/5	12760	0.07	0.035	0.07	
532.49	535.53	3.04	569837	HYP	MBCW	7/5	12300	0.11	0.035	0.17	
535.53	538.58	3.05	569838	HYP	MBCW	7/5	13060	0.08	0.045	0.10	
538.58	541.63	3.05	569839	HYP	MBCW	7/5	12560	0.05	0.050	0.07	
541.63	544.68	3.05	569840	HYP	MBCW	7/5	12700	0.03	0.043	0.03	
544.68	547.73	3.05	569841	HYP	MBNW	7/5	12060	0.10	0.065	0.14	
547.73	550.77	3.04	569842	HYP	MBNW	7/5	12360	0.07	0.039	0.03	
550.77	553.21	2.44	569843	HYP	MBFW	7/5	9520	0.14	0.062	0.14	
553.21	556.26	3.05	569844	HYP	MBFW	7/5	13640	0.02	0.026	<0.03	
556.26	559.31	3.05	569845	HYP	MBFW	7/5	12200	0.05	0.045	0.03	
559.31	562.05	2.74	569846	HYP	MBFW	7/5	11320	0.03	0.050	<0.03	
562.05	565.10	3.05	569847	HYP	MBFH	7/5	13300	0.05	0.040	<0.03	
565.10	569.06	3.96	569848	HYP	MBFH	7/5	16160	0.04	0.042	0.03	
569.06	END OF HOLE										

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Hole Number	93-135	Total Depth	407.52 m		
Northing	254,386.60	Casing Depth	2.44 m		Left Out
Easting	110,743.43	Survey Data	Azimuth	Dip	Instrument
Elevation	1374.95 m	Collar		-90°	
Core Size	HQ to 255.73 m; NQ to 407.52 m	407.52 m	Not readable		Sperry Sun
Drilling Started	August 7, 1992/July 4, 1993				
Drilling Finished	August 11, 1992/July 8, 1993				
Logged by	M.P. Phillips				

Purpose/Target: Deepen Hole 92-135.

Comments: Drill hole intersected granodiorite microbreccia cut by a narrow latite dyke. Potassic altered with secondary K-spar, occasional magnetite/hematite and minor gypsum and biotite which is overprinted by vein, envelope and pervasive phyllic alteration. Weak chalcopyrite with occasional sections better grade minor chalcocite coating.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	5.49	3.05	H528386	CAP	QZMI	5	9470	0.050	0.008	0.27	1.7
5.49	8.23	2.74	H528387	CAP	QZMI	5	11450	0.050	0.003	0.14	1.2
8.23	11.28	3.05	H528388	CAP	QZMI	5	13360	0.030	0.004	0.17	1.2
11.28	14.33	3.05	H528389	CAP	QZMI	5	12560	0.050	0.011	0.24	1.6
14.33	17.37	3.04	H528390	CAP	QZMI	6	12860	0.030	0.014	0.34	2.4
17.37	20.42	3.05	H528391	CAP	QZMI	5	13310	0.030	0.028	0.55	3.7
20.42	23.47	3.05	H528392	CAP	QZMI	7	12700	0.020	0.012	0.24	1.6
23.47	26.52	3.05	H528393	CAP	QZMI	7	14270	0.030	0.025	0.17	1.8
26.52	29.57	3.05	H528394	CAP	QZMI	7	11470	0.020	0.026	0.21	2.2
29.57	32.61	3.04	H528395	CAP	QZMI	5	13590	0.060	0.007	0.21	1.5
32.61	35.66	3.05	H528396	CAP	QZMI	5	12430	0.060	0.005	0.21	1.5
35.66	38.71	3.05	H528397	CAP	QZMI	5	11900	0.050	0.011	0.41	2.4
38.71	41.45	2.74	H528398	CAP	QZMI	5	11000	0.030	0.016	0.34	2.2
41.45	44.50	3.05	H528399	CAP	QZMI	5	12840	0.040	0.008	0.24	1.8
44.50	47.40	2.90	H528400	CAP	QZMI	5	10770	0.040	0.013	0.21	2.5
47.40	50.90	3.50	H528401	CAP	QZMI	6	11900	0.010	0.014	0.21	3.0
50.90	53.95	3.05	H528402	CAP	QZMI	5	12380	0.010	0.020	0.31	5.3
53.95	57.00	3.05	H528403	CAP	QZMI	6	10700	0.010	0.020	0.38	3.0
57.00	60.05	3.05	H528404	CAP	QZMI	5	11590	0.020	0.028	0.38	2.6
60.05	63.09	3.04	H528405	CAP	QZMI	6	10680	0.020	0.027	0.45	1.8
63.09	66.14	3.05	H528406	CAP	QZMI	6	11950	0.020	0.025	0.31	1.3
66.14	69.19	3.05	H528407	CAP	QZMI	5	12130	0.040	0.020	0.27	1.7
69.19	72.24	3.05	H528408	CAP	QZMI	6	11060	0.030	0.032	0.24	1.4
72.24	74.98	2.74	H528409	CAP	QZMI	5	9400	0.030	0.020	0.24	1.3
74.98	77.72	2.74	H528410	CAP	QZMI	6	11040	0.040	0.018	0.27	1.5
77.72	80.77	3.05	H528411	CAP	QZMI	5	11900	0.040	0.023	0.24	1.4
80.77	83.82	3.05	H528412	CAP	QZMI	5	12560	0.040	0.030	0.24	1.8
83.82	87.02	3.20	H528413	CAP	QZMI	5	12580	0.030	0.023	0.24	1.4
87.02	90.22	3.20	H528414	CAP	QZMI	5	12540	0.030	0.015	0.24	1.2
90.22	93.42	3.20	H528415	CAP	QZMI	5	13240	0.050	0.020	0.27	1.6
93.42	96.62	3.20	H528416	CAP	QZMI	5	14780	0.040	0.023	0.31	1.6
96.62	99.67	3.05	H528417	CAP	QZMI	5	12340	0.060	0.043	0.48	1.8
99.67	102.72	3.05	H528418	CAP	QZMI	5	13940	0.060	0.060	0.38	1.9

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.72	105.77	3.05	H528419	CAP	QZMI	5	13280	0.070	0.013	0.21	0.9
105.77	108.81	3.04	H528420	CAP	QZMI	5	13080	0.050	0.026	0.27	1.5
108.81	111.86	3.05	H528421	CAP	QZMI	5	13460	0.200	0.020	0.24	1.6
111.86	114.91	3.05	H528422	HYP	QZMI	5	12100	0.180	0.007	0.21	1.2
114.91	117.96	3.05	H528423	HYP	QZMI	5	12900	0.140	0.019	0.21	1.5
117.96	121.01	3.05	H528424	HYP	QZMF	5	16220	0.170	0.008	0.17	1.6
121.01	124.05	3.04	H528425	HYP	QZMF	5	13100	0.220	0.010	0.24	3.0
124.05	127.10	3.05	H528426	HYP	QZMF	5	13160	0.140	0.008	0.17	1.5
127.10	130.15	3.05	H528427	HYP	QZMF	5	13520	0.200	0.050	0.27	2.0
130.15	133.20	3.05	H528428	HYP	QZMF	5	13610	0.140	0.010	0.21	0.6
133.20	136.24	3.04	H528429	HYP	QZMF	5	14220	0.290	0.020	0.62	4.0
136.24	139.29	3.05	H528430	HYP	QZMF	5	13680	0.370	0.008	0.75	7.2
139.29	142.34	3.05	H528431	HYP	QZMF	5	13440	0.250	0.012	0.24	1.4
142.34	145.39	3.05	H528432	HYP	QZMF	5	12200	0.160	0.005	0.21	1.3
145.39	148.44	3.05	H528433	HYP	QZMF	5	15280	0.130	0.007	0.14	1.3
148.44	151.49	3.05	H528434	HYP	QZMF	5	13680	0.140	0.005	0.21	1.5
151.49	154.53	3.04	H528435	HYP	QZMF	5	12080	0.310	0.018	0.24	1.7
154.53	157.58	3.05	H528436	HYP	QZMF	5	14640	0.490	0.036	0.45	2.3
157.58	160.63	3.05	H528437	HYP	QZMF	5	12520	0.560	0.040	0.82	3.1
160.63	163.07	2.44	H528438	HYP	QZMF	5	13880	0.530	0.030	0.65	3.0
163.07	166.73	3.66	H528439	HYP	QZMI	5	13180	0.360	0.015	0.31	1.9
166.73	169.77	3.04	H528440	HYP	QZMI	5	12160	0.270	0.013	0.24	1.0
169.77	172.82	3.05	H528441	HYP	QZMI	5	11560	0.420	0.019	0.31	1.2
172.82	175.87	3.05	H528442	HYP	QZMI	5	11680	0.370	0.039	0.38	1.8
175.87	178.92	3.05	H528443	HYP	QZMI	5	12460	0.530	0.035	0.51	2.5
178.92	181.97	3.05	H528444	HYP	QZMI	5	13100	0.210	0.014	0.21	1.0
181.97	185.01	3.04	H528445	HYP	QZMI	5	10800	0.490	0.033	0.41	4.2
185.01	188.06	3.05	H528446	HYP	QZMI	5	11100	0.330	0.055	0.34	2.2
188.06	191.11	3.05	H528447	HYP	QZMF	5	12380	0.240	0.029	0.24	1.4
191.11	194.16	3.05	H528448	HYP	QZMI	5	11420	0.250	0.033	0.24	1.2
194.16	197.21	3.05	H528449	HYP	QZMI	5	11400	0.220	0.050	0.31	1.2
197.21	200.25	3.04	H528450	HYP	QZMI	5	11440	0.310	0.054	0.41	1.3
200.25	203.30	3.05	H528451	HYP	BRXT	5	12240	0.250	0.034	0.21	1.6
203.30	206.35	3.05	H528452	HYP	BRXT	5	11780	0.270	0.035	0.34	1.9
206.35	209.40	3.05	H528453	HYP	BRXT	5	11000	0.250	0.085	0.24	1.5
209.40	212.45	3.05	H528454	HYP	BRXT	5	12260	0.470	0.170	0.24	2.8
212.45	215.49	3.04	H528455	HYP	BRXT	5	13080	0.220	0.029	0.21	1.6
215.49	218.54	3.05	H528456	HYP	BRXT	5	10800	0.300	0.025	0.31	2.7
218.54	221.59	3.05	H528457	HYP	BRXT	5	11780	0.190	0.032	0.17	2.4
221.59	224.64	3.05	H528458	HYP	BRXT	5	12200	0.280	0.050	0.17	2.1
224.64	227.69	3.05	H528459	HYP	BRXT	5	12560	0.190	0.033	0.14	1.1
227.69	230.73	3.04	H528460	HYP	BRXT	5	12900	0.220	0.017	0.21	1.5
230.73	233.78	3.05	H528461	HYP	QZMI	4	12100	0.130	0.006	0.17	1.3
233.78	236.83	3.05	H528462	HYP	BRXT	5	12940	0.240	0.036	0.24	1.9

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	H528463	HYP	BRXT	5	12480	0.280	0.045	0.27	2.1
239.88	243.84	3.96	H528464	HYP	BRXT	5	17100	0.280	0.025	0.24	1.8
243.84	244.23	0.39	No Sample	HYP	Assay Estimated			0.295	0.033	0.32	
244.23	245.97	1.74	564465	HYP	MBFW	7/4	8400	0.31	0.040	0.41	
245.97	249.02	3.05	564466	HYP	MBFW	7/4	11760	0.21	0.062	0.24	
249.02	252.07	3.05	564467	HYP	MBFW	7/4	12900	0.19	0.024	0.27	
252.07	255.73	3.66	564468	HYP	MBCW	7/4	15240	0.25	0.050	0.31	
255.73	258.17	2.44	564469	HYP	MBFW	7/4	6040	0.13	0.009	0.24	
258.17	261.21	3.04	564470	HYP	MBFW	7/4	7060	0.16	0.016	0.31	
261.21	264.26	3.05	564471	HYP	MBFW	7/4	6900	0.24	0.041	0.21	
264.26	267.31	3.05	564472	HYP	MBFW	7/4	7720	0.19	0.032	0.24	
267.31	270.36	3.05	564473	HYP	MBFW	7/4	7460	0.24	0.032	0.21	
270.36	273.41	3.05	564474	HYP	MBFW	7/4	6940	0.23	0.021	0.38	
273.41	276.45	3.04	564475	HYP	MBFW	7/4	7780	0.32	0.033	0.27	
276.45	279.20	2.75	564476	HYP	MBFW	7/4	6860	0.15	0.031	0.21	
279.20	282.24	3.04	564477	HYP	MBFW	7/4	7400	0.22	0.031	0.24	
282.24	285.29	3.05	564478	HYP	MBFW	7/4	7240	0.27	0.047	0.34	
285.29	288.34	3.05	564479	HYP	MBFW	7/4	7460	0.31	0.048	0.38	
288.34	291.39	3.05	564480	HYP	MBFW	7/4	7160	0.24	0.038	0.24	
291.39	294.74	3.35	564481	HYP	MBFW	7/4	7480	0.16	0.025	0.21	
294.74	297.79	3.05	564482	HYP	MBFW	7/4	6860	0.21	0.038	0.24	
297.79	300.84	3.05	564483	HYP	MBFW	7/4	6500	0.23	0.056	0.24	
300.84	303.89	3.05	564484	HYP	MBFW	7/4	7180	0.23	0.026	0.21	
303.89	306.93	3.04	564485	HYP	MBCW	7/4	7060	0.21	0.102	0.21	
306.93	309.98	3.05	564486	HYP	MBCW	7/4	6680	0.20	0.032	0.27	
309.98	313.03	3.05	564487	HYP	MBFW	7/4	6560	0.27	0.146	0.27	
313.03	316.08	3.05	564488	HYP	MBFW	7/4	7340	0.25	0.040	0.24	
316.08	319.13	3.05	564489	HYP	MBFW	7/4	6940	0.23	0.062	0.24	
319.13	322.17	3.04	564490	HYP	MBFW	7/4	7380	0.25	0.043	0.27	
322.17	325.22	3.05	564491	HYP	MBFW	7/4	7260	0.20	0.048	0.21	
325.22	328.27	3.05	564492	HYP	MBFW	4/7	7580	0.20	0.104	0.27	
328.27	331.32	3.05	564493	HYP	MBCW	4/7	6800	0.21	0.021	0.21	
331.32	334.37	3.05	564494	HYP	MBCW	5/7	7280	0.33	0.016	0.38	
334.37	337.41	3.04	564495	HYP	MBCW	5/7	7180	0.22	0.016	0.31	
337.41	340.46	3.05	564496	HYP	MBCW	5	6440	0.34	0.015	0.27	
340.46	343.51	3.05	564497	HYP	MBFW	4/5	7060	0.33	0.037	0.27	
343.51	346.56	3.05	564498	HYP	MBFW	4/5	7160	0.27	0.058	0.34	
346.56	349.61	3.05	564499	HYP	MBFW	4/7	6900	0.19	0.036	0.24	
349.61	352.65	3.04	564500	HYP	MBCW	4/5	6500	0.34	0.034	0.41	
352.65	355.70	3.05	564501	HYP	MBCW	7/4	6400	0.20	0.020	0.27	
355.70	358.75	3.05	564502	HYP	MBCW	4/7	7120	0.25	0.032	0.34	
358.75	361.80	3.05	564503	HYP	MBCW	7/4	6280	0.31	0.029	0.31	
361.80	364.85	3.05	564504	HYP	MBCW	7/4	7020	0.35	0.028	0.38	
364.85	367.89	3.04	564505	HYP	MBFW	7/4	6980	0.35	0.070	0.41	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-135

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	564506	HYP	MBFW	4	6520	0.34	0.068	0.38	
370.94	373.99	3.05	564507	HYP	MBCW	7/4	6420	0.25	0.050	0.31	
373.99	377.04	3.05	564508	HYP	MBCW	7/4	7140	0.47	0.042	0.51	
377.04	380.09	3.05	564509	HYP	MBFW	7/4	7160	0.48	0.102	0.45	
380.09	383.13	3.04	564510	HYP	MBFW	7/4	6820	0.30	0.045	0.34	
383.13	386.18	3.05	564511	HYP	LTDB	1	7140	0.05	0.030	0.14	
386.18	389.23	3.05	564512	HYP	MBFW	4/7	7000	0.24	0.077	0.24	
389.23	392.28	3.05	564513	HYP	MBFW	7/4	7100	0.26	0.044	0.24	
392.28	395.33	3.05	564514	HYP	MBFW	7/5	7160	0.29	0.022	0.31	
395.33	398.37	3.04	564515	HYP	MBFW	7	6900	0.30	0.036	0.38	
398.37	401.42	3.05	564516	HYP	MBFW	7/4	7100	0.30	0.036	0.27	
401.42	404.47	3.05	564517	HYP	MBFW	7/4	6700	0.27	0.031	0.17	
404.47	407.52	3.05	564518	HYP	MBFW	7/4	7020	0.23	0.048	0.21	
407.52	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-136	Total Depth	648.31 m		
Northing	254,539.54	Casing Depth			Left In or Out*
Easting	111,008.93	Survey Data	Azimuth	Dip	Instrument
Elevation	1373.94 m	Collar		-90.0°	Sperry Sun
Core Size	HQ to 213.36/NQ to end	304.8 m	250°	-88.0°	Sperry Sun
Drilling Started	August 11, 1992/June 12, 1993	459.3 m	230°	-89.5°	Sperry Sun
Drilling Finished	August 14, 1992/June 22, 1993	648.3 m	260°	-88.0°	Sperry Sun
Logged by	M.P. Phillips				
Purpose/Target:	Deepened 92-136.	*Casing betwen 685-700 feet abandoned.			

Comments: Granodiorite is cut by narrow dykes of latite, porphyry and "milled breccia". The generally weak potassic alteration is overprinted by narrow-wide sections of phyllic alteration. Better grades occur where potassic alteration contains magnetite or strong K-spar flooding.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	7.01	3.35	H528465	CAP	BRXT	3	6880	0.050	0.019	0.58	2.4
7.01	10.52	3.51	H528466	CAP	BRXT	3	12520	0.040	0.024	0.51	2.2
10.52	13.56	3.04	H528467	CAP	BRXT	3	9280	0.020	0.028	0.31	1.4
13.56	16.92	3.36	H528468	CAP	BRXT	3	10100	0.040	0.022	0.27	1.7
16.92	20.12	3.20	H528469	CAP	BRXT	3	7960	0.030	0.023	0.31	1.5
20.12	23.62	3.50	H528470	CAP	BRXT	3	7720	0.010	0.024	0.41	1.9
23.62	26.52	2.90	H528471	CAP	BRXT	3	8980	0.030	0.033	0.55	2.2
26.52	29.72	3.20	H528472	CAP	BRXT	3	10660	0.060	0.031	0.38	1.3
29.72	32.61	2.89	H528473	CAP	BRXT	3	10740	0.090	0.036	0.72	2.5
32.61	35.66	3.05	H528474	CAP	BRXT	3	11740	0.110	0.029	0.48	2.0
35.66	39.62	3.96	H528475	CAP	BRXT	3	14820	0.060	0.028	0.21	1.4
39.62	42.36	2.74	H528476	CAP	BRXT	3	10620	0.070	0.023	0.34	1.3
42.36	46.33	3.97	H528477	CAP	BRXT	3	16320	0.060	0.029	0.51	2.1
46.33	49.38	3.05	H528478	CAP	BRXT	3	11360	0.070	0.034	0.41	1.8
49.38	52.43	3.05	H528479	CAP	BRXT	3	11120	0.120	0.022	0.58	2.0
52.43	55.47	3.04	H528480	SOX	BRXT	7	12980	0.260	0.016	0.38	1.8
55.47	58.52	3.05	H528481	SOX	BRXT	7	12840	0.320	0.015	0.41	2.0
58.52	61.57	3.05	H528482	SOX	BRXT	7	12560	0.240	0.019	0.51	2.1
61.57	64.31	2.74	H528483	SOX	BRXT	7	12560	0.270	0.027	0.45	2.0
64.31	67.36	3.05	H528484	SOX	BRXT	5	13400	0.200	0.009	0.34	1.3
67.36	70.71	3.35	H528485	HYP	KGRD	5	14460	0.170	0.018	0.31	1.4
70.71	73.76	3.05	H528486	HYP	KGRD	1	12460	0.140	0.009	0.24	1.2
73.76	76.81	3.05	H528487	HYP	KGRD	1	12260	0.190	0.011	0.34	1.5
76.81	79.86	3.05	H528488	HYP	KGRD	2	11840	0.280	0.034	0.48	2.1
79.86	82.91	3.05	H528489	HYP	KGRD	1	11140	0.160	0.013	0.34	1.2
82.91	85.95	3.04	H528490	HYP	KGRD	1	13120	0.220	0.022	0.41	1.8
85.95	89.00	3.05	H528491	HYP	KGRD	1	12560	0.160	0.013	0.31	1.1
89.00	92.05	3.05	H528492	HYP	KGRD	1	12280	0.160	0.012	0.27	1.0
92.05	95.10	3.05	H528493	HYP	KGRD	7	12460	0.220	0.016	0.41	1.3
95.10	98.15	3.05	H528494	HYP	KGRD	7	13260	0.290	0.029	0.48	2.1
98.15	101.19	3.04	H528495	HYP	KGRD	4	11800	0.080	0.007	0.86	3.1
101.19	104.55	3.36	H528496	HYP	PPXX	4	13500	0.300	0.024	0.31	0.7
104.55	107.29	2.74	H528497	HYP	KGRD	7	10140	0.170	0.011	0.34	1.3

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
107.29	110.34	3.05	H528498	HYP	KGRD	1	14840	0.250	0.035	0.58	1.6
110.34	113.39	3.05	H528499	HYP	PPXX	1	14720	0.100	0.011	0.21	0.9
113.39	116.43	3.04	H528500	HYP	QZMI	1	13540	0.110	0.012	0.24	0.8
116.43	119.48	3.05	H528501	HYP	QZMI	4	13540	0.180	0.034	0.24	1.9
119.48	122.53	3.05	H528502	HYP	QZMI	4	14180	0.190	0.016	0.41	2.0
122.53	125.58	3.05	H528503	HYP	QZMI	4	13020	0.200	0.020	0.38	1.6
125.58	128.63	3.05	H528504	HYP	QZMI	4	12340	0.190	0.022	0.31	1.3
128.63	131.67	3.04	H528505	HYP	QZMI	7	13220	0.180	0.025	0.27	1.6
131.67	134.72	3.05	H528506	HYP	QZMI	7	12200	0.190	0.014	0.34	1.4
134.72	137.77	3.05	H528507	HYP	QZMI	1	11980	0.210	0.017	0.41	1.2
137.77	140.51	2.74	H528508	HYP	QZMI	4	10800	0.280	0.061	0.45	1.5
140.51	143.71	3.20	H528509	HYP	QZMI	4	12500	0.260	0.039	0.45	1.8
143.71	146.91	3.20	H528510	HYP	QZMI	4	12360	0.360	0.032	0.55	2.3
146.91	149.96	3.05	H528511	HYP	QZMI	4	11780	0.300	0.029	0.51	2.0
149.96	153.01	3.05	H528512	HYP	BRXC	4	11960	0.260	0.036	0.51	1.8
153.01	156.05	3.04	H528513	HYP	BRXC	4	12360	0.330	0.021	0.51	2.5
156.05	159.10	3.05	H528514	HYP	BRXC	7	12760	0.260	0.019	0.45	1.8
159.10	162.15	3.05	H528515	HYP	BRXC	4	12560	0.280	0.019	0.48	2.5
162.15	165.20	3.05	H528516	HYP	BRXC	5	12840	0.280	0.020	0.51	4.6
165.20	168.25	3.05	H528517	HYP	BRXC	5	13040	0.240	0.035	0.48	3.6
168.25	171.29	3.04	H528518	HYP	QZMI	5	12940	0.500	0.016	1.10	12.5
171.29	174.34	3.05	H528519	HYP	QZMI	5	16260	0.950	0.035	3.90	53.4
174.34	177.39	3.05	H528520	HYP	BRXC	5	15380	1.000	0.030	5.00	77.6
177.39	180.44	3.05	H528521	HYP	QZMI	5	11720	0.190	0.026	0.34	1.6
180.44	183.49	3.05	H528522	HYP	QZMI	5	12000	0.220	0.025	0.38	2.6
183.49	186.53	3.04	H528523	HYP	QZMI	5	12280	0.220	0.015	0.31	2.1
186.53	189.58	3.05	H528524	HYP	QZMI	7	13080	0.200	0.012	0.31	2.1
189.58	192.63	3.05	H528525	HYP	QZMI	1	12480	0.190	0.014	0.27	2.0
192.63	196.29	3.66	H528526	HYP	PPXX	5	13220	0.090	0.005	0.27	1.1
196.29	199.34	3.05	H528527	HYP	QZMI	5	13640	0.160	0.084	0.31	1.7
199.34	201.78	2.44	H528528	HYP	QZMI	5	10520	0.190	0.052	0.48	1.9
201.78	204.83	3.05	H528529	HYP	QZMI	5	11740	0.280	0.013	0.51	2.4
204.83	207.87	3.04	H528530	HYP	QZMI	5	12680	0.330	0.057	0.48	2.2
207.87	210.92	3.05	H528531	HYP	QZMI	1	11720	0.160	0.015	0.27	1.1
210.92	213.36	2.44	H528532	HYP	QZMI	1	11020	0.250	0.034	0.21	1.9
213.36	213.91	0.55	No Sample - Assay estimated					0.29	0.039	0.38	
213.91	215.49	1.58	564208	HYP	WRGD	7	4000	0.33	0.044	0.55	
215.49	218.54	3.05	564209	HYP	WRGD	7	7320	0.28	0.049	0.48	
218.54	221.59	3.05	564210	HYP	WRGD	5	7080	0.24	0.025	0.27	
221.59	224.03	2.44	564211	HYP	WRGD	4	5160	0.27	0.025	0.38	
224.03	227.08	3.05	564212	HYP	WRGD	7	6120	0.33	0.047	0.48	
227.08	230.73	3.65	564213	HYP	WRGD	7	8300	0.28	0.020	0.62	
230.73	233.78	3.05	564214	HYP	LTDB	7	6680	0.10	0.012	0.31	
233.78	236.83	3.05	564215	HYP	LTDB	7	7040	0.08	0.004	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	564216	HYP	WRGD	5	7580	0.22	0.020	0.31	
239.88	242.93	3.05	564217	HYP	WRGD	7	7400	0.23	0.023	0.45	
242.93	245.67	2.74	564218	HYP	WRGD	7	5500	0.18	0.015	0.38	
245.67	248.72	3.05	564219	HYP	PPDP	7	6800	0.36	0.023	0.62	
248.72	251.92	3.20	564220	HYP	PPDP	7	7080	0.41	0.024	0.65	
251.92	255.12	3.20	564221	HYP	WRGD	7	7740	0.43	0.041	0.58	
255.12	258.17	3.05	564222	HYP	WRGD	7	7320	0.36	0.051	0.65	
258.17	261.21	3.04	564223	HYP	WRGD	7	7260	0.44	0.032	0.79	
261.21	264.26	3.05	564224	HYP	WRGD	7	8200	0.45	0.089	0.62	
264.26	267.31	3.05	564225	HYP	WRGD	7	7800	0.55	0.054	0.93	
267.31	270.36	3.05	564226	HYP	WRGD	7	7640	0.26	0.018	0.34	
270.36	273.71	3.35	564227	HYP	WRGD	7	7620	0.26	0.042	0.34	
273.71	276.45	2.74	564228	HYP	PPDP	7	6760	0.23	0.030	0.34	
276.45	279.50	3.05	564229	HYP	PPDP	7	7640	0.32	0.026	0.38	
279.50	282.55	3.05	564230	HYP	PPDP	7	8380	0.20	0.044	0.27	
282.55	285.60	3.05	564231	HYP	PPDP	7	7420	0.23	0.051	0.34	
285.60	288.65	3.05	564232	HYP	PPDP	7	7960	0.27	0.042	0.34	
288.65	291.69	3.04	564233	HYP	PPDP	5	8000	0.34	0.048	0.38	
291.69	294.74	3.05	564234	HYP	WRGX	5	7200	0.28	0.021	0.34	
294.74	297.79	3.05	564235	HYP	WRGX	5	7380	0.21	0.014	0.21	
297.79	300.84	3.05	564236	HYP	WRGX	7	7580	0.24	0.017	0.27	
300.84	303.89	3.05	564237	HYP	WRGX	7	8180	0.20	0.034	0.24	
303.89	306.93	3.04	564238	HYP	WRGX	7	8100	0.23	0.030	0.34	
306.93	309.98	3.05	564239	HYP	WRGX	7	7940	0.23	0.022	0.24	
309.98	313.03	3.05	564240	HYP	WRGX	7	7080	0.17	0.021	0.17	
313.03	316.08	3.05	564241	HYP	WRGX	7	7880	0.25	0.042	0.31	
316.08	319.13	3.05	564242	HYP	WRGX	7	8540	0.23	0.024	0.34	
319.13	322.17	3.04	564243	HYP	WRGX	4	8000	0.27	0.022	0.24	
322.17	325.22	3.05	564244	HYP	WRGX	4	8200	0.16	0.043	0.14	
325.22	328.27	3.05	564245	HYP	WRGX	4	7760	0.23	0.026	0.24	
328.27	331.32	3.05	564246	HYP	WRGX	4	7320	0.26	0.037	0.27	
331.32	334.37	3.05	564247	HYP	WRGX	5	7350	0.29	0.077	0.24	
334.37	337.41	3.04	564248	HYP	WRGX	4	7020	0.30	0.122	0.27	
337.41	340.46	3.05	564249	HYP	WRGX	5	7380	0.31	0.054	0.34	
340.46	343.51	3.05	564250	HYP	WRGX	5	6980	0.29	0.026	0.34	
343.51	346.56	3.05	564251	HYP	WRGX	3	6740	0.27	0.024	0.31	
346.56	349.61	3.05	564252	HYP	WRGX	4	7140	0.37	0.068	0.34	
349.61	352.65	3.04	564253	HYP	WRGX	5	7260	0.88	0.066	0.69	
352.65	355.70	3.05	564254	HYP	WRGX	5	7740	0.65	0.035	0.48	
355.70	358.75	3.05	564255	HYP	WRGX	5	7700	0.52	0.066	0.45	
358.75	361.80	3.05	564256	HYP	MBFW	5	8080	0.26	0.144	0.31	
361.80	364.85	3.05	564257	HYP	MBFW	5	6940	0.27	0.295	0.34	
364.85	367.89	3.04	564258	HYP	MBFW	5	7040	0.32	0.073	0.34	
367.89	370.94	3.05	564259	HYP	MBFW	5	7300	0.35	0.038	0.48	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.99	3.05	564260	HYP	MBFW	5	7100	1.04	0.072	0.62	
373.99	377.04	3.05	564261	HYP	MBFW	5	7400	0.34	0.043	0.34	
377.04	380.09	3.05	564262	HYP	WRGX	4	7300	0.17	0.037	0.24	
380.09	383.13	3.04	564263	HYP	WRGX	4	6820	0.28	0.025	0.34	
383.13	386.18	3.05	564264	HYP	WRGX	4	7440	0.34	0.048	0.34	
386.18	389.23	3.05	564265	HYP	WRGX	7	7300	0.25	0.024	0.27	
389.23	392.28	3.05	564266	HYP	WRGX	7	7520	0.21	0.028	0.27	
392.28	395.32	3.04	564267	HYP	WRGX	4	7060	0.20	0.033	0.24	
395.32	398.37	3.05	564268	HYP	WRGX	3	7360	0.18	0.044	0.27	
398.37	401.42	3.05	564269	HYP	WRGX	3	7420	0.16	0.024	0.24	
401.42	404.47	3.05	564270	HYP	WRGX	5	7600	0.23	0.034	0.24	
404.47	407.52	3.05	564271	HYP	WRGX	4	6560	0.20	0.022	0.27	
407.52	410.57	3.05	564272	HYP	WRGX	4	7060	0.19	0.048	0.21	
410.57	413.61	3.04	564273	HYP	MBFW	3	7240	0.16	0.041	0.24	
413.61	416.66	3.05	564274	HYP	MBFW	3	6520	0.14	0.022	0.14	
416.66	419.71	3.05	564275	HYP	MBFW	3	6700	0.25	0.033	0.31	
419.71	422.76	3.05	564276	HYP	MBFW	4	7100	0.15	0.021	0.17	
422.76	425.81	3.05	564277	HYP	MBFW	4	7280	0.19	0.032	0.27	
425.81	428.85	3.04	564278	HYP	MBFW	4	7400	0.21	0.044	0.27	
428.85	431.90	3.05	564279	HYP	WRGX	4	6800	0.23	0.025	0.34	
431.90	434.95	3.05	564280	HYP	WRGX	3	7380	0.20	0.012	0.21	
434.95	438.00	3.05	564281	HYP	WRGX	4	7020	0.16	0.025	0.21	
438.00	441.05	3.05	564282	HYP	WRGX	4	7380	0.19	0.038	0.21	
441.05	444.09	3.04	564283	HYP	WRGX	4	670	0.18	0.034	0.14	
444.09	447.14	3.05	564284	HYP	WRGX	4	7220	0.27	0.046	0.14	
447.14	450.19	3.05	564285	HYP	WRGX	4	6440	0.21	0.073	0.24	
450.19	453.24	3.05	564286	HYP	WRGX	3	6740	0.19	0.046	0.21	
453.24	456.29	3.05	564287	HYP	WRGX	3	7080	0.16	0.138	0.14	
456.29	459.33	3.04	564288	HYP	WRGX	5	7260	0.13	0.076	0.10	
459.33	462.38	3.05	564289	HYP	WRGX	3	7640	0.17	0.052	0.17	
462.38	465.43	3.05	564290	HYP	WRGX	7	7700	0.21	0.013	0.21	
465.43	468.48	3.05	564291	HYP	WRGX	4	7280	0.28	0.029	0.27	
468.48	471.53	3.05	564292	HYP	WRGX	5	7460	0.25	0.013	0.27	
471.53	474.57	3.04	564293	HYP	WRGX	7	7860	0.16	0.015	0.14	
474.57	477.62	3.05	564294	HYP	WRGX	7	7600	0.22	0.012	0.31	
477.62	480.67	3.05	564295	HYP	WRGX	7	7540	0.22	0.015	0.21	
480.67	483.72	3.05	564296	HYP	MBFW	4	5280	0.46	0.023	0.27	
483.72	486.77	3.05	564297	HYP	MBFW	5	9840	0.46	0.019	0.45	
486.77	489.81	3.04	564298	HYP	MBFW	5	7520	0.19	0.013	0.17	
489.81	492.86	3.05	564299	HYP	MBFW	7	7760	0.12	0.013	0.07	
492.86	495.91	3.05	564300	HYP	WRAP	7	7340	0.10	0.026	0.10	
495.91	498.96	3.05	564301	HYP	WRAP	7	7640	0.10	0.019	0.07	
498.96	502.01	3.05	564302	HYP	WRGX	7	7420	0.20	0.009	0.24	
502.01	505.05	3.04	564303	HYP	WRGX	7	7480	0.19	0.012	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
505.05	508.10	3.05	564304	HYP	WRGX	7	7280	0.20	0.015	0.21	
508.10	511.15	3.05	564305	HYP	WRGX	5	7500	0.15	0.018	0.14	
511.15	514.20	3.05	564306	HYP	WRGX	7	7480	0.16	0.010	0.10	
514.20	517.25	3.05	564307	HYP	WRGX	7	6140	0.16	0.011	0.17	
517.25	520.29	3.04	564308	HYP	WRGX	7	7580	0.13	0.011	0.14	
520.29	523.34	3.05	564309	HYP	MBFW	4	8640	0.19	0.017	0.14	
523.34	526.39	3.05	564310	HYP	MBFW	7	7240	0.23	0.020	0.24	
526.39	529.44	3.05	564311	HYP	MBFW	4	7220	0.21	0.009	0.21	
529.44	532.49	3.05	564312	HYP	WRGX	7	7040	0.18	0.019	0.17	
532.49	535.53	3.04	564313	HYP	WRGX	7	7700	0.27	0.014	0.24	
535.53	538.58	3.05	564314	HYP	WRGX	7	7540	0.17	0.016	0.14	
538.58	541.63	3.05	564315	HYP	MBFW	7	6400	0.26	0.030	0.24	
541.63	544.68	3.05	564316	HYP	MBFW	7	7020	0.24	0.012	0.24	
544.68	547.73	3.05	564317	HYP	MBFW	7	7100	0.15	0.017	0.14	
547.73	550.77	3.04	564318	HYP	MBFW	7	7360	0.25	0.025	0.27	
550.77	553.82	3.05	564319	HYP	WRGX	7	6980	0.24	0.010	0.21	
553.82	556.87	3.05	564320	HYP	WRGX	2	7620	0.23	0.021	0.24	
556.87	559.92	3.05	564321	HYP	WRGX	2	8060	0.20	0.032	0.14	
559.92	562.97	3.05	564322	HYP	WRGX	7	7500	0.27	0.037	0.27	
562.97	566.01	3.04	564323	HYP	WRGX	7	7820	0.23	0.039	0.24	
566.01	569.06	3.05	564324	HYP	WRGX	7	7940	0.17	0.012	0.17	
569.06	572.11	3.05	564325	HYP	WRGX	2	8060	0.15	0.011	0.14	
572.11	575.16	3.05	564326	HYP	WRGX	2	8120	0.15	0.010	0.14	
575.16	578.21	3.05	564327	HYP	WRGX	7	7860	0.15	0.028	0.14	
578.21	581.25	3.04	564328	HYP	WRGX	7	7900	0.15	0.020	0.14	
581.25	584.30	3.05	564329	HYP	WRGX	7	7760	0.22	0.013	0.17	
584.30	587.35	3.05	564330	HYP	WRGX	7	7740	0.30	0.032	0.27	
587.35	590.40	3.05	564331	HYP	WRGX	7	6980	0.22	0.026	0.24	
590.40	593.45	3.05	564332	HYP	WRGX	7	6580	0.25	0.021	0.14	
593.45	596.49	3.04	564333	HYP	WRGX	7	6480	0.16	0.020	0.17	
596.49	599.54	3.05	564334	HYP	WRGX	7	6300	0.18	0.035	0.14	
599.54	602.59	3.05	564335	HYP	MBFW	7	6100	0.17	0.028	0.14	
602.59	605.64	3.05	564336	HYP	MBFW	5	6580	0.14	0.025	0.14	
605.64	608.69	3.05	564337	HYP	MBFW	5	6660	0.22	0.024	0.17	
608.69	611.73	3.04	564338	HYP	MBFW	5	7140	0.26	0.031	0.24	
611.73	614.78	3.05	564339	HYP	MBFW	5	6760	0.32	0.055	0.27	
614.78	617.83	3.05	564340	HYP	MBFW	5	6560	0.31	0.031	0.31	
617.83	620.88	3.05	564341	HYP	WRGX	7	6320	0.14	0.025	0.10	
620.88	623.93	3.05	564342	HYP	WRGX	7	6300	0.12	0.025	0.10	
623.93	626.97	3.04	564343	HYP	WRGX	7	6660	0.13	0.050	0.10	
626.97	630.02	3.05	564344	HYP	WRGX	7	7820	0.16	0.030	0.14	
630.02	633.07	3.05	564345	HYP	WRGX	7	7220	0.16	0.038	0.21	
633.07	636.12	3.05	564346	HYP	WRGX	7	7240	0.19	0.019	0.14	
636.12	639.17	3.05	564347	HYP	WRGX	4	7000	0.15	0.037	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
639.17	642.21	3.04	564348	HYP	WRGX	3	6780	0.22	0.036	0.17	
642.21	645.26	3.05	564349	HYP	WRGX	3	6980	0.26	0.050	0.24	
645.26	648.31	3.05	564350	HYP	WRGX	4	6920	0.29	0.026	0.24	
648.31	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-137	Total Depth	578.21 m		
Northing	254,617.43	Casing Depth	8.53 m		Left Out
Easting	111,092.73	Survey Data	Azimuth	Dip	Instrument
Elevation	1345.80 m	Collar			
Core Size	HQ	334.4 m	257°	-88.75°	Sperry Sun
Drilling Started	August 15, 1992/July 2, 1993	459.3 m	005°	-89.25°	Sperry Sun
Drilling Finished	August 17, 1992/July 6, 1993	578.2 m	283°	-89.50°	Sperry Sun
Logged by	T. Case				

Purpose/Target: To extend Hole 92-137 which ended in known mineralization.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.88	4.88		OVB							
4.88	7.62	2.74	H528533	CAP	BRXT	3	9600	0.040	0.010	0.48	5.2
7.62	10.67	3.05	H528534	CAP	BRXT	3	12100	0.070	0.024	0.58	3.6
10.67	13.41	2.74	H528535	CAP	BRXT	3	9220	0.040	0.006	0.27	4.1
13.41	17.37	3.96	H528536	CAP	BRXT	3	15920	0.040	0.011	0.41	2.2
17.37	20.42	3.05	H528537	CAP	BRXT	3	13100	0.030	0.024	0.55	2.0
20.42	23.32	2.90	H528538	CAP	BRXT	3	10960	0.060	0.052	1.03	4.9
23.32	26.37	3.05	H528539	CAP	BRXT	3	10760	0.050	0.018	0.51	1.9
26.37	28.96	2.59	H528540	CAP	BRXT	3	8120	0.070	0.015	0.51	2.0
28.96	32.46	3.50	H528541	CAP	BRXT	3	13940	0.050	0.030	0.65	2.8
32.46	35.36	2.90	H528542	CAP	BRXT	3	11560	0.050	0.022	0.45	1.6
35.36	38.71	3.35	H528543	CAP	BRXT	3	14060	0.060	0.023	0.41	2.2
38.71	41.45	2.74	H528544	CAP	BRXT	3	9760	0.040	0.011	1.44	5.5
41.45	44.20	2.75	H528545	CAP	BRXT	3	10920	0.060	0.016	0.45	2.2
44.20	47.55	3.35	H528546	CAP	BRXT	3	12800	0.050	0.023	0.41	1.9
47.55	50.29	2.74	H528547	CAP	BRXT	3	10500	0.050	0.043	0.72	2.2
50.29	54.25	3.96	H528548	CAP	BRXT	3	15360	0.020	0.016	0.55	2.1
54.25	57.00	2.75	H528549	CAP	BRXT	3	11560	0.020	0.019	0.34	2.4
57.00	60.05	3.05	H528550	CAP	BRXT	3	11220	0.020	0.032	0.65	7.4
60.05	63.09	3.04	H528551	CAP	BRXT	3	12080	0.030	0.060	0.55	5.3
63.09	66.45	3.36	H528552	CAP	BRXT	3	14660	0.090	0.084	0.62	2.3
66.45	69.19	2.74	H528553	CAP	BRXT	3	9960	0.050	0.028	0.48	1.0
69.19	72.24	3.05	H528554	CAP	BRXT	3	11800	0.050	0.011	0.45	1.2
72.24	75.29	3.05	H528555	CAP	BRXT	3	12300	0.080	0.069	0.75	6.2
75.29	78.33	3.04	H528556	CAP	BRXT	3	12220	0.050	0.066	0.82	4.9
78.33	81.38	3.05	H528557	CAP	BRXT	3	12380	0.050	0.074	0.55	3.7
81.38	85.95	4.57	H528558	CAP	BRXT	3	18860	0.050	0.047	0.31	1.5
85.95	89.00	3.05	H528559	CAP	BRXT	3	13360	0.080	0.077	0.58	1.2
89.00	92.20	3.20	H528560	CAP	BRXT	3	12200	0.060	0.097	0.34	2.0
92.20	95.40	3.20	H528561	CAP	BRXT	5	11480	0.030	0.134	0.45	2.0
95.40	99.67	4.27	H528562	CAP	BRXT	5	17960	0.050	0.092	0.34	1.6
99.67	102.72	3.05	H528563	CAP	BRXT	5	12540	0.050	0.118	0.55	2.3
102.72	105.77	3.05	H528564	CAP	BRXT	5	11800	0.050	0.112	0.79	4.2
105.77	108.81	3.04	H528565	CAP	BRXT	5	11520	0.040	0.073	0.62	4.1

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.81	111.86	3.05	H528566	CAP	BRXT	5	12800	0.040	0.093	0.51	3.7
111.86	114.91	3.05	H528567	CAP	BRXT	5	11720	0.080	0.055	0.38	6.7
114.91	117.96	3.05	H528568	SUS	BRXT	5	12780	0.390	0.186	0.68	2.5
117.96	121.01	3.05	H528569	SUS	BRXT	5	13920	0.300	0.128	0.68	1.8
121.01	124.05	3.04	H528570	SUS	BRXT	5	13920	0.520	0.109	0.68	2.2
124.05	127.10	3.05	H528571	SUS	BRXT	5	13220	1.330	0.172	1.27	10.7
127.10	130.15	3.05	H528572	SUS	BRXT	5	13720	0.490	0.172	0.58	6.8
130.15	133.20	3.05	H528573	SUS	BRXT	5	11720	0.350	0.027	0.45	5.3
133.20	136.25	3.05	H528574	SUS	BRXT	5	12860	0.360	0.018	0.17	3.4
136.25	139.29	3.04	H528575	SUS	BRXT	5	12000	0.520	0.029	0.58	3.3
139.29	142.34	3.05	H528576	SUS	BRXT	5	12880	0.890	0.160	0.75	3.0
142.34	145.39	3.05	H528577	SUS	BRXT	5	12460	0.470	0.069	0.55	1.6
145.39	148.44	3.05	H528578	SUS	BRXT	5	13220	0.620	0.024	0.68	2.2
148.44	151.49	3.05	H528579	SUS	BRXT	5	12260	0.460	0.029	0.34	1.4
151.49	154.53	3.04	H528580	SUS	BRXT	5	12780	0.430	0.064	0.38	1.4
154.53	157.58	3.05	H528581	SUS	BRXT	5	13420	0.280	0.044	0.34	1.4
157.58	160.63	3.05	H528582	SUS	BRXT	5	11700	0.320	0.026	0.38	1.3
160.63	163.68	3.05	H528583	HYP	BRXT	5	13000	0.180	0.020	0.31	1.6
163.68	166.73	3.05	H528584	HYP	BRXT	5	13220	0.190	0.067	0.31	3.4
166.73	169.77	3.04	H528585	HYP	BRXT	5	13180	0.300	0.031	0.27	4.3
169.77	172.82	3.05	H528586	HYP	BRXT	5	11400	0.120	0.026	0.31	2.2
172.82	175.87	3.05	H528587	HYP	BRXT	5	12100	0.390	0.044	0.72	4.8
175.87	178.92	3.05	H528588	HYP	BRXT	5	12200	0.550	0.074	0.75	4.7
178.92	181.97	3.05	H528589	HYP	BRXT	5	13400	0.600	0.070	0.92	3.2
181.97	183.79	1.82	H528590	HYP	PPXX	5	7900	0.180	0.044	0.14	0.9
183.79	186.84	3.05	H528591	HYP	PPXX	4	12620	0.230	0.037	0.21	1.3
186.84	191.11	4.27	H528592	HYP	PPXX	5	18000	0.620	0.051	0.55	4.9
191.11	194.16	3.05	H528593	HYP	BRXT	5	11820	0.380	0.161	0.34	1.8
194.16	197.21	3.05	H528594	HYP	BRXT	4	12500	0.340	0.127	0.38	1.3
197.21	200.25	3.04	H528595	HYP	BRXC	4	11860	0.240	0.037	0.27	1.0
200.25	203.30	3.05	H528596	HYP	BRXC	5	11420	0.270	0.074	0.27	1.7
203.30	206.35	3.05	H528597	HYP	BRXT	4	12000	0.240	0.014	0.31	1.4
206.35	209.40	3.05	H528598	HYP	BRXT	1	12100	0.190	0.023	0.17	0.9
209.40	212.45	3.05	H528599	HYP	BRXT	5	12540	0.290	0.015	0.38	1.5
212.45	215.49	3.04	H528600	HYP	BRXT	5	12460	0.370	0.042	0.55	3.6
215.49	218.54	3.05	H528601	HYP	BRXT	5	12400	0.370	0.124	0.45	2.7
218.54	221.59	3.05	H528602	HYP	BRXT	4	12120	0.260	0.027	0.21	2.9
221.59	224.64	3.05	H528603	HYP	BRXT	4	12940	0.220	0.075	0.21	1.5
224.64	227.69	3.05	H528604	HYP	BRXT	1	9240	0.260	0.033	0.34	2.7
227.69	230.73	3.04	H528605	HYP	BRXT	5	16000	0.280	0.031	0.34	2.1
230.73	233.78	3.05	H528606	HYP	BRXT	5	12080	0.370	0.050	0.38	4.7
233.78	236.83	3.05	H528607	HYP	PPXX	4	12460	0.420	0.074	0.58	2.3
236.83	239.88	3.05	H528608	HYP	BRXT	4	12080	0.380	0.052	0.38	3.4
239.88	243.84	3.96	H528609	HYP	PPXX	1	17040	0.270	0.021	0.24	2.5

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
243.84	245.97	2.13	570649	HYP	MBFH	7/5	6280	0.25	0.019	0.21	
245.97	249.02	3.05	570650	HYP	MBFH	7/5	12340	0.17	0.012	0.21	
249.02	252.07	3.05	570651	HYP	MBFH	7/5	12080	0.28	0.038	0.27	
252.07	255.12	3.05	570652	HYP	MBFH	7/5	12460	0.36	0.030	0.34	
255.12	258.17	3.05	570653	HYP	MBFH	7/5	9640	0.25	0.010	0.27	
258.17	261.21	3.04	570654	HYP	MBFH	7/5	10640	0.37	0.028	0.34	
261.21	264.26	3.05	570655	HYP	MBFH	7/5	10260	0.39	0.041	0.41	
264.26	267.31	3.05	570656	HYP	MBFH	7/5	8260	0.50	0.050	0.58	
267.31	270.36	3.05	570657	HYP	MBNW	7/5	10500	0.25	0.023	0.17	
270.36	273.41	3.05	570658	HYP	MBNW	7/5	10580	0.21	0.014	0.24	
273.41	276.45	3.04	570659	HYP	MBNW	7/5	10460	0.41	0.049	0.45	
276.45	279.50	3.05	570660	HYP	MBNW	7/5	10000	0.47	0.031	0.58	
279.50	281.94	2.44	570661	HYP	MBNW	7/5	8340	0.46	0.033	0.51	
281.94	284.99	3.05	570662	HYP	MBNW	7/5	8260	0.46	0.022	0.79	
284.99	288.65	3.66	570663	HYP	MBNW	7/5	10780	0.45	0.023	0.58	
288.65	291.69	3.04	570664	HYP	MBNW	7/5	9340	0.46	0.050	0.69	
291.69	294.74	3.05	570665	HYP	MBCW	7/5	9960	0.40	0.020	0.55	
294.74	297.79	3.05	570666	HYP	MBCW	7/5	10180	0.43	0.097	0.41	
297.79	300.84	3.05	570667	HYP	MBCW	7/3	8800	0.52	0.026	0.93	
300.84	303.89	3.05	570668	HYP	MBCW	7/3	9920	0.31	0.045	0.38	
303.89	306.93	3.04	570669	HYP	MBCW	7/3	11660	0.17	0.020	0.21	
306.93	309.98	3.05	570670	HYP	MBCW	7/3	10880	0.22	0.011	0.17	
309.98	313.03	3.05	570671	HYP	WRGD	7/3	10300	0.32	0.032	0.48	
313.03	316.08	3.05	570672	HYP	WRGD	7/3	10220	0.56	0.046	0.86	
316.08	319.13	3.05	570673	HYP	WRGD	7/3	10320	0.32	0.031	0.31	
319.13	322.17	3.04	570674	HYP	WRGD	7/3	10540	0.38	0.022	0.45	
322.17	325.22	3.05	570675	HYP	WRGD	7/3	11120	0.36	0.029	0.38	
325.22	328.27	3.05	570676	HYP	WRGD	7/3	11540	0.54	0.036	0.55	
328.27	331.32	3.05	570677	HYP	WRGD	7/3	12560	0.55	0.286	0.34	
331.32	334.37	3.05	570678	HYP	WRGD	7/3	11620	0.65	0.235	0.27	
334.37	337.41	3.04	570679	HYP	WRGD	7/3	11080	0.43	0.071	0.41	
337.41	340.46	3.05	570680	HYP	WRGD	7/3	11980	0.49	0.033	0.58	
340.46	343.51	3.05	570681	HYP	WRGD	7/3	11080	0.33	0.021	0.34	
343.51	346.56	3.05	570682	HYP	WRGD	7/3	11020	0.32	0.020	0.38	
346.56	349.61	3.05	570683	HYP	WRGD	3/7	13500	0.32	0.024	0.45	
349.61	352.65	3.04	570684	HYP	WRGD	3/7	12380	0.38	0.018	0.45	
352.65	355.70	3.05	570685	HYP	WRGD	3/7	12800	0.30	0.013	0.24	
355.70	358.75	3.05	570686	HYP	WRGD	3/7	12540	0.27	0.018	0.27	
358.75	361.80	3.05	570687	HYP	WRGD	3/7	11780	0.32	0.015	0.48	
361.80	364.85	3.05	570688	HYP	WRGD	3/7	12640	0.42	0.019	0.45	
364.85	367.89	3.04	570689	HYP	WRGD	3/7	11540	0.32	0.023	0.41	
367.89	370.94	3.05	570690	HYP	WRGD	3/7	11400	0.30	0.036	0.27	
370.94	373.99	3.05	570691	HYP	WRGD	3/7	11740	0.31	0.017	0.31	
373.99	377.04	3.05	570692	HYP	WRGD	3/7	11540	0.26	0.026	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.04	380.09	3.05	570693	HYP	WRGD	3/7	11300	0.29	0.030	0.27	
380.09	383.13	3.04	570694	HYP	WRGD	3/7	11220	0.24	0.040	0.27	
383.13	386.18	3.05	570695	HYP	WRGD	3/7	12400	0.33	0.014	0.34	
386.18	389.23	3.05	570696	HYP	WRGD	3/7	10760	0.28	0.033	0.34	
389.23	392.28	3.05	570697	HYP	WRGD	3/7	11320	0.30	0.022	0.34	
392.28	395.33	3.05	570698	HYP	WRGD	3/7	10900	0.38	0.040	0.27	
395.33	398.37	3.04	570699	HYP	WRGD	3/7	10860	0.39	0.022	0.45	
398.37	401.42	3.05	570700	HYP	WRGD	3/7	11760	0.34	0.060	0.34	
401.42	404.47	3.05	570701	HYP	WRGD	3/7	11200	0.31	0.078	0.31	
404.47	407.52	3.05	570702	HYP	WRGD	3/7	10820	0.23	0.049	0.24	
407.52	410.56	3.04	570703	HYP	WRGD	3/7	11000	0.34	0.029	0.21	
410.56	413.61	3.05	570704	HYP	WRGD	3/7	10640	0.19	0.010	0.24	
413.61	416.66	3.05	570705	HYP	WRGD	3/7	10700	0.28	0.022	0.21	
416.66	419.71	3.05	570706	HYP	MBCW	3/7	12240	0.36	0.027	0.41	
419.71	422.76	3.05	570707	HYP	MBCW	3/7	11160	0.23	0.034	0.27	
422.76	425.81	3.05	570708	HYP	MBCW	3/7	11260	0.28	0.021	0.31	
425.81	428.85	3.04	570709	HYP	MBCW	3/7	10080	0.26	0.032	0.17	
428.85	431.90	3.05	570710	HYP	MBCW	3/7	10500	0.25	0.031	0.17	
431.90	434.95	3.05	570711	HYP	MBCW	3/7	10940	0.30	0.038	0.34	
434.95	438.00	3.05	570712	HYP	MBCW	3/7	10780	0.31	0.013	0.41	
438.00	441.05	3.05	570713	HYP	MBCW	3/7	10260	0.20	0.025	0.27	
441.05	444.09	3.04	570714	HYP	MBCW	3/7	10700	0.26	0.025	0.17	
444.09	447.14	3.05	570715	HYP	MBFW	7/3	10580	0.20	0.071	0.24	
447.14	450.19	3.05	570716	HYP	MBFW	7/3	10420	0.26	0.034	0.38	
450.19	453.24	3.05	570717	HYP	MBFW	7/3	10240	0.28	0.031	0.38	
453.24	456.29	3.05	570718	HYP	MBCW	7/3	10420	0.33	0.026	0.34	
456.29	459.33	3.04	570719	HYP	MBCW	7/3	9820	0.20	0.033	0.27	
459.33	462.38	3.05	570720	HYP	MBCW	7/3	10000	0.18	0.024	0.24	
462.38	465.43	3.05	570721	HYP	MBCW	7/3	10380	0.28	0.042	0.38	
465.43	468.48	3.05	570722	HYP	MBCW	7/3	9880	0.26	0.024	0.31	
468.48	471.53	3.05	570723	HYP	MBCW	7/3	10680	0.34	0.035	0.41	
471.53	474.57	3.04	570724	HYP	MBCW	7/3	10640	0.33	0.026	0.55	
474.57	477.62	3.05	570725	HYP	MBCW	7/3	9720	0.29	0.108	0.34	
477.62	480.67	3.05	570726	HYP	MBCW	7/3	9880	0.28	0.028	0.45	
480.67	483.72	3.05	570727	HYP	MBCW	7/5	10400	0.16	0.021	0.31	
483.72	486.77	3.05	570728	HYP	MBCW	7/5	9700	0.24	0.036	0.24	
486.77	489.81	3.04	570729	HYP	MBCW	7/5	11120	0.19	0.023	0.14	
489.81	492.86	3.05	570730	HYP	MBFW	7/5	11580	0.13	0.071	0.14	
492.86	495.91	3.05	570731	HYP	MBCW	7/5	12840	0.12	0.036	0.14	
495.91	498.96	3.05	570732	HYP	MBCW	7/5	11860	0.17	0.037	0.24	
498.96	502.01	3.05	570733	HYP	MBFW	7/5	13100	0.16	0.060	0.17	
502.01	505.05	3.04	570734	HYP	MBFW	7/5	11720	0.30	0.037	0.24	
505.05	508.10	3.05	570735	HYP	MBFW	7/5	11860	0.09	0.040	0.10	
508.10	511.15	3.05	570736	HYP	MBFW	7/5	12060	0.14	0.087	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
511.15	514.20	3.05	570737	HYP	MBCW	7/5	11820	0.17	0.137	0.27	
514.20	517.25	3.05	570738	HYP	MBCW	7/5	12320	0.15	0.056	0.14	
517.25	520.29	3.04	570739	HYP	MBFW	7/5	11300	0.22	0.057	0.17	
520.29	523.34	3.05	570740	HYP	MBFW	7/5	12300	0.24	0.067	0.17	
523.34	526.39	3.05	570741	HYP	MBFW	7/5	11720	0.29	0.130	0.34	
526.39	529.44	3.05	570742	HYP	MBFW	7	12020	0.32	0.029	0.31	
529.44	532.49	3.05	570743	HYP	MBFW	7	12420	0.45	0.053	0.51	
532.49	535.53	3.04	570744	HYP	MBFW	7	12140	0.27	0.017	0.38	
535.53	538.58	3.05	570745	HYP	MBFW	7	12080	0.35	0.026	0.45	
538.58	541.63	3.05	570746	HYP	MBFW	7	12160	0.40	0.029	0.38	
541.63	544.68	3.05	570747	HYP	MBNW	7	11720	0.23	0.042	0.17	
544.68	547.73	3.05	570748	HYP	PPDP	7	11600	0.26	0.065	0.31	
547.73	550.77	3.04	570749	HYP	PPDP	7	11400	0.31	0.021	0.34	
550.77	553.82	3.05	570750	HYP	MBNW	7	12580	0.25	0.047	0.24	
553.82	556.87	3.05	570751	HYP	MBNW	7	10780	0.29	0.035	0.27	
556.87	559.92	3.05	570752	HYP	MBNW	7	12740	0.26	0.061	0.31	
559.92	562.97	3.05	570753	HYP	MBFW	7	12820	0.52	0.059	0.51	
562.97	566.01	3.04	570754	HYP	MBFW	7	10380	0.43	0.069	0.62	
566.01	569.06	3.05	570755	HYP	MBFH	7	11360	0.67	0.046	0.69	
569.06	572.11	3.05	570756	HYP	MBFH	7	10440	0.34	0.037	0.31	
572.11	575.16	3.05	570757	HYP	MBFH	7	13380	0.23	0.055	0.38	
575.16	578.21	3.05	570758	HYP	MBFH	7	12260	0.23	0.062	0.24	
578.21	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-138	Total Depth	575.16 m		
Northing	254,702.83	Casing Depth	3.66 m		Left In
Easting	111,184.84	Survey Data	Azimuth	Dip	Instrument
Elevation	1323 m	Collar		-90°	
Core Size	HQ	325.2 m	035°	-89°	Sperry Sun
Drilling Started	August 18, 1992/June 23, 1993	459.3 m	N/A	-90°	Sperry Sun
Drilling Finished	August 22, 1992/June 29, 1993				
Logged by	T. Case				

Purpose/Target: To redrill hole 92-138 with known mineralization.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	7.16	3.50	H528610	CAP	BRXT	3	10820	Tr	0.020	0.31	2.4
7.16	11.28	4.12	H528611	CAP	BRXT	3	12820	Tr	0.046	0.38	3.2
11.28	14.63	3.35	H528612	CAP	BRXT	3	13000	0.010	0.044	0.38	1.9
14.63	17.52	2.89	H528613	CAP	BRXT	3	10240	Tr	0.025	0.45	2.0
17.52	20.48	2.96	H528614	CAP	BRXT	3	10040	0.010	0.051	2.64	7.5
20.48	23.47	2.99	H528615	CAP	BRXT	3	12100	0.030	0.091	1.13	5.0
23.47	26.52	3.05	H528616	CAP	BRXT	3	10880	0.010	0.063	0.72	5.5
26.52	29.57	3.05	H528617	CAP	BRXT	3	12040	0.010	0.042	0.48	5.6
29.57	32.61	3.04	H528618	CAP	BRXT	3	12460	0.010	0.042	0.68	7.2
32.61	35.66	3.05	H528619	CAP	BRXT	3	12380	0.020	0.027	0.51	2.0
35.66	39.32	3.66	H528620	CAP	BRXT	3	11960	0.020	0.083	0.89	15.8
39.32	42.98	3.66	H528621	CAP	BRXT	3	12620	0.010	0.030	0.45	3.9
42.98	46.03	3.05	H528622	CAP	BRXT	3	10360	0.010	0.037	0.34	2.1
46.03	49.38	3.35	H528623	CAP	BRXT	3	12400	Tr	0.033	0.27	3.4
49.38	52.42	3.04	H528624	CAP	BRXT	3	11000	0.010	0.031	0.34	3.0
52.42	55.47	3.05	H528625	SOX	BRXT	7	11980	0.010	0.040	0.82	7.2
55.47	59.13	3.66	H528626	SOX	BRXT	7	11020	0.010	0.016	0.48	5.5
59.13	61.87	2.74	H528627	SOX	BRXT	7	9500	0.010	0.052	0.51	6.8
61.87	66.14	4.27	H528628	SOX	BRXT	7	15540	0.010	0.032	0.55	4.6
66.14	69.18	3.04	H528629	SOX	BRXT	5	10160	0.010	0.031	0.82	5.5
69.18	72.24	3.06	H528630	HYP	KGRD	5	9240	Tr	0.050	0.58	10.0
72.24	75.28	3.04	H528631	HYP	KGRD	1	11500	Tr	0.046	0.27	3.3
75.28	79.24	3.96	H528632	HYP	KGRD	1	12980	Tr	0.026	0.41	3.8
79.24	81.38	2.14	H528633	HYP	KGRD	2	8160	Tr	0.018	0.82	3.9
81.38	84.43	3.05	H528634	HYP	KGRD	1	11640	0.010	0.024	0.82	8.6
84.43	87.47	3.04	H528635	HYP	KGRD	1	10500	0.010	0.023	0.58	5.6
87.47	90.52	3.05	H528636	HYP	KGRD	1	7040	0.010	0.033	0.79	20.1
90.52	93.57	3.05	H528637	HYP	KGRD	1	9720	0.010	0.031	0.41	4.7
93.57	96.62	3.05	H528638	CAP	BRXT	3	11380	0.010	0.045	0.41	4.5
96.62	99.67	3.05	H528639	CAP	BRXT	3	11260	0.010	0.032	0.31	4.1
99.67	102.72	3.05	H528640	CAP	BRXT	3	11700	0.020	0.018	0.65	2.0
102.72	105.77	3.05	H528641	CAP	BRXT	3	11580	0.010	0.009	0.24	2.5
105.77	108.66	2.89	H528642	CAP	BRXT	3	8580	0.010	0.025	0.65	5.8

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.66	112.92	4.26	H528643	CAP	BRXT	3	13140	0.010	0.030	0.31	3.8
112.92	115.98	3.06	H528644	CAP	BRXT	5	11500	0.020	0.043	0.34	3.6
115.98	117.96	1.98	H528645	CAP	BRXT	5	6700	0.030	0.039	0.48	4.9
117.96	121.01	3.05	H528646	CAP	BRXT	5	11780	0.050	0.065	0.41	4.2
121.01	124.05	3.04	H528647	CAP	BRXT	3	10920	0.280	0.063	0.55	5.8
124.05	127.10	3.05	H528648	CAP	BRXT	5	11240	0.010	0.052	0.58	7.3
127.10	130.14	3.04	H528649	CAP	BRXT	5	11300	0.170	0.055	0.48	6.0
130.14	133.20	3.06	H528650	CAP	BRXT	5	12360	0.160	0.040	0.34	3.7
133.20	136.25	3.05	H528651	SUS	BRXT	5	11920	0.470	0.047	0.62	4.6
136.25	139.29	3.04	H528652	SUS	BRXT	5	12020	0.660	0.042	0.51	6.5
139.29	142.34	3.05	H528653	SUS	BRXT	5	11460	0.570	0.082	0.51	7.2
142.34	145.39	3.05	H528654	SUS	BRXT	5	10720	0.770	0.052	0.75	8.6
145.39	148.44	3.05	H528655	SUS	BRXT	5	11980	0.460	0.126	0.41	7.4
148.44	151.49	3.05	H528656	SUS	BRXT	5	12220	0.250	0.080	0.45	4.5
151.49	154.53	3.04	H528657	SUS	BRXT	5	10560	0.340	0.085	0.24	2.9
154.53	157.58	3.05	H528658	SUS	BRXT	5	12580	0.360	0.083	0.21	3.6
157.58	160.63	3.05	H528659	SUS	BRXT	5	12280	0.570	0.068	0.55	7.6
160.63	163.07	2.44	H528660	SUS	BRXT	5	9740	0.440	0.076	0.41	5.1
163.07	166.12	3.05	H528661	SUS	BRXT	5	11680	0.560	0.061	0.38	4.3
166.12	169.16	3.04	H528662	SUS	BRXT	5	10360	0.260	0.049	0.31	2.8
169.16	172.36	3.20	H528663	SUS	BRXT	5	12660	0.320	0.063	0.34	3.7
172.36	175.56	3.20	H528664	SUS	BRXT	5	11440	0.370	0.082	0.34	5.3
175.56	178.77	3.21	H528665	SUS	BRXT	5	12040	0.420	0.066	0.48	8.2
178.77	181.97	3.20	H528666	SUS	BRXT	5	11400	0.540	0.090	0.48	26.9
181.97	185.01	3.04	H528667	SUS	BRXT	5	11200	0.470	0.080	0.41	7.1
185.01	188.06	3.05	H528668	SUS	BRXT	5	10700	0.430	0.068	0.41	6.5
188.06	191.11	3.05	H528669	SUS	BRXT	5	11460	0.520	0.031	0.51	7.0
191.11	194.16	3.05	H528670	HYP	BRXT	5	11220	0.440	0.075	0.27	5.8
194.16	197.21	3.05	H528671	HYP	BRXT	5	11740	0.400	0.058	0.34	3.5
197.21	200.25	3.04	H528672	HYP	BRXT	5	10920	0.460	0.078	0.45	3.3
200.25	203.30	3.05	H528673	HYP	BRXT	5	11460	0.540	0.054	0.55	6.4
203.30	206.35	3.05	H528674	HYP	BRXT	5	11240	0.560	0.069	0.48	4.5
206.35	209.40	3.05	H528675	HYP	BRXT	5	11140	0.670	0.066	0.82	7.2
209.40	212.45	3.05	H528676	HYP	BRXT	5	11580	0.420	0.059	0.38	4.3
212.45	215.49	3.04	H528677	HYP	BRXT	5	11760	0.170	0.038	0.21	1.8
215.49	218.54	3.05	H528678	HYP	BRXT	5	11280	0.310	0.143	0.41	3.3
218.54	221.59	3.05	H528679	HYP	BRXT	5	11340	0.200	0.171	0.24	2.0
221.59	224.64	3.05	H528680	HYP	BRXT	5	12960	0.170	0.166	0.21	2.7
224.64	228.60	3.96	H528681	HYP	BRXT	5	17920	0.140	0.066	0.34	3.4
228.60	230.72	2.12	570532	HYP	MBFH	5	7020	0.11	0.046	0.31	
230.72	233.78	3.06	570533	HYP	MBFH	5	9900	0.06	0.053	0.24	
233.78	236.83	3.05	570534	HYP	MBFH	5	13000	0.17	0.079	0.24	
236.83	239.27	2.44	570535	HYP	MBFH	5	9380	0.30	0.058	0.45	
239.27	242.47	3.20	570536	HYP	MBFH	5	12440	0.17	0.033	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
242.47	245.67	3.20	570537	HYP	MBFH	5	13000	0.17	0.063	0.21	
245.67	248.87	3.20	570538	HYP	MBFH	5	13060	0.09	0.076	0.21	
248.87	252.53	3.66	570539	HYP	MBFH	5	10980	0.11	0.106	0.24	
252.53	255.12	2.59	570540	HYP	MBFH	5	10260	0.19	0.152	0.27	
255.12	258.17	3.05	570541	HYP	MBFH	5	12560	0.11	0.119	0.31	
258.17	261.21	3.04	570542	HYP	MBFH	5	12060	0.06	0.090	0.27	
261.21	264.26	3.05	570543	HYP	MBFH	5	14700	0.10	0.087	0.27	
264.26	267.31	3.05	570544	HYP	MBFH	5	12900	0.21	0.107	0.41	
267.31	270.36	3.05	570545	HYP	MBFH	5	12300	0.23	0.084	0.31	
270.36	273.41	3.05	570546	HYP	MBFH	5	15220	0.23	0.067	0.24	
273.41	276.45	3.04	570547	HYP	MBFH	5	12560	0.20	0.066	0.21	
276.45	279.50	3.05	570548	HYP	MBFH	5	12420	0.22	0.083	0.27	
279.50	282.55	3.05	570549	HYP	MBFH	5	13740	0.22	0.036	0.17	
282.55	285.60	3.05	570550	HYP	MBFH	5	11920	0.21	0.161	0.21	
285.60	288.65	3.05	570551	HYP	MBFH	5	12960	0.21	0.022	0.24	
288.65	291.69	3.04	570552	HYP	MBFH	5	13420	0.24	0.039	0.17	
291.69	294.74	3.05	570553	HYP	MBFH	5	12560	0.12	0.028	0.14	
294.74	297.79	3.05	570554	HYP	MBFH	1	12720	0.37	0.033	0.17	
297.79	300.84	3.05	570555	HYP	MBFH	1	12960	0.27	0.026	0.17	
300.84	303.89	3.05	570556	HYP	MBFH	1	12620	0.23	0.023	0.10	
303.89	306.93	3.04	570557	HYP	MBFH	1	12500	0.20	0.025	0.10	
306.93	309.98	3.05	570558	HYP	MBFH	1	11780	0.15	0.026	0.10	
309.98	313.03	3.05	570559	HYP	MBFH	1	12680	0.13	0.019	0.07	
313.03	316.69	3.66	570560	HYP	MBFH	1	15600	0.17	0.030	0.10	
316.69	319.13	2.44	570561	HYP	MBFH	1	9160	0.24	0.028	0.10	
319.13	322.17	3.04	570562	HYP	MBFH	7	12350	0.19	0.019	0.10	
322.17	325.22	3.05	570563	HYP	MBFH	7	12000	0.36	0.033	0.17	
325.22	328.27	3.05	570564	HYP	MBFW	7	12340	0.22	0.019	0.14	
328.27	331.32	3.05	570565	HYP	MBFW	7	11360	0.21	0.016	0.17	
331.32	333.76	2.44	570566	HYP	MBFW	7	9800	0.13	0.028	0.10	
333.76	336.80	3.04	570567	HYP	MBFW	7	12240	0.16	0.014	0.14	
336.80	339.85	3.05	570568	HYP	MBFH	7	12580	0.20	0.039	0.17	
339.85	342.90	3.05	570569	HYP	MBFH	7	13260	0.15	0.026	0.14	
342.90	345.34	2.44	570570	HYP	MBFH	7	10300	0.17	0.024	0.27	
345.34	348.08	2.74	570571	HYP	PPDP	7	11700	0.20	0.021	0.27	
348.08	349.61	1.53	570572	HYP	PPDP	7	6500	0.15	0.014	0.14	
349.61	352.65	3.04	570573	HYP	PPDP	7	12860	0.18	0.034	0.17	
352.65	355.40	2.75	570574	HYP	PPDP	7	12540	0.23	0.046	0.27	
355.40	358.60	3.20	570575	HYP	PPDP	7	12520	0.31	0.020	0.45	
358.60	360.27	1.67	570576	HYP	PPDP	7	6360	0.23	0.036	0.21	
360.27	363.02	2.75	570577	HYP	PPDP	7	10160	0.21	0.033	0.17	
363.02	364.85	1.83	570578	HYP	PPDP	7	8720	0.23	0.037	0.27	
364.85	367.89	3.04	570579	HYP	PPDP	7	12400	0.17	0.049	0.17	
367.89	370.94	3.05	570580	HYP	PPDP	7	12920	0.26	0.017	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.99	3.05	570581	HYP	PPDP	7	12460	0.22	0.018	0.21	
373.99	377.04	3.05	570582	HYP	PPDP	7	12260	0.21	0.026	0.17	
377.04	379.17	2.13	570583	HYP	PPDP	7	7140	0.31	0.053	0.14	
379.17	381.30	2.13	570584	HYP	PPDP	7	10020	0.26	0.045	0.21	
381.30	383.13	1.83	570585	HYP	PPDP	7	7560	0.20	0.026	0.17	
383.13	386.18	3.05	570586	HYP	PPDP	7	12360	0.18	0.024	0.17	
386.18	389.23	3.05	570587	HYP	PPDP	7	13060	0.27	0.026	0.31	
389.23	392.28	3.05	570588	HYP	PPDP	7	12640	0.40	0.099	0.24	
392.28	395.33	3.05	570589	HYP	PPDP	5	14020	0.44	0.038	0.31	
395.33	398.37	3.04	570590	HYP	PPDP	5	10860	0.75	0.157	0.27	
398.37	401.42	3.05	570591	HYP	PPDP	5	16420	0.64	0.064	0.24	
401.42	404.47	3.05	570592	HYP	MBFH	5	13060	0.30	0.104	0.24	
404.47	407.52	3.05	570593	HYP	MBFW	5	13260	0.30	0.068	0.21	
407.52	410.57	3.05	570594	HYP	MBFW	5	13200	0.14	0.052	0.17	
410.57	413.61	3.04	570595	HYP	MBFW	7	13220	0.13	0.036	0.14	
413.61	416.66	3.05	570596	HYP	PPDP	7	12800	0.17	0.034	0.14	
416.66	419.71	3.05	570597	HYP	PPDP	7	11760	0.20	0.029	0.21	
419.71	422.15	2.44	570598	HYP	PPDP	7	8860	0.22	0.040	0.21	
422.15	425.81	3.66	570599	HYP	MBCH	7	14900	0.25	0.040	0.27	
425.81	428.85	3.04	570600	HYP	MBCH	7	11320	0.17	0.095	0.14	
428.85	431.90	3.05	570601	HYP	MBCH	7	12200	0.16	0.032	0.14	
431.90	434.95	3.05	570602	HYP	MBCH	7	11900	0.15	0.023	0.10	
434.95	438.00	3.05	570603	HYP	MBCH	7	11160	0.17	0.096	0.07	
438.00	441.05	3.05	570604	HYP	MBCH	7	11200	0.17	0.060	0.17	
441.05	444.09	3.04	570605	HYP	MBNH	7	11440	0.11	0.062	0.07	
444.09	447.14	3.05	570606	HYP	MBCH	7	11760	0.06	0.030	0.03	
447.14	450.19	3.05	570607	HYP	MBCH	7	11070	0.15	0.035	0.07	
450.19	453.24	3.05	570608	HYP	MBCH	7	11860	0.14	0.025	0.17	
453.24	456.29	3.05	570609	HYP	MBCH	7	8100	0.16	0.033	0.14	
456.29	459.33	3.04	570610	HYP	MBCH	7	12290	0.15	0.061	0.10	
459.33	462.38	3.05	570611	HYP	MBCH	7	11380	0.15	0.057	0.14	
462.38	465.43	3.05	570612	HYP	MBCH	7	11460	0.12	0.043	0.07	
465.43	468.48	3.05	570613	HYP	MBCH	7	12600	0.10	0.039	0.10	
468.48	471.53	3.05	570614	HYP	MBCH	7	13360	0.09	0.042	0.07	
471.53	474.57	3.04	570615	HYP	MBCH	7	12600	0.09	0.081	0.10	
474.57	477.62	3.05	570616	HYP	MBCH	7	13400	0.09	0.050	0.17	
477.62	480.67	3.05	570617	HYP	MBCH	7	14100	0.09	0.065	0.10	
480.67	483.72	3.05	570618	HYP	MBCH	7	13320	0.10	0.021	0.07	
483.72	486.77	3.05	570619	HYP	MBCH	7	13120	0.15	0.022	0.10	
486.77	489.81	3.04	570620	HYP	MBCH	7	13140	0.14	0.032	0.07	
489.81	492.86	3.05	570621	HYP	MBCH	7	13680	0.11	0.057	0.10	
492.86	495.91	3.05	570622	HYP	MBCH	7	13940	0.11	0.062	0.07	
495.91	498.96	3.05	570623	HYP	MBCH	7	13120	0.07	0.047	0.07	
498.96	502.01	3.05	570624	HYP	MBCH	7	14320	0.10	0.046	0.10	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
502.01	505.05	3.04	570625	HYP	MBCH	7	12920	0.13	0.053	0.07	
505.05	508.10	3.05	570626	HYP	MBCH	7	12900	0.15	0.080	0.07	
508.10	511.14	3.04	570627	HYP	PPDP	7	13000	0.18	0.074	0.17	
511.14	514.20	3.06	570628	HYP	PPDP	7	12900	0.21	0.048	0.14	
514.20	517.25	3.05	570629	HYP	PPDP	7	13450	0.30	0.025	0.17	
517.25	520.29	3.04	570630	HYP	PPDP	7	12900	0.15	0.050	0.14	
520.29	523.34	3.05	570631	HYP	PPDB	7	13750	0.41	0.040	0.24	
523.34	526.39	3.05	570632	HYP	MBCP	7	12900	0.34	0.071	0.31	
526.39	529.44	3.05	570633	HYP	MBCP	7	12800	0.32	0.041	0.31	
529.44	532.49	3.05	570634	HYP	MBCP	7	12960	0.26	0.051	0.10	
532.49	535.53	3.04	570635	HYP	MBCP	7	13520	0.22	0.060	0.14	
535.53	538.58	3.05	570636	HYP	MBCP	7	12200	0.25	0.045	0.17	
538.58	541.32	2.74	570637	HYP	MBCP	7	11800	0.31	0.060	0.14	
541.32	544.53	3.21	570638	HYP	MBCP	7	12980	0.18	0.138	0.10	
544.53	547.57	3.04	570639	HYP	MBCP	7	12740	0.23	0.086	0.14	
547.57	550.77	3.20	570640	HYP	MBCP	7	11740	0.28	0.079	0.10	
550.77	553.82	3.05	570641	HYP	MBCP	7	13220	0.27	0.049	0.10	
553.82	556.87	3.05	570642	HYP	MBCP	7	12820	0.13	0.054	0.10	
556.87	559.92	3.05	570643	HYP	MBCP	7	12880	0.19	0.030	0.10	
559.92	562.97	3.05	570644	HYP	MBCP	7	12180	0.07	0.058	0.07	
562.97	566.01	3.04	570645	HYP	MBCP	7	12720	0.11	0.089	0.07	
566.01	569.06	3.05	570646	HYP	MBCP	7	12500	0.12	0.030	0.03	
569.06	572.11	3.05	570647	HYP	MBCP	7	12800	0.07	0.030	<0.03	
572.11	575.16	3.05	570648	HYP	MBCP	7	11280	0.10	0.100	<0.03	
575.16	END OF HOLE										

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Hole Number	93-139	Total Depth	742.80 m		
Northing	254,785.84	Casing Depth	3.05 m		Left In
Easting	111,270.21	Survey Data	Azimuth	Dip	Instrument
Elevation	1308.38 m	Collar		-90.0°	
Core Size	HQ	322.17 m	320°	-89.5°	Sperry Sun
Drilling Started	August 22, 1992/June 9, 1993	471.53 m	315°	-89.2°	Sperry Sun
Drilling Finished	August 27, 1992/June 20, 1993	623.93 m	320°	-89.0°	Sperry Sun
Logged by	T. Becker				

Purpose/Target: Delineation hole; extending Hole 92-139 (274.62 m).

Comments: Hole intersected three major rock types (LTXH, PPDK and WRGD), cut by a breccia zone (MBNX) and minor dykes (LTXH and PPDB).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	6.10	2.44	H528682	CAP	BRXT	5	9380	0.010	0.029	0.34	1.7
6.10	9.30	3.20	H528683	CAP	BRXT	5	11280	0.020	0.031	0.14	0.4
9.30	12.80	3.50	H528684	CAP	BRXT	5	9660	0.020	0.034	0.10	0.7
12.80	15.85	3.05	H528685	CAP	BRXT	5	11620	0.020	0.036	0.14	0.3
15.85	18.90	3.05	H528686	CAP	BRXT	5	10680	0.020	0.046	0.55	1.5
18.90	21.94	3.04	H528687	CAP	BRXT	6	10520	0.020	0.048	0.72	1.6
21.94	24.99	3.05	H528688	CAP	BRXT	5	10120	0.010	0.037	0.24	1.3
24.99	28.04	3.05	H528689	CAP	BRXT	5	11780	0.010	0.036	0.34	1.5
28.04	32.61	4.57	H528690	CAP	BRXT	5	16860	0.020	0.029	0.96	3.7
32.61	35.66	3.05	H528691	CAP	BRXT	5	12080	0.020	0.025	0.31	2.1
35.66	38.71	3.05	H528692	CAP	BRXT	5	11340	0.010	0.025	0.07	0.8
38.71	41.45	2.74	H528693	CAP	BRXT	5	10220	0.020	0.023	0.21	1.6
41.45	44.80	3.35	H528694	CAP	BRXT	5	11560	0.020	0.035	0.17	1.9
44.80	47.85	3.05	H528695	CAP	BRXT	5	10880	0.020	0.052	0.41	3.1
47.85	50.90	3.05	H528696	CAP	BRXT	5	10860	0.020	0.053	0.68	3.8
50.90	55.17	4.27	H528697	CAP	BRXT	5	16800	0.010	0.070	0.65	3.1
55.17	58.22	3.05	H528698	CAP	BRXT	5	9540	0.010	0.059	0.99	7.2
58.22	62.18	3.96	H528699	CAP	BRXT	5	13380	0.010	0.045	1.23	5.2
62.18	65.59	3.41	H528700	CAP	BRXT	5	8000	0.010	0.044	0.62	3.6
65.59	69.19	3.60	H528701	CAP	BRXT	5	9300	0.010	0.068	0.38	2.6
69.19	72.24	3.05	H528702	CAP	BRXT	5	3940	0.020	0.067	1.06	6.1
72.24	75.29	3.05	H528703	CAP	BRXT	5	11660	0.020	0.088	1.44	5.6
75.29	80.16	4.87	H528704	CAP	BRXT	5	16440	0.020	0.116	1.58	6.7
80.16	84.12	3.96	H528705	CAP	BRXT	5	12540	0.010	0.079	0.41	2.1
84.12	87.48	3.36	H528706	CAP	BRXT	5	8520	0.020	0.142	0.31	6.2
87.48	90.52	3.04	H528707	CAP	BRXT	5	7500	0.010	0.070	0.27	3.7
90.52	93.57	3.05	H528708	CAP	BRXT	5	11320	0.010	0.016	0.17	1.1
93.57	96.62	3.05	H528709	CAP	BRXT	5	10440	0.010	0.053	0.17	1.9
96.62	99.66	3.04	H528710	CAP	BRXT	5	12220	0.010	0.049	0.27	1.4
99.66	103.63	3.97	H528711	CAP	BRXT	5	15260	0.010	0.032	0.38	1.9
103.63	106.98	3.35	H528712	CAP	BRXT	5	12300	0.010	0.070	0.27	1.2
106.98	110.34	3.36	H528713	CAP	BRXT	5	13080	0.020	0.052	0.41	2.0
110.34	113.38	3.04	H528714	CAP	BRXT	5	11980	0.020	0.045	0.38	2.3

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
113.38	116.43	3.05	H528715	CAP	BRXT	5	11320	0.020	0.025	0.21	1.3
116.43	119.48	3.05	H528716	CAP	BRXT	5	11820	0.020	0.067	0.31	2.2
119.48	122.53	3.05	H528717	CAP	BRXT	5	11340	0.040	0.144	0.31	1.6
122.53	125.58	3.05	H528718	CAP	BRXT	5	11900	0.020	0.220	0.48	1.1
125.58	128.62	3.04	H528719	CAP	BRXT	5	12240	0.010	0.062	0.24	0.9
128.62	131.67	3.05	H528720	CAP	BRXT	5	9120	0.020	0.278	0.21	1.7
131.67	134.72	3.05	H528721	CAP	BRXT	5	9580	0.020	0.166	0.45	3.1
134.72	137.76	3.04	H528722	CAP	BRXT	5	11260	0.010	0.115	0.21	2.8
137.76	140.81	3.05	H528723	CAP	BRXT	5	11900	0.120	0.067	0.27	3.4
140.81	143.86	3.05	H528724	SUS	BRXT	5	12180	0.310	0.129	0.41	2.6
143.86	146.91	3.05	H528725	SUS	BRXT	5	12460	0.590	0.148	1.78	6.9
146.91	149.96	3.05	H528726	SUS	BRXT	5	13260	0.330	0.147	1.40	9.0
149.96	153.01	3.05	H528727	SUS	BRXT	5	13540	1.130	0.079	5.07	16.6
153.01	156.06	3.05	H528728	SUS	BRXT	5	13580	0.390	0.053	1.64	6.5
156.06	159.10	3.04	H528729	SUS	BRXT	5	13220	0.290	0.115	1.23	4.3
159.10	161.85	2.75	H528730	SUS	BRXT	5	11540	0.250	0.071	0.86	5.0
161.85	164.90	3.05	H528731	SUS	BRXT	5	13220	0.230	0.051	0.31	3.3
164.90	168.10	3.20	H528732	SUS	BRXT	5	13420	0.220	0.151	0.41	2.1
168.10	171.30	3.20	H528733	SUS	BRXT	5	13860	0.370	0.141	1.20	4.7
171.30	174.34	3.04	H528734	SUS	BRXT	5	13720	0.240	0.195	0.14	1.2
174.34	177.39	3.05	H528735	SUS	BRXT	5	13580	0.110	0.148	0.17	1.0
177.39	180.44	3.05	H528736	SUS	BRXT	5	13960	0.220	0.150	0.24	2.6
180.44	184.71	4.27	H528737	SUS	BRXT	5	18180	0.110	0.167	0.07	1.6
184.71	187.91	3.20	H528738	SUS	BRXT	5	13040	0.350	0.154	0.34	3.3
187.91	191.11	3.20	H528739	SUS	BRXT	5	13400	0.140	0.152	0.14	2.2
191.11	194.16	3.05	H528740	SUS	BRXT	5	11900	0.220	0.158	0.17	2.2
194.16	197.20	3.04	H528741	SUS	BRXT	5	9300	0.770	0.130	0.21	1.8
197.20	200.25	3.05	H528742	SUS	BRXT	5	11680	0.180	0.095	0.17	3.2
200.25	204.37	4.12	H528743	SUS	BRXT	5	18960	0.240	0.158	0.24	2.5
204.37	207.72	3.35	H528744	SUS	BRXT	5	13140	0.120	0.129	0.95	2.6
207.72	210.92	3.20	H528745	SUS	BRXT	5	12220	0.510	0.050	0.24	2.7
210.92	212.45	1.53	H528746	SUS	BRXT	5	6300	0.540	0.097	0.41	5.7
212.45	215.49	3.04	H528747	SUS	BRXT	5	13240	0.640	0.112	0.45	5.9
215.49	218.54	3.05	H528748	SUS	BRXT	5	12940	0.410	0.154	0.34	3.5
218.54	221.59	3.05	H528749	SUS	BRXT	5	13380	0.420	0.204	0.17	4.3
221.59	224.64	3.05	H528750	SUS	BRXT	5	11640	0.290	0.130	0.41	2.6
224.64	227.69	3.05	H528751	SUS	BRXT	5	13140	0.170	0.135	0.31	3.4
227.69	230.73	3.04	H528752	SUS	BRXT	5	12860	0.290	0.147	0.34	4.5
230.73	233.78	3.05	H528753	SUS	BRXT	5	13400	0.760	0.117	0.41	2.8
233.78	236.83	3.05	H528754	SUS	BRXT	5	12280	0.370	0.128	0.41	3.1
236.83	239.88	3.05	H528755	SUS	BRXT	5	12460	0.390	0.202	0.79	3.3
239.88	242.93	3.05	H528756	SUS	BRXT	5	13080	0.310	0.125	0.34	4.1
242.93	245.97	3.04	H528757	SUS	BRXT	5	13200	0.320	0.145	0.41	4.4
245.97	249.02	3.05	H528758	SUS	BRXT	5	12100	0.290	0.182	0.21	3.8

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
249.02	252.07	3.05	H528759	SUS	BRXT	5	12280	0.270	0.188	0.27	3.6
252.07	255.12	3.05	H528760	SUS	BRXT	5	11840	0.300	0.213	0.27	4.2
255.12	258.17	3.05	H528761	SUS	BRXT	5	12380	0.330	0.203	0.31	4.3
258.17	261.21	3.04	H528762	SUS	BRXT	5	13100	0.280	0.206	0.31	4.6
261.21	264.26	3.05	H528763	SUS	BRXT	5	11420	0.210	0.275	0.31	3.2
264.26	267.31	3.05	H528764	SUS	BRXT	5	10760	0.500	0.180	0.34	6.0
267.31	270.36	3.05	H528765	HYP	BRXT	5	13000	0.140	0.193	0.31	1.6
270.36	274.62	4.26	H528766	HYP	BRXT	5	15460	0.150	0.202	0.21	2.3
274.62	276.45	1.83	570376	HYP	LTXH	5	5780	0.20	0.088	0.34	
276.45	279.50	3.05	570377	HYP	LTXH	5	12100	0.25	0.162	0.48	
279.50	282.55	3.05	570378	HYP	LTXH	5	14120	0.18	0.031	0.31	
282.55	285.60	3.05	570379	HYP	LTXH	4	12440	0.16	0.048	0.21	
285.60	288.65	3.05	570380	HYP	LTXH	4	11920	0.11	0.144	0.21	
288.65	291.69	3.04	570381	HYP	LTXH	4	11480	0.16	0.100	0.24	
291.69	294.74	3.05	570382	HYP	LTXH	4	12580	0.24	0.034	0.24	
294.74	297.79	3.05	570383	HYP	LTXH	4	11800	0.12	0.144	0.17	
297.79	300.84	3.05	570384	HYP	LTXH	4	11120	0.13	0.234	0.21	
300.84	303.89	3.05	570385	HYP	LTXH	4	11980	0.22	0.174	0.27	
303.89	306.93	3.04	570386	HYP	LTXH	4	11780	0.09	0.170	0.14	
306.93	309.98	3.05	570387	HYP	LTXH	4	11620	0.12	0.224	0.14	
309.98	313.03	3.05	570388	HYP	LTXH	4	12340	0.15	0.141	0.24	
313.03	316.08	3.05	570389	HYP	LTXH	4	11920	0.15	0.123	0.10	
316.08	319.13	3.05	570390	HYP	LTXH	4	12180	0.16	0.142	0.14	
319.13	322.17	3.04	570391	HYP	LTXH	4	11520	0.13	0.112	0.10	
322.17	325.22	3.05	570392	HYP	LTXH	4	12280	0.12	0.072	0.10	
325.22	328.27	3.05	570393	HYP	LTXH	4	12000	0.13	0.069	0.14	
328.27	331.32	3.05	570394	HYP	LTXH	4	12666	0.23	0.139	0.31	
331.32	334.37	3.05	570395	HYP	LTXH	4	12300	0.12	0.031	0.17	
334.37	337.41	3.04	570396	HYP	LTXH	4	11800	0.14	0.231	0.14	
337.41	340.46	3.05	570397	HYP	LTXH	4	11840	0.14	0.228	0.14	
340.46	343.51	3.05	570398	HYP	LTXH	4	12320	0.28	0.069	0.14	
343.51	345.64	2.13	570399	HYP	LTXH	4	6540	0.24	0.091	0.17	
345.64	348.39	2.75	570400	HYP	MBNX	4	8020	0.28	0.025	0.10	
348.39	349.61	1.22	570401	HYP	MBNX	4	5720	0.25	0.026	0.17	
349.61	352.65	3.04	570402	HYP	MBNX	4	11900	0.30	0.056	0.21	
352.65	355.70	3.05	570403	HYP	MBNX	4	10920	0.18	0.021	0.17	
355.70	358.75	3.05	570404	HYP	MBNX	4	11300	0.32	0.041	0.14	
358.75	361.80	3.05	570405	HYP	MBNX	4	12000	0.36	0.018	0.24	
361.80	364.85	3.05	570406	HYP	MBNX	4	9640	0.40	0.056	0.27	
364.85	366.52	1.67	570407	HYP	MBNX	4	5580	0.27	0.030	0.31	
366.52	369.27	2.75	570408	HYP	MBNX	4	9440	0.29	0.069	0.14	
369.27	372.16	2.89	570409	HYP	MBFX	4	10760	0.25	0.162	0.24	
372.16	373.99	1.83	570410	HYP	MBFX	4	6600	0.17	0.058	0.10	
373.99	377.04	3.05	570411	HYP	MBFX	4	12280	0.18	0.085	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.04	379.17	2.13	570412	HYP	LTXH	5	6860	0.20	0.055	0.21	
379.17	382.22	3.05	570413	HYP	MBNX	4	12260	0.31	0.037	0.17	
382.22	386.18	3.96	570414	HYP	MBNX	4	14200	0.20	0.073	0.10	
386.18	389.23	3.05	570415	HYP	MBNX	4	12420	0.19	0.072	0.14	
389.23	392.28	3.05	570416	HYP	MBNX	4	11560	0.15	0.079	0.10	
392.28	395.33	3.05	570417	HYP	MBNX	7	10040	0.15	0.057	0.10	
395.33	398.37	3.04	570418	HYP	MBNX	7	11760	0.19	0.094	0.14	
398.37	400.81	2.44	570419	HYP	MBNX	7	9620	0.12	0.043	0.07	
400.81	403.86	3.05	570420	HYP	MBNX	4	11040	0.15	0.038	0.07	
403.86	406.91	3.05	570421	HYP	MBNX	4	12220	0.17	0.053	0.07	
406.91	410.57	3.66	570422	HYP	LTXH	4	16340	0.16	0.016	<0.01	
410.57	413.61	3.04	570423	HYP	LTXH	4	13260	0.07	0.008	<0.01	
413.61	416.66	3.05	570424	HYP	LTXH	4	12560	0.13	0.009	0.14	
416.66	419.71	3.05	570425	HYP	LTXH	4	12340	0.08	0.030	0.14	
419.71	422.76	3.05	570426	HYP	LTXH	4	12440	0.10	0.009	0.14	
422.76	425.81	3.05	570427	HYP	LTXH	4	12660	0.13	0.035	0.10	
425.81	428.85	3.04	570428	HYP	LTXH	4	12060	0.11	0.023	0.10	
428.85	431.90	3.05	570429	HYP	LTXH	4	12440	0.16	0.035	0.14	
431.90	434.95	3.05	570430	HYP	LTXH	5	12480	0.02	0.013	<0.01	
434.95	438.00	3.05	570431	HYP	LTXH	5	11920	0.04	0.021	0.03	
438.00	441.05	3.05	570432	HYP	LTXH	5	11100	0.10	0.037	0.10	
441.05	444.09	3.04	570433	HYP	LTXH	5	12120	0.03	0.029	0.03	
444.09	447.14	3.05	570434	HYP	LTXH	5	11380	0.11	0.008	0.14	
447.14	450.19	3.05	570435	HYP	LTXH	5	11640	0.07	0.008	0.07	
450.19	453.24	3.05	570436	HYP	LTXH	5	10420	0.13	0.006	0.07	
453.24	456.29	3.05	570437	HYP	LTXH	5	11400	0.09	0.005	0.07	
456.29	459.33	3.04	570438	HYP	LTXH	5	11000	0.11	0.002	0.07	
459.33	462.38	3.05	570439	HYP	LTXH	5	11560	0.10	0.003	0.10	
462.38	465.43	3.05	570440	HYP	LTXH	5	10860	0.17	0.005	0.10	
465.43	468.48	3.05	570441	HYP	LTXH	5	12560	0.04	0.005	0.03	
468.48	471.53	3.05	570442	HYP	LTXH	5	12270	0.01	0.008	0.07	
471.53	474.57	3.04	570443	HYP	LTXH	5	10860	0.05	0.018	<0.01	
474.57	477.62	3.05	570444	HYP	LTXH	5	12480	0.11	0.054	0.07	
477.62	480.67	3.05	570445	HYP	LTXH	5	12280	0.22	0.064	0.34	
480.67	483.72	3.05	570446	HYP	LTXH	5	13020	0.13	0.081	0.07	
483.72	486.77	3.05	570447	HYP	LTXH	5	12360	0.29	0.048	0.10	
486.77	489.81	3.04	570448	HYP	PPDK	4	13400	0.60	0.066	0.27	
489.81	492.86	3.05	570449	HYP	PPDK	4	11140	0.39	0.045	0.17	
492.86	495.91	3.05	570450	HYP	PPDK	5	11360	0.62	0.062	0.38	
495.91	498.96	3.05	570451	HYP	PPDK	4	12740	0.24	0.115	0.17	
498.96	502.01	3.05	570452	HYP	PPDK	4	11400	0.26	0.033	0.14	
502.01	505.05	3.04	570453	HYP	PPDK	4	12120	0.26	0.054	0.17	
505.05	508.10	3.05	570454	HYP	PPDK	4	11560	0.32	0.048	0.17	
508.10	511.15	3.05	570455	HYP	LTXH	5	12800	0.09	0.036	0.07	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
511.15	514.20	3.05	570456	HYP	PPDK	4	11540	0.39	0.208	0.17	
514.20	517.25	3.05	570457	HYP	PPDK	5	12440	0.55	0.054	0.27	
517.25	520.29	3.04	570458	HYP	PPDK	5	10480	0.45	0.077	0.34	
520.29	523.34	3.05	570459	HYP	PPDK	4	12000	0.61	0.030	0.48	
523.34	526.39	3.05	570460	HYP	PPDK	4	10960	0.47	0.032	0.31	
526.39	529.44	3.05	570461	HYP	PPDK	4	10760	0.26	0.052	0.17	
529.44	532.49	3.05	570462	HYP	PPDK	4	11840	0.20	0.021	0.10	
532.49	535.53	3.04	570463	HYP	PPDK	4	11740	0.27	0.027	0.17	
535.53	538.58	3.05	570464	HYP	PPDK	4	11780	0.32	0.084	0.24	
538.58	541.63	3.05	570465	HYP	PPDK	4	10480	0.23	0.065	0.34	
541.63	544.68	3.05	570466	HYP	PPDK	4	11840	0.40	0.024	0.38	
544.68	547.73	3.05	570467	HYP	PPDK	4	10780	0.38	0.096	0.41	
547.73	550.77	3.04	570468	HYP	PPDK	4	12180	0.33	0.059	0.34	
550.77	553.82	3.05	570469	HYP	PPDK	4	12780	0.37	0.055	0.38	
553.82	556.87	3.05	570470	HYP	PPDK	4	12220	0.26	0.053	0.24	
556.87	559.92	3.05	570471	HYP	PPDK	5	12720	0.30	0.076	0.27	
559.92	562.97	3.05	570472	HYP	PPDK	5	11340	0.25	0.037	0.17	
562.97	566.01	3.04	570473	HYP	PPDK	4	12500	0.36	0.061	0.17	
566.01	569.06	3.05	570474	HYP	PPDK	4	12620	0.16	0.079	0.14	
569.06	572.11	3.05	570475	HYP	PPDK	4	12620	0.12	0.070	0.10	
572.11	575.16	3.05	570476	HYP	PPDK	4	12640	0.11	0.077	0.14	
575.16	578.21	3.05	570477	HYP	PPDK	4	12620	0.29	0.044	0.10	
578.21	581.25	3.04	570478	HYP	PPDK	4	12800	0.26	0.088	0.21	
581.25	584.30	3.05	570479	HYP	PPDK	4	11760	0.26	0.065	0.07	
584.30	587.35	3.05	570480	HYP	PPDK	4	12860	0.33	0.067	0.21	
587.35	590.40	3.05	570481	HYP	PPDK	4	15380	0.24	0.071	0.14	
590.40	593.45	3.05	570482	HYP	PPDK	4	15170	0.26	0.039	0.21	
593.45	596.49	3.04	570483	HYP	PPDK	4	15000	0.26	0.030	0.14	
596.49	599.54	3.05	570484	HYP	PPDK	4	15300	0.24	0.022	0.03	
599.54	602.59	3.05	570485	HYP	LTXH	4	15000	0.10	0.013	<0.01	
602.59	605.64	3.05	570486	HYP	PPDB	4	13000	0.20	0.019	0.14	
605.64	608.69	3.05	570487	HYP	PPDB	4	13140	0.21	0.017	0.10	
608.69	611.73	3.04	570488	HYP	PPDB	4	11620	0.23	0.027	0.10	
611.73	614.78	3.05	570489	HYP	WRGD	7	14200	0.20	0.027	0.10	
614.78	617.83	3.05	570490	HYP	WRGD	7	14700	0.19	0.040	0.10	
617.83	620.88	3.05	570491	HYP	WRGD	7	13200	0.21	0.024	0.14	
620.88	623.93	3.05	570492	HYP	WRGD	7	12280	0.29	0.023	0.27	
623.93	626.97	3.04	570493	HYP	WRGD	7	11940	0.23	0.044	0.27	
626.97	630.02	3.05	570494	HYP	WRGD	7	12760	0.25	0.029	0.24	
630.02	633.07	3.05	570495	HYP	WRGD	7	13120	0.19	0.027	0.17	
633.07	636.12	3.05	570496	HYP	WRGD	7	13000	0.19	0.017	0.10	
636.12	639.17	3.05	570497	HYP	WRGD	7	12640	0.23	0.112	0.14	
639.17	642.21	3.04	570498	HYP	WRGD	7	12600	0.16	0.046	0.10	
642.21	645.26	3.05	570499	HYP	WRGD	7	13860	0.18	0.024	0.10	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
645.26	648.31	3.05	570500	HYP	WRGD	7	13960	0.26	0.064	0.14	
648.31	651.36	3.05	570501	HYP	WRGD	7	12740	0.22	0.038	0.10	
651.36	654.41	3.05	570502	HYP	WRGD	7	13080	0.21	0.008	0.14	
654.41	657.45	3.04	570503	HYP	WRGD	7	13000	0.20	0.032	0.03	
657.45	660.50	3.05	570504	HYP	WRGD	7	12440	0.30	0.034	0.24	
660.50	663.55	3.05	570505	HYP	WRGD	7	13180	0.25	0.022	0.14	
663.55	666.60	3.05	570506	HYP	WRGD	7	12540	0.38	0.007	0.34	
666.60	669.65	3.05	570507	HYP	WRGD	7	12820	0.28	0.005	0.27	
669.65	672.69	3.04	570508	HYP	WRGD	7	12880	0.16	0.004	0.10	
672.69	675.74	3.05	570509	HYP	PPDB	7	14200	0.21	0.039	0.10	
675.74	678.79	3.05	570510	HYP	PPDB	7	13720	0.30	0.009	0.17	
678.79	681.84	3.05	570511	HYP	PPDB	7	12900	0.17	0.007	0.10	
681.84	684.89	3.05	570512	HYP	PPDB	7	14740	0.26	0.013	0.21	
684.89	687.93	3.04	570513	HYP	PPDB	7	12920	0.20	0.059	0.17	
687.93	690.98	3.05	570514	HYP	WRGD	7	14720	0.35	0.022	0.27	
690.98	694.03	3.05	570515	HYP	WRGD	7	12080	0.42	0.030	0.27	
694.03	697.08	3.05	570516	HYP	WRGD	7	13440	0.40	0.017	0.27	
697.08	700.13	3.05	570517	HYP	WRGD	7	14060	0.19	0.053	0.10	
700.13	703.17	3.04	570518	HYP	WRGD	7	12780	0.30	0.059	0.38	
703.17	706.22	3.05	570519	HYP	WRGD	7	13860	0.16	0.045	0.10	
706.22	709.27	3.05	570520	HYP	WRGD	7	14580	0.29	0.021	0.41	
709.27	712.32	3.05	570521	HYP	WRGD	7	13060	0.30	0.066	0.17	
712.32	715.37	3.05	570522	HYP	WRGD	7	13160	0.32	0.019	0.21	
715.37	718.41	3.04	570523	HYP	WRGD	7	12860	0.22	0.018	0.07	
718.41	721.46	3.05	570524	HYP	WRGD	7	13620	0.26	0.015	0.21	
721.46	724.51	3.05	570525	HYP	WRGD	7	13880	0.17	0.018	0.07	
724.51	727.56	3.05	570526	HYP	WRGD	7	11940	0.21	0.013	0.21	
727.56	730.30	2.74	570527	HYP	WRGD	7	11340	0.13	0.013	0.07	
730.30	733.35	3.05	570528	HYP	WRGD	7	13000	0.16	0.016	0.07	
733.35	736.55	3.20	570529	HYP	WRGD	7	14220	0.09	0.008	<0.01	
736.55	739.60	3.05	570530	HYP	WRGD	7	14280	0.05	0.020	<0.01	
739.60	742.80	3.20	570531	HYP	WRGD	7	14340	0.12	0.006	0.07	
742.80	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-140		Total Depth	389.23 m		
Northing	254,881.86		Casing Depth	2.44 m		Left In
Easting	111,023.17		Survey Data	Azimuth	Dip	Instrument
Elevation	1339.32 m		Collar		-90.0°	
Core Size	HQ		152.4 m	060°	-89.5°	Sperry Sun
Drilling Started	August 27, 1992/July 16, 1993		304.8 m	250°	-89.5°	Sperry Sun
Drilling Finished	August 31, 1992/July 19, 1993					
Logged by	P. Fischl					
Purpose/Target:	This hole was deepened to test for ore grade mineralization encountered at similar depths in adjacent Holes 93-128 and 93-141.					
Comments:	This deepened section encountered weakly mineralized Patton Porphyry (PPDP), exhibiting mostly weak to moderate potassic alteration.					

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.74	2.74		OVB							
2.74	5.94	3.20	H528767	CAP	BRXT	3	11180	0.100	0.029	0.72	3.1
5.94	9.30	3.36	H528768	CAP	BRXT	3	10560	0.040	0.027	0.96	6.5
9.30	12.65	3.35	H528769	CAP	BRXT	3	10780	0.060	0.021	0.48	7.9
12.65	15.85	3.20	H528770	CAP	BRXT	3	11020	0.080	0.039	0.72	6.5
15.85	18.90	3.05	H528771	CAP	BRXT	3	12260	0.090	0.035	0.55	5.1
18.90	21.94	3.04	H528772	CAP	BRXT	3	10620	0.100	0.029	0.41	2.4
21.94	24.54	2.60	H528773	CAP	BRXT	3	7060	0.110	0.019	0.41	3.4
24.54	26.97	2.43	H528774	SUS	PPXX	3	4520	0.630	0.003	0.07	Tr
26.97	30.33	3.36	H528775	SUS	BRXT	3	13800	0.290	0.027	0.41	1.7
30.33	33.22	2.89	H528776	SUS	BRXT	3	12740	0.470	0.020	0.34	1.7
33.22	35.81	2.59	H528777	SUS	BRXT	3	10300	0.210	0.033	0.38	2.4
35.81	38.56	2.75	H528778	SUS	BRXT	3	12900	0.570	0.056	0.58	1.7
38.56	41.76	3.20	H528779	SUS	BRXT	3	10300	0.300	0.040	0.62	1.4
41.76	44.80	3.04	H528780	SUS	BRXT	3	11520	0.140	0.016	0.58	3.4
44.80	47.85	3.05	H528781	SUS	BRXT	3	12480	0.130	0.033	0.79	3.1
47.85	50.90	3.05	H528782	SUS	BRXT	3	11760	0.160	0.033	0.82	3.8
50.90	54.41	3.51	H528783	SUS	BRXT	7	12480	0.830	0.027	0.92	3.4
54.41	57.00	2.59	H528784	SUS	BRXT	7	11800	0.310	0.042	0.89	3.8
57.00	60.04	3.04	H528785	SUS	BRXT	7	13080	0.340	0.036	0.89	3.1
60.04	63.09	3.05	H528786	SUS	BRXT	7	12180	0.330	0.043	0.65	2.1
63.09	66.14	3.05	H528787	SUS	BRXT	7	13660	0.320	0.030	1.30	3.8
66.14	69.19	3.05	H528788	SUS	BRXT	7	13480	0.330	0.040	0.51	2.4
69.19	73.76	4.57	H528789	SUS	BRXT	7	19020	0.300	0.031	0.65	3.1
73.76	76.50	2.74	H528790	SUS	BRXT	7	7900	0.220	0.055	1.40	5.5
76.50	81.38	4.88	H528791	SUS	BRXT	7	17940	0.690	0.035	0.62	3.1
81.38	84.43	3.05	H528792	SUS	BRXT	7	11920	0.510	0.022	0.62	3.1
84.43	87.48	3.05	H528793	SUS	BRXT	7	11520	0.310	0.023	0.65	2.1
87.48	89.46	1.98	H528794	SUS	BRXT	7	8080	0.330	0.039	0.31	1.7
89.46	92.51	3.05	H528795	CAP	BRXT	7	12020	0.100	0.029	0.62	3.4
92.51	95.40	2.89	H528796	CAP	BRXT	7	11480	0.120	0.037	0.79	2.7
95.40	98.45	3.05	H528797	CAP	BRXT	7	12620	0.150	0.022	1.20	3.4
98.45	103.02	4.57	H528798	CAP	BRXT	7	18140	0.110	0.029	0.75	2.4
103.02	105.76	2.74	H528799	CAP	BRXT	7	10800	0.140	0.050	0.55	2.4

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.76	108.81	3.05	H528800	CAP	BRXT	7	14220	0.140	0.023	0.99	3.4
108.81	111.86	3.05	H528801	CAP	BRXT	7	11940	0.100	0.027	0.68	3.8
111.86	114.91	3.05	H528802	CAP	BRXT	7	12180	0.120	0.041	0.68	4.5
114.91	117.95	3.04	H528803	CAP	BRXT	7	13680	0.100	0.014	0.58	1.7
117.95	121.00	3.05	H528804	CAP	BRXT	7	12040	0.110	0.016	0.45	2.4
121.00	124.05	3.05	H528805	CAP	BRXT	7	13020	0.100	0.049	0.62	2.7
124.05	127.10	3.05	H528806	CAP	BRXT	5	12540	0.120	0.066	0.72	3.1
127.10	130.15	3.05	H528807	CAP	BRXT	5	12660	0.090	0.067	0.62	2.0
130.15	133.20	3.05	H528808	CAP	BRXT	1	12440	0.100	0.059	0.45	2.0
133.20	136.24	3.04	H528809	CAP	BRXT	1	11760	0.100	0.035	0.27	1.9
136.24	139.29	3.05	H528810	CAP	BRXT	1	12600	0.110	0.089	0.48	2.2
139.29	142.34	3.05	H528811	CAP	BRXT	7	11820	0.110	0.031	0.55	1.9
142.34	145.39	3.05	H528812	SUS	BRXT	7	12600	0.240	0.029	0.48	2.2
145.39	147.83	2.44	H528813	SUS	BRXT	7	5580	0.610	0.038	0.51	2.3
147.83	151.48	3.65	H528814	SUS	BRXT	7	12780	0.530	0.043	0.38	1.4
151.48	154.53	3.05	H528815	SUS	BRXT	7	14140	1.170	0.027	0.75	5.3
154.53	157.58	3.05	H528816	SUS	BRXT	5	10340	0.940	0.017	0.58	4.3
157.58	160.63	3.05	H528817	SUS	BRXT	7	13340	0.360	0.024	0.41	1.9
160.63	163.68	3.05	H528818	SUS	BRXT	7	11240	0.300	0.019	0.27	1.5
163.68	166.72	3.04	H528819	HYP	BRXT	7	12260	0.210	0.014	0.17	1.6
166.72	169.62	2.90	H528820	HYP	BRXT	7	10480	0.370	0.024	0.17	1.8
169.62	172.67	3.05	H528821	HYP	BRXT	7	11760	0.220	0.025	0.10	1.1
172.67	175.87	3.20	H528822	HYP	BRXT	7	12640	0.320	0.021	0.21	1.1
175.87	178.92	3.05	H528823	HYP	BRXT	7	11100	0.280	0.019	0.17	1.2
178.92	181.51	2.59	H528824	HYP	BRXT	5	9380	0.440	0.017	0.14	1.3
181.51	184.25	2.74	H528825	HYP	BRXT	5	9700	0.300	0.012	0.17	1.3
184.25	188.36	4.11	H528826	HYP	BRXT	1	12780	0.320	0.007	0.10	0.8
188.36	190.19	1.83	H528827	HYP	PPXX	1	6500	0.410	0.009	0.10	0.8
190.19	193.24	3.05	H528828	HYP	PPXX	5	11580	0.200	0.016	0.17	1.3
193.24	196.44	3.20	H528829	HYP	PPXX	1	11260	0.100	0.016	0.17	1.0
196.44	199.64	3.20	H528830	HYP	PPXX	4	12800	0.220	0.011	0.21	2.2
199.64	202.69	3.05	H528831	HYP	PPXX	2	12260	0.170	0.018	0.24	1.7
202.69	205.13	2.44	H528832	HYP	PPXX	1	9220	0.200	0.012	0.21	1.5
205.13	208.17	3.04	H528833	HYP	PPXX	1	12360	0.110	0.011	0.17	1.1
208.17	211.23	3.06	H528834	HYP	PPXX	1	12300	0.200	0.040	0.31	2.1
211.23	213.66	2.43	H528835	HYP	PPXX	1	9740	0.080	0.019	0.14	0.8
213.66	215.49	1.83	H528836	HYP	PPXX	1	6940	0.120	0.031	0.24	0.9
215.49	218.54	3.05	H528837	HYP	PPXX	1	12180	0.050	0.015	1.13	Tr
218.54	221.28	2.74	H528838	HYP	PPXX	1	10580	0.060	0.017	1.20	Tr
221.28	224.33	3.05	H528839	HYP	PPXX	5	12620	0.080	0.023	0.55	0.3
224.33	227.68	3.35	H528840	HYP	PPXX	1	14500	0.060	0.016	0.27	Tr
227.68	230.73	3.05	H528841	HYP	PPXX	1	12580	0.060	0.040	0.10	0.4
230.73	233.78	3.05	H528842	HYP	PPXX	1	13080	0.090	0.016	0.10	0.7
233.78	236.83	3.05	H528843	HYP	PPXX	1	12440	0.220	0.027	0.17	1.1

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	H528844	HYP	PPXX	1	10920	0.220	0.017	0.24	1.8
239.88	242.62	2.74	H528845	HYP	PPXX	1	10060	0.150	0.020	0.14	1.2
242.62	245.82	3.20	H528846	HYP	PPXX	1	7980	0.230	0.022	0.27	1.1
245.82	249.94	4.12	H528847	HYP	PPXX	1	15300	0.210	0.014	0.27	0.7
249.94	252.53	2.59	H528848	HYP	PPXX	1	10840	0.310	0.028	0.45	2.2
252.53	255.57	3.04	H528849	HYP	PPXX	1	13320	0.200	0.025	0.31	1.1
255.57	259.20	3.63	H528850	HYP	PPXX	1	15280	0.220	0.026	0.41	1.0
259.20	259.69	0.49	569383	HYP	PPDP	6/5	2160	0.24	0.026	0.41	
259.69	262.43	2.74	569384	HYP	PPDP	6/5	7860	0.51	0.047	0.82	
262.43	264.26	1.83	569385	HYP	PPDP	6/5	6340	0.38	0.053	0.51	
264.26	267.31	3.05	569386	HYP	PPDP	6/5	11200	0.23	0.030	0.31	
267.31	270.36	3.05	569387	HYP	PPDP	6/5	12380	0.21	0.026	0.27	
270.36	272.49	2.13	569388	HYP	PPDP	6/5	7620	0.15	0.029	0.24	
272.49	274.62	2.13	569389	HYP	PPDP	6/5	8880	0.12	0.050	0.14	
274.62	276.45	1.83	569390	HYP	PPDP	6/5	6000	0.18	0.046	0.21	
276.45	279.50	3.05	569391	HYP	PPDP	6/5	13520	0.13	0.040	0.14	
279.50	282.55	3.05	569392	HYP	PPDP	2/5	11320	0.22	0.037	0.27	
282.55	285.60	3.05	569393	HYP	PPDP	6/5	14260	0.10	0.027	0.07	
285.60	288.65	3.05	569394	HYP	PPDP	6/5	10160	0.18	0.030	0.27	
288.65	291.69	3.04	569395	HYP	PPDP	6/5	15360	0.14	0.040	0.14	
291.69	294.74	3.05	569396	HYP	PPDP	6/5	12420	0.23	0.206	0.34	
294.74	297.79	3.05	569397	HYP	PPDP	6/5	13580	0.16	0.054	0.21	
297.79	300.84	3.05	569398	HYP	PPDP	6/5	12580	0.12	0.046	0.10	
300.84	303.89	3.05	569399	HYP	PPDP	7	12880	0.08	0.047	<0.03	
303.89	306.93	3.04	569400	HYP	PPDP	7/5	13760	0.11	0.044	0.07	
306.93	309.98	3.05	569401	HYP	PPDP	7/5	13260	0.14	0.053	0.21	
309.98	313.03	3.05	569402	HYP	PPDP	7/5	12460	0.07	0.032	0.03	
313.03	316.08	3.05	569403	HYP	PPDP	7/5	12600	0.10	0.093	0.10	
316.08	319.13	3.05	569404	HYP	PPDP	7/5	12280	0.05	0.052	<0.03	
319.13	322.17	3.04	569405	HYP	PPDP	7/3	11640	0.06	0.058	<0.03	
322.17	325.22	3.05	569406	HYP	PPDP	7/3	10800	0.07	0.047	<0.03	
325.22	328.27	3.05	569407	HYP	PPDP	7/3	13460	0.10	0.048	0.03	
328.27	331.32	3.05	569408	HYP	PPDP	7/3	12520	0.12	0.046	0.10	
331.32	333.75	2.43	569409	HYP	PPDP	7/3	10320	0.06	0.037	<0.03	
333.75	335.58	1.83	569410	HYP	PPDP	7/3	7160	0.06	0.050	0.07	
335.58	338.32	2.74	569411	HYP	PPDP	7/3	5540	0.04	0.047	0.07	
338.32	340.16	1.84	569412	HYP	PPDP	7/3	6100	0.12	0.040	0.14	
340.16	343.51	3.35	569413	HYP	PPDP	7/3	12940	0.09	0.041	0.07	
343.51	345.64	2.13	569414	HYP	PPDP	7/3	5840	0.07	0.043	0.10	
345.64	347.47	1.83	569415	HYP	PPDP	7/3	5000	0.11	0.046	0.14	
347.47	349.30	1.83	569416	HYP	PPDP	7/3	6980	0.15	0.049	0.07	
349.30	352.04	2.74	569417	HYP	PPDP	7/3	8840	0.09	0.038	0.10	
352.04	355.09	3.05	569418	HYP	PPDP	6/5	11840	0.10	0.032	0.07	
355.09	358.14	3.05	569419	HYP	PPDP	6/5	12620	0.11	0.028	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-140

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
358.14	361.79	3.65	569420	HYP	PPDP	7/5	14340	0.08	0.070	0.10	
361.79	364.84	3.05	569421	HYP	PPDP	7/5	10580	0.09	0.060	0.10	
364.84	367.89	3.05	569422	HYP	PPDP	7/5	13040	0.13	0.066	0.17	
367.89	370.94	3.05	569423	HYP	PPDP	7/5	13600	0.06	0.040	0.07	
370.94	373.99	3.05	569424	HYP	PPDP	7/5	13220	0.06	0.075	0.10	
373.99	377.04	3.05	569425	HYP	PPDP	7/5	13440	0.15	0.068	0.10	
377.04	380.08	3.04	569426	HYP	PPDP	7/5	13340	0.13	0.079	0.14	
380.08	383.13	3.05	569427	HYP	PPDP	7/5	13160	0.10	0.156	0.17	
383.13	386.18	3.05	569428	HYP	PPDP	7/5	13520	0.15	0.174	0.17	
386.18	389.23	3.05	569429	HYP	PPDP	7/5	12280	0.17	0.155	0.14	
389.23	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-141	Total Depth	498.96 m		
Northing	254,960.13	Casing Depth			Left Out
Easting	110,956.22	Survey Data	Azimuth	Dip	Instrument
Elevation	1306.93 m	Collar		-90.0°	
Core Size	HQ	166.77 m	305°	89.5°	Sperry Sun
Drilling Started	September 1, 1992/May 18, 1993	331.25 m	340°	89.5°	Sperry Sun
Drilling Finished	September 4, 1992/May 25, 1993	441.77 m	260°	89.5°	Sperry Sun
Logged by	M.P. Phillips				

Purpose/Target: Deepen 92-141.

Comments: The drill hole cut strong potassic altered homolithic and heterolithic breccia near the contact of older Patton Porphyry plug(?) Copper about 0.2% at top and weakens to bottom.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.65	3.65		OVB							
3.65	6.10	2.45	H528851	CAP	BRXT	3	9340	0.060	0.015	0.34	3.2
6.10	9.45	3.35	H528852	CAP	BRXT	3	12160	0.040	0.022	0.34	3.7
9.45	12.50	3.05	H528853	CAP	BRXT	3	11420	0.050	0.018	0.41	3.7
12.50	15.24	2.74	H528854	CAP	BRXT	3	9940	0.070	0.021	0.48	2.5
15.24	18.57	3.33	H528855	CAP	BRXT	3	12140	0.060	0.026	0.45	2.2
18.57	21.64	3.07	H528856	CAP	BRXT	3	11860	0.050	0.024	0.68	3.7
21.64	24.99	3.35	H528857	CAP	BRXT	3	13500	0.050	0.024	1.16	5.5
24.99	28.95	3.96	H528858	CAP	BRXT	3	13720	0.040	0.031	0.96	5.0
28.95	32.61	3.66	H528859	CAP	BRXT	3	14320	0.060	0.036	0.34	2.8
32.61	35.66	3.05	H528860	CAP	BRXT	3	9080	0.060	0.013	0.24	2.2
35.66	38.71	3.05	H528861	CAP	BRXT	3	10300	0.060	0.018	0.17	1.7
38.71	41.75	3.04	H528862	CAP	BRXT	3	11520	0.090	0.016	0.21	2.5
41.75	44.80	3.05	H528863	CAP	BRXT	3	11020	0.060	0.013	0.21	3.3
44.80	47.85	3.05	H528864	CAP	PPXX	1	10620	0.160	0.013	0.38	2.8
47.85	50.90	3.05	H528865	CAP	PPXX	1	11080	0.130	0.020	0.34	4.4
50.90	53.03	2.13	H528866	TRN	PPXX	5	8840	0.310	0.007	0.82	5.8
53.03	55.47	2.44	H528867	TRN	PPXX	1	10660	0.260	0.013	0.82	4.2
55.47	58.52	3.05	H528868	TRN	PPXX	1	12260	0.480	0.008	0.55	4.0
58.52	61.57	3.05	H528869	TRN	PPXX	1	11240	0.170	0.013	0.55	3.2
61.57	64.61	3.04	H528870	TRN	PPXX	1	10520	0.180	0.042	0.48	4.9
64.61	67.66	3.05	H528871	TRN	PPXX	1	10480	0.130	0.038	0.24	2.4
67.66	70.71	3.05	H528872	TRN	PPXX	1	12520	0.210	0.062	0.38	4.4
70.71	73.76	3.05	H528873	TRN	BRXT	3	10940	0.140	0.041	0.38	14.9
73.76	76.81	3.05	H528874	TRN	BRXT	3	10540	0.130	0.030	0.34	6.8
76.81	79.86	3.05	H528875	TRN	BRXT	3	10780	0.120	0.033	0.24	4.6
79.86	82.91	3.05	H528876	TRN	BRXT	3	10860	0.120	0.038	0.27	6.5
82.91	88.70	5.79	H528877	TRN	BRXT	1	21680	0.290	0.017	0.21	2.4
88.70	91.90	3.20	H528878	TRN	BRXT	1	11880	0.280	0.020	0.31	3.2
91.90	95.40	3.50	H528879	TRN	BRXT	1	11740	0.090	0.028	0.27	3.5
95.40	98.45	3.05	H528880	TRN	BRXT	1	10900	0.120	0.018	0.27	2.4
98.45	101.50	3.05	H528881	TRN	BRXT	1	12100	0.160	0.026	0.27	1.8
101.50	104.55	3.05	H528882	HYP	BRXT	1	11380	0.190	0.027	0.27	2.2
104.55	108.81	4.26	H528883	HYP	PPXX	1	16540	0.210	0.017	0.21	1.7

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.81	111.86	3.05	H528884	HYP	PPXX	7	12380	0.290	0.058	0.31	2.2
111.86	114.91	3.05	H528885	HYP	PPXX	7	11960	0.230	0.049	0.24	2.2
114.91	117.96	3.05	H528886	HYP	PPXX	7	11720	0.300	0.060	0.38	3.0
117.96	121.01	3.05	H528887	HYP	PPXX	7	11080	0.470	0.028	0.58	5.2
121.01	124.05	3.04	H528888	HYP	PPXX	7	12460	0.490	0.068	0.48	5.8
124.05	127.10	3.05	H528889	HYP	PPXX	7	11820	0.290	0.037	0.51	3.2
127.10	130.15	3.05	H528890	HYP	PPXX	7	11800	0.470	0.038	0.68	6.1
130.15	133.20	3.05	H528891	HYP	PPXX	7	11100	0.320	0.014	0.24	1.7
133.20	136.25	3.05	H528892	HYP	PPXX	7	12920	0.870	0.045	0.51	11.3
136.25	139.29	3.04	H528893	HYP	PPXX	7	10600	0.210	0.016	0.14	0.9
139.29	142.04	2.75	H528894	HYP	PPXX	7	9260	0.300	0.032	0.14	0.7
142.04	144.48	2.44	H528895	HYP	PPXX	7	9360	0.130	0.011	0.21	0.7
144.48	148.44	3.96	H528896	HYP	PPXX	7	12480	0.200	0.013	0.14	0.9
148.44	153.01	4.57	H528897	HYP	PPXX	7	17480	0.100	0.019	0.17	1.0
153.01	156.67	3.66	H528898	HYP	PPXX	7	12400	0.190	0.013	0.21	0.9
156.67	159.41	2.74	H528899	HYP	PPXX	1	9500	0.130	0.008	0.21	0.5
159.41	163.22	3.81	H528900	HYP	PPXX	1	16180	0.180	0.020	0.72	1.2
163.22	165.20	1.98	H528901	HYP	PPXX	1	7420	0.150	0.019	0.21	1.1
165.20	169.16	3.96	H528902	HYP	PPXX	1	15320	0.170	0.012	0.27	1.9
169.16	171.91	2.75	H528903	HYP	PPXX	1	9880	0.160	0.010	0.34	2.5
171.91	174.95	3.04	H528904	HYP	PPXX	1	12040	0.140	0.019	0.24	2.1
174.95	178.00	3.05	H528905	HYP	PPXX	1	12460	0.170	0.024	0.34	2.6
178.00	181.05	3.05	H528906	HYP	PPXX	1	12000	0.170	0.027	0.41	3.1
181.05	184.40	3.35	H528907	HYP	PPXX	1	11980	0.180	0.019	0.31	2.6
184.40	187.15	2.75	H528908	HYP	PPXX	1	11180	0.330	0.018	0.55	3.7
187.15	191.11	3.96	H528909	HYP	PPXX	5	13960	0.240	0.021	0.45	2.7
191.11	194.16	3.05	H528910	HYP	PPXX	5	11120	0.240	0.032	0.38	2.9
194.16	197.20	3.04	H528911	HYP	PPXX	5	10900	0.190	0.024	0.34	2.9
197.20	200.25	3.05	H528912	HYP	PPXX	5	10980	0.210	0.038	0.45	5.4
200.25	203.00	2.75	H528913	HYP	PPXX	5	10160	0.200	0.032	0.38	2.8
203.00	205.74	2.74	H528914	HYP	PPXX	1	12140	0.260	0.043	0.34	1.9
205.74	209.40	3.66	H528915	HYP	PPXX	7	12780	0.140	0.043	0.21	0.8
209.40	212.44	3.04	H528916	HYP	PPXX	1	10560	0.200	0.029	0.27	1.4
212.44	215.49	3.05	H528917	HYP	PPXX	1	13600	0.220	0.063	0.34	2.7
215.49	218.54	3.05	H528918	HYP	PPXX	1	12560	0.240	0.035	0.55	6.5
218.54	221.59	3.05	H528919	HYP	PPXX	5	13260	0.200	0.051	0.27	3.8
221.59	224.64	3.05	H528920	HYP	PPXX	5	11620	0.200	0.038	0.24	2.3
224.64	227.69	3.05	H528921	HYP	PPXX	5	12500	0.250	0.043	0.34	3.0
227.69	230.73	3.04	H528922	HYP	PPXX	5	11040	0.150	0.023	0.21	3.3
230.73	233.48	2.75	H528923	HYP	PPXX	5	13200	0.160	0.025	0.27	6.3
233.48	236.52	3.04	H528924	HYP	PPXX	5	13120	0.120	0.024	0.17	2.2
236.52	239.73	3.21	H528925	HYP	PPXX	5	12760	0.320	0.056	0.38	3.9
239.73	243.84	4.11	H528926	HYP	PPXX	5	16460	0.240	0.057	0.31	2.3
243.84	245.67	1.83	570057	HYP	QXPX	7	4660	0.12	0.015	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
245.67	248.72	3.05	570058	HYP	QXPX	7	12450	0.21	0.028	0.34	
248.72	251.76	3.04	570059	HYP	QXPX	7	13000	0.26	0.030	0.34	
251.76	254.81	3.05	570060	HYP	QXPX	7	11700	0.19	0.043	0.21	
254.81	257.86	3.05	570061	HYP	QXPX	7	11600	0.33	0.059	0.41	
257.86	260.91	3.05	570062	HYP	QXPX	7	11900	0.20	0.043	0.31	
260.91	264.11	3.20	570063	HYP	QXPX	7	11760	0.22	0.036	0.31	
264.11	267.31	3.20	570064	HYP	QXPX	7	10600	0.18	0.023	0.24	
267.31	270.36	3.05	570065	HYP	QXPX	7	12940	0.51	0.022	0.45	
270.36	273.41	3.05	570066	HYP	QXPX	7	12400	0.14	0.024	0.17	
273.41	276.45	3.04	570067	HYP	QXPX	7	11200	0.12	0.030	0.24	
276.45	279.50	3.05	570068	HYP	QXPX	7	10700	0.11	0.021	0.14	
279.50	282.55	3.05	570069	HYP	QXPX	7	13080	0.21	0.041	0.27	
282.55	285.60	3.05	570070	HYP	QXPX	7	12280	0.14	0.035	0.21	
285.60	288.65	3.05	570071	HYP	QXPX	7	10940	0.09	0.061	0.14	
288.65	291.69	3.04	570072	HYP	QXPX	7	9980	0.10	0.054	0.14	
291.69	294.74	3.05	570073	HYP	QXPX	7	12080	0.23	0.055	0.34	
294.74	297.79	3.05	570074	HYP	QXPX	7	10600	0.09	0.062	0.10	
297.79	300.23	2.44	570075	HYP	QXPX	7	9000	0.14	0.086	0.14	
300.23	302.51	2.28	570076	HYP	QXPX	7	7960	0.09	0.042	0.14	
302.51	303.88	1.37	570077	HYP	QXPX	7	4060	0.09	0.032	0.10	
303.88	306.93	3.05	570078	HYP	QXPX	7	12460	0.11	0.053	0.10	
306.93	309.98	3.05	570079	HYP	QXPX	7	11900	0.12	0.060	0.14	
309.98	313.02	3.04	570080	HYP	QXPX	7	11680	0.20	0.049	0.24	
313.02	316.07	3.05	570081	HYP	QXPX	7	9680	0.09	0.066	0.07	
316.07	319.12	3.05	570082	HYP	QXPX	7	11880	0.14	0.067	0.10	
319.12	322.17	3.05	570083	HYP	QXPX	7	12040	0.15	0.073	0.14	
322.17	324.91	2.74	570084	HYP	QXPX	7	9480	0.12	0.063	0.21	
324.91	327.96	3.05	570085	HYP	QXPX	7	11480	0.24	0.069	0.27	
327.96	331.01	3.05	570086	HYP	QXPX	7	11680	0.13	0.054	0.17	
331.01	334.06	3.05	570087	HYP	QXPX	7	12680	0.14	0.044	0.17	
334.06	337.41	3.35	570088	HYP	QXPX	7	11900	0.15	0.068	0.21	
337.41	340.46	3.05	570089	HYP	IXPA	7	12560	0.18	0.055	0.17	
340.46	343.51	3.05	570090	HYP	IXPA	7	12440	0.18	0.061	0.21	
343.51	346.55	3.04	570091	HYP	IXPA	7	12140	0.25	0.074	0.21	
346.55	349.60	3.05	570092	HYP	IXPA	7	12320	0.22	0.065	0.14	
349.60	352.65	3.05	570093	HYP	IXPA	7	11400	0.15	0.075	0.17	
352.65	355.70	3.05	570094	HYP	IXPA	7	11140	0.09	0.066	0.07	
355.70	358.75	3.05	570095	HYP	IXPA	7	10860	0.12	0.084	0.31	
358.75	361.80	3.05	570096	HYP	IXPA	7	11700	0.28	0.114	0.34	
361.80	364.84	3.04	570097	HYP	IXPA	7	13780	0.29	0.129	0.38	
364.84	367.89	3.05	570098	HYP	IXPA	7	11920	0.27	0.126	0.24	
367.89	369.72	1.83	570099	HYP	IXPA	7	6460	0.12	0.067	0.17	
369.72	372.99	3.27	570100	HYP	IXPA	7	11560	0.05	0.077	0.03	
372.99	375.82	2.83	570101	HYP	IXPA	7	12480	0.06	0.064	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-141

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
375.82	378.87	3.05	570102	HYP	IXPA	7	11540	0.07	0.058	0.07	
378.87	381.61	2.74	570103	HYP	IXPA	7	9010	0.17	0.059	0.10	
381.61	383.13	1.52	570104	HYP	IXPA	7	7060	0.10	0.092	0.10	
383.13	386.18	3.05	570105	HYP	IXPA	7	10830	0.09	0.035	0.10	
386.18	389.23	3.05	570106	HYP	IXPA	7	9100	0.14	0.043	0.17	
389.23	392.28	3.05	570107	HYP	IXPA	7	11480	0.08	0.020	0.07	
392.28	395.02	2.74	570108	HYP	IXPA	7	11430	0.07	0.023	0.14	
395.02	398.07	3.05	570109	HYP	IXPA	7	13830	0.04	0.016	0.03	
398.07	401.42	3.35	570110	HYP	IXPA	7	13600	0.13	0.037	0.14	
401.42	404.47	3.05	570111	HYP	IXPA	7	12610	0.15	0.027	0.10	
404.47	407.51	3.04	570112	HYP	IXPA	7	12700	0.07	0.024	0.03	
407.51	410.56	3.05	570113	HYP	IXPA	7	11110	0.09	0.129	0.07	
410.56	413.61	3.05	570114	HYP	IXPA	7	13100	0.14	0.106	0.10	
413.61	416.66	3.05	570115	HYP	IXPA	7	13900	0.07	0.037	<0.03	
416.66	419.70	3.04	570116	HYP	IXPA	7	12980	0.06	0.051	0.03	
419.70	422.75	3.05	570117	HYP	IXPA	7	12880	0.24	0.040	0.31	
422.75	425.80	3.05	570118	HYP	IXPA	7	12920	0.14	0.041	0.14	
425.80	428.85	3.05	570119	HYP	IXPA	7	12200	0.07	0.038	0.03	
428.85	431.90	3.05	570120	HYP	IXPA	7	13810	0.21	0.060	0.24	
431.90	434.94	3.04	570121	HYP	IXPA	7	13380	0.15	0.072	0.21	
434.94	437.99	3.05	570122	HYP	IXPA	7	13800	0.05	0.019	<0.03	
437.99	441.04	3.05	570123	HYP	IXPA	7	13030	0.08	0.009	<0.03	
441.04	444.09	3.05	570124	HYP	IXPA	7	13730	0.05	0.012	<0.03	
444.09	447.14	3.05	570125	HYP	IXPA	7	14200	0.06	0.043	<0.03	
447.14	450.19	3.05	570126	HYP	IXPA	7	13810	0.10	0.046	0.10	
450.19	453.24	3.05	570127	HYP	IXPA	7	11600	0.12	0.061	0.14	
453.24	456.29	3.05	570128	HYP	IXPA	7	13380	0.05	0.011	<0.03	
456.29	459.33	3.04	570129	HYP	IXPA	7	13450	0.07	0.018	<0.03	
459.33	462.38	3.05	570130	HYP	IXPA	7	14080	0.11	0.021	<0.03	
462.38	465.43	3.05	570131	HYP	PPPX	7	14130	0.11	0.029	0.10	
465.43	468.48	3.05	570132	HYP	PPPX	7	13750	0.03	0.035	<0.03	
468.48	471.53	3.05	570133	HYP	PPPX	7	13330	0.01	0.004	<0.03	
471.53	474.57	3.04	570134	HYP	PPPX	7	13930	0.01	0.005	<0.03	
474.57	477.62	3.05	570135	HYP	PPPX	7	13200	0.01	0.004	<0.03	
477.62	480.67	3.05	570136	HYP	PPPX	7	12940	0.01	0.006	<0.03	
480.67	483.72	3.05	570137	HYP	PPPX	7	13830	0.01	0.007	<0.03	
483.72	486.77	3.05	570138	HYP	PPPX	7	14050	0.01	0.023	<0.03	
486.77	489.81	3.04	570139	HYP	PPPX	7	13710	0.04	0.038	<0.03	
489.81	492.86	3.05	570140	HYP	PPPX	7	14000	0.06	0.023	0.03	
492.86	495.91	3.05	570141	HYP	PPPX	7	13010	0.04	0.018	0.07	
495.91	498.96	3.05	570142	HYP	PPPX	7	13200	0.06	0.029	0.07	
498.96	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-142	Total Depth	387.40 m		
Northing	255,052.28	Casing Depth	4.27 m		Left In
Easting	110,932.31	Survey Data	Azimuth	Dip	Instrument
Elevation	1283.74 m	Collar		-90.00°	
Core Size	HQ	325.2 m	098°	-89.20°	Sperry Sun
Drilling Started	September 4, 1992/August 17, 1993				
Drilling Finished	September 8, 1992/August 20, 1993				
Logged by	P. Fischl/F. Gish				
Purpose/Target:	This hole was deepened to test for ore grade mineralization encountered at similar depths in Hole 93-131, 100 m east.				
Comments:	Intersected weakly mineralized, potassic altered, heterolithic coarse milled microbreccia (MBCX).				

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	6.70	3.04	H528927	CAP	BRXC	3	10640	0.030	0.021	0.41	1.7
6.70	9.75	3.05	H528928	CAP	BRXC	3	12060	0.040	0.022	0.68	2.0
9.75	12.80	3.05	H528929	CAP	BRXC	3	12600	0.050	0.041	0.62	1.8
12.80	15.85	3.05	H528930	CAP	BRXC	3	12420	0.050	0.016	0.58	0.8
15.85	18.90	3.05	H528931	CAP	BRXC	3	9880	0.040	0.015	0.55	1.9
18.90	21.95	3.05	H528932	CAP	BRXC	3	9560	0.030	0.016	0.75	2.2
21.95	24.99	3.04	H528933	CAP	BRXC	3	10060	0.040	0.027	1.03	1.7
24.99	28.04	3.05	H528934	CAP	BRXC	3	10660	0.060	0.029	0.55	2.8
28.04	31.09	3.05	H528935	CAP	BRXC	3	11180	0.030	0.018	0.72	3.3
31.09	34.14	3.05	H528936	CAP	BRXT	3	9760	0.040	0.016	0.72	2.5
34.14	37.18	3.04	H528937	CAP	BRXC	3	11100	0.050	0.019	0.96	2.4
37.18	40.23	3.05	H528938	CAP	BRXC	3	10640	0.050	0.035	0.79	2.4
40.23	43.28	3.05	H528939	CAP	BRXT	3	12060	0.050	0.016	0.51	0.9
43.28	46.33	3.05	H528940	CAP	BRXT	3	12520	0.060	0.025	0.75	1.5
46.33	49.37	3.04	H528941	CAP	BRXT	3	10920	0.050	0.019	0.34	1.0
49.37	52.42	3.05	H528942	CAP	BRXC	3	13480	0.050	0.017	0.41	1.1
52.42	55.47	3.05	H528943	CAP	BRXC	3	13240	0.060	0.023	0.34	1.1
55.47	58.52	3.05	H528944	CAP	BRXC	3	12180	0.070	0.022	0.45	1.3
58.52	61.57	3.05	H528945	CAP	BRXC	3	11280	0.050	0.026	0.34	1.1
61.57	64.62	3.05	H528946	CAP	BRXC	3	12800	0.070	0.021	0.48	1.2
64.62	67.66	3.04	H528947	CAP	BRXC	3	12000	0.070	0.020	0.41	0.8
67.66	71.32	3.66	H528948	CAP	BRXC	3	11860	0.070	0.024	0.55	1.8
71.32	73.76	2.44	H528949	CAP	BRXC	3	7360	0.090	0.017	0.45	2.5
73.76	76.81	3.05	H528950	CAP	BRXC	3	9640	0.050	0.037	0.96	1.5
76.81	79.86	3.05	H528951	CAP	BRXC	3	10600	0.060	0.022	0.48	1.5
79.86	82.91	3.05	H528952	CAP	BRXC	3	11620	0.050	0.016	0.41	1.2
82.91	85.95	3.04	H528953	CAP	BRXC	3	10940	0.090	0.043	0.75	1.6
85.95	89.00	3.05	H528954	SOX	PPXX	3	9700	0.180	0.015	0.34	1.2
89.00	92.05	3.05	H528955	SOX	PPXX	7	11900	0.240	0.025	1.37	1.6
92.05	95.10	3.05	H528956	SUS	BRXC	7	11380	0.260	0.101	0.99	1.0
95.10	98.15	3.05	H528957	SUS	BRXC	7	11300	0.440	0.035	0.75	1.7
98.15	101.19	3.04	H528958	SUS	BRXC	4	11260	0.620	0.027	0.68	1.5
101.19	104.24	3.05	H528959	SUS	BRXC	4	11380	0.420	0.016	0.41	1.1

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
104.24	107.29	3.05	H528960	SUS	BRXC	4	11000	0.730	0.016	0.75	2.4
107.29	111.25	3.96	H528961	SUS	BRXC	4	15100	0.720	0.022	0.27	1.8
111.25	114.30	3.05	H528962	SUS	BRXT	4	11700	0.650	0.020	0.17	1.3
114.30	117.04	2.74	H528963	SUS	BRXT	4	13120	1.000	0.029	0.17	2.6
117.04	120.09	3.05	H528964	SUS	BRXT	4	13520	0.610	0.220	0.21	3.2
120.09	123.29	3.20	H528965	SUS	BRXT	4	14360	1.630	0.021	0.17	2.0
123.29	127.10	3.81	H528966	SUS	BRXT	7	14540	0.330	0.021	0.34	1.7
127.10	129.69	2.59	H528967	HYP	BRXT	7	9560	0.160	0.014	0.21	1.8
129.69	132.74	3.05	H528968	HYP	BRXT	7	12160	0.240	0.022	0.27	12.6
132.74	135.79	3.05	H528969	HYP	BRXT	7	12060	0.260	0.025	0.72	3.3
135.79	138.99	3.20	H528970	HYP	BRXC	7	10780	0.230	0.016	0.34	3.9
138.99	142.19	3.20	H528971	HYP	BRXC	7	10580	0.220	0.025	0.41	3.9
142.19	145.39	3.20	H528972	HYP	BRXC	7	11840	0.240	0.037	0.45	1.8
145.39	148.44	3.05	H528973	HYP	BRXC	7	10840	0.110	0.014	0.21	1.4
148.44	151.49	3.05	H528974	HYP	BRXC	7	10360	0.140	0.020	0.24	1.6
151.49	153.92	2.43	H528975	HYP	BRXC	7	8640	0.110	0.015	0.27	0.6
153.92	156.97	3.05	H528976	HYP	BRXC	7	11000	0.190	0.019	0.31	1.1
156.97	160.02	3.05	H528977	HYP	BRXC	7	10040	0.190	0.020	0.31	1.4
160.02	163.53	3.51	H528978	HYP	BRXC	7	13480	0.180	0.028	0.31	2.0
163.53	166.57	3.04	H528979	HYP	BRXC	7	13000	0.190	0.044	0.45	1.6
166.57	169.62	3.05	H528980	HYP	BRXC	7	11700	0.250	0.028	0.38	1.5
169.62	172.82	3.20	H528981	HYP	BRXC	7	12840	0.190	0.025	0.48	1.4
172.82	175.87	3.05	H528982	HYP	BRXC	7	12440	0.200	0.019	0.45	2.4
175.87	178.92	3.05	H528983	HYP	BRXC	7	11240	0.320	0.033	0.72	2.0
178.92	181.96	3.04	H528984	HYP	BRXC	7	12660	0.100	0.019	0.21	0.3
181.96	185.04	3.08	H528985	HYP	BRXC	7	12140	0.230	0.027	0.41	1.1
185.04	187.45	2.41	H528986	HYP	BRXC	7	8900	0.180	0.021	0.34	1.1
187.45	190.95	3.50	H528987	HYP	BRXC	7	13720	0.070	0.040	0.10	0.5
190.95	194.16	3.21	H528988	HYP	BRXC	7	14060	0.080	0.014	0.21	0.6
194.16	197.21	3.05	H528989	HYP	BRXC	7	10560	0.100	0.016	0.24	0.7
197.21	200.25	3.04	H528990	HYP	BRXC	7	14120	0.120	0.017	0.17	2.5
200.25	203.30	3.05	H528991	HYP	BRXC	7	12900	0.120	0.018	0.27	1.6
203.30	206.35	3.05	H528992	HYP	BRXC	7	11940	0.210	0.074	0.41	1.6
206.35	209.40	3.05	H528993	HYP	BRXC	7	12460	0.140	0.042	0.27	1.2
209.40	212.44	3.04	H528994	HYP	BRXC	7	12880	0.090	0.014	0.27	0.8
212.44	215.49	3.05	H528995	HYP	BRXC	7	12240	0.090	0.022	0.17	1.0
215.49	218.54	3.05	H528996	HYP	BRXC	7	13440	0.060	0.011	0.14	0.8
218.54	221.59	3.05	H528997	HYP	BRXC	7	11000	0.100	0.013	0.34	0.8
221.59	224.64	3.05	H528998	HYP	BRXC	7	12680	0.220	0.023	0.45	1.0
224.64	228.60	3.96	H528999	HYP	BRXC	7	16920	0.070	0.012	0.17	0.5
228.60	231.34	2.74	566429	HYP	MBCP	7	9800	0.11	0.016	0.21	
231.34	232.87	1.53	566430	HYP	MBCP	7	5240	0.11	0.014	0.24	
232.87	235.92	3.05	566431	HYP	MBCP	7	12840	0.15	0.068	0.31	
235.92	238.96	3.04	566432	HYP	MBCP	7	13180	0.09	0.064	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
238.96	242.01	3.05	1	HYP	MBCX	7/6	11940	0.13	0.068	0.24	
242.01	245.97	3.96	2	HYP	MBCX	7/6	14820	0.13	0.058	0.21	
245.97	249.02	3.05	3	HYP	MBCX	7/6	11880	0.15	0.035	0.21	
249.02	252.83	3.81	4	HYP	MBCX	7/6	11100	0.15	0.023	0.17	
252.83	254.66	1.83	5	HYP	MBCX	7/6	6080	0.09	0.010	0.14	
254.66	257.71	3.05	6	HYP	MBCX	7/6	11700	0.09	0.012	0.14	
257.71	260.75	3.04	7	HYP	MBCX	7/6	12540	0.16	0.030	0.38	
260.75	263.96	3.21	8	HYP	MBCX	7/6	11920	0.10	0.050	0.14	
263.96	267.00	3.04	9	HYP	MBCX	7/6	13480	0.08	0.048	0.27	
267.00	270.20	3.20	10	HYP	MBCX	7/6	12100	0.11	0.139	0.10	
270.20	273.25	3.05	11	HYP	MBCX	7/6	13440	0.08	0.023	0.17	
273.25	276.45	3.20	12	HYP	MBCX	7/6	12580	0.22	0.056	0.58	
276.45	277.98	1.53	13	HYP	MBCX	7/6	2840	0.12	0.017	0.17	
277.98	281.02	3.04	14	HYP	MBCX	7/6	11200	0.06	0.026	0.17	
281.02	284.07	3.05	15	HYP	MBCX	7/6	10540	0.12	0.010	0.58	
284.07	287.12	3.05	16	HYP	MBCX	7/6	10420	0.24	0.046	1.65	
287.12	290.17	3.05	17	HYP	MBCX	7/6	12100	0.16	0.035	0.17	
290.17	291.69	1.52	18	HYP	MBCX	7/6	4040	0.15	0.038	0.24	
291.69	294.74	3.05	19	HYP	MBCX	7/6	12900	0.06	0.014	0.14	
294.74	297.79	3.05	20	HYP	MBCX	7/6	12680	0.05	0.010	0.10	
297.79	300.84	3.05	21	HYP	MBCX	7/6	11540	0.09	0.026	0.24	
300.84	303.88	3.04	22	HYP	MBCX	7/6	12540	0.05	0.021	0.10	
303.88	306.93	3.05	23	HYP	MBCX	7/6	9060	0.04	0.027	0.07	
306.93	309.98	3.05	24	HYP	MBCX	7/6	13620	0.03	0.016	0.07	
309.98	312.88	2.90	25	HYP	MBCX	7/6	11500	0.05	0.041	0.21	
312.88	315.01	2.13	26	HYP	MBCX	7/2	8180	0.02	0.017	0.07	
315.01	316.68	1.67	27	HYP	MBCX	7/2	6260	0.02	0.071	0.07	
316.68	318.82	2.14	28	HYP	MBCX	7/2	8300	0.01	0.086	<0.03	
318.82	321.87	3.05	29	HYP	MBCX	7/2	10960	0.03	0.018	<0.03	
321.87	323.39	1.52	30	HYP	MBCX	7	5860	0.07	0.072	0.14	
323.39	326.44	3.05	31	HYP	MBCX	7	12540	0.04	0.011	0.10	
326.44	329.49	3.05	32	HYP	MBCX	7	11060	0.10	0.018	0.10	
329.49	330.71	1.22	33	HYP	MBCX	7	4680	0.13	0.036	0.31	
330.71	333.76	3.05	34	HYP	MBCX	7	11200	0.10	0.021	0.17	
333.76	336.80	3.04	35	HYP	MBCX	7	12080	0.15	0.023	0.10	
336.80	339.85	3.05	36	HYP	MBCX	7/2	12900	0.07	0.012	0.07	
339.85	342.90	3.05	37	HYP	MBCX	7/2	12880	0.07	0.018	0.07	
342.90	345.64	2.74	38	HYP	PPDP	7	12320	0.06	0.009	0.14	
345.64	349.60	3.96	39	HYP	PPDP	7	15300	0.03	0.010	0.10	
349.60	352.65	3.05	566472	HYP	MBCX	7	12600	0.06	0.016	0.14	
352.65	355.70	3.05	566473	HYP	MBCX	7	12680	0.22	0.055	0.27	
355.70	358.75	3.05	566474	HYP	MBCX	7	13020	0.12	0.040	0.14	
358.75	361.80	3.05	566475	HYP	MBCX	7	12900	0.12	0.019	0.14	
361.80	364.85	3.05	566476	HYP	MBCX	7	10060	0.06	0.016	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-142

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
364.85	367.89	3.04	1	HYP	MBCX	7	11200	0.04	0.008	0.03	
367.89	369.27	1.38	2	HYP	MBCX	7	4480	0.02	0.005	<0.03	
369.27	371.70	2.43	3	HYP	MBCX	7	7960	0.04	0.006	<0.03	
371.70	373.99	2.29	4	HYP	MBCX	7	8820	0.03	0.014	<0.03	
373.99	377.04	3.05	5	HYP	MBCX	7	9820	0.08	0.015	0.03	
377.04	380.09	3.05	6	HYP	MBCX	7	10600	0.12	0.026	0.10	
380.09	383.59	3.50	7	HYP	MBCX	7	12160	0.04	0.006	<0.03	
383.59	385.11	1.52	8	HYP	MBCX	7	5020	0.04	0.009	<0.03	
385.11	387.40	2.29	9	HYP	MBCX	7	7900	0.03	0.070	<0.03	
387.40	END OF HOLE		10	HYP	MBCX	7	9820	0.08	0.015	0.03	

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-143	Total Depth	424.89 m		
Northing	255,052.10	Casing Depth	3.05 m		Left In
Easting	111,179.64	Survey Data	Azimuth	Dip	Instrument
Elevation	1252.32 m	Collar			
Core Size	HQ to 170.38 m; NQ to 424.89 m	309.98 m	117°	-89.05°	Sperry Sun
Drilling Started	September 8, 1992/July 17, 1993				
Drilling Finished	September 12, 1992/July 20, 1993				
Logged by	W.D. Mann				

Purpose/Target: Deepen Hole 92-143 which stopped in mineralized rock.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.03	5.03		OVB							
5.03	7.92	2.89	H529000	CAP	BRXT	7	8380	0.060	0.098	0.79	1.6
7.92	10.97	3.05	H529001	CAP	BRXT	7	11920	0.110	0.104	0.58	1.0
10.97	14.02	3.05	H529002	CAP	BRXT	7	10200	0.150	0.040	0.72	2.6
14.02	17.07	3.05	H529003	CAP	BRXT	7	13540	0.110	0.075	0.31	0.8
17.07	19.66	2.59	H529004	CAP	BRXT	3	7080	0.120	0.042	0.14	0.6
19.66	22.86	3.20	H529005	CAP	BRXT	7	10840	0.090	0.052	0.14	0.5
22.86	25.45	2.59	H529006	CAP	BRXC	3	8900	0.130	0.060	0.38	1.5
25.45	28.65	3.20	H529007	CAP	BRXC	3	11600	0.120	0.057	0.34	1.3
28.65	31.55	2.90	H529008	CAP	BRXC	3	11200	0.110	0.074	0.41	1.0
31.55	35.66	4.11	H529009	CAP	BRXC	3	15040	0.090	0.033	0.58	1.9
35.66	38.71	3.05	H529010	CAP	BRXT	3	11620	0.050	0.062	0.27	2.1
38.71	42.06	3.35	H529011	CAP	BRXC	3	8940	0.090	0.021	0.21	1.0
42.06	44.81	2.75	H529012	CAP	BRXC	3	8820	0.110	0.063	0.17	0.7
44.81	47.85	3.04	H529013	CAP	BRXC	5	10620	0.080	0.036	0.24	1.0
47.85	50.60	2.75	H529014	CAP	BRXC	3	9620	0.080	0.050	0.38	0.8
50.60	53.64	3.04	H529015	CAP	BRXC	3	10820	0.140	0.039	0.07	Tr
53.64	56.39	2.75	H529016	CAP	BRXC	5	10900	0.130	0.048	0.17	0.9
56.39	59.59	3.20	H529017	SOX	BRXC	3	10420	0.200	0.035	0.14	Tr
59.59	62.64	3.05	H529018	SOX	BRXC	3	12020	0.590	0.065	0.17	0.4
62.64	65.84	3.20	H529019	SOX	BRXC	3	11760	0.190	0.040	0.07	Tr
65.84	69.04	3.20	H529020	SOX	BRXC	5	10920	0.050	0.105	0.07	Tr
69.04	72.08	3.04	H529021	SOX	BRXC	5	11960	0.560	0.058	0.14	0.4
72.08	75.29	3.21	H529022	SOX	BRXC	2	12160	0.300	0.106	0.14	0.4
75.29	78.33	3.04	H529023	SOX	BRXC	3	12160	0.210	0.120	0.10	Tr
78.33	81.38	3.05	H529024	SOX	BRXC	5	11520	0.760	0.179	0.14	0.9
81.38	84.43	3.05	H529025	SOX	BRXC	3	11920	1.440	0.124	0.21	0.9
84.43	87.48	3.05	H529026	SUS	BRXC	3	11120	0.880	0.037	0.41	1.4
87.48	90.53	3.05	H529027	SUS	BRXC	5	11560	0.670	0.052	0.31	1.2
90.53	93.57	3.04	H529028	SUS	BRXT	5	10100	0.670	0.090	0.14	1.6
93.57	96.62	3.05	H529029	SUS	BRXT	5	11080	1.860	0.052	0.21	9.1
96.62	99.67	3.05	H529030	SUS	BRXT	5	10880	2.700	0.129	0.14	7.7
99.67	102.72	3.05	H529031	SUS	BRXT	5	11860	2.000	0.067	0.24	4.1
102.72	105.77	3.05	H529032	SUS	BRXC	3	10840	1.310	0.054	0.31	0.7

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	H529033	SUS	BRXC	7	10240	0.490	0.060	0.24	0.7
108.81	111.40	2.59	H529034	SUS	BRXC	7	8980	0.170	0.068	0.21	0.5
111.40	114.30	2.90	H529035	SUS	BRXC	5	11080	0.210	0.109	0.21	0.6
114.30	117.50	3.20	H529036	SUS	BRXC	5	11580	0.250	0.088	0.24	1.0
117.50	120.70	3.20	H529037	SUS	BRXC	5	11720	0.260	0.096	0.24	1.2
120.70	123.90	3.20	H529038	SUS	BRXC	5	11540	0.240	0.125	0.34	1.0
123.90	127.10	3.20	H529039	SUS	BRXC	5	9160	1.690	0.035	0.10	2.2
127.10	130.15	3.05	H529040	SUS	BRXC	5	3260	2.360	0.087	0.10	5.8
130.15	133.20	3.05	H529041	SUS	BRXC	5	6700	5.630	0.073	0.07	24.0
133.20	136.25	3.05	H529042	SUS	BRXC	5	6020	3.230	0.061	0.03	4.9
136.25	138.99	2.74	H529043	SUS	BRXC	5	6380	0.620	0.032	0.41	28.9
138.99	142.04	3.05	H529044	SUS	BRXC	5	9140	0.410	0.054	0.38	2.6
142.04	145.39	3.35	H529045	SUS	BRXC	5	10800	0.340	0.096	0.41	2.4
145.39	148.44	3.05	H529046	HYP	BRXC	5	9300	0.120	0.017	0.14	0.7
148.44	151.18	2.74	H529047	HYP	BRXC	5	8540	0.140	0.016	0.24	1.2
151.18	154.23	3.05	H529048	HYP	BRXC	5	11660	0.130	0.130	0.17	0.8
154.23	157.28	3.05	H529049	HYP	BRXC	5	11120	0.080	0.090	0.07	0.5
157.28	160.48	3.20	H529050	HYP	BRXC	5	12100	0.130	0.055	0.14	0.9
160.48	163.52	3.04	H529051	HYP	BRXC	5	11440	0.100	0.045	0.17	0.6
163.52	166.73	3.21	H529052	HYP	BRXC	5	10940	0.180	0.275	0.27	1.0
166.73	168.86	2.13	H529053	HYP	BRXC	5	8320	0.100	0.069	0.07	0.8
168.86	170.38	1.52	566001	HYP	IXAC	7	5060	0.11	0.017	0.17	
170.38	172.82	2.44	566002	HYP	IXAC	7	5240	0.10	0.114	0.14	
172.82	175.87	3.05	566003	HYP	IXAC	7	5960	0.14	0.084	0.14	
175.87	178.92	3.05	566004	HYP	IXAC	7	6180	0.08	0.076	0.48	
178.92	181.97	3.05	566005	HYP	IXAC	7	6280	0.09	0.076	0.14	
181.97	185.01	3.04	566006	HYP	IXAC	7	5880	0.08	0.078	0.10	
185.01	188.06	3.05	566007	HYP	IXAC	7	6580	0.13	0.086	0.17	
188.06	191.11	3.05	566008	HYP	IXAC	7	5820	0.14	0.104	0.10	
191.11	194.16	3.05	566009	HYP	IXAC	7	6720	0.11	0.207	0.21	
194.16	197.21	3.05	566010	HYP	IXAC	7	6440	0.09	0.068	0.14	
197.21	200.25	3.04	566011	HYP	IXAC	7	6400	0.13	0.102	0.34	
200.25	203.30	3.05	566012	HYP	IXAC	7	6600	0.15	0.032	0.21	
203.30	206.35	3.05	566013	HYP	IXAC	7	6480	0.09	0.047	0.10	
206.35	209.40	3.05	566014	HYP	IXAC	7	6520	0.17	0.089	0.14	
209.40	212.45	3.05	566015	HYP	IXAC	7	7020	0.08	0.119	0.14	
212.45	215.49	3.04	566016	HYP	IXAC	7	6740	0.14	0.064	0.24	
215.49	218.54	3.05	566017	HYP	IXAC	7	6780	0.18	0.086	0.31	
218.54	221.59	3.05	566018	HYP	IXAC	7	7320	0.08	0.087	0.14	
221.59	224.64	3.05	566019	HYP	IXAF	7	6760	0.08	0.066	0.14	
224.64	227.69	3.05	566020	HYP	IXAF	7	6900	0.10	0.086	0.14	
227.69	230.73	3.04	566021	HYP	IXAF	7	7180	0.10	0.066	0.14	
230.73	233.78	3.05	566022	HYP	IXAF	7	7200	0.19	0.033	0.31	
233.78	235.31	1.53	566023	HYP	IXAF	7	3120	0.10	0.040	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
235.31	238.35	3.04	566024	HYP	IXAF	7	7060	0.11	0.037	0.17	
238.35	241.40	3.05	566025	HYP	IXAF	7	7380	0.09	0.050	0.14	
241.40	244.45	3.05	566026	HYP	IXAF	7	6960	0.11	0.094	0.21	
244.45	247.50	3.05	566027	HYP	IXAF	7	7140	0.18	0.054	0.24	
247.50	250.55	3.05	566028	HYP	IXAF	7	7420	0.08	0.075	0.14	
250.55	253.59	3.04	566029	HYP	IXAF	7	7240	0.09	0.050	0.34	
253.59	255.12	1.53	566030	HYP	PPDP	7	3040	0.09	0.006	0.21	
255.12	258.16	3.04	566031	HYP	PPDP	7	7060	0.19	0.005	0.27	
258.16	261.70	3.54	566032	HYP	PPDP	7	7180	0.11	0.006	0.17	
261.70	264.26	2.56	566033	HYP	PPDP	7	7020	0.15	0.018	0.48	
264.26	267.31	3.05	566034	HYP	IXAF	7	6820	0.21	0.056	0.38	
267.31	270.35	3.04	566035	HYP	IXAF	7	6360	0.22	0.135	0.48	
270.35	273.41	3.06	566036	HYP	IXAF	7	6860	0.20	0.203	0.38	
273.41	276.45	3.04	566037	HYP	IXAF	7	6700	0.25	0.073	0.45	
276.45	279.50	3.05	566038	HYP	IXAF	7	6820	0.22	0.062	0.82	
279.50	282.55	3.05	566039	HYP	IXAF	7	6920	0.23	0.053	0.38	
282.55	285.60	3.05	566040	HYP	IXAF	7	6660	0.13	0.042	0.21	
285.60	288.03	2.43	566041	HYP	IXAF	7	7300	0.19	0.088	0.24	
288.03	291.69	3.66	566042	HYP	IXAF	7	7480	0.21	0.113	0.31	
291.69	294.74	3.05	566043	HYP	IXAC	7	7000	0.18	0.048	0.21	
294.74	297.79	3.05	566044	HYP	IXAC	7	7240	0.21	0.053	0.21	
297.79	300.84	3.05	566045	HYP	IXAC	7	6880	0.18	0.055	0.24	
300.84	303.89	3.05	566046	HYP	IXAC	7	7180	0.20	0.073	0.45	
303.89	306.93	3.04	566047	HYP	IXAC	7	6580	0.17	0.113	0.34	
306.93	309.98	3.05	566048	HYP	IXAC	7	7180	0.23	0.103	0.31	
309.98	313.03	3.05	566049	HYP	IXAC	7	6740	0.19	0.063	0.21	
313.03	316.08	3.05	566050	HYP	IXAC	7	6800	0.20	0.066	0.34	
316.08	319.13	3.05	566051	HYP	IXAC	7	7360	0.14	0.119	0.24	
319.13	322.17	3.04	566052	HYP	IXAC	7	7260	0.18	0.096	0.21	
322.17	325.22	3.05	566053	HYP	IXAC	7	6580	0.22	0.062	0.24	
325.22	328.27	3.05	566054	HYP	IXAC	7	7080	0.20	0.090	0.21	
328.27	331.32	3.05	566055	HYP	IXAC	7	6560	0.28	0.100	0.27	
331.32	334.36	3.04	566056	HYP	IXAC	7	6760	0.44	0.248	0.45	
334.36	337.41	3.05	566057	HYP	IXAC	7	7100	0.26	0.127	0.38	
337.41	340.46	3.05	566058	HYP	IXAC	7	6420	0.21	0.181	0.34	
340.46	343.51	3.05	566059	HYP	IXAC	7	6420	0.09	0.081	0.17	
343.51	346.56	3.05	566060	HYP	IXAC	7	6560	0.36	0.175	0.58	
346.56	349.61	3.05	566061	HYP	IXAC	7	6260	0.21	0.253	0.45	
349.61	352.65	3.04	566062	HYP	IXAC	7	6120	0.22	0.073	0.51	
352.65	355.70	3.05	566063	HYP	IXAC	7	6000	0.16	0.131	0.34	
355.70	358.75	3.05	566064	HYP	IXAC	7	6520	0.19	0.120	0.24	
358.75	361.80	3.05	566065	HYP	IXAC	7	6880	0.13	0.091	0.17	
361.80	364.85	3.05	566066	HYP	IXAC	7	7180	0.18	0.112	0.34	
364.85	367.89	3.04	566067	HYP	IXAC	7	6920	0.21	0.086	0.41	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	566068	HYP	PPDB	7	6580	0.11	0.088	0.17	
370.94	373.99	3.05	566069	HYP	IXAC	7	6760	0.18	0.157	0.27	
373.99	377.04	3.05	566070	HYP	IXAC	7	7120	0.21	0.094	0.17	
377.04	380.09	3.05	566071	HYP	PPDB	7	7020	0.14	0.074	0.38	
380.09	383.13	3.04	566072	HYP	PPDB	7	6960	0.13	0.108	0.24	
383.13	386.18	3.05	566073	HYP	IXAC	7	7060	0.06	0.083	0.17	
386.18	389.23	3.05	566074	HYP	IXAC	7	6760	0.07	0.152	0.14	
389.23	392.28	3.05	566075	HYP	IXAC	7	7080	0.09	0.047	0.10	
392.28	395.33	3.05	566076	HYP	IXAC	7	6620	0.10	0.071	0.14	
395.33	398.37	3.04	566077	HYP	IXAC	7	7200	0.16	0.133	0.31	
398.37	401.42	3.05	566078	HYP	IXAC	7	6640	0.10	0.221	0.31	
401.42	404.47	3.05	566079	HYP	IXAC	7	6620	0.09	0.186	0.10	
404.47	407.52	3.05	566080	HYP	IXAC	7	7080	0.08	0.091	0.03	
407.52	410.57	3.05	566081	HYP	IXAC	7	6480	0.09	0.123	0.21	
410.57	413.61	3.04	566082	HYP	IXAC	7	6740	0.09	0.143	0.14	
413.61	416.66	3.05	566083	HYP	IXAC	7	6420	0.11	0.066	0.10	
416.66	419.71	3.05	566084	HYP	IXAC	7	7160	0.05	0.192	0.10	
419.71	422.76	3.05	566085	HYP	IXAC	7	6900	0.08	0.181	0.17	
422.76	424.89	2.13	566086	HYP	IXAC	7	4620	0.07	0.180	0.14	
424.89	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-144	Total Depth	390.75 m		
Northing	254,950.663	Casing Depth	14.33 m	Taken Out	
Easting	111,705.283	Survey Data	Azimuth	Dip	Instrument
Elevation	1156.553 m	Collar 0.0 m	---	-90.00°	
Core Size	HQ	152.4 m	220°	-89.75°	Sperry Sun
Drilling Started	March 12, 1993	293.2 m	133°	-89.50°	Sperry Sun
Drilling Finished	March 26, 1993				
Logged by	B. Bower				

Purpose/Target: To redrill adjacent to old DDH P37 and test the zone to depth.
(Delineation drill hole)

Comments: This DDH intersected numerous breccia sections with disseminated chalcopyrite.
High angle fault/shear structures were common throughout this hole.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	14.33	14.33		OVB							
14.33	16.46	2.13	563001	CAP	BRXT	3	2360	0.15	0.015	0.21	3.0
16.46	18.90	2.44	563002	CAP	BRXT	3	3300	0.08	0.005	0.14	2.1
18.90	21.82	2.92	563003	CAP	BRXT	3	1840	0.15	0.005	0.10	2.1
21.82	23.16	1.34	563004	HYP	BRXT	5	2100	0.16	0.008	0.07	1.6
23.16	24.69	1.53	563005	HYP	QZMF	5	4460	0.41	0.004	0.14	1.2
24.69	25.76	1.07	563006	SUS	QZMF	5	2360	0.29	0.010	0.34	1.3
25.76	26.52	0.76	563007	SUS	QZMF	5	2180	0.41	0.022	0.24	1.8
26.52	27.74	1.22	563008	SUS	QZMF	5	3760	0.56	0.030	0.48	2.4
27.74	29.23	1.49	563009	SUS	QZMF	5	5000	0.76	0.024	0.34	2.3
29.23	30.33	1.10	563010	SUS	QZMF	5	3960	0.59	0.016	0.24	1.9
30.33	32.00	1.67	563011	SUS	QZMF	4	7220	0.29	0.013	0.14	1.3
32.00	33.53	1.53	563012	SUS	QZMF	3	3440	0.41	0.016	0.34	1.7
33.53	35.66	2.13	563013	HYP	QZDR	3	8820	0.47	0.012	0.31	1.6
35.66	36.88	1.22	563014	HYP	QZDR	3	4340	0.29	0.008	0.31	1.6
36.88	38.71	1.83	563015	HYP	QZDR	3	3500	0.31	0.001	0.24	1.2
38.71	40.84	2.13	563016	HYP	QZDR	1	4840	1.28	0.021	1.51	5.1
40.84	42.67	1.83	563017	HYP	QZDR	1	4800	0.55	0.013	0.38	1.9
42.67	43.89	1.22	563018	HYP	QZDR	1	4300	0.27	0.005	0.27	1.2
43.89	44.65	0.76	563019	HYP	BRXT	5	2400	0.66	0.007	0.51	2.3
44.65	46.32	1.67	563020	HYP	QZDR	1	6340	0.51	0.021	0.45	1.5
46.32	47.84	1.52	563021	HYP	BRXT	5	6120	0.37	0.027	0.48	1.5
47.84	50.89	3.05	563022	HYP	BRXT	5	10560	0.37	0.070	0.41	2.2
50.89	52.42	1.53	563023	HYP	BRXT	3	7080	0.45	0.062	0.45	1.4
52.42	55.31	2.89	563024	HYP	BRXT	5	10720	0.30	0.019	0.24	2.1
55.31	57.91	2.60	563025	HYP	BRXT	5	9680	0.75	0.034	0.82	2.8
57.91	59.86	1.95	563026	HYP	BRXT	3	5220	0.45	0.012	0.34	4.1
59.86	61.41	1.55	563027	HYP	QZDR	5	6000	0.23	0.006	0.27	2.7
61.41	63.08	1.67	563028	HYP	QZDR	5	7500	0.18	0.019	0.21	0.6
63.08	65.52	2.44	563029	HYP	F/ZN	3	8340	0.54	0.035	0.55	1.8
65.52	68.26	2.74	563030	HYP	F/ZN	3	10480	0.45	0.033	0.31	1.7
68.26	70.70	2.44	563031	HYP	BRXC	3	8400	0.22	0.015	0.21	1.4
70.70	73.14	2.44	563032	HYP	BRXC	3	9600	0.37	0.085	0.41	1.8
73.14	74.66	1.52	563033	HYP	BRXC	3	6860	0.55	0.025	0.45	1.7

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
74.66	76.50	1.84	563034	HYP	BRXC	3	5700	0.33	0.031	0.45	2.1
76.50	78.02	1.52	563035	HYP	BRXC	3	6520	0.21	0.034	0.17	4.0
78.02	79.69	1.67	563036	HYP	BRXC	3	7360	0.28	0.056	0.27	3.5
79.69	81.37	1.68	563037	HYP	BRXC	3	7160	0.27	0.024	0.31	3.6
81.37	84.42	3.05	563038	HYP	BRXC	3	11920	0.45	0.041	0.34	2.5
84.42	87.16	2.74	563039	HYP	BRXC	3	10200	0.27	0.019	0.34	1.8
87.16	88.85	1.69	563040	HYP	BRXC	3	6280	0.51	0.012	0.45	2.9
88.85	90.53	1.68	563041	HYP	QZDR	1	4480	0.21	0.004	0.24	1.7
90.53	92.04	1.51	563042	HYP	BRXC	1	5560	0.73	0.064	0.86	2.9
92.04	94.19	2.15	563043	HYP	BRXC	1	6580	0.43	0.048	0.41	2.9
94.19	96.31	2.12	563044	HYP	F/ZN	1	7060	0.61	0.018	0.58	2.3
96.31	99.36	3.05	563045	HYP	F/ZN	1	9940	0.69	0.054	0.55	2.6
99.36	101.79	2.43	563046	HYP	F/ZN	1	9600	0.40	0.037	0.45	1.6
101.79	104.55	2.76	563047	HYP	F/ZN	1	10400	0.38	0.045	0.41	1.2
104.55	107.29	2.74	563048	HYP	BRXC	7	10320	0.30	0.028	0.34	1.1
107.29	109.73	2.44	563049	HYP	BRXC	7	8400	0.23	0.012	0.34	1.2
109.73	111.86	2.13	563050	HYP	BRXC	5	8260	0.48	0.042	0.45	3.1
111.86	114.76	2.90	563051	HYP	BRXC	7	12700	0.66	0.034	0.69	2.8
114.76	116.43	1.67	563052	HYP	BRXC	3	6520	0.43	0.039	0.45	1.5
116.43	119.48	3.05	563053	HYP	BRXC	7	12600	0.41	0.038	0.34	1.8
119.48	122.22	2.74	563054	HYP	BRXC	7	12840	0.40	0.026	0.34	1.2
122.22	125.27	3.05	563055	HYP	BRXC	7	11800	0.38	0.049	0.38	1.3
125.27	128.17	2.90	563056	HYP	BRXC	7	10300	0.30	0.039	0.17	1.5
128.17	131.37	3.20	563057	HYP	BRXC	7	13130	0.19	0.014	0.34	0.9
131.37	134.42	3.05	563058	HYP	BRXC	7	11280	0.27	0.036	0.38	1.2
134.42	136.09	1.67	563059	HYP	BRXC	7	5240	0.29	0.040	0.38	1.0
136.09	139.29	3.20	563060	HYP	BRXC	7	11220	0.47	0.063	0.55	2.7
139.29	142.34	3.05	563061	HYP	BRXC	7	11460	0.31	0.051	0.34	1.7
142.34	145.38	3.04	563062	HYP	BRXC	7	11940	0.32	0.038	0.34	1.5
145.38	148.13	2.75	563063	HYP	BRXC	7	8000	0.41	0.042	0.51	2.0
148.13	150.57	2.44	563064	HYP	F/ZN	7	4500	0.29	0.048	0.34	1.5
150.57	153.31	2.74	563065	HYP	F/ZN	1	5760	0.23	0.010	0.17	1.1
153.31	155.45	2.14	563066	HYP	F/ZN	1	7100	0.15	0.016	0.10	1.0
155.45	158.19	2.74	563067	HYP	F/ZN	1	8700	0.28	0.048	0.34	4.5
158.19	161.54	3.35	563068	HYP	F/ZN	1	8460	0.37	0.043	0.38	1.6
161.54	164.89	3.35	563069	HYP	BRXC	1	12120	0.54	0.035	0.58	2.0
164.89	167.79	2.90	563070	HYP	BRXC	7	7980	0.30	0.027	0.27	1.4
167.79	170.07	2.28	563071	HYP	BRXC	7	6340	0.28	0.016	0.58	1.0
170.07	172.82	2.75	563072	HYP	BRXC	7	8280	0.33	0.016	0.31	1.1
172.82	175.86	3.04	563073	HYP	BRXC	7	9500	0.27	0.024	0.27	0.9
175.86	178.92	3.06	563074	HYP	BRXC	7	10580	0.24	0.022	0.27	0.9
178.92	181.96	3.04	563075	HYP	BRXC	7	11580	0.21	0.007	0.27	1.5
181.96	184.40	2.44	563076	HYP	BRXC	7	6960	0.35	0.012	0.41	1.9
184.40	187.45	3.05	563077	HYP	BRXC	7	10520	0.35	0.006	0.34	1.9

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
187.45	189.59	2.14	563078	HYP	PPXX	1	7200	0.15	0.004	0.24	1.2
189.59	192.63	3.04	563079	HYP	PPXX	1	10960	0.09	0.008	0.07	0.7
192.63	194.16	1.53	563080	HYP	PPXX	1	5480	0.20	0.010	0.24	1.4
194.16	197.21	3.05	563081	HYP	BRXC	1	13340	0.58	0.025	0.48	1.9
197.21	200.25	3.04	563082	HYP	BRXC	3	14320	0.63	0.027	0.48	2.1
200.25	203.61	3.36	563083	HYP	BRXC	5	15120	0.58	0.020	0.51	2.0
203.61	206.65	3.04	563084	HYP	BRXC	5	12040	0.48	0.011	0.41	2.0
206.65	209.70	3.05	563085	HYP	BRXC	5	13340	0.66	0.028	0.45	2.7
209.70	212.75	3.05	563086	HYP	BRXU	5	13300	0.95	0.069	0.51	4.8
212.75	215.80	3.05	563087	HYP	BRXU	5	13800	0.96	0.064	0.79	3.1
215.80	218.85	3.05	563088	HYP	BRXU	5	11280	0.80	0.060	0.55	2.4
218.85	221.89	3.04	563089	HYP	BRXU	5	12580	1.30	0.154	1.17	4.1
221.89	224.94	3.05	563090	HYP	QZMF	1	15100	0.57	0.028	0.41	5.7
224.94	227.99	3.05	563091	HYP	QZMF	5	11720	0.25	0.005	0.17	1.0
227.99	230.28	2.29	563092	HYP	QZMF	5	8300	0.22	0.007	0.14	0.7
230.28	233.17	2.89	563093	HYP	QZMF	5	13500	0.25	0.032	0.14	2.1
233.17	236.22	3.05	563094	HYP	QZMF	5	13540	0.18	0.007	0.14	1.0
236.22	237.90	1.68	563095	HYP	QZMF	5	7160	0.24	0.010	0.17	1.9
237.90	240.64	2.74	563096	HYP	QZMF	5	12800	0.23	0.016	0.17	1.5
240.64	243.53	2.89	563097	HYP	BRXU	5	11640	0.18	0.009	0.17	2.0
243.53	246.58	3.05	563098	HYP	BRXC	5	14840	0.20	0.006	0.21	1.8
246.58	249.63	3.05	563099	HYP	QZMF	5	13060	0.16	0.005	0.10	1.3
249.63	252.68	3.05	563100	HYP	QZMF	5	13700	0.25	0.011	0.14	3.6
252.68	255.88	3.20	563101	HYP	KGRD	5	13060	0.18	0.010	0.10	1.7
255.88	258.93	3.05	563102	HYP	KGRD	5	10600	0.20	0.015	0.14	1.1
258.93	262.13	3.20	563103	HYP	KGRD	5	10840	0.32	0.022	0.14	1.7
262.13	265.18	3.05	563104	HYP	KGRD	5	15460	0.22	0.019	0.31	2.1
265.18	268.38	3.20	563105	HYP	KGRD	5	12840	0.23	0.004	0.17	1.4
268.38	271.58	3.20	563106	HYP	KGRD	5	13640	0.19	0.003	0.14	1.4
271.58	274.62	3.04	563107	HYP	KGRD	1	14100	0.11	0.003	0.03	0.7
274.62	277.65	3.03	563108	HYP	KGRD	1	13280	0.19	0.003	0.14	1.3
277.65	280.72	3.07	563109	HYP	KGRD	5	13060	0.21	0.012	0.21	1.8
280.72	283.92	3.20	563110	HYP	KGRD	5	14260	0.20	0.021	0.17	2.0
283.92	287.12	3.20	563111	HYP	KGRD	5	13680	0.19	0.005	0.10	1.6
287.12	289.00	1.88	563112	HYP	KGRD	5	9020	0.19	0.009	0.10	1.4
289.00	290.78	1.78	563113	HYP	KGRD	5	7560	0.16	0.006	0.14	0.7
290.78	293.22	2.44	563114	HYP	KGRD	5	9920	0.17	0.016	0.14	1.0
293.22	296.27	3.05	563115	HYP	KGRD	5	13000	0.31	0.016	0.24	2.0
296.27	299.31	3.04	563116	HYP	BRXC	5	12460	0.18	0.009	0.17	1.3
299.31	302.36	3.05	563117	HYP	BRXC	1	11860	0.25	0.030	0.31	1.9
302.36	305.41	3.05	563118	HYP	BRXC	1	13020	0.23	0.049	0.31	0.9
305.41	308.46	3.05	563119	HYP	BRXC	1	12700	0.23	0.046	0.21	1.0
308.46	311.51	3.05	563120	HYP	BRXC	1	14700	0.25	0.037	0.34	1.2
311.51	314.55	3.04	563121	HYP	BRXC	1	13100	0.28	0.029	0.34	1.2

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
314.55	317.60	3.05	563122	HYP	BRXC	3	13360	0.34	0.018	0.38	1.8
317.60	320.65	3.05	563123	HYP	QZMF	3	13180	0.16	0.010	0.17	1.0
320.65	322.17	1.52	563124	HYP	QZMF	5	7080	0.15	0.005	0.14	0.9
322.17	325.22	3.05	563125	HYP	QZMF	5	13500	0.18	0.016	0.10	1.3
325.22	328.27	3.05	563126	HYP	QZDR	1	14240	0.50	0.031	0.62	4.4
328.27	331.47	3.20	563127	HYP	QZDR	5	16120	0.18	0.013	0.17	1.1
331.47	334.67	3.20	563128	HYP	QZDR	1	13620	0.28	0.016	0.21	1.9
334.67	337.72	3.05	563129	HYP	KGRD	1	12580	0.14	0.007	0.21	1.3
337.72	340.77	3.05	563130	HYP	KGRD	5	12820	0.20	0.007	0.17	1.7
340.77	343.81	3.04	563131	HYP	KGRD	5	13060	0.36	0.057	0.24	2.1
343.81	346.86	3.05	563132	HYP	KGRD	5	11140	0.22	0.011	0.21	1.1
346.86	348.08	1.22	563133	HYP	KGRD	5	5640	0.43	0.011	0.31	175.0
348.08	351.13	3.05	563134	HYP	KGRD	5	13360	0.28	0.005	0.21	3.1
351.13	354.18	3.05	563135	HYP	KGRD	5	12560	0.32	0.008	0.17	1.4
354.18	357.23	3.05	563136	HYP	KGRD	5	13120	0.68	0.034	0.45	2.7
357.23	360.28	3.05	563137	HYP	KGRD	5	12940	0.18	0.018	0.14	0.8
360.28	363.32	3.04	563138	HYP	KGRD	1	13480	0.16	0.035	0.21	0.7
363.32	366.36	3.04	563139	HYP	KGRD	1	12500	0.08	0.018	0.14	0.9
366.36	369.42	3.06	563140	HYP	KGRD	1	13860	0.09	0.010	0.14	0.6
369.42	372.47	3.05	563141	HYP	KGRD	1	12200	0.11	0.011	0.14	0.5
372.47	375.51	3.04	563142	HYP	KGRD	1	12220	0.18	0.006	0.24	0.8
375.51	378.56	3.05	563143	HYP	KGRD	1	12240	0.19	0.003	0.31	1.0
378.56	381.61	3.05	563144	HYP	KGRD	5	13860	0.34	0.023	0.21	2.2
381.61	384.66	3.05	563145	HYP	KGRD	5	13560	0.21	0.008	0.17	0.8
384.66	387.71	3.05	563146	HYP	KGRD	5	12000	0.23	0.002	0.27	1.4
387.71	390.75	3.04	563147	HYP	KGRD	5	12460	0.20	0.005	0.14	1.0
END OF HOLE											

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-145	Total Depth	456.29 m		
Northing	255,050.365	Casing Depth	5.48 m		Left In
Easting	111,100.676	Survey Data	Azimuth	Dip	Instrument
Elevation	1280.123 m	Collar 0.0 m	---	-90°	
Core Size	HQ	153 m	240°	-88.65°	Sperry Sun
Drilling Started	March 19, 1993	313 m	208°	-88.87°	Sperry Sun
Drilling Finished	March 30, 1993				
Logged by	M. Dittrick				

Purpose/Target: Redrill adjacent to former percussion hole (R1) to test the zone to depth.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wg (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.13	2.13		OVB							
2.13	5.49	3.36	567501	CAP	PPXX	1	9760	0.05	0.009	0.07	1.4
5.49	8.23	2.74	567502	CAP	PPXX	1	8260	0.07	0.007	0.10	1.0
8.23	11.58	3.35	567503	CAP	PPXX	1	10600	0.14	0.017	0.17	1.5
11.58	14.78	3.20	567504	CAP	PPXX	1	8820	0.14	0.022	0.24	3.8
14.78	17.37	2.59	567505	CAP	PPXX	2	7360	0.09	0.041	0.27	4.2
17.37	19.96	2.59	567506	CAP	PPXX	1	7000	0.07	0.021	0.10	1.6
19.96	22.71	2.75	567507	CAP	PPXX	1	8420	0.08	0.015	0.21	1.5
22.71	26.36	3.65	567508	CAP	PPXX	1	11460	0.07	0.011	0.07	1.9
26.36	29.11	2.75	567509	CAP	PPXX	1	8460	0.08	0.015	0.10	1.6
29.11	31.70	2.59	567510	CAP	PPXX	1	7700	0.11	0.016	0.17	1.7
31.70	33.83	2.13	567511	CAP	PPXX	1	5420	0.15	0.019	0.17	1.7
33.83	37.18	3.35	567512	CAP	PPXX	1	10120	0.16	0.021	0.38	2.6
37.18	40.08	2.90	567513	CAP	BRXT	5	11760	0.09	0.036	0.89	3.9
40.08	42.97	2.89	567514	CAP	BRXT	5	11400	0.10	0.041	0.34	2.7
42.97	45.42	2.45	567515	CAP	BRXT	5	8300	0.09	0.052	0.31	3.7
45.42	48.46	3.04	567516	CAP	BRXT	5	10000	0.07	0.068	0.45	4.0
48.46	50.90	2.44	567517	CAP	BRXT	2	6120	0.15	0.055	0.58	1.0
50.90	53.96	3.06	567518	CAP	BRXT	5	11120	0.08	0.103	0.58	5.2
53.96	57.00	3.04	567519	CAP	BRXT	5	9840	0.11	0.111	0.51	2.6
57.00	59.43	2.43	567520	CAP	BRXT	5	8160	0.10	0.111	0.41	1.6
59.43	62.48	3.05	567521	CAP	BRXT	2	10280	0.04	0.098	0.14	1.4
62.48	65.84	3.36	567522	CAP	BRXC	5	12120	0.03	0.073	0.24	1.8
65.84	68.88	3.04	567523	CAP	BRXC	2	11000	0.05	0.163	0.41	3.2
68.88	72.24	3.36	567524	CAP	BRXC	2	10100	0.03	0.113	0.34	2.8
72.24	75.29	3.05	567525	CAP	BRXC	2	10900	0.04	0.143	0.58	3.1
75.29	78.33	3.04	567526	CAP	BRXC	2	11600	0.10	0.093	0.65	2.6
78.33	81.38	3.05	567527	CAP	BRXC	5	11480	0.07	0.130	0.51	2.3
81.38	84.43	3.05	567528	CAP	BRXC	5	10740	0.05	0.112	0.31	1.9
84.43	87.48	3.05	567529	SOX	BRXC	5	10720	0.09	0.077	0.75	2.0
87.48	90.53	3.05	567530	SOX	BRXC	5	10200	0.12	0.049	0.79	2.5
90.53	93.57	3.04	567531	SOX	BRXC	5	10360	0.15	0.129	0.93	2.7
93.57	96.62	3.05	567532	SOX	BRXC	5	11600	0.11	0.126	0.58	2.1
96.62	99.67	3.05	567533	SOX	BRXC	5	13000	0.39	0.154	0.99	3.2

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.67	102.72	3.05	567534	SOX	BRXC	5	11100	0.22	0.126	0.62	1.7
102.72	105.46	2.74	567535	TRN	BRXC	5	9920	0.77	0.165	0.69	1.9
105.46	108.51	3.05	567536	TRN	BRXC	5	11740	1.05	0.049	0.79	2.4
108.51	111.71	3.20	567537	TRN	BRXC	5	10440	0.81	0.054	0.41	1.8
111.71	114.91	3.20	567538	SUS	BRXC	5	9600	1.21	0.094	0.48	2.0
114.91	117.96	3.05	567539	SUS	BRXC	5	11360	0.86	0.044	0.79	2.9
117.96	120.70	2.74	567540	SUS	BRXC	5	7760	1.23	0.040	0.41	1.8
120.70	123.75	3.05	567541	SUS	BRXC	5	10280	2.90	0.071	0.55	2.6
123.75	126.80	3.05	567542	SUS	BRXC	5	8860	1.59	0.073	0.55	1.9
126.80	129.84	3.04	567543	SUS	QZMI	5	10140	0.99	0.064	0.82	2.1
129.84	132.59	2.75	567544	SUS	BRXC	5	7120	0.67	0.061	0.79	1.8
132.59	135.79	3.20	567545	TRN	BRXC	7	10820	0.71	0.133	0.69	2.6
135.79	138.99	3.20	567546	TRN	BRXC	5	11120	0.81	0.114	0.86	3.6
138.99	142.80	3.81	567547	HYP	BRXC	7	14420	1.19	0.095	1.37	5.1
142.80	146.15	3.35	567548	HYP	BRXC	7	10920	0.97	0.137	1.58	2.9
146.15	149.20	3.05	567549	HYP	BRXC	7	8820	1.08	0.143	0.82	2.2
149.20	152.40	3.20	567550	HYP	BRXC	7	11620	0.46	0.032	0.62	2.5
152.40	156.06	3.66	567551	HYP	BRXC	2	16000	0.44	0.187	0.96	2.3
156.06	159.11	3.05	567552	HYP	BRXC	2	14400	0.45	0.069	0.89	2.4
159.11	162.15	3.04	567553	HYP	BRXC	7	11920	0.66	0.090	1.34	2.1
162.15	165.20	3.05	567554	HYP	BRXC	7	10960	0.59	0.086	1.10	2.4
165.20	168.25	3.05	567555	HYP	BRXC	7	10950	0.49	0.125	0.82	1.5
168.25	172.06	3.81	567556	HYP	BRXC	7	16000	0.61	0.090	1.23	2.9
172.06	174.80	2.74	567557	HYP	BRXC	7	11520	0.71	0.099	1.27	3.6
174.80	177.39	2.59	567558	HYP	BRXC	5	10140	0.45	0.065	0.45	4.4
177.39	180.14	2.75	567559	HYP	BRXC	2	10800	0.61	0.100	0.99	3.3
180.14	183.34	3.20	567560	HYP	BRXC	5	9160	0.55	0.158	1.03	2.2
183.34	186.53	3.19	567561	HYP	BRXC	7	11860	0.42	0.119	0.96	1.8
186.53	189.59	3.06	567562	HYP	BRXC	7	11000	0.37	0.127	0.69	2.0
189.59	192.63	3.04	567563	HYP	BRXC	7	12340	0.49	0.118	1.20	2.5
192.63	195.68	3.05	567564	HYP	BRXC	7	12220	0.38	0.080	0.55	2.0
195.68	197.21	1.53	567565	HYP	BRXC	7	6200	0.27	0.040	0.41	1.1
197.21	199.03	1.82	Mislatch - no sample	HYP	BRXC	7		0.39	0.065	0.46	2.8
199.03	200.86	1.83	567566	HYP	BRXC	7	7140	0.51	0.090	0.51	4.5
200.86	203.30	2.44	567567	HYP	BRXC	7	9540	0.25	0.080	0.45	1.8
203.30	206.35	3.05	567568	HYP	BRXC	7	11800	0.34	0.071	0.79	1.6
206.35	209.39	3.04	567569	HYP	BRXC	7	12060	0.31	0.111	0.75	1.0
209.39	212.45	3.06	567570	HYP	BRXC	7	12140	0.22	0.079	0.69	0.5
212.45	215.49	3.04	567571	HYP	BRXC	7	13460	0.25	0.091	0.79	2.5
215.49	217.63	2.14	567572	HYP	BRXC	7	6940	0.35	0.220	0.55	1.4
217.63	220.37	2.74	567573	HYP	BRXC	7	12360	0.17	0.057	0.27	0.7
220.37	223.42	3.05	567574	HYP	BRXC	7	13220	0.27	0.078	1.30	1.4
223.42	225.55	2.13	567575	HYP	BRXC	7	9420	0.17	0.089	0.38	0.8
225.55	228.60	3.05	567576	HYP	BRXC	7	10180	0.24	0.074	0.48	1.8

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
228.60	230.73	2.13	567577	HYP	BRXC	7	6120	0.33	0.107	0.58	2.0
230.73	233.17	2.44	567578	HYP	BRXC	7	7040	0.17	0.059	0.27	1.4
233.17	234.70	1.53	567579	HYP	BRXC	7	5000	0.25	0.076	0.21	3.1
234.70	237.13	2.43	567580	HYP	BRXC	7	7280	0.29	0.095	0.24	1.3
237.13	239.88	2.75	567581	HYP	BRXC	7	10100	0.31	0.105	0.75	1.7
239.88	242.93	3.05	567582	HYP	BRXC	7	10800	0.23	0.097	0.51	1.5
242.93	245.97	3.04	567583	HYP	BRXC	7	11560	0.13	0.049	0.21	0.9
245.97	249.02	3.05	567584	HYP	BRXC	7	11600	0.20	0.151	0.34	1.4
249.02	252.07	3.05	567585	HYP	BRXC	7	12300	0.32	0.147	0.65	1.5
252.07	255.12	3.05	567586	HYP	BRXC	7	11640	0.18	0.166	0.41	0.7
255.12	258.17	3.05	567587	HYP	BRXC	7	12020	0.09	0.056	0.14	0.8
258.17	261.21	3.04	567588	HYP	BRXC	7	11700	0.10	0.033	0.21	0.7
261.21	264.26	3.05	567589	HYP	BRXC	7	12680	0.13	0.063	0.24	1.0
264.26	267.30	3.04	567590	HYP	BRXC	7	12680	0.15	0.040	0.31	0.7
267.30	270.36	3.06	567591	HYP	BRXC	7	11840	0.14	0.023	0.17	0.9
270.36	273.41	3.05	567592	HYP	BRXC	7	12220	0.22	0.111	0.48	0.7
273.41	276.45	3.04	567593	HYP	BRXC	7	13400	0.26	0.099	0.62	0.9
276.45	279.50	3.05	567594	HYP	BRXC	7	13100	0.15	0.047	0.24	0.5
279.50	282.24	2.74	567595	HYP	BRXC	7	9360	0.21	0.131	0.34	0.6
282.24	285.60	3.36	567596	HYP	BRXC	7	10800	0.33	0.093	0.62	1.0
285.60	288.65	3.05	567597	HYP	BRXC	7	10880	0.25	0.222	0.41	0.8
288.65	291.69	3.04	567598	HYP	BRXC	7	11600	0.23	0.105	0.41	1.0
291.69	294.74	3.05	567599	HYP	BRXC	7	11000	0.13	0.061	0.38	0.8
294.74	297.79	3.05	567600	HYP	BRXC	7	13560	0.12	0.133	0.17	0.5
297.79	300.84	3.05	567601	HYP	BRXC	7	13000	0.09	0.158	0.14	0.6
300.84	303.89	3.05	567602	HYP	BRXC	7	11860	0.15	0.120	0.21	0.6
303.89	306.93	3.04	567603	HYP	BRXC	7	12300	0.16	0.076	0.21	0.8
306.93	309.98	3.05	567604	HYP	BRXC	7	11660	0.27	0.166	0.41	1.6
309.98	313.03	3.05	567605	HYP	BRXC	5	10760	0.14	0.148	0.31	0.9
313.03	316.08	3.05	567606	HYP	BRXC	5	12640	0.18	0.210	0.31	1.3
316.08	319.13	3.05	567607	HYP	BRXC	2	11600	0.16	0.101	0.24	1.5
319.13	322.17	3.04	567608	HYP	BRXC	2	10880	0.10	0.077	0.17	0.9
322.17	325.22	3.05	567609	HYP	BRXC	2	10460	0.11	0.154	0.14	0.5
325.22	328.27	3.05	567610	HYP	BRXC	2	12000	0.23	0.116	0.45	1.2
328.27	331.32	3.05	567611	HYP	BRXC	2	11320	0.15	0.076	0.27	0.9
331.32	334.37	3.05	567612	HYP	BRXC	5	10900	0.12	0.112	0.21	0.6
334.37	337.41	3.04	567613	HYP	BRXC	5	11480	0.21	0.079	0.38	1.2
337.41	340.46	3.05	567614	HYP	BRXC	7	13000	0.21	0.057	0.34	1.6
340.46	343.51	3.05	567615	HYP	BRXC	7	14140	0.21	0.071	0.31	1.2
343.51	346.56	3.05	567616	HYP	BRXC	7	12160	0.16	0.083	0.27	0.8
346.56	349.61	3.05	567617	HYP	BRXC	5	13100	0.16	0.033	0.14	0.9
349.61	352.65	3.04	567618	HYP	BRXC	5	11380	0.19	0.104	0.24	1.2
352.65	355.70	3.05	567619	HYP	BRXC	5	11160	0.18	0.119	0.27	1.2
355.70	358.75	3.05	567620	HYP	BRXC	5	11980	0.28	0.061	0.48	2.4

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
358.75	361.80	3.05	567621	HYP	BRXC	5	11980	0.19	0.148	0.34	1.4
361.80	363.02	1.22	567622	HYP	BRXC	5	4260	0.08	0.037	0.07	0.6
363.02	366.06	3.04	567623	HYP	BRXC	5	12280	0.14	0.096	0.21	1.0
366.06	369.11	3.05	567624	HYP	BRXC	5	11660	0.09	0.093	0.10	0.4
369.11	370.18	1.07	567625	HYP	BRXC	5	3520	0.13	0.081	0.14	0.5
370.18	373.38	3.20	567626	HYP	BRXC	5	11040	0.08	0.046	0.10	0.8
373.38	376.43	3.05	567627	HYP	BRXC	5	11640	0.15	0.082	0.21	0.8
376.43	379.48	3.05	567628	HYP	BRXC	5	12320	0.13	0.111	0.24	0.6
379.48	382.52	3.04	567629	HYP	BRXC	5	12680	0.09	0.073	0.07	0.5
382.52	385.57	3.05	567630	HYP	BRXC	5	13140	0.06	0.064	0.07	0.4
385.57	388.62	3.05	567631	HYP	BRXC	5	12200	0.08	0.050	0.03	0.4
388.62	391.82	3.20	567632	HYP	BRXC	5	11700	0.17	0.102	0.17	0.8
391.82	394.87	3.05	567633	HYP	PPXX	1	13200	0.04	0.019	0.07	<0.3
394.87	398.07	3.20	567634	HYP	PPXX	1	13220	0.06	0.020	0.14	0.3
398.07	401.12	3.05	567635	HYP	PPXX	1	12380	0.05	0.020	0.07	0.4
401.12	404.32	3.20	567636	HYP	PPXX	1	12560	0.07	0.018	0.07	0.3
404.32	407.52	3.20	567637	HYP	PPXX	1	13120	0.03	0.017	0.03	<0.3
407.52	410.56	3.04	567638	HYP	PPXX	1	12120	0.07	0.043	0.07	0.5
410.56	413.61	3.05	567639	HYP	BRXC	5	11840	0.15	0.034	0.14	0.6
413.61	416.66	3.05	567640	HYP	BRXC	5	11120	0.11	0.021	0.10	0.4
416.66	419.71	3.05	567641	HYP	BRXC	5	11660	0.08	0.081	0.03	0.5
419.71	422.76	3.05	567642	HYP	BRXC	5	11240	0.13	0.067	0.07	0.8
422.76	425.81	3.05	567643	HYP	BRXC	5	11120	0.16	0.045	0.21	1.0
425.81	428.85	3.04	567644	HYP	BRXC	5	10260	0.17	0.044	0.24	1.1
428.85	431.90	3.05	567645	HYP	BRXC	7	11300	0.17	0.073	0.21	0.9
431.90	434.95	3.05	567646	HYP	BRXC	7	12360	0.18	0.083	0.21	1.4
434.95	438.00	3.05	567647	HYP	BRXC	7	11160	0.09	0.030	0.10	0.9
438.00	441.05	3.05	567648	HYP	BRXC	7	11960	0.03	0.036	0.03	0.3
441.05	444.09	3.04	567649	HYP	BRXC	7	11880	0.11	0.114	0.10	1.2
444.09	447.14	3.05	567650	HYP	BRXC	7	11380	0.11	0.113	0.14	0.8
447.14	450.19	3.05	567651	HYP	BRXC	7	11420	0.16	0.105	0.14	1.2
450.19	453.23	3.04	567652	HYP	BRXC	7	11240	0.14	0.090	0.17	0.9
453.23	456.29	3.06	567653	HYP	BRXC	7	11640	0.07	0.075	0.07	0.7
END OF HOLE											
Note: No sample interval 197.21 to 199.03 - assigned arithmetic average of grade of adjoining samples.											

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-146	Total Depth	666.10 m		
Northing	254,962.78	Casing Depth	8.53 m		Left In
Easting	111,536.91	Survey Data	Azimuth	Dip	Instrument
Elevation	1166.52 m	Collar		-90.0°	
Core Size	HQ/NQ	151.49 m	274°	-88.4°	Sperry Sun
Drilling Started	March 26, 1993	309.98 m	270°	-88.0°	Sperry Sun
Drilling Finished	April 11, 1993	459.03 m	260°	-88.0°	Sperry Sun
Logged by	B. Bower	611.73 m	258°	-88.6°	Sperry Sun

Purpose/Target: To redrill adjacent to told Hole P31 and test the zone at depth (delineation drill hole).

Comments: Logging completed by S. de Wit. Reduced to NQ at 410.87 m.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	7.92			OVB							
7.92	10.06	2.14	563148	SUS	BRXC	3	3900	0.03	0.024	0.10	0.8
10.06	12.80	2.74	563149	SUS	BRXC	3	5620	0.03	0.049	0.21	1.8
12.80	15.85	3.05	563150	SUS	BRXC	3	4640	0.05	0.064	0.38	3.0
15.85	18.90	3.05	563151	SUS	BRXC	3	6100	0.06	0.066	0.34	3.7
18.90	21.95	3.05	563152	SUS	BRXC	3	7240	0.06	0.060	0.45	3.3
21.95	24.99	3.04	563153	SUS	BRXC	3	7960	0.10	0.078	0.62	4.7
24.99	28.04	3.05	563154	SUS	BRXC	5	9420	0.10	0.082	0.24	2.4
28.04	30.94	2.90	563155	SUS	BRXC	3	6340	0.40	0.043	0.69	2.5
30.94	33.07	2.13	563156	SUS	F/ZN	2	7820	0.62	0.055	0.31	2.0
33.07	35.36	2.29	563157	SUS	F/ZN	2	7560	0.55	0.048	0.48	2.3
35.36	38.10	2.74	563158	SUS	F/ZN	2	7760	1.06	0.086	0.58	2.8
38.10	40.23	2.13	563159	SUS	BRXC	3	7220	0.76	0.067	0.79	2.5
40.23	43.13	2.90	563160	SUS	BRXC	3	9320	0.57	0.094	0.41	2.1
43.13	46.33	3.20	563161	SUS	BRXC	3	10900	0.61	0.054	0.31	1.5
46.33	49.38	3.05	563162	SUS	BRXC	3	9240	0.74	0.125	0.48	3.7
49.38	52.43	3.05	563163	SUS	BRXC	3	10820	0.75	0.151	0.69	5.7
52.43	55.02	2.59	563164	SUS	BRXC	5	10700	0.80	0.294	0.69	6.8
55.02	58.37	3.35	563165	SUS	BRXC	5	11940	0.56	0.266	0.75	2.3
58.37	61.11	2.74	563166	SUS	F/ZN	2	7800	0.42	0.103	0.41	1.3
61.11	64.31	3.20	563167	SUS	F/ZN	2	11640	0.60	0.045	0.69	2.4
64.31	67.21	2.90	563168	SUS	BRXC	2	9640	0.85	0.167	1.03	2.6
67.21	70.10	2.89	563169	SUS	BRXC	2	11880	0.40	0.099	0.55	1.2
70.10	73.15	3.05	563170	TRN	BRXC	5	10820	0.48	0.090	0.69	1.7
73.15	75.59	2.44	563171	HYP	BRXC	5	9220	0.68	0.112	0.65	2.1
75.59	78.33	2.74	563172	HYP	BRXC	5	10300	0.64	0.266	0.75	2.8
78.33	81.38	3.05	563173	HYP	BRXC	5	11840	0.83	0.161	1.13	2.7
81.38	84.43	3.05	563174	HYP	BRXC	5	12780	0.29	0.091	0.45	1.2
84.43	87.48	3.05	563175	HYP	BRXC	5	12680	0.32	0.084	0.69	1.2
87.48	90.53	3.05	563176	HYP	BRXC	5	11020	0.44	0.094	0.51	2.1
90.53	93.27	2.74	563177	HYP	BRXC	5	9820	0.25	0.073	0.21	1.0
93.27	96.47	3.20	563178	HYP	BRXC	5	10520	0.20	0.086	0.27	1.3
96.47	98.76	2.29	563179	HYP	BRXC	7	7080	0.12	0.034	0.14	0.9
98.76	100.43	1.67	563180	HYP	BRXC	7	4720	0.26	0.136	0.31	1.6

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
100.43	103.02	2.59	563181	HYP	BRXC	5	10780	0.28	0.045	0.62	2.5
103.02	105.77	2.75	563182	HYP	BRXC	5	10900	0.25	0.077	0.31	1.3
105.77	108.81	3.04	563183	HYP	BRXC	5	12380	0.43	0.094	0.72	4.3
108.81	111.86	3.05	563184	HYP	BRXC	5	11320	0.43	0.090	0.79	2.9
111.86	114.91	3.05	563185	HYP	BRXC	5	10820	0.53	0.139	0.69	9.0
114.91	117.96	3.05	563186	HYP	BRXC	5	12540	0.22	0.020	0.24	1.0
117.96	121.01	3.05	563187	HYP	BRXC	5	11400	0.41	0.077	0.41	1.7
121.01	124.05	3.04	563188	HYP	BRXC	5	13500	0.45	0.026	0.45	3.2
124.05	127.10	3.05	563189	HYP	BRXC	5	13280	0.17	0.126	0.27	1.6
127.10	129.69	2.59	563190	HYP	BRXC	5	10800	0.12	0.024	0.10	0.5
129.69	131.91	2.22	563191	HYP	BRXC	7	9200	0.13	0.023	0.17	1.0
131.91	135.18	3.27	563192	HYP	BRXC	5	12060	0.27	0.028	0.27	2.5
135.18	138.23	3.05	563193	HYP	QZDR	1	12720	0.15	0.128	0.14	0.7
138.23	141.43	3.20	563194	HYP	QZDR	7	11960	0.21	0.039	0.21	0.9
141.43	144.48	3.05	563195	HYP	QZDR	7	13320	0.33	0.038	0.31	1.4
144.48	147.52	3.04	563196	HYP	BRXC	5	11980	0.28	0.060	0.34	1.2
147.52	150.72	3.20	563197	HYP	BRXC	2	14720	0.33	0.027	0.55	1.0
150.72	151.49	0.77	563198	HYP	F/ZN	2	1720	0.17	0.010	0.21	0.4
151.49	154.23	2.74	563199	HYP	F/ZN	2	12200	0.21	0.027	0.21	0.7
154.23	157.28	3.05	563200	HYP	BRXC	2	13980	0.23	0.087	0.31	0.8
157.28	160.32	3.04	563201	HYP	BRXC	5	12580	0.31	0.092	0.34	2.4
160.32	163.37	3.05	563202	HYP	BRXC	5	13980	0.22	0.102	0.31	1.1
163.37	166.42	3.05	563203	HYP	QZDR	7	13500	0.10	0.031	0.14	0.9
166.42	169.62	3.20	563204	HYP	BRXC	2	13760	0.12	0.058	0.14	0.5
169.62	172.12	2.50	563205	HYP	BRXC	7	10720	0.16	0.060	0.31	0.8
172.12	174.96	2.84	563206	HYP	BRXC	7	10720	0.23	0.051	0.45	0.8
174.96	176.48	1.52	563207	HYP	QZDR	7	7260	0.26	0.037	0.34	1.8
176.48	178.92	2.44	563208	HYP	BRXC	7	10840	0.23	0.039	0.27	1.2
178.92	181.51	2.59	563209	HYP	BRXC	7	10720	0.20	0.056	0.34	0.7
181.51	183.79	2.28	563210	HYP	BRXC	7	8140	0.25	0.036	0.38	1.2
183.79	186.84	3.05	563211	HYP	BRXC	7	12560	0.20	0.056	0.34	0.7
186.84	189.59	2.75	563212	HYP	BRXC	7	10940	0.26	0.026	0.34	0.9
189.59	192.63	3.04	563213	HYP	BRXC	7	9260	0.20	0.015	0.24	0.7
192.63	194.16	1.53	563214	HYP	BRXC	7	4880	0.23	0.019	0.27	1.0
194.16	196.60	2.44	563215	HYP	BRXC	7	9500	0.49	0.031	0.65	1.0
196.60	199.19	2.59	563216	HYP	BRXC	7	9400	0.29	0.237	0.69	0.8
199.19	202.39	3.20	563217	HYP	BRXC	7	10880	0.43	0.131	0.89	1.9
202.39	205.59	3.20	563218	HYP	BRXC	7	11380	0.18	0.011	0.24	1.1
205.59	206.81	1.22	563219	HYP	BRXC	7	4300	0.57	0.016	0.89	4.6
206.81	209.40	2.59	563220	HYP	BRXC	7	9600	0.64	0.057	1.54	2.7
209.40	212.45	3.05	563221	HYP	BRXC	7	11380	0.48	0.134	0.69	1.6
212.45	215.49	3.04	563222	HYP	BRXC	7	12060	0.20	0.016	0.34	1.1
215.49	218.54	3.05	563223	HYP	QZDR	7	12520	0.30	0.035	0.38	2.3
218.54	221.59	3.05	563224	HYP	BRXC	7	12180	0.26	0.012	0.41	1.1

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
221.59	224.64	3.05	563225	HYP	QZDR	7	11700	0.18	0.015	0.24	0.5
224.64	227.69	3.05	563226	HYP	BRXC	7	12780	0.21	0.043	0.24	<0.3
227.69	230.73	3.04	563227	HYP	BRXC	7	13560	0.19	0.017	0.21	<0.3
230.73	233.78	3.05	563228	HYP	QZDR	7	13200	0.16	0.050	0.34	0.8
233.78	236.83	3.05	563229	HYP	PPXX	1	12360	0.09	0.079	0.17	0.8
236.83	239.88	3.05	563230	HYP	PPXX	1	13060	0.17	0.015	0.21	1.9
239.88	242.93	3.05	563231	HYP	BRXC	7	13080	0.29	0.015	0.34	1.3
242.93	245.97	3.04	563232	HYP	BRXC	7	12780	0.29	0.036	0.45	1.1
245.97	249.02	3.05	563233	HYP	BRXC	7	11900	0.19	0.027	0.38	1.0
249.02	252.07	3.05	563234	HYP	BRXC	7	13620	0.12	0.067	0.17	0.4
252.07	255.12	3.05	563235	HYP	BRXC	7	11740	0.25	0.021	0.27	1.1
255.12	258.17	3.05	563236	HYP	BRXC	7	11060	0.46	0.019	0.58	2.3
258.17	261.21	3.04	563237	HYP	BRXC	5	12260	0.55	0.128	0.58	3.5
261.21	264.26	3.05	563238	HYP	BRXC	5	12220	0.27	0.017	0.34	14.5
264.26	267.31	3.05	563239	HYP	BRXC	3	11800	0.31	0.017	0.69	1.5
267.31	270.36	3.05	563240	HYP	BRXC	5	12380	0.25	0.022	0.31	1.5
270.36	273.41	3.05	563241	HYP	BRXC	5	12420	0.15	0.047	0.24	1.0
273.41	276.45	3.04	563242	HYP	BRXC	5	12200	0.16	0.044	0.27	10.6
276.45	279.50	3.05	563243	HYP	BRXC	5	12580	0.33	0.027	0.45	7.4
279.50	282.55	3.05	563244	HYP	BRXC	5	12200	0.13	0.032	0.21	5.3
282.55	285.60	3.05	563245	HYP	BRXC	5	11540	0.29	0.036	0.38	1.3
285.60	288.65	3.05	563246	HYP	QZDR	5	12500	0.19	0.027	0.27	1.0
288.65	291.69	3.04	563247	HYP	BRXC	3	13160	0.36	0.058	0.48	1.6
291.69	294.74	3.05	563248	HYP	BRXC	5	13020	0.24	0.022	0.45	1.1
294.74	297.79	3.05	563249	HYP	BRXC	7	13280	0.23	0.050	0.38	1.5
297.79	300.84	3.05	563250	HYP	BRXC	5	14080	0.20	0.038	0.38	18.7
300.84	303.89	3.05	563251	HYP	BRXC	5	13680	0.21	0.049	0.41	4.1
303.89	306.93	3.04	563252	HYP	BRXC	5	14000	0.17	0.055	0.38	4.9
306.93	309.98	3.05	563253	HYP	BRXC	5	13020	0.13	0.081	0.24	1.7
309.98	313.03	3.05	563254	HYP	BRXC	7	13320	0.18	0.033	0.31	0.8
313.03	316.08	3.05	563255	HYP	BRXC	5	14000	0.26	0.045	0.34	2.0
316.08	319.12	3.04	563256	HYP	BRXC	7	12700	0.21	0.019	0.31	1.2
319.12	322.17	3.05	563257	HYP	KGRD	5	13440	0.23	0.073	0.58	1.0
322.17	325.22	3.05	563258	HYP	KGRD	5	13820	0.17	0.109	0.21	0.7
325.22	328.27	3.05	563259	HYP	BRXC	5	13180	0.17	0.133	0.38	0.7
328.27	331.32	3.05	563260	HYP	BRXC	5	12680	0.16	0.103	0.24	1.6
331.32	334.36	3.04	563261	HYP	BRXC	5	11980	0.05	0.182	0.10	0.4
334.36	337.41	3.05	563262	HYP	KGRD	7	14980	0.05	0.063	0.10	0.6
337.41	340.46	3.05	563263	HYP	BRXC	7	9200	0.15	0.111	0.31	1.2
340.46	343.51	3.05	563264	HYP	BRXC	7	13580	0.22	0.106	0.24	1.9
343.51	346.56	3.05	563265	HYP	KGRD	5	12920	0.16	0.051	0.17	3.2
346.56	349.61	3.05	563266	HYP	KGRD	5	11960	0.11	0.024	0.31	2.9
349.61	352.65	3.04	563267	HYP	BRXT	5	13740	0.10	0.045	0.07	0.7
352.65	355.70	3.05	563268	HYP	BRXT	5	12860	0.15	0.022	0.10	4.9

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
355.70	358.75	3.05	563269	HYP	BRXT	5	12680	0.09	0.018	0.03	1.1
358.75	361.80	3.05	563270	HYP	BRXT	5	12460	0.06	0.041	0.03	0.6
361.80	364.85	3.05	563271	HYP	BRXT	5	13900	0.21	0.024	0.21	0.7
364.85	367.89	3.04	563272	HYP	BRXT	5	13780	0.15	0.031	0.58	1.0
367.89	370.94	3.05	563273	HYP	BRXT	5	13560	0.09	0.031	0.14	0.7
370.94	373.99	3.05	563274	HYP	BRXT	5	12980	0.13	0.023	0.10	0.5
373.99	377.04	3.05	563275	HYP	BRXT	5	11880	0.10	0.030	0.07	0.7
377.04	380.09	3.05	563276	HYP	BRXT	5	12320	0.22	0.054	0.21	1.3
380.09	383.13	3.04	563277	HYP	BRXT	5	12760	0.10	0.017	0.10	0.4
383.13	386.18	3.05	563278	HYP	BRXT	5	13100	0.13	0.026	0.17	0.6
386.18	389.23	3.05	563279	HYP	BRXT	5	13220	0.08	0.071	0.07	1.0
389.23	392.28	3.05	563280	HYP	BRXT	5	11780	0.12	0.017	0.10	1.2
392.28	395.33	3.05	563281	HYP	BRXT	7	12180	0.11	0.042	0.10	1.1
395.33	396.85	1.52	563282	HYP	BRXT	7	7200	0.09	0.034	0.07	2.7
396.85	399.90	3.05	563283	HYP	BRXC	7	14180	0.18	0.032	0.17	1.4
399.90	402.95	3.05	563284	HYP	BRXC	7	12920	0.13	0.014	0.14	1.0
402.95	405.99	3.04	563285	HYP	PPXX	7	10960	0.18	0.010	0.17	0.6
405.99	409.04	3.05	563286	HYP	PPXX	7	12560	0.29	0.026	0.21	1.2
409.04	410.87	1.83	563287	HYP	PPXX	7	7280	0.31	0.022	0.38	1.1
410.87	412.09	1.22	563288	HYP	PPXX	5	2220	0.16	0.088	0.17	0.7
412.09	414.53	2.44	563289	HYP	PPXX	5	5940	0.26	0.012	0.17	1.0
414.53	416.66	2.13	563290	HYP	PPXX	5	5600	0.18	0.006	0.17	0.7
416.66	419.71	3.05	563291	HYP	PPXX	5	6220	0.17	0.005	0.51	1.7
419.71	422.76	3.05	563292	HYP	PPXX	5	7500	0.11	0.003	0.03	1.1
422.76	425.80	3.04	563293	HYP	BRXC	7	7380	0.10	0.033	0.10	0.7
425.80	428.85	3.05	563294	HYP	BRXC	7	7580	0.10	0.007	0.07	0.8
428.85	431.90	3.05	563295	HYP	PPXX	5	7960	0.11	0.003	0.10	0.3
431.90	434.64	2.74	563296	HYP	PPXX	7	5740	0.19	0.006	0.14	0.7
434.64	437.54	2.90	563297	HYP	PPXX	7	7680	0.13	0.004	0.24	0.6
437.54	440.59	3.05	563298	HYP	BRXC	7	6620	0.12	0.022	0.10	0.4
440.59	443.79	3.20	563299	HYP	BRXC	5	7300	0.07	0.025	0.03	0.3
443.79	446.84	3.05	563300	HYP	BRXC	7	7000	0.06	0.058	0.07	0.3
446.84	449.88	3.04	563301	HYP	BRXC	5	6840	0.12	0.091	0.07	1.1
449.88	452.93	3.05	563302	HYP	BRXC	7	7160	0.12	0.349	0.10	0.3
452.93	456.13	3.20	563303	HYP	BRXC	5	7520	0.25	0.195	0.48	1.0
456.13	459.18	3.05	563304	HYP	BRXT	5	7740	0.08	0.017	0.07	<0.3
459.18	462.23	3.05	563305	HYP	BRXT	5	7220	0.07	0.033	0.10	1.4
462.23	465.43	3.20	563306	HYP	BRXT	5	7300	0.07	0.014	0.07	0.4
465.43	468.48	3.05	563307	HYP	BRXT	5	6480	0.06	0.020	0.07	0.3
468.48	471.52	3.04	563308	HYP	BRXT	5	6920	0.09	0.078	0.07	0.5
471.52	473.20	1.68	563309	HYP	BRXT	7	4140	0.05	0.016	<0.03	0.7
473.20	476.25	3.05	563310	HYP	BRXT	5	6900	0.31	0.085	0.38	1.4
476.25	477.62	1.37	563311	HYP	BRXT	5	2480	0.14	0.018	0.21	0.6
477.62	480.66	3.04	563312	HYP	BRXT	5	6780	0.11	0.035	0.07	0.9

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
480.66	483.71	3.05	563313	HYP	BRXT	5	7120	0.08	0.012	0.10	0.6
483.71	486.76	3.05	563314	HYP	BRXT	5	6840	0.08	0.048	0.14	0.8
486.76	489.81	3.05	563315	HYP	BRXT	5	6600	0.08	0.068	0.14	1.1
489.81	492.86	3.05	563316	HYP	BRXT	5	7100	0.07	0.058	0.07	0.3
492.86	495.91	3.05	563317	HYP	BRXT	5	6860	0.06	0.051	0.03	<0.3
495.91	498.97	3.06	563318	HYP	BRXT	5	7320	0.20	0.033	0.34	0.8
498.97	502.00	3.03	563319	HYP	BRXT	5	7080	0.07	0.046	0.07	0.5
502.00	505.05	3.05	563320	HYP	BRXT	5	7340	0.11	0.059	0.14	0.9
505.05	508.10	3.05	563321	HYP	BRXT	5	7740	0.13	0.083	0.14	1.2
508.10	511.15	3.05	563322	HYP	BRXT	5	5580	0.06	0.158	0.03	0.5
511.15	514.20	3.05	563323	HYP	BRXT	5	6080	0.14	0.095	0.10	0.8
514.20	517.24	3.04	563324	HYP	BRXT	5	7580	0.20	0.054	0.14	1.2
517.24	520.29	3.05	563325	HYP	BRXT	5	7960	0.06	0.020	<0.03	0.8
520.29	523.34	3.05	563326	HYP	BRXT	5	7440	0.10	0.059	0.07	1.0
523.34	526.38	3.04	563327	HYP	BRXT	5	6280	0.09	0.060	0.10	2.0
526.38	529.43	3.05	563328	HYP	BRXT	5	7280	0.16	0.049	0.24	0.9
529.43	532.48	3.05	563329	HYP	BRXT	5	6400	0.27	0.068	0.24	5.1
532.48	535.53	3.05	563330	HYP	BRXT	5	6200	0.24	0.068	0.21	22.6
535.53	538.89	3.36	563331	HYP	BRXT	5	7640	0.22	0.061	0.10	12.3
538.89	541.62	2.73	563332	HYP	BRXT	5	6440	0.34	0.081	0.34	1.2
541.62	542.85	1.23	563333	HYP	BRXT	5	1860	0.25	0.074	0.24	1.3
542.85	545.89	3.04	563334	HYP	BRXT	5	6300	0.23	0.049	0.07	0.9
545.89	548.94	3.05	563335	HYP	BRXT	5	7300	0.49	0.092	0.34	1.5
548.94	551.69	2.75	563336	HYP	BRXT	5	6500	0.31	0.086	0.10	1.0
551.69	553.82	2.13	563337	HYP	BRXT	5	5340	0.11	0.036	0.03	0.4
553.82	556.87	3.05	563338	HYP	BRXT	5	7180	0.24	0.143	0.10	0.7
556.87	559.92	3.05	563339	HYP	BRXT	5	6680	0.38	0.149	0.31	1.6
559.92	562.96	3.04	563340	HYP	BRXT	5	7000	0.26	0.064	0.21	1.6
562.96	566.01	3.05	563341	HYP	BRXT	5	7240	0.18	0.084	0.17	1.0
566.01	569.06	3.05	563342	HYP	BRXT	5	6940	0.28	0.062	0.21	1.3
569.06	572.11	3.05	563343	HYP	BRXT	5	7340	0.23	0.075	0.14	1.8
572.11	575.16	3.05	563344	HYP	BRXC	5	7540	0.21	0.078	0.14	1.6
575.16	578.20	3.04	563345	HYP	BRXC	7	7580	0.21	0.090	0.21	1.3
578.20	581.25	3.05	563346	HYP	BRXC	7	7140	0.16	0.080	0.10	1.0
581.25	584.30	3.05	563347	HYP	BRXC	7	7240	0.20	0.075	0.10	1.2
584.30	587.35	3.05	563348	HYP	BRXC	7	7520	0.17	0.072	0.14	0.9
587.35	590.40	3.05	563349	HYP	BRXC	7	7180	0.06	0.066	0.03	<0.3
590.40	593.44	3.04	563350	HYP	BRXC	7	6660	0.12	0.052	0.07	0.5
593.44	596.49	3.05	563351	HYP	BRXC	7	7280	0.08	0.038	0.10	0.3
596.49	599.54	3.05	563352	HYP	BRXC	7	7240	0.03	0.222	<0.03	<0.3
599.54	602.59	3.05	563353	HYP	BRXC	7	6960	0.13	0.056	0.10	0.4
602.59	605.64	3.05	563354	HYP	BRXC	7	7360	0.15	0.027	0.72	0.6
605.64	608.68	3.04	563355	HYP	BRXC	7	6680	0.07	0.043	0.07	<0.3
608.68	611.73	3.05	563356	HYP	BRXC	7	6260	0.09	0.041	0.10	<0.3

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
611.73	614.78	3.05	563357	HYP	BRXC	7	7160	0.10	0.012	0.07	<0.3
614.78	617.83	3.05	563358	HYP	BRXC	7	7700	0.12	0.206	0.10	0.4
617.83	620.88	3.05	563359	HYP	BRXC	7	7180	0.12	0.195	0.07	0.4
620.88	623.92	3.04	563360	HYP	BRXC	7	7760	0.18	0.139	0.21	0.5
623.92	626.97	3.05	563361	HYP	BRXC	7	7660	0.14	0.250	0.10	0.5
626.97	630.02	3.05	563362	HYP	BRXC	7	7840	0.16	0.115	0.27	0.9
630.02	633.07	3.05	563363	HYP	BRXC	7	7660	0.10	0.190	0.51	0.4
633.07	636.12	3.05	563364	HYP	BRXC	7	7500	0.09	0.247	0.07	0.5
636.12	639.16	3.04	563365	HYP	BRXC	7	7240	0.06	0.303	0.24	0.3
639.16	642.21	3.05	563366	HYP	BRXC	7	7300	0.24	0.158	0.17	4.0
642.21	645.25	3.04	563367	HYP	BRXC	7	7060	0.11	0.204	0.14	0.3
645.25	648.31	3.06	563368	HYP	BRXC	7	7620	0.13	0.148	0.07	0.6
648.31	651.35	3.04	563369	HYP	QZMI	7	7380	0.06	0.061	0.03	0.6
651.35	654.40	3.05	563370	HYP	QZMI	7	7120	0.03	0.107	<0.03	<0.3
654.40	657.45	3.05	563371	HYP	QZMI	7	7060	0.03	0.021	<0.03	<0.3
657.45	660.50	3.05	563372	HYP	QZMI	7	7220	0.04	0.042	<0.03	0.4
660.50	663.55	3.05	563373	HYP	QZMI	7	6880	0.03	0.037	<0.03	<0.3
663.55	666.60	3.05	563374	HYP	QZMI	7	7260	0.03	0.067	<0.03	<0.3
END OF HOLE											

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-147	Total Depth	623.93 m		
Northing	254,623.09	Casing Depth	2.44 m		Left In
Easting	111,012.31	Survey Data	Azimuth	Dip	Instrument
Elevation	1363.36 m	Collar		90.00°	
Core Size	HQ	151.5 m	195°	89.25°	Sperry Sun
Drilling Started	March 30, 1993	306.9 m	312°	89.50°	Sperry Sun
Drilling Finished	April 12, 1993	471.5 m	230°	89.25°	Sperry Sun
Logged by	M.P. Phillips	605.6 m	240°	88.75°	Sperry Sun
Purpose/Target:	Redrill P10				

Comments: *Alteration-Potassic (7) with phyllic (4 & 5) and clay (2 & 3) overprint, therefore more than one alteration facies may be present.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	*Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	4.57	2.13	567654	CAP	BRXT	3	7700	0.04	0.028	0.38	1.9
4.57	7.62	3.05	567655	CAP	BRXT	3	9320	0.01	0.025	0.34	2.2
7.62	9.75	2.13	567656	CAP	BRXT	3	6780	0.01	0.027	0.45	2.6
9.75	12.80	3.05	567657	CAP	BRXT	3	10700	0.02	0.048	0.48	2.7
12.80	15.54	2.74	567658	CAP	BRXT	3	7600	0.01	0.028	0.41	2.8
15.54	18.90	3.36	567659	CAP	BRXT	3	9660	0.05	0.036	0.27	1.7
18.90	20.42	1.52	567660	CAP	BRXT	3	4420	0.04	0.019	0.21	1.6
20.42	23.47	3.05	567661	CAP	BRXT	3	9220	0.02	0.036	0.48	3.5
23.47	26.37	2.90	567662	CAP	BRXT	3	6400	0.06	0.030	0.38	2.1
26.37	29.26	2.89	567663	CAP	BRXT	3	8980	0.09	0.039	0.41	2.1
29.26	32.16	2.90	567664	CAP	BRXT	3	7440	0.06	0.033	0.34	1.6
32.16	35.20	3.04	567665	CAP	BRXT	3	8520	0.06	0.049	0.41	1.7
35.20	37.34	2.14	567666	CAP	BRXT	3	6780	0.10	0.038	0.38	1.4
37.34	40.23	2.89	567667	CAP	BRXT	3	11700	0.05	0.031	0.31	1.0
40.23	43.28	3.05	567668	CAP	BRXT	3	10880	0.06	0.053	0.34	1.2
43.28	46.33	3.05	567669	CAP	BRXT	3	9820	0.06	0.054	0.48	1.6
46.33	48.92	2.59	567670	CAP	BRXT	3	9180	0.06	0.037	0.45	2.6
48.92	52.12	3.20	567671	CAP	BRXT	3	10600	0.04	0.062	0.48	3.2
52.12	55.47	3.35	567672	CAP	BRXT	3	11240	0.01	0.045	0.45	4.5
55.47	58.52	3.05	567673	CAP	BRXT	3	9960	0.04	0.043	0.62	3.0
58.52	61.57	3.05	567674	CAP	BRXT	3	10300	0.06	0.032	0.41	2.5
61.57	64.62	3.05	567675	CAP	BRXT	3	10160	0.07	0.033	0.79	3.2
64.62	67.67	3.05	567676	CAP	BRXT	3	10640	0.05	0.040	0.27	2.7
67.67	70.71	3.04	567677	CAP	BRXT	3	11320	0.07	0.041	0.72	2.7
70.71	73.76	3.05	567678	CAP	BRXT	3	10380	0.05	0.037	0.72	3.6
73.76	76.84	3.08	567679	CAP	BRXT	3	11060	0.04	0.052	0.58	3.4
76.84	79.86	3.02	567680	CAP	BRXT	3	11400	0.02	0.049	0.48	4.2
79.86	82.91	3.05	567681	CAP	BRXT	3	10580	0.03	0.044	1.03	4.2
82.91	85.95	3.04	567682	CAP	BRXT	3	12060	0.04	0.028	0.89	3.8
85.95	89.00	3.05	567683	CAP	BRXT	3	11120	0.06	0.047	0.55	2.5
89.00	92.05	3.05	567684	CAP	BRXT	3	12980	0.07	0.046	1.06	2.1
92.05	95.09	3.04	567685	CAP	BRXT	3	12220	0.10	0.058	0.86	2.0
95.09	98.15	3.06	567686	CAP	BRXT	3	12660	0.07	0.048	0.86	3.2

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.15	101.19	3.04	567687	SOX	BRXT	3	12700	0.12	0.049	2.64	2.5
101.19	104.24	3.05	567688	SOX	BRXT	3	13660	0.09	0.064	0.79	2.3
104.24	107.29	3.05	567689	SOX	BRXT	3	13580	0.17	0.047	0.75	1.8
107.29	110.34	3.05	567690	SOX	BRXT	3	12420	0.24	0.065	0.75	2.4
110.34	113.39	3.05	567691	SOX	BRXT	3	13280	0.64	0.071	1.03	2.5
113.39	116.43	3.04	567692	SUS	BRXT	5	12960	0.47	0.091	1.30	3.2
116.43	119.48	3.05	567693	SUS	BRXT	5	13340	0.41	0.043	0.82	2.3
119.48	122.53	3.05	567694	SUS	BRXT	5	13300	0.61	0.029	1.51	5.1
122.53	125.58	3.05	567695	SUS	BRXT	5	13320	0.52	0.038	1.17	3.8
125.58	128.63	3.05	567696	SUS	BRXT	5	12600	0.46	0.030	0.69	2.0
128.63	131.67	3.04	567697	SUS	BRXT	5	12180	0.69	0.046	0.82	2.2
131.67	134.72	3.05	567698	SUS	BRXT	5	12220	0.36	0.078	0.58	1.6
134.72	137.77	3.05	567699	SUS	BRXT	5	12800	0.88	0.062	1.03	3.5
137.77	140.82	3.05	567700	SUS	BRXT	5	11820	0.61	0.077	0.89	3.5
140.82	142.34	1.52	567701	SUS	BRXT	5	6560	0.66	0.050	0.65	1.8
142.34	145.39	3.05	567702	SUS	BRXT	5	13940	0.45	0.038	0.41	1.7
145.39	148.43	3.04	567703	SUS	BRXT	5	13600	0.61	0.057	0.69	5.0
148.43	151.49	3.06	567704	SUS	BRXT	5	13280	0.58	0.088	0.89	4.8
151.49	154.53	3.04	567705	SUS	BRXT	5	12460	0.74	0.105	0.69	7.0
154.53	157.58	3.05	567706	SUS	BRXT	5	12140	0.75	0.081	0.62	6.0
157.58	160.63	3.05	567707	HYP	BRXT	5	10540	1.15	0.095	1.17	5.2
160.63	163.68	3.05	567708	HYP	BRXT	5	10780	0.93	0.091	2.02	4.0
163.68	166.73	3.05	567709	HYP	BRXC	5	13560	0.44	0.071	0.99	2.1
166.73	169.77	3.04	567710	HYP	BRXC	7/5	13500	0.42	0.070	0.86	1.7
169.77	172.82	3.05	567711	HYP	BRXC	5/2	12760	0.29	0.032	0.51	1.9
172.82	175.87	3.05	567712	HYP	BRXC	7/4	11720	0.44	0.051	0.72	3.8
175.87	178.92	3.05	567713	HYP	BRXC	7/1	13460	0.31	0.044	0.55	1.4
178.92	181.96	3.04	567714	HYP	BRXC	7/1	13560	0.29	0.033	0.62	1.6
181.96	185.01	3.05	567715	HYP	BRXC	7/2	14180	0.27	0.028	0.45	1.3
185.01	188.06	3.05	567716	HYP	BRXC	7/5	13800	0.39	0.067	0.58	2.3
188.06	191.11	3.05	567717	HYP	BRXC	7/4	12840	0.26	0.025	0.41	1.7
191.11	194.16	3.05	567718	HYP	BRXC	7/5	12740	0.32	0.032	0.65	2.5
194.16	197.21	3.05	567719	HYP	BRXC	7/5	12500	0.45	0.077	0.75	2.9
197.21	200.25	3.04	567720	HYP	BRXC	7/4	12100	0.29	0.036	0.41	1.5
200.25	203.30	3.05	567721	HYP	QZMI	7/2	13360	0.29	0.018	0.45	2.1
203.30	206.35	3.05	567722	HYP	QZMI	2	11740	0.27	0.022	0.51	2.5
206.35	209.40	3.05	567723	HYP	QZMI	7/4	14020	0.39	0.036	0.58	2.9
209.40	212.45	3.05	567724	HYP	QZMI	7/2	13380	0.27	0.045	0.45	1.4
212.45	215.49	3.04	567725	HYP	QZMI	7/2	14060	0.24	0.029	0.34	1.4
215.49	218.54	3.05	567726	HYP	QZMI	7/2	13840	0.20	0.025	0.24	1.0
218.54	221.58	3.04	567727	HYP	QZMI	7/2	13460	0.21	0.051	0.27	1.1
221.58	224.63	3.05	567728	HYP	QZMI	2	12880	0.32	0.066	0.51	1.7
224.63	227.69	3.06	567729	HYP	QZMI	2	14300	0.35	0.077	0.48	1.6
227.69	230.73	3.04	567730	HYP	QZMI	7/2	12660	0.27	0.035	0.51	1.5

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.73	233.78	3.05	567731	HYP	QZMI	7	12380	0.10	0.051	0.24	1.4
233.78	236.83	3.05	567732	HYP	QZMI	4/2	12680	0.31	0.030	0.45	1.5
236.83	239.88	3.05	567733	HYP	QZMI	5	13180	0.25	0.042	0.41	1.6
239.88	242.93	3.05	567734	HYP	QZMI	2/1	12980	0.26	0.030	0.41	1.5
242.93	245.97	3.04	567735	HYP	QZMI	7/2	12480	0.15	0.042	0.24	0.8
245.97	249.02	3.05	567736	HYP	QZMI	7/2	12620	0.17	0.027	0.34	1.0
249.02	252.07	3.05	567737	HYP	QZMI	4/2	12900	0.33	0.042	0.55	1.4
252.07	255.12	3.05	567738	HYP	QZMI	4/2	12200	0.24	0.045	0.48	1.3
255.12	257.86	2.74	567739	HYP	QZMI	4	8840	0.29	0.034	0.34	2.8
257.86	260.90	3.04	567740	HYP	QZMI	5/4	13140	0.36	0.029	0.96	3.4
260.90	263.96	3.06	567741	HYP	QZMI	5/4	12720	0.70	0.042	0.51	5.8
263.96	267.00	3.04	567742	HYP	QZMI	4/2	12120	0.25	0.030	0.41	1.5
267.00	270.05	3.05	567743	HYP	QZMI	7/4	13360	0.25	0.024	0.38	1.8
270.05	273.25	3.20	567744	HYP	QZMI	7/5	13240	0.19	0.019	0.27	1.8
273.25	276.45	3.20	567745	HYP	QZMI	7/4	13740	0.27	0.023	0.31	2.3
276.45	279.50	3.05	567746	HYP	QZMI	7/4	14680	0.24	0.034	0.51	1.1
279.50	282.50	3.00	567747	HYP	QZMI	7/4	13360	0.23	0.032	0.31	1.0
282.50	285.60	3.10	567748	HYP	QZMI	7/2	13560	0.17	0.029	0.24	1.5
285.60	288.65	3.05	567749	HYP	QZMI	7/1	12780	0.22	0.028	0.31	0.9
288.65	291.70	3.05	567750	HYP	QZMI	7/5	13080	0.26	0.020	0.45	1.1
291.70	294.74	3.04	567751	HYP	QZMI	7/5	12860	0.26	0.035	0.38	1.5
294.74	297.79	3.05	567752	HYP	QZMI	5	12870	0.25	0.067	0.41	1.3
297.79	300.84	3.05	567753	HYP	QZMI	2	13340	0.24	0.082	0.38	1.5
300.84	303.89	3.05	567754	HYP	QZMI	4	12220	0.36	0.087	0.45	2.3
303.89	306.93	3.04	567755	HYP	QZMI	4	12360	0.28	0.044	0.41	1.2
306.93	309.99	3.06	567756	HYP	QZMI	4	12960	0.26	0.042	0.27	1.3
309.99	313.03	3.04	567757	HYP	QZMI	7/5	12900	0.25	0.045	0.31	1.2
313.03	316.08	3.05	567758	HYP	QZMI	5/4	12320	0.28	0.057	0.17	2.9
316.08	319.13	3.05	567759	HYP	QZMI	4	11200	0.28	0.060	0.34	2.7
319.13	322.17	3.04	567760	HYP	QZMI	5/4	11340	0.24	0.048	0.21	1.6
322.17	325.22	3.05	567761	HYP	QZMI	7/4	10800	0.23	0.045	0.27	1.8
325.22	328.27	3.05	567762	HYP	QZMI	7/4	9760	0.30	0.032	0.34	1.3
328.27	331.32	3.05	567763	HYP	QZMI	7/4	11920	0.43	0.039	0.48	2.0
331.32	334.37	3.05	567764	HYP	QZMI	7	12800	0.30	0.043	0.27	1.4
334.37	337.41	3.04	567765	HYP	QZMI	7/2	13060	0.50	0.046	0.34	2.4
337.41	340.46	3.05	567766	HYP	QZMI	7	13000	0.30	0.052	0.34	1.8
340.46	343.51	3.05	567767	HYP	QZMI	5	12160	0.50	0.068	0.48	2.5
343.51	346.56	3.05	567768	HYP	QZMI	7/2	12700	0.29	0.062	0.31	1.2
346.56	349.61	3.05	567769	HYP	QZMI	7/2	12920	0.33	0.089	0.34	1.5
349.61	352.65	3.04	567770	HYP	QZMI	7/5	14060	0.34	0.035	0.21	3.8
352.65	355.70	3.05	567771	HYP	QZMI	7/5	13140	0.17	0.031	0.17	2.3
355.70	358.75	3.05	567772	HYP	QZMI	7/2	13320	0.14	0.029	0.10	0.6
358.75	361.80	3.05	567773	HYP	QZMI	7/2	14670	0.19	0.029	0.14	0.8
361.80	364.85	3.05	567774	HYP	QZMI	5	12220	0.23	0.074	0.21	0.9

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
364.85	367.89	3.04	567775	HYP	QZMI	7/5	12000	0.16	0.030	0.14	0.9
367.89	370.91	3.02	567776	HYP	QZMI	7/5	13780	0.19	0.077	0.17	0.9
370.91	373.99	3.08	567777	HYP	QZMI	7/5	13540	0.20	0.059	0.14	1.2
373.99	377.04	3.05	567778	HYP	QZMI	5/2	13260	0.36	0.103	0.24	1.9
377.04	380.09	3.05	567779	HYP	QZMI	5	13780	0.25	0.083	0.21	1.9
380.09	383.13	3.04	567780	HYP	QZMI	5/2	13800	0.17	0.037	0.10	1.4
383.13	386.18	3.05	567781	HYP	QZMI	5	13860	0.22	0.087	0.17	1.5
386.18	389.23	3.05	567782	HYP	QZMI	5	12940	0.15	0.043	0.10	0.8
389.23	392.28	3.05	567783	HYP	QZMI	7/5	12800	0.15	0.031	0.07	1.1
392.28	395.33	3.05	567784	HYP	QZMI	7/5	13420	0.08	0.046	0.07	1.0
395.33	398.37	3.04	567785	HYP	QZMI	7/5	13400	0.12	0.046	0.10	0.9
398.37	401.42	3.05	567786	HYP	QZMI	5	12480	0.16	0.046	0.14	17.2
401.42	404.47	3.05	567787	HYP	PPXX	5	13080	0.15	0.060	0.17	26.3
404.47	407.52	3.05	567788	HYP	PPXX	7/5	11200	0.12	0.032	0.17	0.5
407.52	410.57	3.05	567789	HYP	PPXX	7/2	10280	0.12	0.042	0.14	0.6
410.57	413.61	3.04	567790	HYP	PPXX	7/2	11220	0.12	0.051	0.10	0.5
413.61	416.66	3.05	567791	HYP	PPXX	7/2	11740	0.20	0.037	0.24	1.0
416.66	419.71	3.05	567792	HYP	PPXX	7/2	10500	0.15	0.057	0.14	1.0
419.71	422.76	3.05	567793	HYP	BRXC	7/2	11300	0.20	0.055	0.10	1.5
422.76	425.81	3.05	567794	HYP	BRXC	5	10860	0.29	0.059	0.21	2.5
425.81	428.85	3.04	567795	HYP	BRXC	5	11500	0.17	0.035	0.24	1.0
428.85	431.90	3.05	567796	HYP	BRXC	7/5	12480	0.13	0.028	0.14	0.7
431.90	434.94	3.04	567797	HYP	BRXC	7/5	11360	0.13	0.048	0.14	2.6
434.94	438.00	3.06	567798	HYP	BRXC	7/5	11760	0.12	0.033	0.10	0.8
438.00	441.05	3.05	567799	HYP	BRXC	7/5	12340	0.13	0.024	0.10	0.7
441.05	444.09	3.04	567800	HYP	BRXC	7/5	12800	0.12	0.042	0.10	0.4
444.09	447.14	3.05	567801	HYP	BRXC	7/5	13540	0.16	0.042	0.14	0.5
447.14	450.19	3.05	567802	HYP	BRXC	7/5	13260	0.22	0.040	0.14	1.7
450.19	453.24	3.05	567803	HYP	BRXC	7/5	13460	0.18	0.045	0.17	0.9
453.24	456.29	3.05	567804	HYP	BRXC	7/5	13400	0.16	0.113	0.21	0.6
456.29	459.33	3.04	567805	HYP	KGRD	7/2	12620	0.22	0.082	0.17	0.8
459.33	462.38	3.05	567806	HYP	KGRD	7/2	13020	0.21	0.025	0.27	1.0
462.38	465.43	3.05	567807	HYP	KGRD	7/2	14320	0.20	0.036	0.24	1.0
465.43	468.48	3.05	567808	HYP	KGRD	7/2	13380	0.20	0.082	0.24	0.9
468.48	471.52	3.04	567809	HYP	KGRD	7/2	13900	0.18	0.059	0.31	0.9
471.52	474.57	3.05	567810	HYP	KGRD	7/2	13160	0.23	0.044	0.21	0.8
474.57	477.62	3.05	567811	HYP	KGRD	7/2	9060	0.20	0.081	0.24	1.0
477.62	480.67	3.05	567812	HYP	KGRD	7/2	18400	0.18	0.062	0.14	1.2
480.67	483.71	3.04	567813	HYP	KGRD	7/2	12520	0.27	0.046	0.21	1.2
483.71	486.76	3.05	567814	HYP	KGRD	5/4	13340	0.27	0.104	0.31	1.3
486.76	489.81	3.05	567815	HYP	KGRD	2/1	13180	0.16	0.032	0.17	0.8
489.81	492.86	3.05	567816	HYP	KGRD	5/4	13740	0.23	0.052	0.17	1.0
492.86	495.91	3.05	567817	HYP	KGRD	5/4	13320	0.22	0.098	0.24	1.0
495.91	498.95	3.04	567818	HYP	KGRD	5/4	12880	0.19	0.055	0.17	0.7

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
498.95	502.00	3.05	567819	HYP	KGRD	5/4	13640	0.19	0.034	0.14	0.7
502.00	505.05	3.05	567820	HYP	KGRD	4/2	13500	0.12	0.079	0.14	0.4
505.05	508.10	3.05	567821	HYP	KGRD	7/2	12120	0.11	0.031	0.10	0.4
508.10	511.15	3.05	567822	HYP	KGRD	7/2	12860	0.07	0.028	0.07	0.4
511.15	513.89	2.74	567823	HYP	KGRD	7/2	11980	0.13	0.041	0.14	0.6
513.89	516.94	3.05	567824	HYP	KGRD	7/5	13660	0.09	0.040	0.07	0.6
516.94	520.29	3.35	567825	HYP	KGRD	5/2	14640	0.08	0.027	0.10	1.1
520.29	523.34	3.05	567826	HYP	KGRD	5/2	12040	0.13	0.065	0.17	1.2
523.34	526.39	3.05	567827	HYP	KGRD	7	12940	0.07	0.041	0.07	0.9
526.39	527.76	1.37	567828	HYP	KGRD	5	7200	0.07	0.086	0.03	1.2
527.76	530.80	3.04	567829	HYP	KGRD	7	14060	0.10	0.048	0.07	0.5
530.80	534.00	3.20	567830	HYP	KGRD	5/2	12540	0.21	0.049	0.17	1.3
534.00	537.05	3.05	567831	HYP	KGRD	5/2	11780	0.12	0.097	0.14	1.1
537.05	540.11	3.06	567832	HYP	KGRD	5	11340	0.22	0.042	0.17	1.2
540.11	541.63	1.52	567833	HYP	KGRD	5/4	5180	0.31	0.053	0.34	2.3
541.63	544.68	3.05	567834	HYP	PPXX	7/2	12000	0.13	0.035	0.14	0.6
544.68	547.73	3.05	567835	HYP	PPXX	7/1	11080	0.11	0.048	0.14	0.5
547.73	550.77	3.04	567836	HYP	PPXX	7/2	12700	0.12	0.034	0.10	0.5
550.77	553.82	3.05	567837	HYP	PPXX	7/2	12500	0.10	0.053	0.17	0.5
553.82	556.87	3.05	567838	HYP	PPXX	5/4	11440	0.10	0.067	0.10	2.5
556.87	559.92	3.05	567839	HYP	PPXX	5	11600	0.07	0.129	0.07	0.4
559.92	562.96	3.04	567840	HYP	PPXX	7/2	11700	0.04	0.038	0.03	<0.3
562.96	566.01	3.05	567841	HYP	PPXX	7/2	11900	0.06	0.066	0.17	0.5
566.01	569.06	3.05	567842	HYP	PPXX	7	11480	0.07	0.027	0.10	0.6
569.06	572.10	3.04	567843	HYP	PPXX	7/5	12200	0.05	0.050	0.86	14.9
572.10	575.16	3.06	567844	HYP	PPXX	5	11860	0.05	0.064	0.07	0.5
575.16	578.20	3.04	567845	HYP	PPXX	5	11580	0.08	0.062	0.07	0.5
578.20	581.25	3.05	567846	HYP	PPXX	7/5	10760	0.06	0.036	0.07	0.3
581.25	584.30	3.05	567847	HYP	PPXX	7/2	11680	0.09	0.038	0.10	0.5
584.30	587.35	3.05	567848	HYP	PPXX	7/5	11740	0.11	0.033	0.03	0.5
587.35	590.40	3.05	567849	HYP	PPXX	7/2	12000	0.13	0.037	0.14	0.4
590.40	593.45	3.05	567850	HYP	PPXX	7/4	12120	0.08	0.049	0.03	0.3
593.45	596.49	3.04	567851	HYP	PPXX	5/2	11660	0.07	0.043	0.07	0.5
596.49	599.54	3.05	567852	HYP	PPXX	5	11180	0.05	0.054	0.07	0.6
599.54	602.59	3.05	567853	HYP	PPXX	7/5	11880	0.05	0.036	1.03	0.6
602.59	605.64	3.05	567854	HYP	PPXX	7/2	12560	0.07	0.052	<0.03	0.3
605.64	608.69	3.05	567855	HYP	PPXX	7/2	13380	0.07	0.043	<0.03	0.3
608.69	611.73	3.04	567856	HYP	PPXX	5/2	11740	0.11	0.069	<0.03	0.7
611.73	614.78	3.05	567857	HYP	PPXX	5/2	12140	0.10	0.029	<0.03	0.6
614.78	617.83	3.05	567858	HYP	PPXX	5/3	10980	0.09	0.062	<0.03	0.4
617.83	620.88	3.05	567859	HYP	PPXX	5/3	11100	0.23	0.082	0.14	1.2
620.88	623.93	3.05	567860	HYP	PPXX	7/5	11760	0.23	0.052	0.21	1.2
END OF HOLE											

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Hole Number	93-148	Total Depth	597.41 m
Northing	255,002.06	Casing Depth	7.92 m Left Out
Easting	110,497.89	Survey Data	Azimuth / Dip / Instrument
Elevation	1242.39 m	Collar	-90.00°
Core Size	HQ 3.05-422.15 m, NQ 422.15-597.41 m	144.8	114° -89.50° Sperry Sun
Drilling Started	April 3, 1993	304.8	92° -89.75° Sperry Sun
Drilling Finished	April 22, 1993	457.2	57° -89.25 ° Sperry Sun
Logged by	M. Dittrick	597.4	73° -89.00 ° Sperry Sun

Purpose/Target: Drill adjacent to previous holes (P12 and P26) to test the West Zone to depth.

Comments: Fractures along and perpendicular to core axis made core extremely blocky to 210 m.
Stockwork common in upper 200 m. Rehealed shears at 430-443, 492-499.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	6.70	3.65	572001	CAP	KGRD	2	5720	0.14	0.025	0.14	
6.70	9.75	3.05	572002	CAP	KGRD	2	2540	0.07	0.013	0.10	
9.75	12.80	3.05	572003	CAP	KGRD	2	8840	0.06	0.025	0.17	
12.80	15.85	3.05	572004	CAP	KGRD	2	8280	0.09	0.028	0.21	
15.85	17.37	1.52	572005	CAP	KGRD	2	5220	0.05	0.019	0.17	
17.37	20.73	3.36	572006	CAP	KGRD	2	9200	0.06	0.017	0.24	
20.73	23.77	3.04	572007	CAP	BRXT	2	7630	0.04	0.029	0.14	
23.77	26.52	2.75	572008	CAP	BRXT	2	8840	0.02	0.021	0.21	
26.52	29.57	3.05	572009	CAP	BRXT	2	9160	0.03	0.026	0.21	
29.57	32.61	3.04	572010	CAP	BRXT	2	9560	0.01	0.066	0.14	
32.61	35.66	3.05	572011	CAP	BRXT	2	8660	0.02	0.041	0.07	
35.66	38.71	3.05	572012	CAP	BRXT	2	9970	0.02	0.047	0.14	
38.71	41.76	3.05	572013	CAP	BRXT	2	10040	0.02	0.077	0.17	
41.76	44.81	3.05	572014	CAP	BRXT	2	7830	0.03	0.051	0.24	
44.81	47.85	3.04	572015	CAP	BRXT	2	8930	0.06	0.026	0.14	
47.85	50.90	3.05	572016	CAP	BRXT	2	10370	0.02	0.031	0.86	
50.90	53.95	3.05	572017	CAP	BRXT	2	10490	0.06	0.017	0.10	
53.95	57.00	3.05	572018	SOX	PPXX	2	9810	0.13	0.016	0.17	
57.00	60.05	3.05	572019	SOX	QZMI	7	9340	0.28	0.059	0.27	
60.05	63.09	3.04	572020	SOX	QZMI	7	10440	0.48	0.036	0.24	
63.09	64.92	1.83	572021	SOX	QZMI	7	6770	0.45	0.036	0.31	
64.92	67.67	2.75	572022	SOX	QZDR	7	8620	0.58	0.042	0.48	
67.67	70.71	3.04	572023	SOX	QZDR	7	10060	0.53	0.041	0.31	
70.71	73.76	3.05	572024	SOX	QZDR	7	7720	0.56	0.015	0.17	
73.76	76.81	3.05	572025	SOX	QZDR	7	7020	0.29	0.027	0.34	
76.81	78.33	1.52	572026	SOX	QZDR	7	5400	0.28	0.019	0.27	
78.33	81.38	3.05	572027	SOX	QZDR	7	9320	0.25	0.032	0.31	
81.38	83.21	1.83	572028	SOX	QZDR	7	6140	0.25	0.036	0.24	
83.21	86.25	3.04	572029	SOX	QZDR	7	10670	0.23	0.028	0.31	
86.25	89.30	3.05	572030	SUS	QZDR	7	9290	0.23	0.022	0.24	
89.30	92.35	3.05	572031	SUS	QZDR	7	4970	0.20	0.014	0.24	
92.35	95.40	3.05	572032	SUS	QZDR	7	9540	0.20	0.020	0.27	
95.40	98.45	3.05	572033	SUS	QZDR	7	16070	0.14	0.017	0.17	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.45	101.49	3.04	572034	SUS	QZDR	7	9410	0.23	0.027	0.27	
101.49	103.63	2.14	572035	SUS	QZDR	7	5740	0.25	0.013	0.17	
103.63	105.76	2.13	572036	SUS	PPXX	7	7400	0.20	0.032	0.31	
105.76	108.81	3.05	572037	SUS	QZDR	7	9430	0.24	0.018	0.31	
108.81	111.86	3.05	572038	SUS	QZDR	7	11230	0.18	0.020	0.27	
111.86	114.91	3.05	572039	SUS	QZDR	7	12170	0.11	0.016	0.14	
114.91	117.96	3.05	572040	HYP	QZDR	7	11250	0.16	0.023	0.21	
117.96	121.00	3.04	572041	HYP	PPXX	7	11720	0.16	0.012	0.21	
121.00	124.05	3.05	572042	HYP	PPXX	7	11700	0.17	0.022	0.17	
124.05	127.10	3.05	572043	HYP	PPXX	7	2720	0.28	0.019	0.31	
127.10	130.14	3.04	572044	HYP	PPXX	7	10710	0.23	0.018	0.24	
130.14	132.89	2.75	572045	HYP	PPXX	7	16850	0.26	0.030	0.27	
132.89	135.94	3.05	572046	HYP	PPXX	7	13340	0.27	0.017	0.31	
135.94	138.99	3.05	572047	HYP	PPXX	7	6320	0.37	0.034	0.48	
138.99	141.58	2.59	572048	HYP	PPXX	7	9700	0.24	0.028	0.24	
141.58	144.62	3.04	572049	HYP	PPXX	7	11700	0.42	0.026	0.51	
144.62	147.67	3.05	572050	HYP	PPXX	7	11050	0.19	0.028	0.17	
147.67	150.87	3.20	572051	HYP	PPXX	7	10440	0.16	0.038	0.14	
150.87	153.92	3.05	572052	HYP	PPXX	7	10580	0.20	0.024	0.21	
153.92	156.97	3.05	572053	HYP	PPXX	7	10530	0.24	0.018	0.27	
156.97	159.40	2.43	572054	HYP	PPXX	7	6950	0.14	0.012	0.21	
159.40	161.23	1.83	572055	HYP	PPXX	7	6260	0.27	0.025	0.31	
161.23	163.67	2.44	572056	HYP	PPXX	7	7400	0.29	0.047	0.48	
163.67	166.11	2.44	572057	HYP	PPXX	7	7990	0.42	0.074	0.51	
166.11	169.16	3.05	572058	HYP	PPXX	7	9180	0.36	0.040	0.45	
169.16	171.29	2.13	572059	HYP	PPXX	7	8600	0.23	0.040	0.24	
171.29	172.82	1.53	572060	HYP	BRXC	7	6820	0.47	0.015	0.27	
172.82	175.26	2.44	572061	HYP	BRXC	7	8190	0.15	0.012	0.24	
175.26	177.39	2.13	572062	HYP	BRXC	7	9290	0.21	0.022	0.24	
177.39	178.91	1.52	572063	HYP	BRXC	7	5810	0.17	0.027	0.27	
178.91	181.96	3.05	572064	HYP	BRXC	7	10530	0.31	0.029	0.58	
181.96	184.40	2.44	572065	HYP	BRXC	7	6460	0.43	0.038	0.58	
184.40	187.60	3.20	572066	HYP	BRXC	7	7070	0.20	0.026	0.24	
187.60	190.04	2.44	572067	HYP	BRXC	7	4880	0.13	0.048	0.10	
190.04	193.24	3.20	572068	HYP	BRXC	7	8440	0.12	0.020	0.14	
193.24	196.29	3.05	572069	HYP	BRXC	7	8530	0.20	0.033	0.27	
196.29	199.19	2.90	572070	HYP	BRXC	7	7920	0.22	0.100	0.34	
199.19	201.93	2.74	572071	HYP	BRXC	7	7130	0.14	0.026	0.10	
201.93	204.82	2.89	572072	HYP	BRXC	7	4970	0.15	0.034	0.14	
204.82	207.11	2.29	572073	HYP	BRXC	7	6480	0.20	0.020	0.24	
207.11	210.00	2.89	572074	HYP	BRXC	7	8640	0.38	0.026	0.38	
210.00	213.36	3.36	572075	HYP	BRXC	7	12800	0.29	0.035	0.31	
213.36	216.41	3.05	572076	HYP	BRXC	7	11230	0.23	0.023	0.31	
216.41	219.46	3.05	572077	HYP	BRXC	7	11660	0.33	0.017	0.24	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
219.46	221.59	2.13	572078	HYP	BRXC	7	7990	0.24	0.027	0.14	
221.59	224.64	3.05	572079	HYP	BRXC	7	11410	0.21	0.046	0.34	
224.64	227.68	3.04	572080	HYP	BRXC	7	13010	0.17	0.022	0.27	
227.68	230.73	3.05	572081	HYP	BRXC	7	13250	0.19	0.013	0.31	
230.73	233.78	3.05	572082	HYP	BRXC	7	13010	0.39	0.026	0.27	
233.78	236.83	3.05	572083	HYP	BRXC	1/7	13300	0.17	0.019	0.24	
236.83	239.89	3.06	572084	HYP	BRXC	1/7	13790	0.19	0.030	0.17	
239.89	242.92	3.03	572085	HYP	BRXC	1/7	13190	0.15	0.018	0.07	
242.92	245.97	3.05	572086	HYP	BRXC	1/7	12980	0.20	0.020	0.17	
245.97	248.26	2.29	572087	HYP	BRXC	7/5	9990	0.07	0.010	0.10	
248.26	250.54	2.28	572088	HYP	BRXC	7/5	10910	0.15	0.032	0.17	
250.54	253.59	3.05	572089	HYP	BRXC	1/7	13190	0.10	0.020	0.10	
253.59	256.64	3.05	572090	HYP	BRXC	1/7	12560	0.14	0.014	0.17	
256.64	258.17	1.53	572091	HYP	BRXC	1/7	8010	0.14	0.010	0.14	
258.17	261.00	2.83	572092	HYP	BRXC	1/7	11340	0.17	0.035	0.07	
261.00	264.10	3.10	572093	HYP	BRXC	1/7	12690	0.38	0.039	0.41	
264.10	267.15	3.05	572094	HYP	BRXC	1/7	13480	0.20	0.020	0.31	
267.15	270.36	3.21	572095	HYP	PPXX	1/7	12080	0.25	0.021	0.51	
270.36	273.41	3.05	572096	HYP	PPXX	1/7	14450	0.28	0.025	0.51	
273.41	276.46	3.05	572097	HYP	PPXX	1/7	13460	0.20	0.016	0.31	
276.46	278.28	1.82	572098	HYP	PPXX	1/7	8910	0.40	0.032	0.62	
278.28	281.33	3.05	572099	HYP	PPXX	1/7	12670	0.32	0.019	0.51	
281.33	284.53	3.20	572100	HYP	PPXX	1/7	12560	0.28	0.019	0.45	
284.53	285.60	1.07	572101	HYP	PPXX	2	4700	0.36	0.027	0.72	
285.60	288.64	3.04	572102	HYP	PPXX	7	12400	0.29	0.028	0.45	
288.64	291.69	3.05	572103	HYP	PPXX	1/7	13190	0.42	0.018	0.79	
291.69	294.78	3.09	572104	HYP	PPXX	1/7	10580	0.13	0.016	0.31	
294.78	297.78	3.00	572105	HYP	PPXX	1/7	10550	0.38	0.030	0.72	
297.78	300.84	3.06	572106	HYP	PPXX	1/7	11660	0.26	0.035	0.34	
300.84	303.58	2.74	572107	HYP	PPXX	1/7	13280	0.35	0.047	0.62	
303.58	306.62	3.04	572108	HYP	PPXX	1/7	12200	0.22	0.039	0.34	
306.62	309.68	3.06	572109	HYP	PPXX	1/7	9650	0.12	0.012	0.14	
309.68	311.96	2.28	572110	HYP	PPXX	1/7	11630	0.15	0.014	0.27	
311.96	314.55	2.59	572111	HYP	BRXC	1/7	15140	0.18	0.013	0.24	
314.55	318.21	3.66	572112	HYP	BRXC	5	12620	0.20	0.021	0.34	
318.21	321.26	3.05	572113	HYP	BRXC	1/7	12380	0.14	0.014	0.21	
321.26	322.63	1.37	572114	HYP	BRXC	5	6660	0.25	0.058	0.65	
322.63	325.22	2.59	572115	HYP	BRXC	7	6750	0.29	0.044	0.55	
325.22	328.27	3.05	572116	HYP	BRXC	7	14000	0.36	0.030	0.51	
328.27	331.32	3.05	572117	HYP	BRXC	7	11880	0.39	0.053	0.65	
331.32	334.36	3.04	572118	HYP	BRXC	7/1	12490	0.30	0.053	0.31	
334.36	337.41	3.05	572119	HYP	BRXC	7/1	13550	0.18	0.043	0.24	
337.41	339.85	2.44	572120	HYP	BRXC	7/1	9900	0.21	0.053	0.34	
339.85	342.90	3.05	572121	HYP	BRXC	7/1	13390	0.22	0.033	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
342.90	345.95	3.05	572122	HYP	BRXC	7/1	12310	0.25	0.038	0.34	
345.95	349.60	3.65	572123	HYP	BRXC	7/1	16490	0.23	0.034	0.31	
349.60	352.65	3.05	572124	HYP	BRXC	7/1	12980	0.12	0.059	0.10	
352.65	353.87	1.22	572125	HYP	BRXC	7	4430	0.06	0.046	0.07	
353.87	356.92	3.05	572126	HYP	BRXC	7/1	12650	0.08	0.031	0.10	
356.92	359.97	3.05	572127	HYP	BRXC	7/1	13230	0.15	0.061	0.10	
359.97	363.02	3.05	572128	HYP	BRXC	7/1	13880	0.23	0.073	0.17	
363.02	364.84	1.82	572129	HYP	BRXC	7/1	8980	0.07	0.038	0.07	
364.84	367.89	3.05	572130	HYP	BRXC	7/1	12830	0.22	0.035	0.24	
367.89	370.94	3.05	572131	HYP	BRXC	7/1	12830	0.34	0.179	0.27	
370.94	373.98	3.04	572132	HYP	BRXC	7/1	13230	0.28	0.069	0.27	
373.98	377.04	3.06	572133	HYP	BRXC	7/1	12830	0.18	0.058	0.10	
377.04	380.08	3.04	572134	HYP	BRXC	7/1	13320	0.11	0.028	0.07	
380.08	383.13	3.05	572135	HYP	BRXC	7/1	12380	0.14	0.037	0.10	
383.13	386.18	3.05	572136	HYP	BRXC	7/1	11610	0.12	0.019	0.10	
386.18	389.83	3.65	572137	HYP	BRXC	7/1	16740	0.11	0.029	0.07	
389.83	391.06	1.23	572138	HYP	BRXC	7/1	3690	0.10	0.034	0.03	
391.06	394.11	3.05	572139	HYP	BRXC	7/1	10580	0.04	0.040	<0.03	
394.11	397.15	3.04	572140	HYP	BRXC	7/1	12220	0.07	0.017	0.03	
397.15	398.98	1.83	572141	HYP	BRXC	7/1	7790	0.11	0.026	0.10	
398.98	401.42	2.44	572142	HYP	BRXC	7/1	10940	0.21	0.049	0.21	
401.42	404.47	3.05	572143	HYP	BRXC	7/1	11660	0.08	0.026	0.10	
404.47	407.52	3.05	572144	HYP	BRXC	7/1	11590	0.08	0.020	0.07	
407.52	410.57	3.05	572145	HYP	BRXC	7/1	7700	0.11	0.028	0.07	
410.57	413.61	3.04	572146	HYP	BRXC	7/1	15890	0.08	0.017	0.07	
413.61	416.66	3.05	572147	HYP	BRXC	7/1	11840	0.14	0.023	0.14	
416.66	419.71	3.05	572148	HYP	BRXC	7/1	12290	0.13	0.017	0.14	
419.71	421.84	2.13	572149	HYP	BRXC	7/1	11210	0.15	0.016	0.10	
421.84	425.80	3.96	572150	HYP	BRXC	7/1	12800	0.11	0.026	0.07	
425.80	428.85	3.05	572151	HYP	BRXC	7/2	5960	0.12	0.025	0.03	
428.85	431.90	3.05	572152	HYP	BRXC	2	7180	0.05	0.010	<0.03	
431.90	434.95	3.05	572153	HYP	BRXC	2	6980	0.06	0.011	0.03	
434.95	438.00	3.05	572154	HYP	BRXC	2	6730	0.05	0.009	0.07	
438.00	440.74	2.74	572155	HYP	BRXC	4	5420	0.10	0.018	0.07	
440.74	443.79	3.05	572156	HYP	BRXC	2	6320	0.11	0.028	0.03	
443.79	446.99	3.20	572157	HYP	BRXC	7/1	7270	0.09	0.010	0.03	
446.99	450.04	3.05	572158	HYP	BRXC	7/1	7040	0.16	0.027	0.03	
450.04	453.08	3.04	572159	HYP	BRXC	7/1	7000	0.13	0.017	0.10	
453.08	456.29	3.21	572160	HYP	BRXC	7/1	6730	0.13	0.016	0.07	
456.29	459.33	3.04	572161	HYP	BRXC	7/1	11070	0.12	0.020	0.07	
459.33	462.38	3.05	572162	HYP	BRXC	7/1	10170	0.09	0.018	0.03	
462.38	465.43	3.05	572163	HYP	BRXC	7/1	8190	0.12	0.019	0.07	
465.43	468.48	3.05	572164	HYP	BRXC	7/1	7700	0.12	0.012	0.10	
468.48	471.53	3.05	572165	HYP	BRXC	7/1	7650	0.16	0.015	0.10	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
471.53	474.57	3.04	572166	HYP	BRXC	7/1	9770	0.05	0.010	0.03	
474.57	477.62	3.05	572167	HYP	BRXC	7/1	9470	0.07	0.028	0.07	
477.62	480.67	3.05	572168	HYP	BRXC	7/1	7790	0.05	0.008	0.03	
480.67	483.72	3.05	572169	HYP	BRXC	7/1	9630	0.07	0.006	0.03	
483.72	486.77	3.05	572170	HYP	BRXC	7/1	7920	0.06	0.009	0.07	
486.77	489.81	3.04	572171	HYP	BRXC	7/1	10040	0.05	0.012	<0.03	
489.81	492.86	3.05	572172	HYP	BRXC	7/1	10170	0.05	0.013	0.03	
492.86	495.91	3.05	572173	HYP	BRXC	4	8240	0.05	0.009	<0.03	
495.91	498.96	3.05	572174	HYP	BRXC	4	7720	0.05	0.011	<0.03	
498.96	502.00	3.04	572175	HYP	BRXC	4	7760	0.05	0.010	0.03	
502.00	505.05	3.05	572176	HYP	BRXC	4	8300	0.05	0.048	<0.03	
505.05	508.10	3.05	572177	HYP	BRXC	4	7610	0.05	0.010	<0.03	
508.10	511.15	3.05	572178	HYP	BRXC	4	7430	0.04	0.008	<0.03	
511.15	514.20	3.05	572179	HYP	BRXC	4	7990	0.04	0.012	<0.03	
514.20	517.25	3.05	572180	HYP	BRXC	4	7540	0.02	0.008	<0.03	
517.25	520.29	3.04	572181	HYP	BRXC	4	7110	0.04	0.004	<0.03	
520.29	523.34	3.05	572182	HYP	BRXC	4	7760	0.07	0.006	<0.03	
523.34	526.39	3.05	572183	HYP	BRXC	4	9740	0.05	0.005	<0.03	
526.39	529.44	3.05	572184	HYP	BRXC	4	7430	0.05	0.005	<0.03	
529.44	532.48	3.04	572185	HYP	BRXC	4	9160	0.03	0.008	0.03	
532.48	535.53	3.05	572186	HYP	BRXC	4	7740	0.03	0.014	<0.03	
535.53	538.58	3.05	572187	HYP	BRXC	4	7990	0.06	0.006	0.03	
538.58	541.63	3.05	572188	HYP	BRXC	4	7720	0.05	0.008	<0.03	
541.63	544.68	3.05	572189	HYP	BRXC	4	8120	0.10	0.021	0.07	
544.68	547.73	3.05	572190	HYP	BRXC	4	7430	0.13	0.024	0.10	
547.73	550.77	3.04	572191	HYP	BRXC	7	8190	0.04	0.005	<0.03	
550.77	553.82	3.05	572192	HYP	BRXC	7	8280	0.05	0.008	<0.03	
553.82	556.87	3.05	572193	HYP	BRXC	7	8550	0.06	0.010	<0.03	
556.87	559.92	3.05	572194	HYP	BRXC	7	8960	0.07	0.006	0.03	
559.92	562.97	3.05	572195	HYP	BRXC	7	8870	0.04	0.021	<0.03	
562.97	566.01	3.04	572196	HYP	BRXC	7/1	8100	0.07	0.012	0.03	
566.01	569.06	3.05	572197	HYP	BRXC	7/1	8710	0.07	0.013	0.03	
569.06	572.11	3.05	572198	HYP	BRXC	7/1	8420	0.16	0.013	0.10	
572.11	575.16	3.05	572199	HYP	BRXC	7/1	8840	0.04	0.026	0.03	
575.16	578.20	3.04	572200	HYP	BRXC	7/1	8570	0.10	0.013	0.07	
578.20	581.25	3.05	572201	HYP	BRXC	7/1	8660	0.06	0.030	0.03	
581.25	584.30	3.05	572202	HYP	BRXC	7/1	7920	0.12	0.009	0.07	
584.30	586.89	2.59	572203	HYP	BRXC	7/1	6890	0.06	0.010	<0.03	
586.89	589.94	3.05	572204	HYP	BRXC	7/1	8350	0.05	0.009	<0.03	
589.94	592.99	3.05	572205	HYP	BRXC	7/1	8300	0.05	0.009	<0.03	
592.99	596.19	3.20	572206	HYP	BRXC	7/1	8370	0.02	0.016	<0.03	
596.19	597.41	1.22	572207	HYP	BRXC	7	4250	0.06	0.010	<0.03	
END OF HOLE											

SUMMARY DRILL LOG
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Hole Number	93-149	Total Depth	696.62 m		
Northing	254,966.98	Casing Depth	6.10 m		Left In
Easting	111,366.17	Survey Data	Azimuth	Dip	Instrument
Elevation	1201.36 m	Collar		-90.00°	Sperry Sun
Core Size	HQ	154.53 m	146°	-88.10°	
Drilling Started	April 14, 1993	306.63 m	136°	N/A	
Drilling Finished	April 30, 1993	477.62 m	N/A	-88.75°	
Logged by	B. Bower	611.73 m	244°	-89.00°	

Purpose/Target: To redrill hole P36 and test extension of ore zone to depth.

Comments: This hole stayed in copper mineralization throughout the hole.
Stopped hole at 696.62 m and left casing.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.70	6.70		OVB							
6.70	7.77	1.07	563375	CAP	QZMF	3	1620	0.07	0.029	0.27	
7.77	10.45	2.68	563376	CAP	QZMF	3	3870	0.03	0.015	0.31	
10.45	13.41	2.96	563377	CAP	QZMF	3	6345	0.03	0.031	0.48	
13.41	15.39	1.98	563378	CAP	QZMF	3	3555	0.03	0.017	0.41	
15.39	17.98	2.59	563379	CAP	QZMF	3	6975	0.01	0.011	0.07	
17.98	20.72	2.74	563380	SUS	QZMF	3	9270	0.01	0.008	0.14	
20.72	22.86	2.14	563381	SUS	QZMF	3	7290	0.01	0.019	0.03	
22.86	24.84	1.98	563382	SUS	QZMF	3	7245	0.01	0.012	0.17	
24.84	27.43	2.59	563383	SUS	QZMF	3	8100	0.02	0.044	0.17	
27.43	29.56	2.13	563384	SUS	QZMF	3	7830	0.01	0.035	0.10	
29.56	32.61	3.05	563385	SUS	QZMF	3	11880	0.02	0.025	0.14	
32.61	35.66	3.05	563386	SUS	QZMF	3	10215	0.03	0.017	0.10	
35.66	38.40	2.74	563387	SUS	QZMF	3	8055	0.05	0.011	0.07	
38.40	40.23	1.83	563388	SUS	QZMF	3	5625	0.06	0.012	0.14	
40.23	41.75	1.52	563389	SUS	QZMF	3	5355	0.13	0.048	0.41	
41.75	44.80	3.05	563390	SUS	QZMF	3	11565	0.17	0.045	0.10	
44.80	47.85	3.05	563391	SUS	QZMF	3	10710	0.13	0.015	0.10	
47.85	50.59	2.74	563392	SUS	QZMF	3	10125	0.22	0.051	0.10	
50.59	53.64	3.05	563393	SUS	QZMF	3	10035	0.19	0.022	0.07	
53.64	55.02	1.38	563394	SUS	QZMF	3	4230	0.10	0.005	0.03	
55.02	56.99	1.97	563395	SUS	QZMF	3	5850	0.22	0.012	0.21	
56.99	59.89	2.90	563396	SUS	QZMF	3	9675	0.23	0.021	0.27	
59.89	61.87	1.98	563397	SUS	QZMF	3	6885	0.17	0.071	0.17	
61.87	64.62	2.75	563398	SUS	QZMF	3	9675	0.25	0.021	0.14	
64.62	67.66	3.04	563399	SUS	QZMF	3	8955	0.27	0.007	0.07	
67.66	70.71	3.05	563400	SUS	QZMF	3	11115	0.28	0.011	0.03	
70.71	73.76	3.05	563401	SUS	QZMF	3	10215	0.24	0.016	0.07	
73.76	76.50	2.74	563402	SUS	QZMF	3	9540	0.30	0.023	0.07	
76.50	79.24	2.74	563403	SUS	QZMF	3	8820	0.38	0.010	0.10	
79.24	81.38	2.14	563404	SUS	QZMF	3	7470	0.17	0.011	0.10	
81.38	84.43	3.05	563405	SUS	QZMF	3	11790	0.35	0.037	0.17	
84.43	86.26	1.83	563406	SUS	QZMF	3	7110	0.26	0.014	0.17	
86.26	89.31	3.05	563407	SUS	QZMF	3	10935	0.28	0.040	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
89.31	90.52	1.21	563408	SUS	QZMF	3	3870	0.23	0.062	0.10	
90.52	93.57	3.05	563409	SUS	QZMF	3	11115	0.22	0.021	0.21	
93.57	96.62	3.05	563410	SUS	QZMF	3	11925	0.11	0.027	0.03	
96.62	99.67	3.05	563411	SUS	QZMF	3	8730	0.18	0.008	0.07	
99.67	102.72	3.05	563412	SUS	QZMF	3	13050	0.14	0.023	0.10	
102.72	105.77	3.05	563413	SUS	QZMF	3	11700	0.15	0.022	0.17	
105.77	108.81	3.04	563414	SUS	QZMF	3	10890	0.19	0.011	0.14	
108.81	111.86	3.05	563415	SUS	QZMF	3	11745	0.10	0.012	0.07	
111.86	114.91	3.05	563416	SUS	QZMF	3	10485	0.16	0.025	0.10	
114.91	117.96	3.05	563417	SUS	QZMF	3	10890	0.14	0.005	0.07	
117.96	120.40	2.44	563418	SUS	QZMF	3	9135	0.28	0.012	0.21	
120.40	123.44	3.04	563419	SUS	QZMF	3	11295	0.25	0.030	0.17	
123.44	125.58	2.14	563420	SUS	QZMF	3	7065	0.21	0.011	0.10	
125.58	127.71	2.13	563421	SUS	QZMI	3	6525	0.31	0.112	0.24	
127.71	130.15	2.44	563422	SUS	QZMI	3	9135	0.24	0.052	0.14	
130.15	133.20	3.05	563423	SUS	QZMI	3	11970	0.21	0.012	0.21	
133.20	136.25	3.05	563424	SUS	QZMI	3	11700	0.27	0.007	0.24	
136.25	139.29	3.04	563425	SUS	QZMI	3	11610	0.56	0.075	0.38	
139.29	142.34	3.05	563426	SUS	QZMI	3	11700	0.35	0.043	0.24	
142.34	145.39	3.05	563427	TRN	QZMI	3	12420	0.29	0.010	0.24	
145.39	148.44	3.05	563428	TRN	QZMI	3	12465	0.33	0.016	0.38	
148.44	151.49	3.05	563429	TRN	QZMI	3	12330	0.24	0.021	0.21	
151.49	154.53	3.04	563430	TRN	QZMI	3	12600	0.19	0.009	0.14	
154.53	157.58	3.05	563431	TRN	QZMI	3	12960	0.10	0.010	0.10	
157.58	160.63	3.05	563432	TRN	QZMI	3	12240	0.30	0.008	0.38	
160.63	163.68	3.05	563433	TRN	QZMI	3	12555	0.21	0.015	0.10	
163.68	166.72	3.04	563434	TRN	QZMI	3	11700	0.27	0.007	0.21	
166.72	169.77	3.05	563435	HYP	QZMI	5	13050	0.37	0.024	0.31	
169.77	172.82	3.05	563436	HYP	QZMI	5	12015	0.49	0.065	0.34	
172.82	175.87	3.05	563437	HYP	QZMI	5	12510	0.29	0.011	0.27	
175.87	178.92	3.05	563438	HYP	QZMI	5	13230	0.20	0.017	0.17	
178.92	181.97	3.05	563439	HYP	QZMI	5	13050	0.14	0.019	0.34	
181.97	185.01	3.04	563440	HYP	QZMI	5	11835	0.22	0.021	0.24	
185.01	188.06	3.05	563441	HYP	QZMI	5	11700	0.13	0.016	0.10	
188.06	191.11	3.05	563442	HYP	QZMI	3	11970	0.14	0.008	0.10	
191.11	194.16	3.05	563443	HYP	QZMI	5	13005	0.09	0.004	0.07	
194.16	197.21	3.05	563444	HYP	QZMI	5	12330	0.20	0.003	0.21	
197.21	200.25	3.04	563445	HYP	QZMI	3	12960	0.12	0.018	0.10	
200.25	203.30	3.05	563446	HYP	QZMI	5	12060	0.24	0.018	0.24	
203.30	206.34	3.04	563447	HYP	QZMI	5	12240	0.18	0.025	0.14	
206.34	209.40	3.06	563448	HYP	QZMI	5	11925	0.26	0.010	0.24	
209.40	212.45	3.05	563449	HYP	QZMI	3	12285	0.20	0.021	0.21	
212.45	215.49	3.04	563450	HYP	QZMI	5	13185	0.19	0.021	0.17	
215.49	218.54	3.05	563451	HYP	QZMI	5	12375	0.37	0.020	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
218.54	221.59	3.05	563452	HYP	QZMI	5	11925	0.20	0.018	0.17	
221.59	224.64	3.05	563453	HYP	QZMI	5	12195	0.21	0.044	0.10	
224.64	227.68	3.04	563454	HYP	QZMI	5	12375	0.20	0.009	0.14	
227.68	230.73	3.05	563455	HYP	QZMI	5	12600	0.29	0.013	0.24	
230.73	233.78	3.05	563456	HYP	QZMI	3	12915	0.09	0.009	0.07	
233.78	236.83	3.05	563457	HYP	QZMI	5	11925	0.18	0.009	0.17	
236.83	239.88	3.05	563458	HYP	QZMI	5	12555	0.32	0.017	0.34	
239.88	242.93	3.05	563459	HYP	QZMI	5	11385	0.17	0.012	0.14	
242.93	245.97	3.04	563460	HYP	QZMI	5	12700	0.16	0.017	0.21	
245.97	249.02	3.05	563461	HYP	QZMI	5	12080	0.22	0.018	0.31	
249.02	252.07	3.05	563462	HYP	QZMI	5	12760	0.15	0.022	0.17	
252.07	255.12	3.05	563463	HYP	QZMI	5	11960	0.23	0.016	0.24	
255.12	258.17	3.05	563464	HYP	QZMI	5	12260	0.14	0.010	0.17	
258.17	261.21	3.04	563465	HYP	QZMI	5	9820	0.29	0.040	0.24	
261.21	264.26	3.05	563466	HYP	QZMI	5	12420	0.16	0.093	0.21	
264.26	267.31	3.05	563467	HYP	QZMI	5	13540	0.28	0.019	0.27	
267.31	270.36	3.05	563468	HYP	QZMI	5	11520	0.17	0.018	0.14	
270.36	273.10	2.74	563469	HYP	QZMI	5	10980	0.17	0.012	0.14	
273.10	276.15	3.05	563470	HYP	QZMI	5	11540	0.22	0.015	0.31	
276.15	279.20	3.05	563471	HYP	QZMI	5	12880	0.20	0.044	0.17	
279.20	282.40	3.20	563472	HYP	QZMI	5	13180	0.18	0.030	0.21	
282.40	285.45	3.05	563473	HYP	QZMI	5	12660	0.16	0.022	0.24	
285.45	288.49	3.04	563474	HYP	QZMI	7	14040	0.09	0.010	0.10	
288.49	291.54	3.05	563475	HYP	QZMI	7	13060	0.21	0.025	0.21	
291.54	294.74	3.20	563476	HYP	QZMI	7	13860	0.12	0.009	0.17	
294.74	297.79	3.05	563477	HYP	QZMI	7	12700	0.15	0.003	0.17	
297.79	300.53	2.74	563478	HYP	QZMI	5	11700	0.12	0.011	0.14	
300.53	303.58	3.05	563479	HYP	QZMI	5	10780	0.22	0.034	0.34	
303.58	306.62	3.04	563480	HYP	QZMI	5	11200	0.30	0.034	0.34	
306.62	309.83	3.21	563481	HYP	KGRD	5	12590	0.40	0.026	0.31	
309.83	312.88	3.05	563482	HYP	KGRD	5	11980	0.36	0.042	0.38	
312.88	316.08	3.20	563483	HYP	KGRD	5	11300	0.34	0.016	0.31	
316.08	319.13	3.05	563484	HYP	QZMI	5	11980	0.27	0.026	0.27	
319.13	322.17	3.04	563485	HYP	QZMI	5	11260	0.25	0.021	0.21	
322.17	325.22	3.05	563486	HYP	QZMI	5	11800	0.28	0.050	0.24	
325.22	328.27	3.05	563487	HYP	QZMI	5	11000	0.21	0.041	0.31	
328.27	331.32	3.05	563488	HYP	KGRD	5	13520	0.15	0.035	0.17	
331.32	334.37	3.05	563489	HYP	KGRD	7	11820	0.22	0.012	0.24	
334.37	337.41	3.04	563490	HYP	KGRD	7	10300	0.20	0.039	0.21	
337.41	340.46	3.05	563491	HYP	KGRD	7	11300	0.20	0.017	0.24	
340.46	343.51	3.05	563492	HYP	KGRD	7	11680	0.17	0.011	0.21	
343.51	346.56	3.05	563493	HYP	QZMI	5	11500	0.33	0.023	0.38	
346.56	349.61	3.05	563494	HYP	KGRD	5	12160	0.20	0.019	0.34	
349.61	352.35	2.74	563495	HYP	KGRD	7	10360	0.23	0.015	0.38	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
352.35	355.40	3.05	563496	HYP	KGRD	7	9800	0.23	0.012	0.41	
355.40	358.60	3.20	563497	HYP	KGRD	7	12070	0.23	0.009	0.24	
358.60	361.80	3.20	563498	HYP	KGRD	7	11540	0.21	0.008	0.21	
361.80	364.85	3.05	563499	HYP	KGRD	7	12240	0.14	0.006	0.14	
364.85	367.89	3.04	563500	HYP	KGRD	7	11120	0.20	0.011	0.24	
367.89	370.94	3.05	563501	HYP	KGRD	7	10920	0.16	0.030	0.14	
370.94	373.99	3.05	563502	HYP	KGRD	7	10700	0.32	0.017	0.34	
373.99	377.04	3.05	563503	HYP	KGRD	7	11880	0.21	0.022	0.27	
377.04	380.09	3.05	563504	HYP	KGRD	7	12160	0.29	0.025	0.31	
380.09	383.13	3.04	563505	HYP	KGRD	7	11600	0.34	0.019	0.41	
383.13	386.18	3.05	563506	HYP	KGRD	7	11200	0.30	0.015	0.27	
386.18	389.23	3.05	563507	HYP	KGRD	7	11300	0.32	0.023	0.27	
389.23	391.97	2.74	563508	HYP	KGRD	7	9200	0.33	0.021	0.41	
391.97	395.02	3.05	563509	HYP	KGRD	5	10860	0.16	0.010	0.21	
395.02	398.07	3.05	563510	HYP	KGRD	5	11200	0.37	0.009	0.34	
398.07	401.27	3.20	563511	HYP	KGRD	5	12260	0.55	0.024	0.82	
401.27	404.47	3.20	563512	HYP	KGRD	5	12720	0.39	0.013	0.38	
404.47	407.52	3.05	563513	HYP	KGRD	7	12220	0.32	0.002	0.31	
407.52	410.56	3.04	563514	HYP	KGRD	7	11520	0.31	0.002	0.27	
410.56	413.61	3.05	563515	HYP	KGRD	7	13840	0.23	0.003	0.17	
413.61	416.66	3.05	563516	HYP	KGRD	5	13060	0.18	0.011	0.17	
416.66	419.71	3.05	563517	HYP	KGRD	5	13200	0.22	0.010	0.24	
419.71	422.76	3.05	563518	HYP	KGRD	5	12420	0.23	0.014	0.17	
422.76	423.90	1.14	563519	HYP	KGRD	5	5440	0.29	0.029	0.27	
423.90	425.10	1.20	563520	HYP	VEIN	5	4320	0.79	0.007	1.30	
425.10	428.85	3.75	563521	HYP	KGRD	5	17620	0.38	0.009	0.48	
428.85	431.90	3.05	563522	HYP	KGRD	5	15400	0.15	0.024	0.27	
431.90	434.95	3.05	563523	HYP	KGRD	5	12400	0.38	0.052	0.27	
434.95	438.00	3.05	563524	HYP	KGRD	5	11540	0.21	0.008	0.24	
438.00	441.05	3.05	563525	HYP	KGRD	5	12320	0.14	0.003	0.10	
441.05	444.09	3.04	563526	HYP	KGRD	5	11600	0.19	0.007	0.24	
444.09	447.14	3.05	563527	HYP	KGRD	5	11560	0.16	0.003	0.21	
447.14	450.19	3.05	563528	HYP	KGRD	5	14020	0.13	0.001	0.07	
450.19	453.24	3.05	563529	HYP	KGRD	5	12700	0.25	0.005	0.24	
453.24	456.28	3.04	563530	HYP	KGRD	5	12900	0.18	0.019	0.17	
456.28	459.33	3.05	563531	HYP	KGRD	5	13580	0.19	0.014	0.17	
459.33	462.38	3.05	563532	HYP	KGRD	5	12960	0.18	0.009	0.17	
462.38	465.43	3.05	563533	HYP	KGRD	5	12120	0.15	0.034	0.14	
465.43	468.48	3.05	563534	HYP	KGRD	5	10300	0.26	0.007	0.27	
468.48	471.53	3.05	563535	HYP	KGRD	7	12960	0.55	0.020	0.86	
471.53	474.57	3.04	563536	HYP	KGRD	7	4820	0.60	0.020	0.41	
474.57	477.62	3.05	563537	HYP	KGRD	7	6360	0.35	0.010	0.27	
477.62	480.67	3.05	563538	HYP	KGRD	7	6180	0.43	0.013	0.41	
480.67	483.26	2.59	563539	HYP	KGRD	7	8400	0.48	0.026	0.38	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
483.26	486.31	3.05	563540	HYP	KGRD	7	6460	0.29	0.021	0.17	
486.31	489.20	2.89	563541	HYP	KGRD	7	6800	0.14	0.006	0.14	
489.20	492.25	3.05	563542	HYP	KGRD	7	4420	0.20	0.005	0.17	
492.25	495.91	3.66	563543	HYP	KGRD	7	8300	0.22	0.016	0.24	
495.91	498.04	2.13	563544	HYP	KGRD	7	4880	0.22	0.010	0.17	
498.04	501.09	3.05	563545	HYP	KGRD	7	6520	0.29	0.021	0.21	
501.09	502.01	0.92	563546	HYP	KGRD	7	1920	0.22	0.003	0.31	
502.01	505.05	3.04	563547	HYP	KGRD	7	7000	0.17	0.007	0.17	
505.05	508.10	3.05	563548	HYP	KGRD	7	6100	0.25	0.015	0.17	
508.10	511.15	3.05	563549	HYP	KGRD	7	6480	0.30	0.026	0.24	
511.15	514.20	3.05	563550	HYP	KGRD	7	6820	0.27	0.009	0.27	
514.20	517.25	3.05	563551	HYP	KGRD	5	6980	0.23	0.009	0.27	
517.25	520.29	3.04	563552	HYP	KGRD	7	6660	0.09	0.007	0.10	
520.29	523.34	3.05	563553	HYP	KGRD	7	7630	0.22	0.009	0.21	
523.34	526.39	3.05	563554	HYP	KGRD	7	7640	0.14	0.008	0.10	
526.39	529.44	3.05	563555	HYP	KGRD	7	6840	0.32	0.009	0.31	
529.44	532.49	3.05	563556	HYP	KGRD	7	6280	0.24	0.010	0.17	
532.49	535.53	3.04	563557	HYP	KGRD	7	6500	0.38	0.030	0.27	
535.53	538.58	3.05	563558	HYP	KGRD	7	6920	0.28	0.009	0.17	
538.58	541.63	3.05	563559	HYP	KGRD	7	7140	0.19	0.019	0.17	
541.63	544.68	3.05	563560	HYP	KGRD	7	6660	0.21	0.010	0.21	
544.68	547.73	3.05	563561	HYP	KGRD	7	6800	0.21	0.024	0.17	
547.73	550.77	3.04	563562	HYP	KGRD	7	7160	0.26	0.010	0.21	
550.77	553.82	3.05	563563	HYP	KGRD	7	6780	0.11	0.005	0.17	
553.82	556.87	3.05	563564	HYP	KGRD	7	7320	0.25	0.014	0.14	
556.87	559.92	3.05	563565	HYP	KGRD	7	7120	0.21	0.020	0.21	
559.92	562.97	3.05	563566	HYP	KGRD	7	6900	0.15	0.014	0.10	
562.97	566.01	3.04	563567	HYP	KGRD	7	7320	0.12	0.007	0.10	
566.01	569.06	3.05	563568	HYP	KGRD	7	7400	0.22	0.008	0.27	
569.06	572.11	3.05	563569	HYP	KGRD	7	7040	0.17	0.005	0.17	
572.11	575.16	3.05	563570	HYP	KGRD	7	6880	0.14	0.007	0.10	
575.16	578.21	3.05	563571	HYP	KGRD	7	6920	0.18	0.018	0.14	
578.21	580.95	2.74	563572	HYP	KGRD	5	6480	0.17	0.011	0.14	
580.95	584.00	3.05	563573	HYP	KGRD	7	7780	0.21	0.007	0.21	
584.00	587.35	3.35	563574	HYP	KGRD	7	8520	0.13	0.005	0.10	
587.35	590.40	3.05	563575	HYP	KGRD	7	7780	0.17	0.021	0.24	
590.40	593.45	3.05	563576	HYP	KGRD	7	7800	0.17	0.017	0.21	
593.45	596.49	3.04	563577	HYP	KGRD	7	7160	0.24	0.007	0.17	
596.49	599.54	3.05	563578	HYP	KGRD	7	7680	0.22	0.018	0.27	
599.54	602.59	3.05	563579	HYP	KGRD	7	7260	0.13	0.014	0.14	
602.59	605.64	3.05	563580	HYP	KGRD	7	7900	0.17	0.002	0.21	
605.64	608.69	3.05	563581	HYP	KGRD	7	7890	0.07	0.003	0.10	
608.69	611.73	3.04	563582	HYP	KGRD	7	7740	0.19	0.007	0.17	
611.73	614.78	3.05	563583	HYP	KGRD	7	7260	0.26	0.005	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
614.78	617.83	3.05	563584	HYP	KGRD	7	7340	0.18	0.008	0.17	
617.83	620.88	3.05	563585	HYP	KGRD	7	7080	0.17	0.016	0.14	
620.88	623.93	3.05	563586	HYP	KGRD	7	6380	0.13	0.009	0.14	
623.93	626.97	3.04	563587	HYP	KGRD	5	6400	0.14	0.013	0.21	
626.97	630.02	3.05	563588	HYP	KGRD	5	6160	0.08	0.003	0.10	
630.02	633.07	3.05	563589	HYP	KGRD	5	6520	0.27	0.005	0.14	
633.07	636.12	3.05	563590	HYP	KGRD	5	7100	0.14	0.004	0.17	
636.12	639.17	3.05	563591	HYP	KGRD	5	6960	0.28	0.010	0.27	
639.17	642.21	3.04	563592	HYP	KGRD	5	7540	0.10	0.002	0.10	
642.21	645.26	3.05	563593	HYP	KGRD	5	6740	0.84	0.011	0.45	
645.26	648.31	3.05	563594	HYP	KGRD	5	6800	0.19	0.009	0.14	
648.31	651.36	3.05	563595	HYP	KGRD	7	7620	0.16	0.007	0.17	
651.36	654.41	3.05	563596	HYP	KGRD	7	7220	0.14	0.004	0.10	
654.41	657.45	3.04	563597	HYP	KGRD	7	6900	0.13	0.004	0.14	
657.45	660.50	3.05	563598	HYP	KGRD	7	7760	0.24	0.002	0.51	
660.50	663.55	3.05	563599	HYP	KGRD	7	7380	0.18	0.014	0.17	
663.55	666.60	3.05	563600	HYP	KGRD	7	6900	0.30	0.003	0.24	
666.60	669.65	3.05	563601	HYP	KGRD	7	6700	0.11	0.010	0.10	
669.65	672.69	3.04	563602	HYP	KGRD	7	6860	0.14	0.008	0.14	
672.69	675.74	3.05	563603	HYP	KGRD	5	6920	0.11	0.002	0.10	
675.74	678.79	3.05	563604	HYP	KGRD	5	7140	0.21	0.003	0.14	
678.79	681.84	3.05	563605	HYP	KGRD	5	7620	0.16	0.005	0.24	
681.84	684.28	2.44	563606	HYP	KGRD	5	5720	0.24	0.019	0.24	
684.28	687.32	3.04	563607	HYP	KGRD	5	6960	0.11	0.007	0.10	
687.32	690.37	3.05	563608	HYP	KGRD	7	7100	0.18	0.008	0.17	
690.37	693.57	3.20	563609	HYP	KGRD	7	6900	0.27	0.008	0.21	
693.57	696.62	3.05	563610	HYP	KGRD	5	7380	0.23	0.003	0.21	
696.62	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-150	Total Depth	547.12 m		
Northing	254,707.33	Casing Depth	549.00 m		Left In
Easting	111,100.31	Survey Data	Azimuth	Dip	Instrument
Elevation	1354.24 m	Collar		-90.0°	
Core Size	HQ	154.5 m	175°(T)	-89.5°	Sperry Sun
Drilling Started	April 13, 1993	325.2 m	260°(T)	-89.5°	Sperry Sun
Drilling Finished	April 24, 1993				
Logged by	M.P.Phillips/S. de Wit				

Purpose/Target: Redrill adjacent to old drill holes P46, P46A and R46B to test zone at depth.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	4.88	2.44	567861	CAP	BRXT	3	6220	0.06	0.032	1.03	
4.88	8.08	3.20	567862	CAP	BRXT	3	12320	0.06	0.099	1.23	
8.08	10.82	2.74	567863	CAP	BRXT	3	8820	0.04	0.045	0.51	
10.82	13.87	3.05	567864	CAP	BRXT	3	11880	0.04	0.053	0.65	
13.87	17.07	3.20	567865	CAP	BRXT	3	9700	0.02	0.033	1.37	
17.07	19.96	2.89	567866	CAP	BRXT	3	10220	0.03	0.038	1.03	
19.96	23.01	3.05	567867	CAP	BRXT	3	11940	0.03	0.042	0.89	
23.01	26.21	3.20	567868	CAP	BRXT	3	11400	0.01	0.044	0.79	
26.21	29.57	3.36	567869	CAP	BRXT	3	8000	0.01	0.027	0.65	
29.57	32.61	3.04	567870	CAP	BRXT	3	12080	0.03	0.070	0.86	
32.61	35.66	3.05	567871	CAP	BRXT	3	11540	0.05	0.041	0.65	
35.66	38.71	3.05	567872	SOX	BRXT	3	11620	0.08	0.052	0.55	
38.71	41.76	3.05	567873	SOX	BRXT	3	11720	0.03	0.044	0.65	
41.76	44.81	3.05	567874	SOX	BRXT	3	10800	0.02	0.032	0.75	
44.81	47.85	3.04	567875	SOX	BRXT	3	11740	0.02	0.030	0.86	
47.85	50.90	3.05	567876	SOX	BRXT	3	11660	0.03	0.026	1.30	
50.90	53.64	2.74	567877	SOX	BRXT	3	9760	0.03	0.042	0.96	
53.64	57.00	3.36	567878	SOX	BRXT	3	12600	0.05	0.034	0.65	
57.00	60.05	3.05	567879	SOX	BRXT	3	11560	0.08	0.033	0.72	
60.05	63.09	3.04	567880	SOX	BRXT	3	11160	0.11	0.035	0.55	
63.09	65.23	2.14	567881	SOX	BRXT	3	9220	0.10	0.053	1.37	
65.23	67.67	2.44	567882	SOX	BRXT	3	8560	0.06	0.065	0.86	
67.67	70.71	3.04	567883	SOX	BRXT	3	11980	0.09	0.084	0.48	
70.71	73.46	2.75	567884	SOX	BRXT	3	10000	0.05	0.061	0.65	
73.46	75.29	1.83	567885	SOX	BRXT	3	6620	0.03	0.042	0.65	
75.29	78.49	3.20	567886	SOX	BRXT	3	7980	0.02	0.045	1.10	
78.49	80.92	2.43	567887	SOX	BRXT	3	9180	0.02	0.035	0.65	
80.92	84.12	3.20	567888	SOX	BRXT	3	12320	0.08	0.037	0.58	
84.12	87.33	3.21	567889	SOX	BRXT	3	12140	0.10	0.067	0.69	
87.33	90.53	3.20	567890	SOX	BRXT	3	12220	0.04	0.036	0.89	
90.53	93.57	3.04	567891	SOX	BRXT	3	10700	0.11	0.043	0.69	
93.57	96.62	3.05	567892	SOX	BRXT	3	12520	0.13	0.072	0.82	
96.62	99.67	3.05	567893	SOX	BRXT	3	10120	0.07	0.058	0.58	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.67	102.72	3.05	567894	SOX	BRXT	3	8920	0.06	0.042	0.69	
102.72	104.24	1.52	567895	SOX	BRXT	3	6400	0.02	0.074	0.96	
104.24	106.98	2.74	567896	SOX	BRXT	3	10080	0.03	0.051	0.58	
106.98	108.81	1.83	567897	SOX	BRXT	3	6240	0.08	0.064	0.86	
108.81	111.86	3.05	567898	SOX	BRXT	3	12320	0.05	0.037	0.41	
111.86	114.91	3.05	567899	SOX	BRXT	3	12480	0.10	0.055	1.23	
114.91	117.96	3.05	567900	SOX	BRXT	3	11940	0.12	0.038	0.51	
117.96	121.01	3.05	567901	SOX	BRXT	3	12560	0.14	0.040	0.55	
121.01	124.05	3.04	567902	SOX	BRXT	3	12320	0.10	0.044	0.48	
124.05	127.10	3.05	567903	SUS	BRXT	5	11220	0.06	0.032	0.34	
127.10	130.15	3.05	567904	SUS	BRXT	5	11440	0.08	0.071	0.55	
130.15	133.20	3.05	567905	SUS	BRXT	5	12760	0.07	0.045	0.34	
133.20	136.25	3.05	567906	SUS	BRXT	5	11580	0.10	0.063	0.45	
136.25	139.29	3.04	567907	SUS	BRXT	5	11140	0.10	0.077	0.34	
139.29	142.34	3.05	567908	SUS	BRXT	5	11960	0.36	0.043	1.23	
142.34	145.39	3.05	567909	SUS	BRXT	5	12120	0.90	0.036	1.06	
145.39	148.44	3.05	567910	SUS	BRXT	5	10780	0.63	0.043	0.86	
148.44	151.49	3.05	567911	SUS	BRXT	5	11560	0.48	0.037	0.55	
151.49	154.53	3.04	567912	SUS	BRXT	5	9080	0.64	0.025	0.75	
154.53	157.58	3.05	567913	SUS	BRXT	5	9660	0.73	0.059	0.58	
157.58	160.63	3.05	567914	SUS	BRXT	5	12060	0.51	0.048	0.38	
160.63	163.68	3.05	567915	SUS	BRXT	5	10240	0.47	0.050	0.51	
163.68	166.73	3.05	567916	SUS	DYKE	5	13080	0.38	0.005	0.21	
166.73	168.86	2.13	567917	SUS	DYKE	5	6980	0.36	<0.001	0.62	
168.86	171.30	2.44	567918	SUS	DYKE	5	10940	0.39	0.001	0.31	
171.30	172.82	1.52	567919	SUS	DYKE	5	5860	0.54	0.003	0.31	
172.82	174.65	1.83	567920	SUS	DYKE	5	6240	1.16	0.001	0.55	
174.65	177.39	2.74	567921	SUS	DYKE	5	11280	0.10	0.001	0.38	
177.39	179.83	2.44	567922	SUS	DYKE	5	11520	0.04	<0.001	1.34	
179.83	181.97	2.14	567923	SUS	DYKE	5	8480	0.19	<0.001	0.27	
181.97	185.01	3.04	567924	SUS	BRXT	5	10900	0.45	0.038	0.34	
185.01	188.06	3.05	567925	SUS	BRXT	5	11940	0.61	0.067	0.69	
188.06	191.11	3.05	567926	SUS	DYKE	5	11300	0.41	0.001	0.75	
191.11	193.55	2.44	567927	SUS	DYKE	5	11840	0.15	<0.001	0.14	
193.55	196.75	3.20	567928	SUS	DYKE	5	11580	0.29	0.005	0.38	
196.75	199.80	3.05	567929	SUS	DYKE	5	9600	0.68	0.001	0.82	
199.80	201.47	1.67	567930	SUS	DYKE	5	4760	0.64	<0.001	0.98	
201.47	204.52	3.05	567931	SUS	DYKE	5	6800	0.17	<0.001	1.17	
204.52	207.57	3.05	567932	SUS	BRXT	4	11920	0.15	0.048	0.24	
207.57	210.62	3.05	567933	HYP	BRXT	7	10520	0.38	0.084	0.34	
210.62	213.66	3.04	567934	HYP	BRXT	7	10820	0.37	0.055	0.34	
213.66	216.71	3.05	567935	HYP	BRXT	7	10340	0.35	0.082	0.34	
216.71	219.76	3.05	567936	HYP	BRXT	7	12560	0.41	0.114	0.89	
219.76	222.81	3.05	567937	HYP	DYKE	7	12700	0.08	0.022	0.41	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
222.81	224.63	1.82	567938	HYP	DYKE	5	11640	0.10	0.006	0.27	
224.63	227.69	3.06	567939	HYP	DYKE	2	10320	0.05	<0.001	0.21	
227.69	230.43	2.74	567940	HYP	DYKE	2	10520	0.06	<0.001	0.34	
230.43	233.48	3.05	567941	HYP	DYKE	5	12980	0.07	<0.001	0.31	
233.48	236.68	3.20	567942	HYP	DYKE	5	13560	0.08	<0.001	0.38	
236.68	239.88	3.20	567943	HYP	DYKE	5	13840	0.03	<0.001	0.24	
239.88	242.62	2.74	567944	HYP	DYKE	5	12200	0.03	0.004	0.24	
242.62	245.67	3.05	567945	HYP	BRXT	5	12840	0.10	0.027	0.14	
245.67	248.87	3.20	567946	HYP	BRXT	5	13040	0.03	0.003	0.24	
248.87	251.92	3.05	567947	HYP	DYKE	2	13540	0.07	<0.001	0.34	
251.92	255.12	3.20	567948	HYP	DYKE	2	13900	0.03	<0.001	0.27	
255.12	256.95	1.83	567949	HYP	DYKE	2	9140	0.03	<0.001	0.34	
256.95	259.69	2.74	567950	HYP	DYKE	2	11080	0.16	<0.001	0.27	
259.69	262.13	2.44	567951	HYP	DYKE	2	10700	0.13	<0.001	0.21	
262.13	265.33	3.20	567952	HYP	DYKE	5	13440	0.04	<0.001	0.21	
265.33	268.36	3.03	567953	HYP	DYKE	2	14400	0.07	<0.001	0.34	
268.36	271.58	3.22	567954	HYP	DYKE	2	13220	0.07	0.001	1.23	
271.58	274.62	3.04	567955	HYP	DYKE	2	13720	0.07	<0.001	0.55	
274.62	277.67	3.05	567956	HYP	DYKE	2	11800	0.06	<0.001	1.03	
277.67	280.72	3.05	567957	HYP	DYKE	1	13840	0.07	<0.001	0.34	
280.72	283.77	3.05	567958	HYP	DYKE	3	13400	0.12	<0.001	0.79	
283.77	285.60	1.83	567959	HYP	DYKE	3	7800	0.12	<0.001	0.21	
285.60	288.65	3.05	567960	HYP	DYKE	3	13850	0.81	<0.001	2.50	
288.65	291.69	3.04	567961	HYP	DYKE	3	13240	0.05	0.001	0.10	
291.69	294.74	3.05	567962	HYP	DYKE	3	12380	0.07	0.001	0.10	
294.74	297.79	3.05	567963	HYP	DYKE	2	12880	0.11	<0.001	0.14	
297.79	300.84	3.05	567964	HYP	DYKE	3	11680	0.12	<0.001	0.07	
300.84	303.89	3.05	567965	HYP	DYKE	2	14360	0.10	0.005	0.07	
303.89	306.93	3.04	567966	HYP	PPXX	7	13200	0.08	0.009	0.10	
306.93	309.98	3.05	567967	HYP	PPXX	7	13900	0.17	0.016	0.34	
309.98	313.03	3.05	567968	HYP	PPXX	5	12960	0.23	0.023	0.41	
313.03	316.07	3.04	567969	HYP	PPXX	5	13280	0.18	0.021	0.24	
316.07	319.13	3.06	567970	HYP	PPXX	7	13060	0.34	0.028	0.48	
319.13	322.17	3.04	567971	HYP	PPXX	5	12100	0.43	0.024	0.86	
322.17	325.22	3.05	567972	HYP	PPXX	5	11960	0.37	0.030	0.38	
325.22	328.27	3.05	567973	HYP	PPXX	5	8400	0.37	0.028	0.38	
328.27	329.77	1.50	567974	HYP	PPXX	5	9840	0.70	0.026	0.41	
329.77	332.99	3.22	567975	HYP	PPXX	5	13320	0.40	0.028	0.99	
332.99	336.19	3.20	567976	HYP	PPXX	5	13120	0.51	0.045	0.48	
336.19	339.24	3.05	567977	HYP	PPXX	5	12840	0.43	0.052	0.34	
339.24	341.68	2.44	567978	HYP	PPXX	5	9280	0.45	0.035	0.34	
341.68	344.73	3.05	567979	HYP	PPXX	7	14000	0.19	0.025	0.24	
344.73	347.78	3.05	567980	HYP	PPXX	5	13200	0.10	0.041	0.21	
347.78	350.82	3.04	567981	HYP	PPXX	5	12620	0.10	0.022	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
350.82	353.87	3.05	567982	HYP	PPXX	5	1268	0.09	0.096	0.07	
353.87	356.92	3.05	567983	HYP	PPXX	7	12300	0.28	0.080	0.38	
356.92	360.12	3.20	567984	HYP	PPXX	7	12500	0.10	0.102	0.14	
360.12	363.32	3.20	567985	HYP	PPXX	7	12660	0.23	0.130	0.24	
363.32	366.37	3.05	567986	HYP	PPXX	7	13260	0.17	0.065	0.14	
366.37	369.42	3.05	567987	HYP	PPXX	7	12300	0.11	0.264	0.14	
369.42	372.47	3.05	567988	HYP	PPXX	7	12200	0.14	0.088	0.17	
372.47	373.99	1.52	567989	HYP	PPXX	7	6400	0.11	0.030	0.14	
373.99	377.03	3.04	567990	HYP	PPXX	7	14000	0.21	0.050	0.10	
377.03	380.09	3.06	567991	HYP	PPXX	7	12400	0.32	0.081	0.21	
380.09	383.13	3.04	567992	HYP	PPXX	5	12960	0.33	0.096	0.21	
383.13	386.19	3.06	567993	HYP	PPXX	5	12360	0.24	0.141	0.17	
386.19	389.23	3.04	567994	HYP	PPXX	5	11400	0.41	0.056	0.27	
389.23	392.28	3.05	567995	HYP	PPXX	5	13040	0.24	0.038	0.17	
392.28	395.33	3.05	567996	HYP	PPXX	5	12880	0.29	0.067	0.17	
395.33	398.37	3.04	567997	HYP	PPXX	7	13480	0.20	0.105	0.14	
398.37	401.42	3.05	567998	HYP	PPXX	7	13760	0.13	0.099	0.07	
401.42	404.47	3.05	567999	HYP	PPXX	7	13060	0.15	0.250	0.10	
404.47	407.52	3.05	568000	HYP	PPXX	5	13500	0.25	0.155	0.17	
407.52	410.56	3.04	568001	HYP	PPXX	7	12820	0.22	0.032	0.17	
410.56	413.61	3.05	568002	HYP	PPXX	7	12140	0.16	0.090	0.17	
413.61	416.66	3.05	568003	HYP	PPXX	7	13460	0.30	0.125	0.31	
416.66	419.71	3.05	568004	HYP	PPXX	7	10560	0.13	0.074	0.14	
419.71	422.76	3.05	568005	HYP	PPXX	7	13160	0.07	0.025	0.10	
422.76	424.48	1.72	568006	HYP	PPXX	7	7040	0.09	0.018	0.07	
424.48	427.33	2.85	568007	HYP	PPXX	7	12820	0.09	0.028	0.14	
427.33	430.38	3.05	568008	HYP	PPXX	7	12340	0.11	0.061	0.14	
430.38	433.42	3.04	568009	HYP	PPXX	7	11960	0.06	0.117	0.03	
433.42	434.95	1.53	568010	HYP	PPXX	7	6920	0.20	0.145	0.21	
434.95	438.00	3.05	568011	HYP	PPXX	7	12820	0.17	0.140	0.21	
438.00	441.05	3.05	568012	HYP	PPXX	7	13100	0.08	0.133	0.03	
441.05	444.09	3.04	568013	HYP	PPXX	7	13120	0.06	0.091	0.03	
444.09	447.14	3.05	568014	HYP	PPXX	7	12540	0.06	0.088	0.07	
447.14	450.19	3.05	568015	HYP	PPXX	7	12720	0.06	0.079	0.03	
450.19	453.24	3.05	568016	HYP	PPXX	5	12900	0.08	0.089	0.14	
453.24	456.28	3.04	568017	HYP	PPXX	5	12680	0.06	0.064	0.03	
456.28	459.33	3.05	568018	HYP	PPXX	5	12160	0.11	0.073	0.10	
459.33	462.38	3.05	568019	HYP	PPXX	5	12640	0.14	0.071	0.10	
462.38	465.43	3.05	568020	HYP	BRXC	5	11660	0.16	0.080	0.17	
465.43	468.48	3.05	568021	HYP	BRXC	5	11380	0.12	0.088	0.14	
468.48	471.52	3.04	568022	HYP	BRXC	5	12620	0.14	0.115	0.14	
471.52	474.57	3.05	568023	HYP	BRXC	5	12480	0.11	0.102	0.10	
474.57	477.62	3.05	568024	HYP	BRXC	5	11660	0.34	0.142	0.31	
477.62	480.67	3.05	568025	HYP	BRXC	5	10720	0.26	0.094	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
480.67	483.72	3.05	568026	HYP	BRXC	5	12240	0.07	0.072	0.10	
483.72	486.77	3.05	568027	HYP	BRXC	5	12000	0.06	0.059	0.03	
486.77	489.81	3.04	568028	HYP	BRXC	5	14360	0.15	0.058	0.14	
489.81	490.86	1.05	568029	HYP	BRXC	5	5700	0.33	0.131	0.34	
490.86	492.48	1.62	568030	HYP	BRXC	5	7760	0.18	0.198	0.17	
492.48	495.91	3.43	568031	HYP	BRXC	5	15320	0.19	0.108	0.21	
495.91	498.96	3.05	568032	HYP	BRXC	5	14200	0.17	0.119	0.21	
498.96	502.01	3.05	568033	HYP	BRXC	5	12120	0.18	0.137	0.17	
502.01	505.05	3.04	568034	HYP	BRXC	5	12460	0.43	0.271	0.62	
505.05	508.10	3.05	568035	HYP	QZMF	5	12760	0.07	0.156	0.07	
508.10	511.15	3.05	568036	HYP	QZMF	5	12380	0.04	0.035	<0.03	
511.15	514.20	3.05	568037	HYP	QZMF	3	12360	0.08	0.011	0.03	
514.20	517.25	3.05	568038	HYP	QZMF	5	12980	0.08	0.038	0.07	
517.25	520.29	3.04	568039	HYP	QZMF	5	11800	0.04	0.028	0.24	
520.29	523.34	3.05	568040	HYP	QZMF	5	12460	0.03	0.074	0.03	
523.34	526.39	3.05	568041	HYP	QZMF	5	12320	0.09	0.080	0.14	
526.39	529.44	3.05	568042	HYP	QZMF	5	11900	0.10	0.096	0.03	
529.44	532.49	3.05	568043	HYP	QZMF	5	13540	0.09	0.055	0.07	
532.49	535.53	3.04	568044	HYP	DYKE	0	12540	0.04	0.003	0.07	
535.53	538.58	3.05	568045	HYP	DYKE	0	13740	0.04	0.002	0.03	
538.58	541.02	2.44	568046	HYP	DYKE	0	11500	0.06	0.024	<0.03	
541.02	544.22	3.20	568047	HYP	QZMF	5	12500	0.03	0.037	<0.03	
544.22	547.12	2.90	568048	HYP	QZMF	5	11680	0.02	0.133	0.03	
547.12	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-151	Total Depth	545.29 m		
Northing	254,549.09	Casing Depth	4.27 m		Left In
Easting	110,928.15	Survey Data	Azimuth	Dip	Instrument
Elevation	1355.13 m	Collar 152.4	300°	-89.58°	
Core Size	HQ	304.8	227°	-89.25°	
Drilling Started	April 23, 1993	434.9	284°	-88.95°	
Drilling Finished	May 3, 1993				
Logged by	M. Dittrick				

Purpose/Target:

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.27	4.27		OVB							
4.27	6.71	2.44	572208	CAP	QZMI	5	7100	0.01	0.011	0.27	
6.71	9.75	3.04	572209	CAP	QZMI	5	10950	0.01	0.023	0.31	
9.75	12.80	3.05	572210	CAP	QZMI	5	8140	0.01	0.024	0.48	
12.80	15.85	3.05	572211	CAP	QZMI	3	8380	0.02	0.031	0.31	
15.85	18.89	3.04	572212	CAP	QZMI	5	9550	0.03	0.043	0.51	
18.89	21.94	3.05	572213	CAP	QZMI	5	8400	0.09	0.019	0.41	
21.94	24.99	3.05	572214	SOX	KGRD	2	10730	0.17	0.032	0.58	
24.99	28.04	3.05	572215	SOX	KGRD	7	11460	0.18	0.018	0.45	
28.04	31.09	3.05	572216	SOX	KGRD	7	10890	0.15	0.027	0.51	
31.09	34.14	3.05	572217	SOX	KGRD	7	11100	0.37	0.025	0.58	
34.14	37.19	3.05	572218	SOX	KGRD	7	11320	0.29	0.029	0.55	
37.19	40.23	3.04	572219	SOX	KGRD	7	12240	0.19	0.027	0.62	
40.23	43.28	3.05	572220	HYP	KGRD	4	11440	0.28	0.027	0.55	
43.28	46.33	3.05	572221	HYP	KGRD	4	11980	0.21	0.019	0.38	
46.33	49.38	3.05	572222	HYP	KGRD	4	11960	0.25	0.018	0.48	
49.38	52.43	3.05	572223	HYP	KGRD	4	13140	0.31	0.014	0.45	
52.43	55.47	3.04	572224	HYP	KGRD	4	11200	0.35	0.042	0.65	
55.47	58.52	3.05	572225	HYP	KGRD	7	12180	0.28	0.027	0.48	
58.52	61.56	3.04	572226	HYP	KGRD	4	12600	0.26	0.019	0.45	
61.56	64.62	3.06	572227	HYP	KGRD	4	12520	0.23	0.016	0.34	
64.62	67.66	3.04	572228	HYP	KGRD	1	12640	0.24	0.020	0.45	
67.66	70.71	3.05	572229	HYP	KGRD	1	13760	0.19	0.011	0.24	
70.71	73.76	3.05	572230	HYP	KGRD	1	13440	0.33	0.020	0.38	
73.76	76.81	3.05	572231	HYP	KGRD	7	12590	0.24	0.011	0.31	
76.81	79.86	3.05	572232	HYP	KGRD	7	12420	0.35	0.030	0.65	
79.86	82.91	3.05	572233	HYP	KGRD	7	12890	0.24	0.015	0.38	
82.91	85.95	3.04	572234	HYP	KGRD	7	12330	0.28	0.019	0.45	
85.95	89.00	3.05	572235	HYP	KGRD	7	12620	0.28	0.015	0.45	
89.00	92.05	3.05	572236	HYP	KGRD	7	12300	0.19	0.009	0.38	
92.05	95.10	3.05	572237	HYP	KGRD	5	12230	0.25	0.029	0.41	
95.10	98.15	3.05	572238	HYP	KGRD	4	12080	0.08	0.050	0.24	
98.15	101.19	3.04	572239	HYP	KGRD	4	12160	0.20	0.018	0.41	
101.19	104.24	3.05	572240	HYP	KGRD	5	11820	0.14	0.019	0.34	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
104.24	107.29	3.05	572241	HYP	KGRD	5	12600	0.24	0.011	0.45	
107.29	110.34	3.05	572242	HYP	KGRD	5	12090	0.22	0.026	0.55	
110.34	111.86	1.52	572243	HYP	KGRD	5	6980	0.12	0.012	0.24	
111.86	114.91	3.05	572244	HYP	KGRD	5	11720	0.25	0.020	0.38	
114.91	117.96	3.05	572245	HYP	KGRD	5	12800	0.34	0.023	0.51	
117.96	121.01	3.05	572246	HYP	KGRD	5	12650	0.25	0.022	0.65	
121.01	124.05	3.04	572247	HYP	KGRD	5	12740	0.24	0.019	0.38	
124.05	127.10	3.05	572248	HYP	KGRD	7	12700	0.26	0.022	0.48	
127.10	130.15	3.05	572249	HYP	KGRD	7	12500	0.23	0.022	0.38	
130.15	133.20	3.05	572250	HYP	KGRD	7	12450	0.23	0.012	0.31	
133.20	136.25	3.05	572251	HYP	KGRD	7	12020	0.28	0.019	0.48	
136.25	139.29	3.04	572252	HYP	KGRD	7	11540	0.29	0.021	0.41	
139.29	142.34	3.05	572253	HYP	KGRD	7	12020	0.24	0.026	0.34	
142.34	145.39	3.05	572254	HYP	KGRD	7	12300	0.24	0.017	0.31	
145.39	148.44	3.05	572255	HYP	KGRD	7	12930	0.20	0.017	0.27	
148.44	151.49	3.05	572256	HYP	KGRD	5	12030	0.16	0.066	0.24	
151.49	153.92	2.43	572257	HYP	KGRD	3	6630	0.29	0.804	0.96	
153.92	155.75	1.83	572258	HYP	KGRD	3	6380	0.31	0.147	0.55	
155.75	158.19	2.44	572259	HYP	KGRD	2	6080	0.29	0.025	0.45	
158.19	161.24	3.05	572260	HYP	KGRD	2	12450	0.43	0.138	0.79	
161.24	164.29	3.05	572261	HYP	KGRD	7	12320	0.46	0.042	0.79	
164.29	167.34	3.05	572262	HYP	KGRD	7	12060	0.32	0.022	0.51	
167.34	170.38	3.04	572263	HYP	KGRD	7	13180	0.21	0.056	0.38	
170.38	173.43	3.05	572264	HYP	KGRD	7	9200	0.22	0.021	0.34	
173.43	176.48	3.05	572265	HYP	KGRD	7	13300	0.24	0.019	0.69	
176.48	179.53	3.05	572266	HYP	KGRD	7	11080	0.22	0.029	0.31	
179.53	182.58	3.05	572267	HYP	KGRD	7	12460	0.21	0.015	0.31	
182.58	185.62	3.04	572268	HYP	KGRD	7	11200	0.15	0.153	0.27	
185.62	188.67	3.05	572269	HYP	KGRD	7	13080	0.18	0.030	0.27	
188.67	191.72	3.05	572270	HYP	KGRD	7	13100	0.22	0.010	0.34	
191.72	194.77	3.05	572271	HYP	KGRD	7	11120	0.21	0.012	0.62	
194.77	197.21	2.44	572272	HYP	KGRD	7	12050	0.30	0.022	0.51	
197.21	200.25	3.04	572273	HYP	KGRD	7	12480	0.29	0.023	0.34	
200.25	203.30	3.05	572274	HYP	KGRD	7	11080	0.20	0.013	0.45	
203.30	206.04	2.74	572275	HYP	KGRD	7	10260	0.34	0.023	0.55	
206.04	209.25	3.21	572276	HYP	KGRD	7	12380	0.30	0.023	0.34	
209.25	212.29	3.04	572277	HYP	KGRD	7	12360	0.29	0.034	0.34	
212.29	215.49	3.20	572278	HYP	KGRD	7	12080	0.25	0.031	0.45	
215.49	218.54	3.05	572279	HYP	KGRD	1	10960	0.24	0.039	0.24	
218.54	221.59	3.05	572280	HYP	KGRD	1	11660	0.33	0.021	0.31	
221.59	222.66	1.07	572281	HYP	KGRD	4	3780	0.26	0.025	0.24	
222.66	225.73	3.07	572282	HYP	PPXX	4	12600	0.22	0.027	0.21	
225.73	227.69	1.96	572283	HYP	PPXX	4	7900	0.26	0.028	0.24	
227.69	230.73	3.04	572284	HYP	KGRD	7	13220	0.26	0.021	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.73	233.78	3.05	572285	HYP	KGRD	7	12800	0.21	0.039	0.34	
233.78	236.83	3.05	572286	HYP	KGRD	7	12500	0.24	0.024	0.31	
236.83	239.88	3.05	572287	HYP	KGRD	7	13110	0.20	0.025	0.21	
239.88	242.93	3.05	572288	HYP	KGRD	7	13620	0.26	0.026	0.27	
242.93	245.97	3.04	572289	HYP	PPXX	4	14100	0.22	0.045	0.31	
245.97	249.02	3.05	572290	HYP	PPXX	4	13480	0.23	0.020	0.24	
249.02	252.07	3.05	572291	HYP	KGRD	7	12150	0.15	0.017	0.17	
252.07	255.12	3.05	572292	HYP	PPXX	4	12480	0.17	0.032	0.24	
255.12	258.16	3.04	572293	HYP	PPXX	4	12380	0.15	0.028	0.21	
258.16	261.21	3.05	572294	HYP	PPXX	4	12380	0.21	0.024	0.24	
261.21	264.26	3.05	572295	HYP	PPXX	4	11640	0.16	0.028	0.17	
264.26	267.31	3.05	572296	HYP	PPXX	4	11320	0.22	0.037	0.27	
267.31	270.36	3.05	572297	HYP	KGRD	7	11620	0.20	0.032	0.24	
270.36	273.41	3.05	572298	HYP	KGRD	7	11380	0.17	0.030	0.27	
273.41	276.45	3.04	572299	HYP	KGRD	7	11600	0.18	0.035	0.21	
276.45	279.50	3.05	572300	HYP	KGRD	7	11780	0.20	0.024	0.21	
279.50	282.55	3.05	572301	HYP	PPXX	4	9920	0.31	0.035	0.38	
282.55	285.60	3.05	572302	HYP	PPXX	4	13920	0.20	0.039	0.24	
285.60	288.65	3.05	572303	HYP	PPXX	4	12180	0.17	0.063	0.17	
288.65	291.69	3.04	572304	HYP	KGRD	7	12168	0.17	0.036	0.21	
291.69	294.74	3.05	572305	HYP	KGRD	7	12040	0.23	0.042	0.34	
294.74	296.57	1.83	572306	HYP	KGRD	7	7520	0.22	0.040	0.24	
296.57	299.61	3.04	572307	HYP	KGRD	7	11700	0.27	0.033	0.34	
299.61	302.67	3.06	572308	HYP	KGRD	7	12520	0.22	0.024	0.27	
302.67	306.02	3.35	572309	HYP	KGRD	7	12460	0.20	0.049	0.31	
306.02	306.93	0.91	572310	HYP	KGRD	7	3980	0.23	0.035	0.38	
306.93	309.98	3.05	572311	HYP	KGRD	7	11520	0.19	0.039	0.21	
309.98	313.03	3.05	572312	HYP	KGRD	5	11300	0.24	0.058	0.21	
313.03	316.08	3.05	572313	HYP	KGRD	2	11300	0.22	0.050	0.27	
316.08	319.13	3.05	572314	HYP	KGRD	2	10800	0.22	0.072	0.21	
319.13	322.78	3.65	572315	HYP	KGRD	5	12020	0.18	0.028	0.21	
322.78	325.22	2.44	572316	HYP	KGRD	7	11480	0.20	0.030	0.27	
325.22	328.27	3.05	572317	HYP	KGRD	7	10840	0.16	0.031	0.21	
328.27	331.32	3.05	572318	HYP	KGRD	7	12260	0.23	0.031	0.31	
331.32	334.37	3.05	572319	HYP	KGRD	7	12020	0.19	0.040	0.21	
334.37	337.41	3.04	572320	HYP	KGRD	7	12480	0.19	0.034	0.24	
337.41	340.46	3.05	572321	HYP	KGRD	7	11740	0.29	0.043	0.31	
340.46	343.51	3.05	572322	HYP	KGRD	7	12800	0.20	0.037	0.27	
343.51	346.56	3.05	572323	HYP	KGRD	7	12240	0.19	0.036	0.24	
346.56	349.61	3.05	572324	HYP	KGRD	5	11940	0.22	0.037	0.24	
349.61	352.65	3.04	572325	HYP	KGRD	5	12260	0.26	0.037	0.31	
352.65	355.70	3.05	572326	HYP	KGRD	5	12140	0.19	0.100	0.21	
355.70	358.75	3.05	572327	HYP	KGRD	5	12340	0.17	0.039	0.27	
358.75	361.80	3.05	572328	HYP	KGRD	5	8400	0.11	0.040	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
361.80	364.85	3.05	572329	HYP	KGRD	7	6600	0.14	0.111	0.17	
364.85	367.89	3.04	572330	HYP	KGRD	7	7100	0.19	0.059	0.31	
367.89	370.94	3.05	572331	HYP	KGRD	7	6980	0.20	0.066	0.24	
370.94	373.99	3.05	572332	HYP	PPXX	4	6500	0.36	0.072	0.48	
373.99	377.04	3.05	572333	HYP	PPXX	4	6590	0.18	0.028	0.27	
377.04	380.09	3.05	572334	HYP	PPXX	4	6650	0.13	0.029	0.17	
380.09	383.13	3.04	572335	HYP	KGRD	7	6260	0.16	0.037	0.24	
383.13	386.18	3.05	572336	HYP	KGRD	7	6450	0.15	0.033	0.24	
386.18	388.62	2.44	572337	HYP	KGRD	7	5700	0.20	0.033	0.31	
388.62	391.67	3.05	572338	HYP	KGRD	7	6960	0.16	0.039	0.21	
391.67	394.72	3.05	572339	HYP	KGRD	7	6500	0.15	0.050	0.17	
394.72	397.92	3.20	572340	HYP	KGRD	5	7050	0.18	0.027	0.27	
397.92	400.96	3.04	572341	HYP	KGRD	5	6800	0.16	0.034	0.24	
400.96	404.01	3.05	572342	HYP	KGRD	5	6820	0.16	0.051	0.24	
404.01	407.21	3.20	572343	HYP	KGRD	5	7070	0.17	0.018	0.27	
407.21	409.96	2.75	572344	HYP	KGRD	5	6360	0.52	0.044	0.55	
409.96	413.16	3.20	572345	HYP	KGRD	5	6090	0.18	0.029	0.24	
413.16	416.20	3.04	572346	HYP	KGRD	3	7250	0.16	0.042	0.17	
416.20	419.25	3.05	572347	HYP	KGRD	3	6970	0.15	0.044	0.21	
419.25	422.45	3.20	572348	HYP	KGRD	3	7540	0.18	0.048	0.24	
422.45	425.50	3.05	572349	HYP	KGRD	3	6900	0.20	0.054	0.24	
425.50	428.70	3.20	572350	HYP	KGRD	3	6980	0.16	0.034	0.21	
428.70	430.99	2.29	572351	HYP	KGRD	5	4720	0.14	0.035	0.21	
430.99	434.04	3.05	572352	HYP	KGRD	5	7380	0.20	0.034	0.17	
434.04	437.08	3.04	572353	HYP	KGRD	5	7540	0.19	0.031	0.24	
437.08	440.13	3.05	572354	HYP	KGRD	5	7220	0.23	0.029	0.31	
440.13	444.09	3.96	572355	HYP	KGRD	5	8820	0.19	0.021	0.21	
444.09	447.14	3.05	572356	HYP	KGRD	7	7220	0.24	0.078	0.31	
447.14	450.19	3.05	572357	HYP	KGRD	7	7200	0.24	0.048	0.27	
450.19	453.24	3.05	572358	HYP	KGRD	5	5300	0.13	0.017	0.21	
453.24	455.37	2.13	572359	HYP	KGRD	5	5620	0.20	0.018	0.21	
455.37	458.42	3.05	572360	HYP	KGRD	7	8560	0.19	0.031	0.24	
458.42	461.47	3.05	572361	HYP	KGRD	5	5490	0.24	0.040	0.27	
461.47	464.51	3.04	572362	HYP	KGRD	5	5160	0.23	0.049	0.31	
464.51	467.56	3.05	572363	HYP	KGRD	7	6280	0.20	0.153	0.27	
467.56	469.39	1.83	572364	HYP	KGRD	7	3820	0.30	0.152	0.38	
469.39	472.44	3.05	572365	HYP	PPXX	4	6300	0.29	0.083	0.38	
472.44	475.49	3.05	572366	HYP	PPXX	4	6820	0.20	0.057	0.21	
475.49	478.54	3.05	572367	HYP	KGRD	7	5750	0.23	0.066	0.31	
478.54	481.58	3.04	572368	HYP	PPXX	4	6280	0.13	0.025	0.17	
481.58	483.41	1.83	572369	HYP	PPXX	4	3800	0.26	0.087	0.31	
483.41	485.85	2.44	572370	HYP	PPXX	4	5000	0.16	0.015	0.14	
485.85	487.98	2.13	572371	HYP	PPXX	4	4220	0.24	0.108	0.27	
487.98	489.20	1.22	572372	HYP	PPXX	4	2670	0.30	0.034	0.34	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
489.20	492.40	3.20	572373	HYP	PPXX	4	6980	0.15	0.034	0.21	
492.40	495.60	3.20	572374	HYP	PPXX	4	6620	0.09	0.035	0.07	
495.60	498.81	3.21	572375	HYP	PPXX	4	6760	0.17	0.051	0.21	
498.81	501.85	3.04	572376	HYP	PPXX	4	6920	0.19	0.034	0.17	
501.85	505.05	3.20	572377	HYP	PPXX	4	6760	0.18	0.044	0.21	
505.05	508.10	3.05	572378	HYP	KGRD	7	7120	0.13	0.028	0.14	
508.10	511.15	3.05	572379	HYP	KGRD	7	7000	0.17	0.056	0.17	
511.15	514.20	3.05	572380	HYP	KGRD	7	6880	0.11	0.061	0.10	
514.20	517.25	3.05	572381	HYP	KGRD	7	7080	0.12	0.053	0.07	
517.25	520.29	3.04	572382	HYP	KGRD	7	6940	0.15	0.069	0.17	
520.29	523.34	3.05	572383	HYP	KGRD	7	6740	0.15	0.065	0.24	
523.34	526.08	2.74	572384	HYP	PPXX	4	6000	0.18	0.019	0.24	
526.08	529.13	3.05	572385	HYP	PPXX	4	6880	0.18	0.047	0.27	
529.13	532.18	3.05	572386	HYP	PPXX	7	6780	0.15	0.032	0.17	
532.18	535.38	3.20	572387	HYP	KGRD	7	6720	0.25	0.028	0.24	
535.38	538.58	3.20	572388	HYP	KGRD	7	6660	0.23	0.021	0.24	
538.58	541.63	3.05	572389	HYP	KGRD	7	6980	0.18	0.033	0.21	
541.63	545.29	3.66	572390	HYP	KGRD	7	8200	0.12	0.029	0.17	
545.29	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-152	Total Depth	578.06 m		
Northing	254,799.77	Casing Depth	4.27 m		Left In
Easting	111,184.85	Survey Data	Azimuth	Dip	Instrument
Elevation	1341.91 m	Collar		-90.00°	
Core Size	HQ	184.98 m	304°	-89.67°	Sperry Sun
Drilling Started	April 25, 1993	313.03 m	335°	-89.40°	
Drilling Finished	May 5, 1993	453.24 m	025°	-89.20°	
Logged by	J. Reeder	578.06 m	325°	-89.35°	

Purpose/Target: In-fill drilling between Holes P-132 and P-139 and to test mineralization at depth.

Comments: Intersected moderate Cu%; hole ended Cu mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.27	4.27		OVB							
4.27	6.71	2.44	568049	CAP	BRXT	3	8720	0.09	0.086	1.03	
6.71	9.45	2.74	568050	CAP	BRXT	3	8260	0.05	0.045	1.17	
9.45	12.50	3.05	568051	CAP	BRXT	3	10060	0.09	0.032	1.58	
12.50	15.54	3.04	568052	CAP	BRXT	3	9780	0.09	0.030	1.03	
15.54	18.90	3.36	568053	CAP	BRXT	3	10000	0.08	0.035	0.69	
18.90	21.94	3.04	568054	CAP	BRXT	3	10380	0.09	0.020	1.23	
21.94	24.99	3.05	568055	CAP	BRXT	3	11140	0.08	0.025	0.89	
24.99	27.58	2.59	568056	CAP	BRXT	3	8860	0.08	0.044	0.72	
27.58	30.48	2.90	568057	CAP	PPXX	3	8700	0.04	0.026	0.38	
30.48	33.83	3.35	568058	CAP	PPXX	3	9500	0.05	0.014	0.31	
33.83	37.19	3.36	568059	CAP	PPXX	3	9500	0.04	0.033	0.58	
37.19	40.23	3.04	568060	CAP	PPXX	3	10560	0.04	0.025	0.51	
40.23	43.28	3.05	568061	CAP	PPXX	3	11120	0.04	0.046	0.31	
43.28	46.02	2.74	568062	CAP	BRXT	3	8740	0.04	0.020	0.27	
46.02	48.92	2.90	568063	CAP	BRXT	3	9800	0.05	0.030	0.55	
48.92	51.82	2.90	568064	CAP	BRXT	3	9100	0.07	0.032	0.65	
51.82	55.47	3.65	568065	CAP	BRXT	3	11560	0.07	0.058	0.75	
55.47	58.52	3.05	568066	CAP	BRXT	3	9600	0.04	0.065	1.23	
58.52	61.57	3.05	568067	CAP	BRXT	3	10640	0.04	0.051	1.51	
61.57	64.62	3.05	568068	CAP	BRXT	3	9360	0.03	0.048	0.41	
64.62	67.66	3.04	568069	CAP	BRXT	3	9130	0.05	0.057	1.10	
67.66	70.71	3.05	568070	CAP	BRXT	3	11150	0.11	0.058	1.10	
70.71	73.76	3.05	568071	CAP	BRXT	3	10600	0.05	0.050	0.79	
73.76	76.81	3.05	568072	CAP	BRXT	3	11800	0.06	0.032	0.31	
76.81	79.24	2.43	568073	CAP	BRXT	3	9850	0.04	0.025	0.24	
79.24	81.99	2.75	568074	CAP	QZMF	3	10220	0.03	0.024	0.45	
81.99	84.43	2.44	568075	CAP	QZMF	3	10320	0.03	0.044	0.55	
84.43	87.48	3.05	568076	CAP	QZMF	3	10340	0.04	0.109	0.72	
87.48	90.53	3.05	568077	CAP	QZMF	3	11000	0.03	0.041	0.31	
90.53	93.88	3.35	568078	CAP	QMMF	3	10820	0.04	0.068	0.34	
93.88	96.01	2.13	568079	CAP	QMMF	3	7520	0.05	0.137	0.58	
96.01	98.14	2.13	568080	CAP	QMMF	3	8840	0.05	0.148	0.31	
98.14	101.19	3.05	568081	CAP	QMMF	3	11440	0.05	0.066	0.75	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
101.19	104.24	3.05	568082	CAP	QMMF	3	11340	0.06	0.070	0.69	
104.24	107.29	3.05	568083	CAP	QMMF	3	12050	0.05	0.050	0.27	
107.29	108.81	1.52	568084	CAP	QMMF	3	5240	0.03	0.078	0.17	
108.81	111.86	3.05	568085	CAP	QMMF	3	11500	0.06	0.063	0.27	
111.86	114.91	3.05	568086	CAP	QMMF	3	12300	0.05	0.108	0.45	
114.91	117.96	3.05	568087	CAP	QZ3C	7	13230	0.06	0.226	0.38	
117.96	119.63	1.67	568088	CAP	QZ3C	7	6900	0.04	0.167	0.58	
119.63	122.68	3.05	568089	CAP	QMBX	7	13000	0.05	0.128	0.45	
122.68	124.05	1.37	568090	CAP	QMBX	7	6780	0.05	0.093	0.51	
124.05	127.10	3.05	568091	CAP	QMBX	7/5	12480	0.07	0.067	0.27	
127.10	130.15	3.05	568092	CAP	QMBX	7/5	12680	0.06	0.090	0.34	
130.15	132.44	2.29	568093	CAP	QMBX	7/5	8900	0.05	0.078	0.21	
132.44	134.11	1.67	568094	CAP	QMBX	7/5	7880	0.06	0.085	0.27	
134.11	136.25	2.14	568095	CAP	QZ3C	7/5	9420	0.05	0.056	0.07	
136.25	139.29	3.04	568096	SOX	QZ3C	7/5	12300	0.13	0.028	0.24	
139.29	142.34	3.05	568097	SOX	QZ3C	7/5	13560	0.17	0.020	0.55	
142.34	145.38	3.04	568098	SOX	QZ3C	7/5	12680	0.15	0.051	0.34	
145.38	148.44	3.06	568099	SOX	QZ3C	7/5	13740	0.30	0.016	0.31	
148.44	151.49	3.05	568100	SOX	QZ3C	7/5	13540	0.39	0.032	0.45	
151.49	154.53	3.04	568101	SUS	QZ3C	7/5	12640	0.30	0.020	0.31	
154.53	157.78	3.25	568102	SUS	QZ3C	7/5	14000	0.40	0.019	0.41	
157.78	160.62	2.84	568103	SUS	QZ3C	7/5	13400	0.33	0.029	0.27	
160.62	163.68	3.06	568104	SUS	QZ3C	7/5	13820	0.21	0.014	0.14	
163.68	166.73	3.05	568105	SUS	QZ3C	7/5	13420	0.40	0.036	0.45	
166.73	169.77	3.04	568106	SUS	QZ3C	7/5	12000	0.59	0.021	0.51	
169.77	172.82	3.05	568107	SUS	QZ3C	7/5	14000	0.33	0.045	0.41	
172.82	175.87	3.05	568108	SUS	QZ3C	7/5	13450	0.24	0.027	0.27	
175.87	178.92	3.05	568109	SUS	QMBX	7/5	13140	0.56	0.029	0.65	
178.92	181.97	3.05	568110	SUS	QMBX	7/5	12500	0.36	0.028	0.45	
181.97	185.01	3.04	568111	SUS	QMBX	7/5	11450	0.91	0.086	0.58	
185.01	188.67	3.66	568112	SUS	PPDX	7/5	13490	0.26	0.022	0.34	
188.67	191.11	2.44	568113	SUS	PPDX/QM3C	7/5	10440	0.32	0.057	0.45	
191.11	194.16	3.05	568114	SUS	QM3C	7/5	11790	0.22	0.043	0.27	
194.16	197.21	3.05	568115	SUS	QMBX	7/5	11940	0.19	0.069	0.31	
197.21	200.25	3.04	568116	SUS	QMBX	7/5	11240	0.42	0.075	0.58	
200.25	203.30	3.05	568117	SUS	QMBX	7/5	12200	0.34	0.051	0.62	
203.30	206.35	3.05	568118	SUS	QMBX	7/5	11480	0.21	0.041	0.31	
206.35	209.40	3.05	568119	SUS	QMBX	7/5	11440	0.23	0.054	0.27	
209.40	211.53	2.13	568120	SUS	QMBX	7/5	7950	0.24	0.046	0.45	
211.53	214.73	3.20	568121	SUS	QMBX	7/5	12540	0.47	0.085	0.41	
214.73	217.80	3.07	568122	SUS	QMBX	7/5	11790	0.45	0.065	0.72	
217.80	221.59	3.79	568123	SUS	QMBX	7/5	11420	0.50	0.073	0.34	
221.59	224.64	3.05	568124	SUS	QMBX	7/5	11400	0.19	0.050	0.34	
224.64	227.69	3.05	568125	SUS	QMBX	7/5	11960	0.33	0.091	0.55	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
227.69	231.04	3.35	568126	SUS	QMBX	7	11900	0.34	0.043	0.58	
231.04	233.78	2.74	568127	SUS	QMBX	7	10100	0.45	0.066	0.62	
233.78	235.92	2.14	568128	SUS	QMBX	7	7920	0.56	0.033	0.62	
235.92	239.88	3.96	568129	SUS	QMBX	7	17400	0.50	0.055	1.65	
239.88	242.93	3.05	568130	SUS	QMBX	7	12380	0.25	0.061	0.38	
242.93	245.97	3.04	568131	HYP	QMBX	7	11930	0.29	0.121	0.38	
245.97	249.02	3.05	568132	HYP	QMBX	7	12300	0.21	0.055	0.31	
249.02	251.46	2.44	568133	HYP	QMBX	7	10210	0.54	0.084	0.65	
251.46	254.51	3.05	568134	HYP	QMBX/PPDX	7	12300	0.30	0.028	0.41	
254.51	257.56	3.05	568135	HYP	QMBX	7	12700	0.19	0.111	0.34	
257.56	259.68	2.12	568136	HYP	PPDX	7	9100	0.19	0.009	0.27	
259.68	262.74	3.06	568137	HYP	PPDX	7	12200	0.16	0.029	0.24	
262.74	264.26	1.52	568138	HYP	PPDX	7	6520	0.16	0.013	0.31	
264.26	267.31	3.05	568139	HYP	QMBX	7	13030	0.21	0.023	0.38	
267.31	270.36	3.05	568140	HYP	QMBX	7	12050	0.25	0.036	0.41	
270.36	273.41	3.05	568141	HYP	QMBX	7	13080	0.23	0.057	0.34	
273.41	276.45	3.04	568142	HYP	QMBX	7	13320	0.44	0.068	0.69	
276.45	279.50	3.05	568143	HYP	QMBX	3	11900	0.19	0.040	0.31	
279.50	282.55	3.05	568144	HYP	QMBX	3	13280	0.18	0.037	0.31	
282.55	285.60	3.05	568145	HYP	QMBX	7	12920	0.25	0.066	0.41	
285.60	288.65	3.05	568146	HYP	QMBX	7	13110	0.45	0.064	0.82	
288.65	291.69	3.04	568147	HYP	QMBX	7	13430	0.31	0.038	0.58	
291.69	294.74	3.05	568148	HYP	QMBX	3	12800	0.18	0.034	0.21	
294.74	297.79	3.05	568149	HYP	QMBX	3	11730	0.24	0.034	0.45	
297.79	300.84	3.05	568150	HYP	QMBX	7	13030	0.18	0.043	0.34	
300.84	303.89	3.05	568151	HYP	QMBX	7	11820	0.18	0.053	0.34	
303.89	306.93	3.04	568152	HYP	QMBX	7	10220	0.30	0.115	0.41	
306.93	309.98	3.05	568153	HYP	QMBX	7	11950	0.21	0.035	0.41	
309.98	313.03	3.05	568154	HYP	IXPA	7	14900	0.25	0.020	0.38	
313.03	315.62	2.59	568155	HYP	QMBX	7	10500	0.24	0.028	0.51	
315.62	318.67	3.05	568156	HYP	QMBX	7	13950	0.17	0.034	0.24	
318.67	321.89	3.22	568157	HYP	QMBX	7	12200	0.15	0.049	0.24	
321.89	324.92	3.03	568158	HYP	QMBX	7	12450	0.18	0.088	0.27	
324.92	327.96	3.04	568159	HYP	QMBX	7	11220	0.30	0.028	0.31	
327.96	331.17	3.21	568160	HYP	QMBX	7	10650	0.14	0.021	0.21	
331.17	334.21	3.04	568161	HYP	IXPA	7	11600	0.12	0.011	0.21	
334.21	337.41	3.20	568162	HYP	IXPA	7	11280	0.16	0.012	0.24	
337.41	340.46	3.05	568163	HYP	IXPA	7	11250	0.20	0.089	0.27	
340.46	343.51	3.05	568164	HYP	IXPA	7	12020	0.22	0.026	0.34	
343.51	346.59	3.08	568165	HYP	IXPA	7	11100	0.23	0.026	0.27	
346.59	349.64	3.05	568166	HYP	IXPA	7	11350	0.33	0.036	0.82	
349.64	352.53	2.89	568167	HYP	IXPA	7	11400	0.16	0.022	0.27	
352.53	355.70	3.17	568168	HYP	IXPA	7	11920	0.17	0.013	0.27	
355.70	358.75	3.05	568169	HYP	IXPA	7	12200	0.24	0.017	0.51	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
358.75	361.80	3.05	568170	HYP	IXPA	7	9150	0.34	0.024	0.48	
361.80	365.16	3.36	568171	HYP	IXPA	7	12820	0.22	0.012	0.34	
365.16	367.89	2.73	568172	HYP	IXPA	7	12150	0.21	0.015	0.24	
367.89	370.94	3.05	568173	HYP	IXPA	7	11200	0.37	0.018	0.65	
370.94	373.99	3.05	568174	HYP	IXPA	7	11040	0.15	0.023	0.24	
373.99	377.04	3.05	568175	HYP	IXPA	7	16830	0.18	0.021	0.24	
377.04	381.13	4.09	568176	HYP	IXPA	7	8150	0.43	0.020	0.96	
381.13	383.13	2.00	568177	HYP	IXPA	7	11730	0.19	0.018	0.34	
383.13	386.18	3.05	568178	HYP	IXPA	7	10870	0.22	0.024	0.48	
386.18	389.25	3.07	568179	HYP	IXPA	7	11830	0.18	0.031	0.24	
389.25	392.28	3.03	568180	HYP	IXPA	7	11850	0.16	0.037	0.24	
392.28	395.33	3.05	568181	HYP	IXPA	7	11220	0.18	0.035	0.21	
395.33	398.37	3.04	568182	HYP	IXPA	7	11620	0.14	0.025	0.21	
398.37	401.42	3.05	568183	HYP	IXPA	7	11220	0.30	0.022	0.62	
401.42	404.47	3.05	568184	HYP	IXPA	7	10540	0.18	0.071	0.31	
404.47	407.52	3.05	568185	HYP	IXPA	7	10860	0.16	0.044	0.24	
407.52	410.56	3.04	568186	HYP	IXPA	7	10700	0.15	0.026	0.17	
410.56	413.61	3.05	568187	HYP	IXPA	7	10650	0.16	0.049	0.24	
413.61	416.66	3.05	568188	HYP	IXPA	7	11710	0.11	0.019	0.17	
416.66	419.71	3.05	568189	HYP	IXPA	7	12040	0.20	0.029	0.24	
419.71	422.76	3.05	568190	HYP	IXPA	3	11380	0.20	0.018	0.24	
422.76	425.80	3.04	568191	HYP	IXPA	3	11420	0.18	0.062	0.27	
425.80	428.85	3.05	568192	HYP	IXPA	3	12000	0.18	0.061	0.27	
428.85	431.90	3.05	568193	HYP	IXPA	3	10950	0.20	0.091	0.27	
431.90	434.95	3.05	568194	HYP	IXPA	3	11070	0.15	0.082	0.17	
434.95	438.00	3.05	568195	HYP	IXPA	3	9880	0.31	0.071	0.48	
438.00	441.04	3.04	568196	HYP	IXPA	3	10720	0.25	0.064	0.31	
441.04	444.09	3.05	568197	HYP	IXPA	3	10940	0.22	0.080	0.24	
444.09	447.14	3.05	568198	HYP	IXPA	3	11020	0.21	0.085	0.27	
447.14	450.19	3.05	568199	HYP	IXPA	7	11600	0.20	0.036	0.17	
450.19	453.24	3.05	568200	HYP	IXPA	7	11340	0.19	0.034	0.21	
453.24	456.29	3.05	568201	HYP	IXPA	7	10450	0.12	0.019	0.17	
456.29	459.33	3.04	568202	HYP	IXPA	7	11800	0.16	0.049	0.27	
459.33	462.38	3.05	568203	HYP	IXPA	7	11420	0.19	0.022	0.24	
462.38	465.43	3.05	568204	HYP	IXPA	7	11050	0.21	0.102	0.31	
465.43	468.48	3.05	568205	HYP	IXPA	7	11200	0.16	0.038	0.24	
468.48	471.53	3.05	568206	HYP	IXPA	7	11700	0.18	0.116	0.21	
471.53	474.57	3.04	568207	HYP	IXPA	7	12360	0.15	0.092	0.24	
474.57	477.62	3.05	568208	HYP	IXPA	7	10640	0.15	0.093	0.24	
477.62	480.67	3.05	568209	HYP	IXPA	7	11280	0.22	0.083	0.31	
480.67	483.72	3.05	568210	HYP	IXPA	7	10700	0.26	0.078	0.24	
483.72	486.77	3.05	568211	HYP	IXPA	7	10000	0.16	0.020	0.17	
486.77	489.81	3.04	568212	HYP	IXPA	7	12500	0.12	0.035	0.17	
489.81	492.86	3.05	568213	HYP	IXPA	7	12700	0.12	0.031	0.10	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
492.86	495.91	3.05	568214	HYP	IXPA	7	11400	0.16	0.043	0.17	
495.91	498.96	3.05	568215	HYP	IXPA	7	12020	0.10	0.020	0.14	
498.96	502.01	3.05	568216	HYP	IXPA	7	12010	0.14	0.025	0.21	
502.01	505.05	3.04	568217	HYP	IXPA	7	11700	0.24	0.106	0.38	
505.05	508.10	3.05	568218	HYP	IXPA	7	11980	0.12	0.110	0.24	
508.10	511.15	3.05	568219	HYP	IXPA	7	10870	0.24	0.051	0.34	
511.15	514.20	3.05	568220	HYP	IXPA	7	13160	0.24	0.036	0.45	
514.20	517.25	3.05	568221	HYP	IXPA/PPDX	7	11480	0.12	0.045	0.17	
517.25	520.29	3.04	568222	HYP	IXPA	7	11070	0.18	0.051	0.27	
520.29	523.34	3.05	568223	HYP	IXPA	7	11800	0.10	0.114	0.14	
523.34	526.39	3.05	568224	HYP	IXPA	7	11640	0.10	0.112	0.17	
526.39	529.44	3.05	568225	HYP	IXPA	7	11040	0.15	0.125	0.27	
529.44	532.49	3.05	568226	HYP	IXPA	7	11680	0.11	0.098	0.17	
532.49	535.53	3.04	568227	HYP	IXPA	7	10880	0.19	0.162	0.21	
535.53	538.58	3.05	568228	HYP	IXPA	7	12130	0.28	0.084	0.38	
538.58	541.63	3.05	568229	HYP	IXPA	7	12320	0.16	0.036	0.17	
541.63	544.68	3.05	568230	HYP	IXPA	7	10750	0.19	0.038	0.31	
544.68	547.73	3.05	568231	HYP	IXPA	7	13080	0.13	0.048	0.14	
547.73	550.77	3.04	568232	HYP	IXPA	7	12560	0.17	0.128	0.31	
550.77	553.82	3.05	568233	HYP	IXPA	7	11800	0.17	0.050	0.21	
553.82	556.87	3.05	568234	HYP	IXPA	7	11060	0.25	0.062	0.24	
556.87	559.92	3.05	568235	HYP	IXPA	7	12600	0.14	0.028	0.17	
559.92	562.97	3.05	568236	HYP	IXPA	7	10280	0.20	0.043	0.17	
562.97	566.01	3.04	568237	HYP	IXPA	7	10120	0.29	0.044	0.55	
566.01	569.06	3.05	568238	HYP	IXPA	7	10780	0.17	0.021	0.24	
569.06	572.11	3.05	568239	HYP	IXPA	7	10980	0.13	0.029	0.14	
572.11	575.16	3.05	568240	HYP	IXPA	7	11500	0.18	0.089	0.24	
575.16	578.06	2.90	568241	HYP	IXPA	7	10180	0.33	0.042	0.51	
578.06	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-153	Total Depth	392.28 m		
Northing	254,502.51	Casing Depth	7.92 m		Left In
Easting	110,702.33	Survey Data	Azimuth	Dip	Instrument
Elevation	1330.59 m	Collar			
Core Size	HQ	152.4 m	322°	-89.25°	Sperry Sun
Drilling Started	May 6, 1993	159.1 m	Unreadable		
Drilling Finished	May 13, 1993	322.2 m	313°	-88.80°	Sperry Sun
Logged by	L. Brommeland				

Purpose/Target:

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.53	8.53		OVB							
8.53	11.89	3.36	572391	CAP	PPXX	5	11580	0.13	0.012	0.24	
11.89	15.09	3.20	572392	CAP	PPXX	5	10640	0.10	0.012	0.10	
15.09	18.29	3.20	572393	CAP	PPXX	5	13460	0.06	0.005	0.07	
18.29	21.49	3.20	572394	CAP	PPXX	5	14100	0.08	0.009	0.07	
21.49	24.38	2.89	572395	CAP	PPXX	5	12580	0.09	0.004	0.07	
24.38	27.74	3.36	572396	CAP	PPXX	5	16720	0.06	0.010	0.03	
27.74	30.78	3.04	572397	CAP	PPXX	5	12600	0.07	0.018	0.00	
30.78	33.99	3.21	572398	CAP	PPXX	5	13680	0.08	0.006	0.10	
33.99	37.03	3.04	572399	CAP	PPXX	5	13460	0.08	0.018	0.07	
37.03	38.56	1.53	572400	CAP	PPXX	5	7620	0.06	0.023	0.10	
38.56	41.76	3.20	572401	CAP	PPXX	5	14400	0.06	0.012	0.10	
41.76	44.81	3.05	572402	CAP	PPXX	5	14080	0.06	0.010	0.10	
44.81	47.85	3.04	572403	CAP	PPXX	5	14420	0.09	0.009	0.03	
47.85	49.38	1.53	572404	CAP	PPXX	5	7140	0.09	0.015	0.21	
49.38	52.43	3.05	572405	CAP	PPXX	5	14120	0.07	0.013	0.10	
52.43	55.47	3.04	572406	CAP	PPXX	5	14300	0.05	0.005	<0.03	
55.47	58.52	3.05	572407	CAP	PPXX	5	14020	0.04	0.016	<0.03	
58.52	61.57	3.05	572408	CAP	WRDR	5	14580	0.10	0.028	0.14	
61.57	64.62	3.05	572409	CAP	WRDR	5	13960	0.13	0.016	0.17	
64.62	67.67	3.05	572410	CAP	WRDR	5	14500	0.20	0.019	0.41	
67.67	70.71	3.04	572411	CAP	WRGD	7	13480	0.13	0.010	0.17	
70.71	73.76	3.05	572412	CAP	WRGD	7	13540	0.11	0.022	0.17	
73.76	76.81	3.05	572413	CAP	WRDR	7	13420	0.14	0.020	0.24	
76.81	79.86	3.05	572414	CAP	WRDR	7	13840	0.11	0.021	0.17	
79.86	82.91	3.05	572415	CAP	WRDR	7	12380	0.22	0.022	0.21	
82.91	85.95	3.04	572416	CAP	WRDR	7	13160	0.16	0.016	0.21	
85.95	89.00	3.05	572417	CAP	WRDR	7	19820	0.19	0.018	0.17	
89.00	92.05	3.05	572418	CAP	WRDR	7	12960	0.10	0.015	0.14	
92.05	95.10	3.05	572419	CAP	WRDR	7	7060	0.13	0.010	0.17	
95.10	98.15	3.05	572420	CAP	WRGD	7	13340	0.26	0.020	0.17	
98.15	101.19	3.04	572421	CAP	PPXX	7	14520	0.11	0.007	0.03	
101.19	103.78	2.59	572422	CAP	PPXX	7	11660	0.07	0.007	0.03	
103.78	106.83	3.05	572423	SUS	PPXX	7	13960	0.10	0.007	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
106.83	110.34	3.51	572424	SUS	PPXX	7	14740	0.32	0.011	0.31	
110.34	113.39	3.05	572425	SUS	WRDR	7	13900	0.30	0.010	0.17	
113.39	116.43	3.04	572426	SUS	WRDR	7	14100	0.31	0.010	0.24	
116.43	119.48	3.05	572427	SUS	WRDR	7	14600	0.41	0.017	0.31	
119.48	122.53	3.05	572428	SUS	WRDR	7	13600	0.31	0.019	0.24	
122.53	125.58	3.05	572429	SUS	WRDR	7	15240	0.34	0.014	0.24	
125.58	128.63	3.05	572430	SUS	WRDR	7	14980	0.32	0.015	0.21	
128.63	131.67	3.04	572431	SUS	WRGD	7	13240	0.40	0.010	0.27	
131.67	134.72	3.05	572432	SUS	WRDR	7	13860	0.42	0.037	0.58	
134.72	137.77	3.05	572433	SUS	WRDR	7	14300	0.40	0.019	0.41	
137.77	140.82	3.05	572434	SUS	WRDR	7	13600	0.48	0.019	0.45	
140.82	143.87	3.05	572435	SUS	WRGD	7	11980	0.31	0.011	0.27	
143.87	146.91	3.04	572436	SUS	WRDR	7	12160	0.38	0.017	0.38	
146.91	149.96	3.05	572437	SUS	WRDR	7	12040	0.57	0.046	0.31	
149.96	153.30	3.34	572438	SUS	PPDX	7	13060	0.17	0.022	0.24	
153.30	156.06	2.76	572439	SUS	WRDR	7	11600	0.25	0.025	0.38	
156.06	159.11	3.05	572440	SUS	WRDR	7	12860	0.26	0.053	0.27	
159.11	162.15	3.04	572441	SUS	WRDR	7	12980	0.19	0.025	0.17	
162.15	165.20	3.05	572442	SUS	WRDR	7	13200	0.23	0.019	0.31	
165.20	168.25	3.05	572443	SUS	WRDR	7	12800	0.25	0.022	0.31	
168.25	171.30	3.05	572444	SUS	WRDR	7	12820	0.18	0.023	0.27	
171.30	174.35	3.05	572445	SUS	WRDR	7	14280	0.24	0.021	0.27	
174.35	177.40	3.05	572446	SUS	WRDR	7	13100	0.24	0.021	0.17	
177.40	180.44	3.04	572447	SUS	WRDR	7	12460	0.30	0.034	0.38	
180.44	183.49	3.05	572448	SUS	WRDR	7	13740	0.21	0.019	0.31	
183.49	186.54	3.05	572449	SUS	WRGD	7	13480	0.17	0.022	0.21	
186.54	189.59	3.05	572450	SUS	WRGD	7	12580	0.22	0.025	0.27	
189.59	192.64	3.05	572451	SUS	WRGD	7	12360	0.19	0.021	0.24	
192.64	195.68	3.04	572452	SUS	WRGD	7	13280	0.20	0.026	0.27	
195.68	198.73	3.05	572453	SUS	WRGD	7	13900	0.18	0.025	0.21	
198.73	201.78	3.05	572454	SUS	WRGD	7	13740	0.17	0.016	0.21	
201.78	204.83	3.05	572455	SUS	WRGD	7	13340	0.16	0.038	0.17	
204.83	207.87	3.04	572456	SUS	WRGD	7	13980	0.18	0.044	0.17	
207.87	210.92	3.05	572457	SUS	WRGD	7	14160	0.18	0.025	0.17	
210.92	213.97	3.05	572458	SUS	WRGD	7	14900	0.22	0.019	0.31	
213.97	217.02	3.05	572459	SUS	WRGD	7	15360	0.18	0.012	0.21	
217.02	220.07	3.05	572460	SUS	WRGD	7	13980	0.07	0.020	0.07	
220.07	223.11	3.04	572461	SUS	PPDX	7	12280	0.09	0.004	0.10	
223.11	226.16	3.05	572462	SUS	PPDX	7	14180	0.07	0.013	0.07	
226.16	227.69	1.53	572463	SUS	WRGD	7	6720	0.21	0.021	0.27	
227.69	230.73	3.04	572464	SUS	WRGD	7	12420	0.18	0.028	0.24	
230.73	233.78	3.05	572465	SUS	WRGD	7	13460	0.17	0.012	0.10	
233.78	236.63	2.85	572466	SUS	PPDX	7	13140	0.12	0.017	0.24	
236.63	239.88	3.25	572467	SUS	WRGD	7	12620	0.18	0.032	0.38	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	572468	HYP	WRDR	7	13280	0.25	0.020	0.24	
242.93	245.97	3.04	572469	HYP	WRDR	7	13180	0.23	0.028	0.27	
245.97	249.02	3.05	572470	HYP	WRGD	7	12640	0.18	0.033	0.21	
249.02	251.16	2.14	572471	HYP	WRGD	7	8920	0.21	0.024	0.17	
251.16	254.20	3.04	572472	HYP	WRDR	7	13100	0.28	0.040	0.34	
254.20	257.25	3.05	572473	HYP	WRDR	7	13300	0.35	0.165	0.48	
257.25	260.30	3.05	572474	HYP	WRGR	7	12140	0.66	0.404	0.86	
260.30	263.50	3.20	572475	HYP	WRGR	7	12960	0.36	0.103	0.34	
263.50	266.55	3.05	572476	HYP	QQTX	7	13480	0.28	0.075	0.34	
266.55	269.75	3.20	572477	HYP	QQTX	7	13960	0.24	0.081	0.21	
269.75	272.80	3.05	572478	HYP	QQTX	7	13280	0.24	0.064	0.65	
272.80	276.00	3.20	572479	HYP	QQTX	5	13240	0.25	0.099	0.27	
276.00	279.04	3.04	572480	HYP	QQTX	5	13680	0.24	0.163	0.24	
279.04	282.55	3.51	572481	HYP	QQTX	5	14220	0.22	0.067	0.17	
282.55	285.60	3.05	572482	HYP	QQTX	5	13000	0.22	0.036	0.21	
285.60	288.65	3.05	572483	HYP	QQTX	5	12400	0.18	0.091	0.17	
288.65	291.69	3.04	572484	HYP	QQTX	7	12780	0.24	0.095	0.17	
291.69	294.74	3.05	572485	HYP	QQTX	7	13160	0.28	0.043	0.31	
294.74	297.79	3.05	572486	HYP	QQTX	7	12940	0.21	0.054	0.17	
297.79	300.84	3.05	572487	HYP	QQTX	7	13400	0.15	0.080	0.14	
300.84	303.89	3.05	572488	HYP	QQTX	7	13160	0.16	0.101	0.17	
303.89	306.93	3.04	572489	HYP	QQTX	7	12460	0.31	0.075	0.24	
306.93	309.98	3.05	572490	HYP	QQTX	7	12700	0.21	0.071	0.21	
309.98	313.03	3.05	572491	HYP	QQTX	7	12640	0.28	0.053	0.21	
313.03	316.08	3.05	572492	HYP	QQTX	5	14000	0.13	0.063	0.14	
316.08	319.13	3.05	572493	HYP	QQTX	5	12960	0.16	0.059	0.10	
319.13	322.17	3.04	572494	HYP	QQTX	5	11480	0.18	0.047	0.14	
322.17	325.22	3.05	572495	HYP	QQTX	5	12040	0.18	0.038	0.10	
325.22	328.27	3.05	572496	HYP	QQTX	5	10760	0.19	0.039	0.24	
328.27	331.32	3.05	572497	HYP	QQTX	7	11360	0.24	0.049	0.17	
331.32	334.37	3.05	572498	HYP	QQTX	7	11920	0.21	0.041	0.17	
334.37	337.41	3.04	572499	HYP	QQTX	7	13080	0.25	0.056	0.14	
337.41	340.46	3.05	572500	HYP	QQTX	7	11760	0.23	0.048	0.24	
340.46	343.51	3.05	572501	HYP	QQTX	7	12300	0.30	0.057	0.27	
343.51	346.56	3.05	572502	HYP	QQTX	7	13220	0.32	0.092	0.31	
346.56	349.61	3.05	572503	HYP	QQTX	7	14100	0.21	0.057	0.21	
349.61	352.65	3.04	572504	HYP	QQTX	7	12460	0.20	0.044	0.24	
352.65	355.70	3.05	572505	HYP	QQTX	3	11240	0.17	0.048	0.14	
355.70	358.75	3.05	572506	HYP	QQTX	3	11800	0.21	0.081	0.21	
358.75	361.81	3.06	572507	HYP	QQTX	5	11870	0.16	0.050	0.10	
361.81	364.85	3.04	572508	HYP	QQTX	5	14380	0.16	0.076	0.07	
364.85	367.89	3.04	572509	HYP	QQTX	5	11600	0.23	0.088	0.21	
367.89	370.94	3.05	572510	HYP	QQTX	3	13140	0.20	0.070	0.17	
370.94	373.99	3.05	572511	HYP	QQTX	3	14000	0.23	0.047	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
373.99	377.04	3.05	572512	HYP	QQTX	3	12020	0.15	0.046	0.17	
377.04	380.09	3.05	572513	HYP	QQTX	3	14280	0.16	0.100	0.14	
380.09	383.13	3.04	572514	HYP	QQTX	5	13600	0.13	0.095	0.07	
383.13	386.18	3.05	572515	HYP	QQTX	5	14960	0.14	0.078	0.10	
386.18	389.23	3.05	572516	HYP	QQTX	5	13500	0.12	0.053	0.07	
389.23	392.28	3.05	572517	HYP	QQTX	5	11600	0.15	0.054	0.14	
392.28	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-154	**Total Depth**	581.25 m
Northing	254,543.07	**Casing Depth**	4.27 m Left In
Easting	111,093.92	**Survey Data**	**Azimuth** **Dip** **Instrument**
Elevation	1365.21 m	**Collar**	
Core Size	HQ	172.80 m	290° -89.00°
Drilling Started	May 5, 1993	309.98 m	283° -89.00°
Drilling Finished	May 18, 1993	459.33 m	267° -88.67°
Logged by	Jeff Reeder	581.25 m	265° -88.67°

Purpose/Target: Delineation of SW portion of the Casino Deposit.

Comments: Intersected fine Cu mineralization throughout.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.27	4.27		OVB							
4.27	5.79	1.52	568242	CAP	QQAQ	5	1780	<0.01	0.003	0.14	
5.79	8.23	2.44	568243	CAP	QQAQ	5	7380	<0.01	0.003	0.10	
8.23	10.67	2.44	568244	CAP	QQAQ	5	8080	<0.01	0.002	0.21	
10.67	13.72	3.05	568245	CAP	QQAQ	5	10440	<0.01	0.005	0.14	
13.72	17.07	3.35	568246	CAP	QQAQ	5	9740	<0.01	0.005	0.07	
17.07	20.12	3.05	568247	CAP	QQAQ	5	12400	<0.01	0.008	0.10	
20.12	23.32	3.20	568248	CAP	QQAQ	5	11440	<0.01	0.004	0.21	
23.32	26.21	2.89	568249	CAP	QQAQ	5	10060	<0.01	0.006	0.24	
26.21	27.43	1.22	568250	CAP	QQAQ	5	4420	<0.01	0.007	0.14	
27.43	30.61	3.18	568251	CAP	QQAQ	5	9780	<0.01	0.008	0.17	
30.61	32.61	2.00	568252	CAP	QQAQ	5	8180	<0.01	0.007	0.34	
32.61	35.36	2.75	568253	CAP	QQAQ	5	3280	<0.01	0.004	0.38	
35.36	38.10	2.74	568254	CAP	QQAQ	5	6480	<0.01	0.029	0.55	
38.10	39.32	1.22	568255	CAP	QQAQ	5	5500	<0.01	0.006	0.14	
39.32	41.76	2.44	568256	CAP	QQAQ	5	9620	<0.01	0.010	0.48	
41.76	43.59	1.83	568257	CAP	QQAQ	5	8180	<0.01	0.008	0.31	
43.59	46.02	2.43	568258	CAP	QQAQ	5	8240	<0.01	0.007	0.24	
46.02	47.85	1.83	568259	CAP	QQAQ	5	7180	<0.01	0.011	0.24	
47.85	50.90	3.05	568260	CAP	QQAQ	5	12480	<0.01	0.006	0.38	
50.90	52.73	1.83	568261	CAP	QQAQ	5	5260	<0.01	0.011	2.95	
52.73	55.47	2.74	568262	CAP	QQAQ	5	8640	<0.01	0.007	0.38	
55.47	57.00	1.53	568263	CAP	QQAQ	5	6960	<0.01	0.008	0.27	
57.00	60.96	3.96	568264	CAP	QQAQ	5	11340	<0.01	0.009	0.27	
60.96	63.09	2.13	568265	CAP	QQAQ	5	7940	<0.01	0.009	0.27	
63.09	66.14	3.05	568266	CAP	QQAQ	7,5	9840	<0.01	0.007	0.31	
66.14	68.58	2.44	568267	CAP	QQAQ	7,5	8120	<0.01	0.002	0.45	
68.58	70.41	1.83	568268	CAP	QQAQ	7,5	4960	<0.01	0.001	0.21	
70.41	72.24	1.83	568269	CAP	QQAQ	7,5	6420	<0.01	0.002	0.41	
72.24	75.29	3.05	568270	CAP	QQAQ	3,5,7	9700	<0.01	0.008	0.34	
75.29	78.03	2.74	568271	CAP	QQAQ	3,5,7	9420	<0.01	0.014	0.31	
78.03	80.77	2.74	568272	CAP	QQAQ	3,5,7	8760	<0.01	0.015	0.65	
80.77	84.12	3.35	568273	CAP	QQAQ	3,5,7	11860	<0.01	0.013	0.21	
84.12	87.48	3.36	568274	CAP	QQAQ	7	11820	0.01	0.010	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
87.48	90.53	3.05	568275	CAP	QQAQ	7	10500	0.01	0.022	0.34	
90.53	93.57	3.04	568276	CAP	QQAQ	7,5	11640	0.02	0.024	0.86	
93.57	96.62	3.05	568277	CAP	QQAQ	7,5	11500	0.01	0.019	0.41	
96.62	99.67	3.05	568278	CAP	QQAQ	7,5	13160	0.02	0.025	0.31	
99.67	102.72	3.05	568279	CAP	QQAQ	7,5	13360	0.01	0.006	0.14	
102.72	105.77	3.05	568280	CAP	QQAQ	7,5	12640	0.02	0.012	0.17	
105.77	108.81	3.04	568281	CAP	QQAQ	7,5	11860	0.02	0.012	0.38	
108.81	110.95	2.14	568282	CAP	QQAQ	7	7800	0.02	0.013	0.14	
110.95	114.00	3.05	568283	CAP	QQAQ	7,5	12300	0.09	0.008	0.17	
114.00	117.96	3.96	568284	CAP	QQAQ	7,5	15640	0.02	0.005	0.17	
117.96	121.01	3.05	568285	CAP	QQAQ	7,5	11640	0.04	0.009	0.21	
121.01	124.05	3.04	568286	SOX	QQAQ	7,5	13060	0.11	0.009	0.41	
124.05	127.10	3.05	568287	SOX	QQAQ	7,5	12580	0.15	0.009	0.24	
127.10	130.15	3.05	568288	SOX	QQAQ	7,5	12780	0.15	0.008	0.10	
130.15	133.20	3.05	568289	SOX	QQAQ	7,5	12850	0.20	0.010	0.21	
133.20	136.25	3.05	568290	SOX	QQAQ	7,5	12300	0.09	0.007	0.21	
136.25	139.29	3.04	568291	SOX	QQAQ	7,5	12080	0.11	0.005	0.14	
139.29	142.34	3.05	568292	SOX	QQAQ	7,5	12700	0.05	0.005	0.07	
142.34	145.39	3.05	568293	SOX	QQAQ	7,5	12200	0.09	0.010	0.14	
145.39	148.44	3.05	568294	SOX	QQAQ	7,5	10580	0.08	0.006	0.10	
148.44	151.49	3.05	568295	SOX	QQAQ	7,5	10320	0.13	0.004	0.07	
151.49	154.53	3.04	568296	SUS	QQAQ	7,5	10200	0.32	0.029	0.31	
154.53	157.58	3.05	568297	SUS	QQAQ	7,5	11900	0.27	0.008	0.31	
157.58	160.63	3.05	568298	SUS	QQAQ	7,5	12320	0.34	0.011	0.45	
160.63	163.37	2.74	568299	SUS	QQAQ	7,5	12900	0.35	0.020	0.34	
163.37	166.73	3.36	568300	SUS	QQAQ	7,5	12580	0.38	0.012	0.48	
166.73	169.77	3.04	568301	SUS	QMIE	7,2	12100	0.26	0.008	0.27	
169.77	172.82	3.05	568302	SUS	QQAQ	2	11680	0.60	0.050	0.48	
172.82	175.87	3.05	568303	SUS	QQAQ	7	11860	0.23	0.030	0.24	
175.87	178.92	3.05	568304	SUS	QQAQ	7	12540	0.20	0.014	0.21	
178.92	181.97	3.05	568305	SUS	QQAQ	7	13060	0.24	0.042	0.51	
181.97	185.01	3.04	568306	SUS	QQAQ	7	12660	0.33	0.028	0.99	
185.01	187.45	2.44	568307	SUS	QQAQ	7,5	11380	0.30	0.024	0.51	
187.45	190.50	3.05	568308	HYP	QQAQ	7,5	12160	0.23	0.026	0.31	
190.50	193.70	3.20	568309	HYP	QQAQ	7,5	13740	0.27	0.055	0.34	
193.70	196.90	3.20	568310	HYP	QQAQ	7,5	14120	0.39	0.021	0.82	
196.90	199.95	3.05	568311	HYP	QQAQ	7	12460	1.39	0.024	5.14	
199.95	203.15	3.20	568312	HYP	QQAQ	7	13500	0.25	0.013	0.31	
203.15	206.20	3.05	568313	HYP	QQAQ	7	12640	0.29	0.022	0.51	
206.20	209.40	3.20	568314	HYP	QQAQ	7,5	13060	0.53	0.050	1.37	
209.40	212.45	3.05	568315	HYP	QQAQ	7,5	13100	0.47	0.052	0.79	
212.45	215.49	3.04	568316	HYP	QQAQ	7	14120	0.49	0.059	0.69	
215.49	218.54	3.05	568317	HYP	QQAQ	7	14920	0.28	0.019	0.34	
218.54	221.59	3.05	568318	HYP	QMBX	7	12180	0.24	0.025	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
221.59	224.64	3.05	568319	HYP	QMBX	7	13320	0.24	0.012	0.31	
224.64	227.69	3.05	568320	HYP	LTDX	7	12380	0.10	0.003	0.38	
227.69	229.51	1.82	568321	HYP	WRGD	7,3	7040	0.32	0.026	0.34	
229.51	232.56	3.05	568322	HYP	WRGD	7,3	13300	0.25	0.023	0.45	
232.56	235.61	3.05	568323	HYP	WRGD	7,3	12920	1.58	0.013	0.99	
235.61	238.81	3.20	568324	HYP	WRGD	7,3	11540	1.90	0.008	2.61	
238.81	242.01	3.20	568325	HYP	WRGD	7,3	12080	0.12	0.007	0.21	
242.01	245.09	3.08	568326	HYP	WRGD	7,3	12880	0.25	0.018	0.41	
245.09	249.02	3.93	568327	HYP	WRGD	7,3	14900	0.26	0.010	0.41	
249.02	252.07	3.05	568328	HYP	WRGD	7,3	11920	0.21	0.011	0.31	
252.07	255.12	3.05	568329	HYP	WRGD	7,3	11520	0.16	0.039	0.21	
255.12	258.17	3.05	568330	HYP	WRGD	7	12660	0.14	0.006	0.27	
258.17	261.21	3.04	568331	HYP	WRGD	7	12900	0.20	0.005	0.31	
261.21	264.26	3.05	568332	HYP	WRGD	7,3	12840	0.33	0.015	0.31	
264.26	267.31	3.05	568333	HYP	WRGD	7,3	12040	0.42	0.042	0.65	
267.31	270.36	3.05	568334	HYP	WRGD	7,3	13080	0.54	0.013	0.21	
270.36	273.41	3.05	568335	HYP	WRGD	7,3	12920	0.72	0.010	0.55	
273.41	276.45	3.04	568336	HYP	WRGD	7,3	12800	0.29	0.034	0.34	
276.45	279.50	3.05	568337	HYP	WRGD	7,3	12420	0.25	0.026	0.24	
279.50	282.55	3.05	568338	HYP	WRGD	7,3	12460	0.27	0.022	0.41	
282.55	285.60	3.05	568339	HYP	WRGD	7,3	11620	0.27	0.004	0.38	
285.60	288.65	3.05	568340	HYP	WRGD	7,3	13280	0.32	0.019	0.41	
288.65	291.69	3.04	568341	HYP	WRGD	7,3	12980	0.30	0.011	0.24	
291.69	294.74	3.05	568342	HYP	WRGD	7,3	12940	0.50	0.010	0.72	
294.74	297.79	3.05	568343	HYP	WRGD	7,3	11840	0.27	0.097	0.31	
297.79	300.84	3.05	568344	HYP	WRGD	7,3	12880	0.27	0.040	0.41	
300.84	303.89	3.05	568345	HYP	WRGD	3	12020	0.23	0.019	0.24	
303.89	306.93	3.04	568346	HYP	WRGD	3	12000	0.36	0.027	0.38	
306.93	309.98	3.05	568347	HYP	WRGD	7,5	11280	0.32	0.033	0.41	
309.98	313.03	3.05	568348	HYP	WRGD	7	11800	0.41	0.011	0.48	
313.03	316.08	3.05	568349	HYP	WRGD	7	12840	0.25	0.027	0.31	
316.08	319.13	3.05	568350	HYP	WRGD	7	13180	0.25	0.010	0.24	
319.13	322.17	3.04	568351	HYP	WRGD	3	12060	0.30	0.019	0.31	
322.17	325.22	3.05	568352	HYP	QMBX	7,5	12340	0.21	0.040	0.27	
325.22	328.27	3.05	568353	HYP	WRGD	3	13560	0.21	0.009	0.31	
328.27	331.32	3.05	568354	HYP	WRGD	7,5	12340	0.31	0.023	0.41	
331.32	334.37	3.05	568355	HYP	WRGD	7	12740	0.22	0.017	0.17	
334.37	337.41	3.04	568356	HYP	WRGD	7	11600	0.30	0.023	0.41	
337.41	340.46	3.05	568357	HYP	WRGD	7	12140	0.34	0.044	0.45	
340.46	343.51	3.05	568358	HYP	WRGD	7	12780	0.27	0.033	0.31	
343.51	346.56	3.05	568359	HYP	WRGD	7,5	12400	0.29	0.023	0.34	
346.56	349.61	3.05	568360	HYP	WRGX	7,5	13640	0.40	0.021	0.58	
349.61	352.65	3.04	568361	HYP	WRGX	7,5	12580	0.16	0.043	0.14	
352.65	355.70	3.05	568362	HYP	WRGX	7	12240	0.17	0.034	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
355.70	358.75	3.05	568363	HYP	WRGD	7	11420	0.22	0.026	0.24	
358.75	361.80	3.05	568364	HYP	WRGD	7	12240	0.20	0.014	0.27	
361.80	364.85	3.05	568365	HYP	WRGD	7	13000	0.17	0.022	0.27	
364.85	367.89	3.04	568366	HYP	WRGD	7,5	12640	0.19	0.018	0.27	
367.89	370.94	3.05	568367	HYP	WRGD	7	13220	0.24	0.025	0.27	
370.94	373.98	3.04	568368	HYP	WRGD	7	12940	0.30	0.047	0.34	
373.98	377.04	3.06	568369	HYP	IXAF	7,3	11640	0.28	0.031	0.38	
377.04	380.09	3.05	568370	HYP	IXAF	7,3	12750	0.34	0.018	0.41	
380.09	383.13	3.04	568371	HYP	IXAF	7	12060	0.25	0.014	0.31	
383.13	386.18	3.05	568372	HYP	IXAF	7,5	11820	0.21	0.020	0.24	
386.18	389.23	3.05	568373	HYP	IXAF	7,5	13760	0.27	0.065	0.38	
389.23	392.28	3.05	568374	HYP	IXAF	7,5	13680	0.19	0.070	0.24	
392.28	395.33	3.05	568375	HYP	IXAF	7,5	12980	0.25	0.050	0.34	
395.33	398.37	3.04	568376	HYP	IXAF	7	12280	0.19	0.021	0.27	
398.37	401.42	3.05	568377	HYP	IXAF	7	13160	0.22	0.017	0.14	
401.42	404.47	3.05	568378	HYP	PPDX	7	13860	0.26	0.022	0.21	
404.47	407.52	3.05	568379	HYP	PPDX	7,5	12780	0.23	0.018	0.21	
407.52	410.57	3.05	568380	HYP	PPDX	7,5	11900	0.18	0.018	0.17	
410.57	413.61	3.04	568381	HYP	IXAF	7,5	13340	0.28	0.018	0.21	
413.61	416.66	3.05	568382	HYP	IXAF	7	12760	0.30	0.023	0.21	
416.66	419.71	3.05	568383	HYP	IXAF	7	12660	0.35	0.067	0.27	
419.71	422.75	3.04	568384	HYP	IXAF	7	13080	0.33	0.169	0.24	
422.75	425.81	3.06	568385	HYP	IXAF	7,5	12460	0.24	0.026	0.34	
425.81	428.85	3.04	568386	HYP	IXAF	7,5	13360	0.28	0.020	0.86	
428.85	431.90	3.05	568387	HYP	QM3X	7,5	12640	0.42	0.011	0.38	
431.90	434.95	3.05	568388	HYP	QM3X	7,5	12380	0.27	0.024	0.21	
434.95	437.99	3.04	568389	HYP	IXAF	7,5	12820	0.28	0.051	0.14	
437.99	441.04	3.05	568390	HYP	QMCX	7	11520	0.30	0.020	0.14	
441.04	444.09	3.05	568391	HYP	QMCX	7	12080	0.26	0.039	0.21	
444.09	447.14	3.05	568392	HYP	QMCX	7	12200	0.19	0.018	0.21	
447.14	450.18	3.04	568393	HYP	QMCX	7,3	12180	0.18	0.053	0.14	
450.18	453.23	3.05	568394	HYP	QMCX	7	12700	0.30	0.044	0.14	
453.23	456.28	3.05	568395	HYP	QMCX	7	12960	0.28	0.036	0.21	
456.28	459.33	3.05	568396	HYP	QMCX	7,5	12900	0.33	0.034	0.27	
459.33	462.38	3.05	568397	HYP	QMCX	7,5	12820	0.23	0.046	0.24	
462.38	465.43	3.05	568398	HYP	QMCX	7,5	14400	0.22	0.029	0.34	
465.43	468.47	3.04	568399	HYP	PPDX	7,5	11980	0.15	0.013	0.31	
468.47	471.52	3.05	568400	HYP	PPDX	7,5	12220	0.21	0.017	0.24	
471.52	474.57	3.05	568401	HYP	PPDX	7,5	13360	0.18	0.010	0.24	
474.57	477.62	3.05	568402	HYP	IXAF	7	12500	0.28	0.019	0.31	
477.62	480.66	3.04	568403	HYP	IXAF	7	13560	0.27	0.019	0.69	
480.66	483.71	3.05	568404	HYP	IXAF	7	13340	0.35	0.023	0.31	
483.71	486.76	3.05	568405	HYP	IXAF	7	13460	0.16	0.013	0.17	
486.76	489.81	3.05	568406	HYP	IXAF	7,5	13700	0.17	0.018	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
489.81	492.86	3.05	568407	HYP	IXAF	7,5	13070	0.22	0.029	0.21	
492.86	495.90	3.04	568408	HYP	IXAF	7	13260	0.19	0.021	0.17	
495.90	498.96	3.06	568409	HYP	IXAF	7,5	13880	0.21	0.022	0.31	
498.96	502.01	3.05	568410	HYP	IXAF	7	12440	0.18	0.029	0.21	
502.01	505.05	3.04	568411	HYP	IXAF	7	12940	0.32	0.036	0.21	
505.05	508.10	3.05	568412	HYP	IXAF	7	13140	0.18	0.026	0.14	
508.10	511.15	3.05	568413	HYP	IXAF	7	13180	0.28	0.048	0.21	
511.15	514.20	3.05	568414	HYP	IXAF	7	11840	0.25	0.023	0.31	
514.20	517.25	3.05	568415	HYP	IXAF	7	12200	0.29	0.013	0.21	
517.25	520.29	3.04	568416	HYP	IXAF	7	12500	0.30	0.014	0.34	
520.29	523.34	3.05	568417	HYP	IXAF	7	11760	0.53	0.046	0.51	
523.34	526.39	3.05	568418	HYP	IXAF	7	11300	0.50	0.024	0.45	
526.39	529.44	3.05	568419	HYP	IXAF	7	12040	0.33	0.017	0.31	
529.44	532.49	3.05	568420	HYP	IXAF	7,5	11340	0.37	0.020	0.31	
532.49	535.53	3.04	568421	HYP	IXAF	7,5	11880	0.27	0.013	0.24	
535.53	538.58	3.05	568422	HYP	PPDX	3	10800	0.24	0.035	0.31	
538.58	541.63	3.05	568423	HYP	PPDX	3	12420	0.19	0.013	0.21	
541.63	544.68	3.05	568424	HYP	IXAF	7,5	13560	0.15	0.029	0.10	
544.68	547.73	3.05	568425	HYP	IXAF	5,3	12720	0.15	0.033	0.21	
547.73	550.77	3.04	568426	HYP	IXAF	5,3	12740	0.18	0.025	0.07	
550.77	553.82	3.05	568427	HYP	IXAF	5,3	12430	0.18	0.052	0.10	
553.82	556.87	3.05	568428	HYP	IXAF	7,5	12460	0.21	0.010	0.17	
556.87	559.92	3.05	568429	HYP	IXAF	7,5	12510	0.35	0.037	0.34	
559.92	562.97	3.05	568430	HYP	IXAF	7,5	12240	0.25	0.031	0.21	
562.97	566.01	3.04	568431	HYP	IXAF	7,5	11540	0.32	0.049	0.27	
566.01	569.06	3.05	568432	HYP	IXAF	7,5	11820	0.46	0.043	0.31	
569.06	572.11	3.05	568433	HYP	IXAF	7	11900	0.31	0.020	0.24	
572.11	575.16	3.05	568434	HYP	IXAF	7	11400	0.22	0.015	0.24	
575.16	578.21	3.05	568435	HYP	IXAF	7	11300	0.25	0.022	0.21	
578.21	581.25	3.04	568436	HYP	IXAF	7	11940	0.27	0.013	0.21	
581.25	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-155	Total Depth	387.10 m			
Northing	254,601.36	Casing Depth	3.66 m			Left In
Easting	110,499.43	Survey Data		Azimuth	Dip	Instrument
Elevation	1296.83 m	Collar				
Core Size	HQ	146.96 m	575E (105)	75°	-89.50°	Sperry Sun
Drilling Started	May 15, 1993	304.80 m	545E (135)	105°	-89.55°	Sperry Sun
Drilling Finished	May 22, 1993					
Logged by	L. Brommeland					

Purpose/Target: Test beneath high gold values in a 1985 bulldozer trench.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	3.81	0.15	572518	CAP	QXAX	5	3400	0.01	0.033	0.10	
3.81	6.71	2.90	572519	CAP	QXAX	5	10800	0.01	0.061	0.14	
6.71	7.92	1.21	572520	CAP	QXAX	5	5100	0.04	0.138	0.21	
7.92	10.67	2.75	572521	CAP	WRGD	2	10960	0.05	0.095	0.17	
10.67	13.72	3.05	572522	CAP	WRGD	2	11680	0.05	0.050	0.27	
13.72	15.85	2.13	572523	CAP	WRGD	2	6670	0.06	0.040	0.21	
15.85	18.90	3.05	572524	CAP	WRGD	2	11530	0.06	0.067	0.27	
18.90	21.79	2.89	572525	CAP	WRGD	2	10830	0.07	0.061	0.24	
21.79	24.99	3.20	572526	CAP	WRGD	2	15840	0.09	0.088	0.27	
24.99	28.04	3.05	572527	SOX	WRGD	2	11690	0.21	0.060	0.27	
28.04	31.09	3.05	572528	SOX	WRGD	2	11950	0.10	0.064	0.31	
31.09	34.14	3.05	572529	SOX	WRGD	2	14400	0.08	0.062	0.31	
34.14	37.19	3.05	572530	SOX	WRGD	2	11300	0.04	0.069	0.14	
37.19	40.23	3.04	572531	SOX	WRGD	2	12840	0.27	0.085	0.31	
40.23	43.28	3.05	572532	SOX	WRGD	2	13100	0.31	0.069	0.24	
43.28	46.33	3.05	572533	SOX	WRGD	2	12240	0.18	0.100	0.21	
46.33	49.38	3.05	572534	SOX	WRGD	2	13450	0.24	0.164	0.34	
49.38	52.43	3.05	572535	SOX	WRGD	2	14400	0.06	0.100	0.24	
52.43	55.47	3.04	572536	SOX	WRGD	2	13480	0.05	0.233	0.24	
55.47	58.52	3.05	572537	SOX	WRGD	2	12480	0.08	0.089	0.38	
58.52	61.57	3.05	572538	SOX	WRGD	2	13620	0.31	0.092	0.48	
61.57	64.62	3.05	572539	SOX	WRGD	2	13600	0.22	0.348	0.55	
64.62	67.67	3.05	572540	SOX	WRGD	2	13550	0.27	0.073	0.31	
67.67	70.71	3.04	572541	SOX	WRGD	2	12680	0.11	0.073	0.21	
70.71	73.76	3.05	572542	SOX	WRGD	2	9880	0.08	0.086	0.21	
73.76	76.81	3.05	572543	SOX	WRGD	2	11680	0.06	0.226	0.27	
76.81	79.86	3.05	572544	SOX	WRGD	2	11720	0.04	0.161	0.27	
79.86	82.91	3.05	572545	SOX	WRGD	2	10520	0.25	0.081	0.21	
82.91	85.95	3.04	572546	SOX	WRGD	2	7840	0.03	0.039	0.10	
85.95	89.00	3.05	572547	SOX	WRGD	3	8460	0.03	0.061	0.14	
89.00	92.05	3.05	572548	SOX	WRGD	3	9020	0.02	0.070	0.17	
92.05	95.10	3.05	572549	SOX	WRGD	3	8780	0.31	0.052	0.21	
95.10	98.15	3.05	572550	SOX	WRGD	3	8340	0.29	0.070	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.15	101.19	3.04	572551	TRANS	WRGD	3	10000	0.32	0.067	0.48	
101.19	104.24	3.05	572552	TRANS	WRGD	3	10960	0.48	0.093	0.51	
104.24	107.29	3.05	572553	SUS	WRGD	3	11380	0.40	0.092	0.24	
107.29	110.34	3.05	572554	SUS	WRGD	3	10900	0.29	0.082	0.21	
110.34	113.39	3.05	572555	SUS	WRGD	3	12840	0.34	0.076	0.24	
113.39	116.43	3.04	572556	SUS	PPDX	7	10840	0.35	0.055	0.31	
116.43	119.48	3.05	572557	SUS	PPDX	7	11880	0.32	0.064	0.31	
119.48	122.53	3.05	572558	SUS	PPDX	7	11140	0.33	0.032	0.24	
122.53	125.58	3.05	572559	SUS	PPDX	7	11600	1.04	0.043	0.17	
125.58	128.63	3.05	572560	SUS	PPDX	7	11940	0.49	0.047	0.24	
128.63	131.67	3.04	572561	SUS	PPDX	7	11500	0.23	0.023	0.07	
131.67	134.26	2.59	572562	SUS	WRGD	5	10360	0.41	0.057	0.17	
134.26	137.46	3.20	572563	SUS	WRGD	3	11880	0.35	0.058	0.24	
137.46	140.67	3.21	572564	SUS	WRGD	3	11540	0.39	0.055	0.34	
140.67	143.87	3.20	572565	SUS	WRGD	3	11820	0.27	0.041	0.34	
143.87	146.91	3.04	572566	TRANS	WRGD	5	10660	0.39	0.040	0.14	
146.91	149.96	3.05	572567	TRANS	WRGD	3	11440	0.40	0.077	0.34	
149.96	153.00	3.04	572568	TRANS	WRGD	3	11820	0.28	0.069	0.17	
153.00	155.29	2.29	572569	TRANS	WRGD	5	9800	0.19	0.060	0.14	
155.29	157.58	2.29	572570	TRANS	WRGD	5	9440	0.15	0.029	0.10	
157.58	160.62	3.04	572571	TRANS	WRGD	5	12100	0.20	0.052	0.10	
160.62	163.67	3.05	572572	TRANS	WRGD	5	11440	0.21	0.085	0.17	
163.67	166.72	3.05	572573	TRANS	WRGD	5	10940	0.17	0.045	0.10	
166.72	169.77	3.05	572574	TRANS	WRGD	3	12160	0.15	0.072	0.17	
169.77	172.82	3.05	572575	TRANS	WRGD	3	12280	0.15	0.052	0.14	
172.82	175.87	3.05	572576	TRANS	WRGD	3	12680	0.14	0.044	0.10	
175.87	178.92	3.05	572577	TRANS	WRGD	3	11380	0.24	0.063	0.10	
178.92	181.96	3.04	572578	TRANS	WRGD	3	12080	0.28	0.052	0.17	
181.96	185.01	3.05	572579	TRANS	WRGD	3	12520	0.19	0.041	0.14	
185.01	188.06	3.05	572580	TRANS	WRGD	3	11860	0.24	0.064	0.07	
188.06	191.11	3.05	572581	TRANS	WRGD	3	12760	0.25	0.064	0.10	
191.11	194.16	3.05	572582	TRANS	WRGD	5	11900	1.00	0.041	0.21	
194.16	197.20	3.04	572583	TRANS	WRGD	5	11620	0.23	0.040	0.17	
197.20	200.25	3.05	572584	TRANS	WRGD	5	13400	0.21	0.065	0.17	
200.25	203.30	3.05	572585	TRANS	WRGD	5	11660	0.21	0.037	0.07	
203.30	205.74	2.44	572586	TRANS	WRGD	5	8440	0.21	0.038	0.17	
205.74	208.79	3.05	572587	TRANS	WRGD	5	12700	0.26	0.067	0.27	
208.79	211.84	3.05	572588	TRANS	WRGD	5	12120	0.22	0.066	0.24	
211.84	214.88	3.04	572589	TRANS	WRGD	5	11880	0.16	0.055	0.14	
214.88	217.93	3.05	572590	TRANS	WRGD	5	12320	0.16	0.052	0.10	
217.93	220.98	3.05	572591	TRANS	WRGD	5	12340	0.16	0.062	0.10	
220.98	224.63	3.65	572592	HYP	WRGD	5	14340	0.14	0.056	0.10	
224.63	227.68	3.05	572593	HYP	WRGD	7	11500	0.14	0.046	0.07	
227.68	230.73	3.05	572594	HYP	WRGD	7	11400	0.16	0.047	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.73	233.78	3.05	572595	HYP	WRGD	7	12320	0.15	0.116	0.10	
233.78	236.83	3.05	572596	HYP	WRGD	7	12060	0.17	0.029	0.21	
236.83	239.88	3.05	572597	HYP	WRGD	7	11960	0.14	0.039	0.07	
239.88	242.92	3.04	572598	HYP	WRGD	7	12180	0.12	0.082	0.07	
242.92	244.30	1.38	572599	HYP	WRGD	5	5340	0.17	0.092	0.17	
244.30	247.50	3.20	572600	HYP	WRGD	5	11760	0.24	0.102	0.34	
247.50	250.54	3.04	572601	HYP	WRGD	5	12240	0.26	0.252	0.21	
250.54	253.59	3.05	572602	HYP	WRGD	5	11940	0.28	0.105	0.24	
253.59	255.12	1.53	572603	HYP	PPDX	5	5480	0.14	0.024	0.14	
255.12	258.16	3.04	572604	HYP	PPDX	5	11160	0.29	0.043	0.21	
258.16	260.60	2.44	572605	HYP	PPDX	5	9700	0.09	0.017	0.10	
260.60	263.65	3.05	572606	HYP	PPDX	5	10940	0.07	0.016	0.03	
263.65	267.31	3.66	572607	HYP	PPDX	5	13220	0.07	0.013	0.10	
267.31	270.05	2.74	572608	HYP	PPDX	5	10360	0.08	0.021	0.07	
270.05	273.40	3.35	572609	HYP	PPDX	5	13540	0.07	0.028	0.10	
273.40	276.45	3.05	572610	HYP	PPDX	5	11800	0.19	0.026	0.14	
276.45	279.50	3.05	572611	HYP	PPDX	5	11140	0.14	0.020	0.10	
279.50	280.87	1.37	572612	HYP	PPDX	5	4580	0.22	0.014	0.24	
280.87	283.92	3.05	572613	HYP	PPDX	5	10080	0.14	0.027	0.10	
283.92	286.97	3.05	572614	HYP	PPDX	5	11540	0.10	0.011	0.14	
286.97	290.17	3.20	572615	HYP	PPDX	5	12320	0.16	0.020	0.14	
290.17	292.45	2.28	572616	HYP	PPDX	5	8640	0.13	0.013	0.10	
292.45	294.74	2.29	572617	HYP	WRGD	5	8360	0.14	0.017	0.07	
294.74	297.79	3.05	572618	HYP	WRGD	5	12080	0.07	0.025	0.07	
297.79	300.84	3.05	572619	HYP	WRGD	2	10940	0.07	0.017	<0.01	
300.84	303.88	3.04	572620	HYP	WRGD	2	10720	0.11	0.041	0.07	
303.88	306.93	3.05	572621	HYP	WRGD	3	11860	0.08	0.019	0.03	
306.93	309.98	3.05	572622	HYP	WRGD	3	11400	0.09	0.026	<0.01	
309.98	313.03	3.05	572623	HYP	WRGD	3	12340	0.17	0.035	0.07	
313.03	316.08	3.05	572624	HYP	WRGD	3	11720	0.11	0.041	<0.01	
316.08	319.12	3.04	572625	HYP	WRGD	3	12480	0.14	0.038	0.10	
319.12	322.17	3.05	572626	HYP	WRGD	3	12180	0.17	0.086	0.07	
322.17	325.22	3.05	572627	HYP	WRGD	3	11640	0.15	0.071	0.10	
325.22	328.27	3.05	572628	HYP	WRGD	3	11920	0.08	0.073	<0.01	
328.27	331.32	3.05	572629	HYP	WRGD	7	12200	0.18	0.055	<0.01	
331.32	334.36	3.04	572630	HYP	WRGD	7	11860	0.15	0.056	<0.01	
334.36	337.41	3.05	572631	HYP	WRGD	3	11980	0.09	0.061	<0.01	
337.41	340.46	3.05	572632	HYP	WRGD	3	12740	0.22	0.102	0.10	
340.46	343.51	3.05	572633	HYP	WRGD	7	13380	0.12	0.023	0.03	
343.51	346.56	3.05	572634	HYP	WRGD	7	13980	0.16	0.040	0.07	
346.56	349.60	3.04	572635	HYP	WRGD	7	12560	0.06	0.038	0.10	
349.60	352.65	3.05	572636	HYP	WRGD	7	13120	0.08	0.039	0.03	
352.65	355.70	3.05	572637	HYP	WRGD	7	13540	0.12	0.129	0.07	
355.70	358.75	3.05	572638	HYP	WRGD	7	12600	0.10	0.040	0.14	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
358.75	361.80	3.05	572639	HYP	WRGD	7	13020	0.05	0.051	0.07	
361.80	364.84	3.04	572640	HYP	WRGD	7	12100	0.05	0.025	<0.01	
364.84	367.89	3.05	572641	HYP	WRGD	7	12800	0.07	0.031	0.03	
367.89	370.94	3.05	572642	HYP	WRGD	7	12840	0.11	0.059	0.10	
370.94	373.99	3.05	572643	HYP	WRGD	7	12620	0.09	0.044	0.07	
373.99	377.04	3.05	572644	HYP	WRGD	7	12100	0.05	0.034	0.10	
377.04	380.08	3.04	572645	HYP	WRGD	7	12240	0.09	0.068	0.07	
380.08	383.13	3.05	572646	HYP	WRGD	7	13360	0.09	0.065	0.03	
383.13	386.18	3.05	572647	HYP	WRGD	7	12820	0.03	0.016	<0.01	
386.18	387.10	0.92	572648	HYP	WRGD	7	3540	0.05	0.022	<0.01	
387.10	END OF HOLE										

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Hole Number	93-156	Total Depth	797.66 m		
Northing	254,617.20	Casing Depth	5.18 m		Left Out
Easting	111,184.92	Survey Data	Azimuth	Dip	Instrument
Elevation	1298.10 m	Collar			
Core Size	HQ	309.98 m	340°	89°	
Drilling Started	May 19, 1993	459.33 m	293°	88°	
Drilling Finished	June 7, 1993	762 m	315°	88°	
Logged by	J. Reeder				

Purpose/Target: Delineation drilling of the SW corner of the Casino Deposit.

Comments: Consistent chalcopyrite mineralization throughout, intersected high copper mineralization from 500 - 733 m.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.18	5.18		OVB							
5.18	8.23	3.05	568437	CAP	QMCX	7,5	7320	0.01	0.008	0.21	
8.23	11.28	3.05	568438	CAP	QMCX	7,5	12240	0.01	0.008	0.31	
11.28	14.33	3.05	568439	CAP	QMCX	7	11620	0.01	0.006	0.14	
14.33	17.37	3.04	568440	CAP	QMCX	7	11120	0.01	0.007	0.14	
17.37	20.42	3.05	568441	CAP	QMCX	7	11500	0.01	0.008	0.10	
20.42	23.47	3.05	568442	CAP	QMCX	7	11920	0.01	0.005	0.14	
23.47	26.52	3.05	568443	CAP	QMCX	7	9620	<0.01	0.004	0.14	
26.52	29.57	3.05	568444	CAP	QMCX	7	12180	<0.01	0.013	0.21	
29.57	32.61	3.04	568445	CAP	QMCX	7,5	11400	0.01	0.009	0.21	
32.61	35.66	3.05	568446	CAP	QMCX	7,5	11550	0.01	0.014	0.21	
35.66	38.71	3.05	568447	CAP	QMCX	7,5	10950	0.01	0.010	0.24	
38.71	41.76	3.05	568448	CAP	QMCX	7,5	12560	0.01	0.006	0.10	
41.76	44.81	3.05	568449	CAP	QMCX	7,5	12670	<0.01	0.009	0.14	
44.81	47.85	3.04	568450	CAP	QMCX	7,5	12200	0.01	0.013	0.17	
47.85	50.90	3.05	568451	CAP	QMCX	7,5	12760	0.02	0.013	0.24	
50.90	53.95	3.05	568452	CAP	QMCX	7,5	11200	0.02	0.005	0.21	
53.95	57.00	3.05	568453	CAP	QMCX	7,5	12140	0.02	0.027	0.24	
57.00	60.05	3.05	568454	CAP	QMCX	7	9180	0.02	0.031	0.27	
60.05	63.09	3.04	568455	CAP	QMCX	7,5	10500	0.02	0.006	0.14	
63.09	66.14	3.05	568456	CAP	QMCX	7	10510	0.01	0.010	0.21	
66.14	69.19	3.05	568457	CAP	QMCX	7	10120	0.01	0.015	0.14	
69.19	72.24	3.05	568458	CAP	QMCX	7	10130	0.01	0.009	0.21	
72.24	75.29	3.05	568459	CAP	QMCX	7	8980	0.01	0.018	0.14	
75.29	78.33	3.04	568460	CAP	QMCX	7	7300	0.01	0.012	0.10	
78.33	81.38	3.05	568461	CAP	QMCX	7,5	11720	0.02	0.020	0.24	
81.38	84.43	3.05	568462	CAP	QMCX	7,5	11560	0.03	0.019	0.55	
84.43	87.48	3.05	568463	CAP	QMCX	7,5	9620	0.03	0.014	0.21	
87.48	90.53	3.05	568464	CAP	QMCX	7,5	11740	0.15	0.003	0.14	
90.53	93.57	3.04	568465	SOX	QQAQ	7,5	10420	0.14	0.005	0.14	
93.57	96.62	3.05	568466	SOX	QQAQ	7,5	11060	0.16	0.006	0.21	
96.62	99.67	3.05	568467	SOX	QQAQ	7,5	11500	0.19	0.007	0.27	
99.67	102.72	3.05	568468	SOX	QQAQ	7,5	11120	0.12	0.006	0.17	
102.72	105.77	3.05	568469	SOX	QQAQ	7,5	10420	0.06	0.011	0.34	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	568470	SOX	QQAQ	7,5	14220	0.18	0.015	0.14	
108.81	111.86	3.05	568471	SOX	PPDQ	7,5	13440	0.21	0.011	0.17	
111.86	114.91	3.05	568472	SOX	PPDQ	7,5	12940	0.36	0.013	0.24	
114.91	117.96	3.05	568473	SOX	PPDQ	7,5	11980	0.27	0.013	0.21	
117.96	121.01	3.05	568474	SUS	PPDQ	7,5	10820	0.21	0.005	0.17	
121.01	124.05	3.04	568475	SUS	WRGD	7,5	11520	0.17	0.015	0.14	
124.05	127.10	3.05	568476	SUS	WRGD	7,5	12680	0.47	0.018	0.31	
127.10	130.15	3.05	568477	SUS	WRGD	7,5	11320	0.43	0.019	0.24	
130.15	133.20	3.05	568478	SUS	WRGD	7,3	13700	0.24	0.018	0.31	
133.20	136.25	3.05	568479	SUS	WRGD	7,3	11340	0.39	0.017	0.45	
136.25	139.29	3.04	568480	SUS	WRGD	7,3	9700	0.20	0.005	0.27	
139.29	142.34	3.05	568481	SUS	WRGD	7,3	12600	0.30	0.003	0.24	
142.34	145.39	3.05	568482	SUS	WRGD	7,3	11120	0.18	0.009	0.34	
145.39	148.44	3.05	568483	SUS	WRGD	7,3	13380	0.19	0.005	0.24	
148.44	151.49	3.05	568484	SUS	WRGD	7,3	13040	0.22	0.010	0.27	
151.49	154.53	3.04	568485	SUS	WRGD	7,3	13560	0.20	0.026	0.24	
154.53	157.58	3.05	568486	SUS	WRGY	7,3	11460	0.23	0.009	0.34	
157.58	160.63	3.05	568487	SUS	WRGY	7,3	11240	0.26	0.007	0.55	
160.63	163.68	3.05	568488	SUS	WRGY	7,3	11540	0.18	0.010	0.27	
163.68	166.73	3.05	568489	SUS	WRGY	7,3	10640	0.33	0.004	0.24	
166.73	169.77	3.04	568490	HYP	WRGY	7,3	11460	0.19	0.007	0.27	
169.77	172.82	3.05	568491	HYP	WRGY	7,3	12580	0.24	0.011	0.31	
172.82	175.87	3.05	568492	HYP	PPDQ	3	11060	0.27	0.013	0.27	
175.87	178.92	3.05	568493	HYP	PPDP	3	12540	0.23	0.014	0.31	
178.92	181.97	3.05	568494	HYP	PPDP	3	13500	0.19	0.008	0.27	
181.97	184.71	2.74	568495	HYP	PPDP	3	12040	0.13	0.005	0.23	
184.71	187.91	3.20	568496	HYP	PPDP	3	12680	0.27	0.006	0.81	
187.91	190.96	3.05	568497	HYP	PPDP	3	13840	0.13	0.005	0.17	
190.96	194.16	3.20	568498	HYP	PPDP	3	13480	0.25	0.023	0.38	
194.16	197.21	3.05	568499	HYP	PPDQ	3	12420	0.26	0.020	0.31	
197.21	200.25	3.04	568500	HYP	PPDQ	3	13000	0.22	0.014	0.24	
200.25	203.30	3.05	568501	HYP	WRGY	7,3	12580	0.25	0.011	0.34	
203.30	206.35	3.05	568502	HYP	WGRY	7,3	13320	0.44	0.028	0.48	
206.35	209.40	3.05	568503	HYP	WRGY	7,3	13160	0.28	0.047	0.21	
209.40	212.45	3.05	568504	HYP	WRGD	7,3	13260	0.17	0.009	0.24	
212.45	215.49	3.04	568505	HYP	WRGD	7,3	12160	0.15	0.004	0.27	
215.49	218.54	3.05	568506	HYP	WRGD	7	13480	0.29	0.011	0.34	
218.54	221.59	3.05	568507	HYP	WRGD	7,3	12600	0.16	0.023	0.27	
221.59	224.64	3.05	568508	HYP	WRGD	7,5	13640	0.16	0.016	0.24	
224.64	227.69	3.05	568509	HYP	WRGD	7,3	14720	0.14	0.013	0.24	
227.69	230.73	3.04	568510	HYP	WRGD	7,5	13690	0.14	0.004	0.24	
230.73	233.78	3.05	568511	HYP	WRGD	7,5	13750	0.16	0.005	0.21	
233.78	236.83	3.05	568512	HYP	WRGD	7	12300	0.29	0.010	0.45	
236.83	239.88	3.05	568513	HYP	WRGD	7,3	13200	0.18	0.027	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	568514	HYP	WRGD	7,3	14140	0.19	0.008	0.31	
242.93	245.97	3.04	568515	HYP	WRGD	7	13880	0.21	0.005	0.27	
245.97	249.02	3.05	568516	HYP	WRGD	7,3	14800	0.12	0.008	0.24	
249.02	252.07	3.05	568517	HYP	WRGD	7,3	13840	0.13	0.003	0.21	
252.07	255.11	3.04	568518	HYP	WRGD	7	14740	0.23	0.010	0.38	
255.11	258.16	3.05	568519	HYP	WRGD	7	13000	0.15	0.008	0.34	
258.16	261.21	3.05	568520	HYP	WRGD	7,5	13300	0.18	0.019	0.27	
261.21	264.26	3.05	568521	HYP	WRGD	7,5	12500	0.19	0.008	0.21	
264.26	267.30	3.04	568522	HYP	WRGD	7,5	13280	0.16	0.006	0.31	
267.30	270.35	3.05	568523	HYP	WRGD	7,5	13920	0.22	0.028	0.34	
270.35	273.40	3.05	568524	HYP	WRGD	7,3	12160	0.23	0.030	0.21	
273.40	276.45	3.05	568525	HYP	WRGD	7,3	12000	0.30	0.020	0.27	
276.45	279.50	3.05	568526	HYP	WRGD	7	13400	0.14	0.005	0.17	
279.50	282.54	3.04	568527	HYP	WRGD	7	12920	0.17	0.017	0.14	
282.54	285.59	3.05	568528	HYP	WRGD	7	11800	0.16	0.032	0.21	
285.59	288.64	3.05	568529	HYP	WRGD	7,3	13110	0.29	0.025	0.41	
288.64	291.69	3.05	568530	HYP	WRGD	7	12590	0.22	0.026	0.27	
291.69	294.74	3.05	568531	HYP	WRGD	7,3	12000	0.30	0.017	0.34	
294.74	297.78	3.04	568532	HYP	WRGD	7,3	12850	0.25	0.029	0.27	
297.78	300.83	3.05	568533	HYP	WRGD	7,3	13000	0.33	0.041	0.41	
300.83	303.88	3.05	568534	HYP	WRGD	7,3	13350	0.22	0.066	0.24	
303.88	306.93	3.05	568535	HYP	WRGD	7,3	13600	0.20	0.011	0.27	
306.93	309.98	3.05	568536	HYP	WRGD	7,3	13390	0.19	0.066	0.21	
309.98	313.03	3.05	568537	HYP	WRGD	7,3	13920	0.29	0.016	0.34	
313.03	316.08	3.05	568538	HYP	WRGD	7,3	12650	0.24	0.024	0.27	
316.08	319.13	3.05	568539	HYP	WRGD	7	14000	0.23	0.043	0.24	
319.13	322.17	3.04	568540	HYP	WRGD	7	13940	0.20	0.078	0.31	
322.17	325.22	3.05	568541	HYP	WRGD	7	14660	0.23	0.037	0.31	
325.22	328.27	3.05	568542	HYP	WRGD	7	14300	0.19	0.018	0.27	
328.27	331.32	3.05	568543	HYP	WRGD	7	14690	0.17	0.026	0.24	
331.32	334.37	3.05	568544	HYP	WRGD	7	13320	0.21	0.033	0.21	
334.37	337.41	3.04	568545	HYP	WRGD	7,4	12270	0.26	0.058	0.24	
337.41	340.46	3.05	568546	HYP	WRGD	7,4	11060	0.20	0.030	0.17	
340.46	343.51	3.05	568547	HYP	WRGD	7,4	12940	0.19	0.019	0.21	
343.51	346.56	3.05	568548	HYP	WRGD	7,4	13600	0.12	0.017	0.14	
346.56	349.61	3.05	568549	HYP	WRGX	7,4	12560	0.16	0.050	0.12	
349.61	352.65	3.04	568550	HYP	WRGX	7,4	12350	0.40	0.051	0.42	
352.65	355.70	3.05	568551	HYP	WRGX	7,4	12860	0.32	0.045	0.24	
355.70	358.75	3.05	568552	HYP	WRGX	7,4	13020	0.34	0.045	0.21	
358.75	361.80	3.05	568553	HYP	WRGX	7,4	13740	0.95	0.072	0.51	
361.80	364.85	3.05	568554	HYP	WRGX	7,4	12800	0.36	0.035	0.20	
364.85	367.89	3.04	568555	HYP	WRGD	7,5	13100	0.24	0.033	0.17	
367.89	370.94	3.05	568556	HYP	WRGD	7,5	9880	0.21	0.018	0.21	
370.94	373.99	3.05	568557	HYP	WRGD	7,5	11480	0.20	0.026	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
373.99	377.04	3.05	568558	HYP	WRGD	7,5	13080	0.21	0.019	0.14	
377.04	380.09	3.05	568559	HYP	WRGD	7,5	12660	0.24	0.040	0.24	
380.09	383.13	3.04	568560	HYP	WRGD	7,5	13040	0.14	0.010	0.10	
383.13	386.18	3.05	568561	HYP	WRGD	7,5	12800	0.20	0.011	0.21	
386.18	389.23	3.05	568562	HYP	WRGD	7,5	12660	0.18	0.034	0.17	
389.23	392.28	3.05	568563	HYP	WRGX	7,5	11140	0.17	0.025	0.17	
392.28	395.33	3.05	568564	HYP	WRGX	7,5	12600	0.41	0.029	0.27	
395.33	398.38	3.05	568565	HYP	WRGX	7,5	12600	0.24	0.014	0.17	
398.38	401.42	3.04	568566	HYP	WRGD	7	14160	0.18	0.021	0.14	
401.42	404.47	3.05	568567	HYP	WRGD	7	12700	0.15	0.038	0.14	
404.47	407.51	3.04	568568	HYP	WRGD	7	13120	0.21	0.043	0.17	
407.51	410.57	3.06	568569	HYP	WRGD	7	13680	0.19	0.033	0.21	
410.57	413.61	3.04	568570	HYP	WRGD	7	13980	0.15	0.018	0.17	
413.61	416.66	3.05	568571	HYP	WRGD	7	11190	0.18	0.026	0.17	
416.66	419.71	3.05	568572	HYP	WRGD	7	14850	0.16	0.023	0.17	
419.71	422.75	3.04	568573	HYP	WRGD	7	14720	0.22	0.028	0.10	
422.75	425.80	3.05	568574	HYP	WRGD	7,3	13600	0.21	0.058	0.21	
425.80	428.85	3.05	568575	HYP	WRGD	7,3	12720	0.19	0.033	0.17	
428.85	431.89	3.04	568576	HYP	IXAF	5	12740	0.19	0.033	0.27	
431.89	434.94	3.05	568577	HYP	IXAF	5	13380	0.25	0.066	0.14	
434.94	437.99	3.05	568578	HYP	IXAF	5	12840	0.23	0.031	0.14	
437.99	441.04	3.05	568579	HYP	IXAF	5	12640	0.20	0.080	0.10	
441.04	444.09	3.05	568580	HYP	IXAF	5	12640	0.14	0.110	0.07	
444.09	447.14	3.05	568581	HYP	IXAF	5	12680	0.28	0.043	0.07	
447.14	450.19	3.05	568582	HYP	IXAF	5	12780	0.23	0.020	0.07	
450.19	453.23	3.04	568583	HYP	IXAF	5	11580	0.34	0.045	0.03	
453.23	456.28	3.05	568584	HYP	IXAF	5	13000	0.25	0.025	0.07	
456.28	459.33	3.05	568585	HYP	IXAF	5	12040	0.28	0.018	0.07	
459.33	462.37	3.04	568586	HYP	IXAF	5	13260	0.32	0.026	0.10	
462.37	465.42	3.05	568587	HYP	IXAF	5	13220	0.09	0.028	0.10	
465.42	468.48	3.06	568588	HYP	IXAF	5	14600	0.18	0.046	0.07	
468.48	471.53	3.05	568589	HYP	IXAF	5	13320	0.35	0.030	0.17	
471.53	474.57	3.04	568590	HYP	IXAF	5	13300	0.20	0.045	0.10	
474.57	477.62	3.05	568591	HYP	IXAF	5	13480	0.17	0.047	0.07	
477.62	480.67	3.05	568592	HYP	IXAF	5	13800	0.24	0.078	0.07	
480.67	483.72	3.05	568593	HYP	IXAF	5	13080	0.38	0.038	0.14	
483.72	486.77	3.05	568594	HYP	IXAF	5	12800	0.51	0.029	0.14	
486.77	489.81	3.04	568595	HYP	IXAF	5,7	12810	0.53	0.043	0.10	
489.81	492.86	3.05	568596	HYP	IXAF	5,7	12680	0.48	0.044	0.10	
492.86	495.91	3.05	568597	HYP	IXAF	7	13400	0.53	0.022	0.21	
495.91	498.96	3.05	568598	HYP	IXAF	7	13080	0.35	0.037	0.17	
498.96	502.01	3.05	568599	HYP	IXAF	7	12760	0.41	0.027	0.21	
502.01	505.10	3.09	568600	HYP	IXAF	7,5	13260	0.39	0.110	0.21	
505.10	508.10	3.00	568601	HYP	IXAF	7	12900	0.44	0.037	0.24	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
508.10	511.15	3.05	568602	HYP	IXAF	7	12800	0.52	0.026	0.31	
511.15	514.20	3.05	568603	HYP	IXAF	7	12980	0.35	0.038	0.24	
514.20	517.25	3.05	568604	HYP	IXAF	7	12380	0.81	0.029	0.38	
517.25	520.29	3.04	568605	HYP	IXAF	7	12520	0.58	0.043	0.24	
520.29	523.34	3.05	568606	HYP	IXAF	7	12900	0.61	0.032	0.31	
523.34	526.39	3.05	568607	HYP	IXAF	7	12060	0.50	0.011	0.17	
526.39	529.44	3.05	568608	HYP	IXAF	7	12520	0.41	0.020	0.21	
529.44	532.49	3.05	568609	HYP	IXAF	7	13600	0.37	0.027	0.17	
532.49	535.53	3.04	568610	HYP	IXAF	7,5	12640	0.48	0.015	0.21	
535.53	538.58	3.05	568611	HYP	IXAF	7,5	12440	0.75	0.027	0.27	
538.58	541.63	3.05	568612	HYP	IXAF	7,5	14360	0.39	0.029	0.14	
541.63	544.68	3.05	568613	HYP	IXAF	7,5	13880	0.83	0.039	0.24	
544.68	547.73	3.05	568614	HYP	IXAF	7	14020	0.80	0.016	0.31	
547.73	550.77	3.04	568615	HYP	IXAF	7	13360	0.70	0.024	0.75	
550.77	553.82	3.05	568616	HYP	IXAF	7	13320	0.49	0.023	0.41	
553.82	556.86	3.04	568617	HYP	IXAF	7,5	13240	0.67	0.049	0.48	
556.86	559.91	3.05	568618	HYP	IXAF	7,5	13600	1.14	0.034	0.55	
559.91	562.96	3.05	568619	HYP	IXAF	7,5	13200	0.62	0.025	0.31	
562.96	566.01	3.05	568620	HYP	IXAF	7,5	12720	0.37	0.026	0.24	
566.01	569.06	3.05	568621	HYP	IXAF	7	12900	0.60	0.013	0.45	
569.06	572.10	3.04	568622	HYP	IXAF	7	13660	0.72	0.021	0.38	
572.10	575.15	3.05	568623	HYP	WRGD	7	13400	0.63	0.013	0.45	
575.15	578.20	3.05	568624	HYP	WRGD	7	14540	0.52	0.007	0.31	
578.20	581.25	3.05	568625	HYP	WRGD	7	14060	0.38	0.012	0.27	
581.25	584.30	3.05	568626	HYP	WRGD	7,5	14980	0.31	0.010	0.24	
584.30	587.35	3.05	568627	HYP	WRGD	7	14320	0.39	0.014	0.31	
587.35	590.40	3.05	568628	HYP	WRGD	7	13200	0.58	0.036	0.51	
590.40	593.45	3.05	568629	HYP	WRGD	7	14260	0.37	0.020	0.24	
593.45	596.49	3.04	568630	HYP	WRGD	7	13300	0.40	0.007	0.17	
596.49	599.54	3.05	568631	HYP	WRGD	7	12600	0.37	0.021	0.17	
599.54	602.59	3.05	568632	HYP	WRGD	7	12840	0.37	0.007	0.21	
602.59	605.64	3.05	568633	HYP	WRGD	7	13120	0.62	0.021	0.31	
605.64	608.69	3.05	568634	HYP	WRGD	7	14120	0.49	0.007	0.24	
608.69	611.73	3.04	568635	HYP	WRGD	7	13280	0.35	0.019	0.10	
611.73	614.78	3.05	568636	HYP	WRGD	7	13700	0.27	0.009	0.10	
614.78	617.83	3.05	568637	HYP	WRGD	7	12680	0.23	0.014	0.07	
617.83	620.88	3.05	568638	HYP	IXAF	7	13860	0.44	0.010	0.21	
620.88	623.93	3.05	568639	HYP	PPDP	7	13000	0.37	0.022	0.14	
623.93	626.97	3.04	568640	HYP	WRGD	5,7	12960	0.33	0.022	0.21	
626.97	630.02	3.05	568641	HYP	WRGD	5,7	12040	0.14	0.022	0.10	
630.02	633.07	3.05	568642	HYP	WRGD	7	13420	0.26	0.011	0.14	
633.07	636.12	3.05	568643	HYP	WRGD	7	13200	0.41	0.027	0.24	
636.12	639.17	3.05	568644	HYP	WRGD	7	15100	0.48	0.010	0.34	
639.17	642.21	3.04	568645	HYP	WRGD	7	13100	0.24	0.015	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
642.21	645.26	3.05	568646	HYP	WRGD	7	12560	0.35	0.015	0.17	
645.26	648.31	3.05	568647	HYP	WRGD	7	9320	0.54	0.020	0.27	
648.31	651.36	3.05	568648	HYP	WRGD	7,3	12900	0.51	0.039	0.31	
651.36	654.41	3.05	568649	HYP	WRGD	7,4	16640	0.41	0.025	0.34	
654.41	657.45	3.04	568650	HYP	WRGD	4	13940	0.43	0.035	0.24	
657.45	660.50	3.05	568651	HYP	WRGD	4	12780	0.88	0.063	0.34	
660.50	663.55	3.05	568652	HYP	WRGD	4	12960	0.90	0.071	0.72	
663.55	666.60	3.05	568653	HYP	PPDE	5	13940	1.31	0.155	0.84	
666.60	669.65	3.05	568654	HYP	PPDE	5	13760	0.27	0.015	0.11	
669.65	672.69	3.04	568655	HYP	PPDE	5	13000	0.26	0.007	0.15	
672.69	675.74	3.05	568656	HYP	PPDE	5	12680	0.35	0.005	2.11	
675.74	678.79	3.05	568657	HYP	PPDE	5	13660	0.39	0.012	0.17	
678.79	681.84	3.05	568658	HYP	WRGX	5	13040	0.40	0.005	0.94	
681.84	684.89	3.05	568659	HYP	WRGX	7,4	13540	0.69	0.019	0.45	
684.89	687.93	3.04	568660	HYP	WRGX	7,4	12640	0.83	0.044	0.55	
687.93	690.98	3.05	568661	HYP	IXAF	7	12740	0.87	0.075	0.45	
690.98	694.03	3.05	568662	HYP	IXAF	7	12480	0.88	0.060	0.51	
694.03	697.08	3.05	568663	HYP	IXAF	7	13700	0.96	0.100	0.58	
697.08	700.13	3.05	568664	HYP	IXAF	7	12720	0.71	0.045	0.55	
700.13	703.17	3.04	568665	HYP	IXAF	7	12600	0.33	0.066	0.24	
703.17	706.22	3.05	568666	HYP	IXAF	7	13360	0.49	0.043	0.31	
706.22	709.27	3.05	568667	HYP	IXAF	7	14080	0.75	0.056	0.72	
709.27	712.32	3.05	568668	HYP	IXAF	7	13440	0.65	0.420	0.55	
712.32	715.37	3.05	568669	HYP	IXAF	7	13140	0.63	0.066	0.41	
715.37	718.41	3.04	568670	HYP	IXAF	7	13080	0.55	0.026	0.82	
718.41	721.46	3.05	568671	HYP	IXAF	7,3	13980	0.64	0.018	0.58	
721.46	724.51	3.05	568672	HYP	IXAF	7	14900	0.67	0.015	0.48	
724.51	727.56	3.05	568673	HYP	IXAF	7,5	13360	0.63	0.013	0.38	
727.56	730.60	3.04	568674	HYP	IXAF	7	13320	0.63	0.011	0.62	
730.60	733.65	3.05	568675	HYP	IXAF	7	12780	0.33	0.013	0.34	
733.65	736.70	3.05	568676	HYP	WRGD	7	13060	0.23	0.012	0.17	
736.70	739.75	3.05	568677	HYP	PPDE	7	14460	0.07	0.004	0.07	
739.75	742.80	3.05	568678	HYP	WRGD	7	12120	0.11	0.005	0.10	
742.80	745.85	3.05	568679	HYP	WRGD	7	13240	0.07	0.006	0.07	
745.85	748.89	3.04	568680	HYP	WRGD	7	12800	0.16	0.004	0.10	
748.89	751.94	3.05	568681	HYP	WRGD	7	12980	0.12	0.058	0.10	
751.94	754.99	3.05	568682	HYP	WRGD	7	13980	0.12	0.005	0.07	
754.99	758.04	3.05	568683	HYP	WRGD	7	13720	0.15	0.010	0.10	
758.04	761.09	3.05	568684	HYP	WRGD	7	12840	0.09	0.016	0.07	
761.09	764.14	3.05	568685	HYP	WRGD	7,3	12740	0.21	0.036	0.34	
764.14	767.18	3.04	568686	HYP	WRGD	7,3	13580	0.15	0.003	0.14	
767.18	770.23	3.05	568687	HYP	WRGD	7,3	12940	0.27	0.008	0.24	
770.23	773.28	3.05	568688	HYP	WRGD	7	13260	0.12	0.002	0.14	
773.28	776.33	3.05	568689	HYP	WRGD	7,5	14120	0.04	0.003	0.07	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
776.33	779.37	3.04	568690	HYP	PPDP	7	14160	0.15	0.005	0.14	
779.37	782.42	3.05	568691	HYP	WRGX	7	13360	0.12	0.009	0.14	
782.42	785.47	3.05	568692	HYP	WRGD	7	11880	0.08	0.007	0.10	
785.47	788.52	3.05	568693	HYP	WRGD	7,3	13660	0.08	0.002	0.14	
788.52	791.57	3.05	568694	HYP	WRGD	4	12180	0.06	0.000	0.10	
791.57	794.61	3.04	568695	HYP	WRGD	4	12580	0.14	0.003	0.21	
794.61	797.66	3.05	568696	HYP	WRGD	4	13150	0.13	0.005	0.10	
797.66	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-157	Total Depth	380.09		
Northing	254,400.16	Casing Depth	2.44 m		Left In
Easting	110,497.42	Survey Data	Azimuth	Dip	Instrument
Elevation	1333.64 m	Collar			
Core Size	HQ	149.96 m	252°	-88.95°	Sperry Sun
Drilling Started	May 23, 1993	304.80 m	278°	-88.50°	Sperry Sun
Drilling Finished	May 28, 1993				
Logged by	L. Brommeland				

Purpose/Target: Testing high gold values in 1985 bulldozer trench.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	5.79	3.35	572649	CAP	WRGD	3	13080	0.01	0.015	0.24	
5.79	8.53	2.74	572650	CAP	WRGD	3	9560	<0.01	0.017	0.24	
8.53	11.89	3.36	572651	CAP	WRGD	3	10780	<0.01	0.023	0.31	
11.89	14.33	2.44	572652	CAP	WRGD	3	8840	<0.01	0.025	0.14	
14.33	17.37	3.04	572653	CAP	WRGD	3	10640	<0.01	0.031	0.10	
17.37	20.42	3.05	572654	CAP	WRGD	3	12220	<0.01	0.027	0.07	
20.42	22.86	2.44	572655	CAP	WRGD	3	8440	<0.01	0.028	0.07	
22.86	25.91	3.05	572656	CAP	WRGD	3	11750	<0.01	0.043	0.14	
25.91	29.11	3.20	572657	CAP	WRGD	3	11960	<0.01	0.056	0.31	
29.11	30.02	0.91	572658	CAP	WRGD	3	3240	<0.01	0.023	0.14	
30.02	32.61	2.59	572659	CAP	WRGD	3	10320	0.01	0.020	0.14	
32.61	35.66	3.05	572660	CAP	WRGD	3	10400	<0.01	0.041	0.38	
35.66	38.71	3.05	572661	CAP	WRGD	3	10980	0.01	0.069	0.41	
38.71	41.75	3.04	572662	CAP	WRGD	3	12700	0.01	0.029	0.31	
41.75	44.80	3.05	572663	CAP	WRGD	3	12240	0.01	0.036	0.24	
44.80	47.85	3.05	572664	CAP	WRGD	3	11980	0.01	0.023	0.24	
47.85	50.90	3.05	572665	CAP	WRGD	3	11500	0.01	0.019	0.17	
50.90	53.94	3.04	572666	CAP	WRGD	3	12520	0.01	0.029	0.24	
53.94	57.00	3.06	572667	CAP	WRGD	3	12140	0.01	0.031	0.27	
57.00	60.00	3.00	572668	CAP	WRGD	3	10080	<0.01	0.020	0.17	
60.00	63.09	3.09	572669	CAP	WRGD	3	11780	0.01	0.027	0.38	
63.09	66.14	3.05	572670	CAP	WRGD	3	11760	0.01	0.025	0.31	
66.14	69.18	3.04	572671	CAP	WRGD	3	12760	0.01	0.017	0.17	
69.18	72.23	3.05	572672	CAP	WRGD	3	11440	0.01	0.024	0.31	
72.23	75.28	3.05	572673	CAP	WRGD	3	11180	<0.01	0.016	0.31	
75.28	78.33	3.05	572674	CAP	WRGD	3	11380	<0.01	0.015	0.21	
78.33	81.38	3.05	572675	CAP	WRGD	3	11360	0.01	0.020	0.24	
81.38	84.42	3.04	572676	CAP	WRGD	3	11520	<0.01	0.029	0.17	
84.42	87.47	3.05	572677	CAP	WRGD	3	12060	<0.01	0.016	0.31	
87.47	90.52	3.05	572678	CAP	WRGD	3	10560	<0.01	0.020	0.27	
90.52	93.57	3.05	572679	CAP	WRGD	3	11800	<0.01	0.015	0.24	
93.57	96.62	3.05	572680	CAP	WRGD	3	10580	<0.01	0.021	0.31	
96.62	99.66	3.04	572681	CAP	WRGD	3	11920	<0.01	0.018	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.66	102.71	3.05	572682	CAP	WRGD	3	12000	<0.01	0.028	0.31	
102.71	105.00	2.29	572683	CAP	WRGD	3	7980	<0.01	0.024	0.41	
105.00	107.28	2.28	572684	CAP	WRGD	3	8520	<0.01	0.023	0.31	
107.28	110.33	3.05	572685	CAP	WRGD	3	11560	<0.01	0.027	0.34	
110.33	113.38	3.05	572686	CAP	WRGD	3	10620	<0.01	0.026	0.31	
113.38	116.43	3.05	572687	CAP	WRGD	3	12340	0.01	0.027	0.41	
116.43	119.48	3.05	572688	CAP	WRGD	3	12380	<0.01	0.047	0.31	
119.48	122.53	3.05	572689	CAP	LTDX	3	12680	<0.01	0.033	0.14	
122.53	124.97	2.44	572690	CAP	LTDX	3	8600	0.01	0.028	0.31	
124.97	127.10	2.13	572691	CAP	LTDX	3	8580	0.01	0.021	0.34	
127.10	130.15	3.05	572692	CAP	WRGD	3	11020	0.01	0.020	0.21	
130.15	133.20	3.05	572693	SUS	WRGD	4,3	11640	0.01	0.051	0.21	
133.20	135.48	2.28	572694	SUS	WRGD	4,3	8900	0.18	0.012	0.14	
135.48	138.53	3.05	572695	SUS	WRGD	4,3	12520	0.04	0.023	0.10	
138.53	140.51	1.98	572696	SUS	WRGD	4,3	7420	0.52	0.036	0.34	
140.51	143.71	3.20	572697	SUS	WRGD	4,3	13340	0.22	0.022	0.31	
143.71	146.61	2.90	572698	SUS	WRGD	4,3	11080	0.17	0.020	0.17	
146.61	149.96	3.35	572699	SUS	WRGD	4,3	13580	0.32	0.021	0.34	
149.96	151.48	1.52	572700	SUS	WRGD	4,3	5780	0.56	0.027	0.55	
151.48	154.53	3.05	572701	SUS	WRGD	4,3	11980	0.43	0.077	0.41	
154.53	157.58	3.05	572702	SUS	WRGD	4,3	11860	0.23	0.035	0.27	
157.58	160.63	3.05	572703	SUS	WRGD	4,3	12160	0.16	0.066	0.24	
160.63	163.68	3.05	572704	SUS	WRGD	4,3	12860	0.22	0.044	0.24	
163.68	166.73	3.05	572705	SUS	WRGD	4,3	12380	0.25	0.042	0.34	
166.73	169.77	3.04	572706	SUS	WRGD	4,3	11980	0.24	0.035	0.27	
169.77	172.82	3.05	572707	SUS	WRGD	4,3	12440	0.29	0.025	0.31	
172.82	175.87	3.05	572708	SUS	WRGD	4,3	10580	0.28	0.026	0.31	
175.87	178.92	3.05	572709	SUS	WRGD	4,5	11080	0.27	0.019	0.34	
178.92	180.59	1.67	572710	TRANS	WRGD	4,5	4260	0.39	0.024	0.34	
180.59	183.64	3.05	572711	TRANS	WRGD	4,5	11360	0.38	0.034	0.34	
183.64	186.84	3.20	572712	TRANS	WRGD	4,5	10440	0.31	0.023	0.27	
186.84	189.89	3.05	572713	TRANS	WRGD	4,5	12820	0.24	0.022	0.38	
189.89	192.94	3.05	572714	TRANS	WRGD	4,5	12440	0.17	0.014	0.21	
192.94	195.99	3.05	572715	TRANS	WRGD	4,5	11260	0.19	0.024	0.27	
195.99	199.19	3.20	572716	TRANS	WRGD	4,5	12400	0.21	0.032	0.27	
199.19	202.23	3.04	572717	TRANS	WRGD	4,5	11340	0.25	0.052	0.31	
202.23	205.43	3.20	572718	TRANS	WRGD	4,5	12500	0.21	0.036	0.24	
205.43	208.48	3.05	572719	TRANS	WRGD	4,5	12360	0.21	0.021	0.27	
208.48	211.53	3.05	572720	TRANS	WRGD	4,5	11660	0.31	0.043	0.31	
211.53	214.73	3.20	572721	TRANS	WRGD	4,5	12280	0.23	0.019	0.27	
214.73	217.78	3.05	572722	TRANS	WRGD	4,5	12620	0.20	0.044	0.27	
217.78	221.59	3.81	572723	TRANS	WRGD	4,5	14720	0.21	0.031	0.24	
221.59	224.64	3.05	572724	TRANS	WRGD	4,5	12300	0.41	0.034	0.55	
224.64	227.69	3.05	572725	TRANS	WRGD	4,5	11360	0.21	0.028	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
227.69	230.73	3.04	572726	TRANS	WRGD	4,5	11620	0.14	0.010	0.34	
230.73	233.78	3.05	572727	TRANS	WRGD	4,5	11820	0.15	0.018	0.14	
233.78	236.83	3.05	572728	TRANS	WRGD	4,5	11300	0.18	0.014	0.24	
236.83	239.88	3.05	572729	HYP	WRGD	4,5	11650	0.27	0.063	0.17	
239.88	242.93	3.05	572730	HYP	WRGD	4,5	12400	0.20	0.023	0.14	
242.93	245.97	3.04	572731	HYP	WRGD	4,5	13350	0.16	0.014	0.14	
245.97	249.02	3.05	572732	HYP	WRGD	5	13280	0.22	0.014	0.10	
249.02	252.07	3.05	572733	HYP	WRGD	5	12640	0.22	0.027	0.21	
252.07	255.12	3.05	572734	HYP	WRGD	5	12100	0.28	0.032	0.21	
255.12	257.25	2.13	572735	HYP	WRGD	5	8200	0.23	0.016	0.24	
257.25	261.52	4.27	572736	HYP	WRGD	5	17920	0.13	0.026	0.10	
261.52	264.26	2.74	572737	HYP	WRGD	5	11200	0.15	0.020	0.14	
264.26	267.31	3.05	572738	HYP	WRGD	5	12660	0.19	0.044	0.17	
267.31	270.36	3.05	572739	HYP	WRGD	5	11920	0.26	0.045	0.21	
270.36	273.41	3.05	572740	HYP	WRGD	5	12700	0.13	0.040	0.10	
273.41	276.45	3.04	572741	HYP	WRGD	5	13340	0.27	0.044	0.27	
276.45	279.50	3.05	572742	HYP	WRGD	5	12980	0.20	0.050	0.24	
279.50	282.55	3.05	572743	HYP	WRGD	5	12800	0.25	0.018	0.34	
282.55	285.60	3.05	572744	HYP	WRGD	5	13250	0.20	0.026	0.24	
285.60	288.65	3.05	572745	HYP	WRGD	5	12200	0.29	0.069	0.31	
288.65	291.69	3.04	572746	HYP	WRGD	5	13260	0.31	0.060	0.34	
291.69	294.74	3.05	572747	HYP	WRGD	5	13300	0.23	0.046	0.31	
294.74	297.79	3.05	572748	HYP	WRGD	5	13460	0.29	0.026	0.41	
297.79	300.84	3.05	572749	HYP	WRGD	5	12740	0.28	0.076	0.27	
300.84	303.89	3.05	572750	HYP	WRGD	5	13820	0.07	0.038	0.31	
303.89	306.93	3.04	572751	HYP	WRGD	5	13340	0.17	0.023	0.21	
306.93	309.98	3.05	572752	HYP	WRGD	5	13220	0.25	0.034	0.27	
309.98	313.03	3.05	572753	HYP	WRGD	5	13640	0.11	0.019	0.14	
313.03	316.08	3.05	572754	HYP	WRGD	5	10780	0.16	0.039	0.14	
316.08	319.13	3.05	572755	HYP	WRGD	5	14320	0.13	0.022	0.21	
319.13	322.17	3.04	572756	HYP	WRGD	5	12260	0.16	0.059	0.24	
322.17	325.22	3.05	572757	HYP	WRGD	5	10740	0.17	0.090	0.27	
325.22	328.27	3.05	572758	HYP	WRGD	5	11180	0.20	0.068	0.21	
328.27	331.32	3.05	572759	HYP	WRGD	5	10700	0.16	0.067	0.21	
331.32	334.37	3.05	572760	HYP	WRGD	5	11820	0.22	0.035	0.24	
334.37	337.41	3.04	572761	HYP	WRGD	5	11160	0.14	0.046	0.17	
337.41	340.46	3.05	572762	HYP	WRGD	5	12640	0.14	0.082	0.24	
340.46	343.51	3.05	572763	HYP	WRGD	5	11700	0.15	0.035	0.24	
343.51	346.56	3.05	572764	HYP	WRGD	5	12880	0.15	0.043	0.21	
346.56	349.61	3.05	572765	HYP	WRGD	5	11300	0.18	0.049	0.21	
349.61	352.65	3.04	572766	HYP	WRGD	5	13140	0.16	0.050	0.17	
352.65	355.70	3.05	572767	HYP	WRGD	5	12680	0.25	0.058	0.34	
355.70	358.75	3.05	572768	HYP	WRGD	5	12520	0.21	0.164	0.21	
358.75	361.80	3.05	572769	HYP	WRGD	5	12860	0.10	0.076	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
361.80	364.85	3.05	572770	HYP	WRGD	5	13180	0.33	0.069	0.51	
364.85	367.89	3.04	572771	HYP	WRGD	5	12880	0.09	0.097	0.10	
367.89	370.94	3.05	572772	HYP	WRGD	5	12940	0.09	0.095	0.07	
370.94	373.94	3.00	572773	HYP	WRGD	5	13180	0.10	0.047	0.10	
373.94	377.04	3.10	572774	HYP	WRGD	5,7	12820	0.14	0.068	0.10	
377.04	380.09	3.05	572775	HYP	WRGD	5,7	13380	0.10	0.052	0.07	
380.09	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-158	Total Depth	150.88 m		
Northing	254,399.68	Casing Depth	3.66 m		Left In
Easting	110,300.53	Survey Data	Azimuth	Dip	Instrument
Elevation	1333.31 m	Collar			
Core Size	HQ	150.88 m	028°	-88.95°	Sperry Sun
Drilling Started	May 29, 1993				
Drilling Finished	June 1, 1993				
Logged by	Lena Brommeland				

Purpose/Target: High gold values in trenches: exploration step-out hole.

Comments: This hole was stopped prematurely due to the rods getting stuck down the hole and subsequently snapping off. Drilling ended in supergene sulphide mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.79	5.79		OVB							
5.79	7.32	1.53	572776	CAP	WRGD	3	6100	<0.01	0.050	0.10	
7.32	10.36	3.04	572777	CAP	WRGD	3	10900	<0.01	0.051	0.14	
10.36	12.80	2.44	572778	CAP	WRGD	3	7980	<0.01	0.073	0.17	
12.80	15.85	3.05	572779	CAP	WRGD	3	9520	<0.01	0.036	0.10	
15.85	18.90	3.05	572780	CAP	PPDX	3	10520	<0.01	0.037	0.24	
18.90	21.95	3.05	572781	CAP	PPDX	3	9020	<0.01	0.064	0.17	
21.95	24.99	3.04	572782	CAP	WRGD	3	8740	<0.01	0.065	0.10	
24.99	28.04	3.05	572783	CAP	WRGD	3	9400	<0.01	0.071	0.14	
28.04	31.09	3.05	572784	CAP	PPDX	3	9260	<0.01	0.108	0.21	
31.09	34.14	3.05	572785	CAP	WRGD	3	8650	<0.01	0.021	0.17	
34.14	37.19	3.05	572786	CAP	WRGD	3	7450	<0.01	0.033	0.17	
37.19	40.23	3.04	572787	CAP	WRGD	3	5700	<0.01	0.054	0.31	
40.23	43.28	3.05	572788	CAP	LTXC	3	10060	<0.01	0.119	0.14	
43.28	46.33	3.05	572789	CAP	LTXC	3	9640	<0.01	0.125	0.14	
46.33	49.38	3.05	572790	CAP	LTXC	3	11800	<0.01	0.122	0.10	
49.38	52.43	3.05	572791	CAP	LTXC	3	11340	<0.01	0.137	0.31	
52.43	55.47	3.04	572792	CAP	LTXC	3	10480	<0.01	0.149	0.34	
55.47	58.52	3.05	572793	CAP	LTXC	3	10140	<0.01	0.173	0.27	
58.52	61.57	3.05	572794	CAP	LTXC	3	11560	<0.01	0.183	0.21	
61.57	64.62	3.05	572795	CAP	LTXC	3	11260	<0.01	0.102	0.27	
64.62	67.67	3.05	572796	CAP	LTXC	3	11600	<0.01	0.090	0.34	
67.67	70.71	3.04	572797	CAP	LTXC	3	10400	0.01	0.064	0.65	
70.71	73.76	3.05	572798	CAP	LTXC	3	10820	<0.01	0.058	0.65	
73.76	76.81	3.05	572799	CAP	LTXC	3	10150	<0.01	0.107	0.72	
76.81	79.86	3.05	572800	CAP	WRGD	3	8800	0.01	0.061	0.45	
79.86	82.91	3.05	572801	CAP	WRGD	3	10040	<0.01	0.045	0.24	
82.91	85.95	3.04	572802	CAP	WRGD	3	11280	0.01	0.030	0.27	
85.95	89.00	3.05	572803	CAP	WRGD	3	10600	0.01	0.038	0.58	
89.00	92.05	3.05	572804	CAP	WRGD	3	11100	0.01	0.035	0.34	
92.05	95.10	3.05	572805	CAP	WRGD	5,3	10970	<0.01	0.031	0.24	
95.10	98.15	3.05	572806	CAP	WRGD	5,3	10960	0.01	0.034	0.24	
98.15	101.19	3.04	572807	CAP	WRGD	5	11160	0.01	0.035	0.34	
101.19	104.85	3.66	572808	CAP	WRGD	5	12270	0.01	0.019	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
104.85	107.90	3.05	572809	CAP	WRGD	5	10420	0.01	0.021	0.34	
107.90	110.95	3.05	572810	CAP	WRGD	5	11950	0.01	0.035	0.27	
110.95	111.86	0.91	572811	CAP	WRGD	5	3540	0.01	0.026	0.31	
111.86	114.91	3.05	572812	CAP	WRGD	5	12180	0.01	0.021	0.55	
114.91	117.96	3.05	572813	CAP	WRGD	5	11080	0.01	0.022	0.27	
117.96	121.01	3.05	572814	CAP	WRGD	5	14160	0.01	0.023	0.27	
121.01	124.05	3.04	572815	CAP	WRGD	5	11300	0.01	0.025	0.24	
124.05	127.10	3.05	572816	CAP	WRGD	5	11700	0.01	0.013	0.14	
127.10	130.15	3.05	572817	SUS	WRGD	5	10640	0.03	0.025	0.31	
130.15	133.20	3.05	572818	SUS	WRGD	5	12340	0.06	0.049	0.24	
133.20	136.25	3.05	572819	SUS	WRGD	5	10440	0.17	0.025	0.27	
136.25	138.99	2.74	572820	SUS	WRGD	5	10000	0.52	0.016	0.51	
138.99	142.04	3.05	572821	SUS	WRGD	5	11300	0.29	0.013	0.38	
142.04	145.39	3.35	572822	SUS	WRGD	5	11100	0.58	0.024	0.69	
145.39	148.44	3.05	572823	SUS	WRGD	5	10120	0.40	0.014	0.58	
148.44	150.88	2.44	572824	SUS	WRGD	5	8340	0.24	0.017	0.34	
150.88	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-159	Total Depth	517.25 m		
Northing	254,965.13	Casing Depth	Left Out		
Easting	111,177.80	Survey Data	Azimuth	Dip	Instrument
Elevation	1280.20 m	Collar		-90.0°	
Core Size	HQ to 378.56 m; NQ to end	154.50 m		-90.0°	Sperry Sun
Drilling Started	June 1, 1993	309.98 m		-89.0°	Sperry Sun
Drilling Finished	June 11, 1993	462.38 m		-88.5°	Sperry Sun
Logged by	M. Dittrick/T. Case				

Purpose/Target: Infill drill hole between 93-127 and 93-125 to confirm depth of mineralization.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	5.33	2.28	564030	CAP	QMFZ	7	7460	0.06	0.067	0.72	
5.33	8.23	2.90	564031	CAP	QMFZ	7	10580	0.04	0.093	0.51	
8.23	11.28	3.05	564032	CAP	QMFZ	7	10340	0.04	0.078	0.58	
11.28	14.33	3.05	564033	CAP	QMFZ	7	12720	0.05	0.074	0.86	
14.33	17.07	2.74	564034	CAP	QMFZ	7	10560	0.05	0.092	0.34	
17.07	20.42	3.35	564035	CAP	QMFZ	7	12020	0.06	0.064	1.27	
20.42	23.47	3.05	564036	CAP	QMFZ	7	10480	0.06	0.086	1.75	
23.47	26.52	3.05	564037	CAP	QMFZ	7	10260	0.06	0.106	1.89	
26.52	29.57	3.05	564038	CAP	QMFZ	7	12060	0.05	0.133	1.89	
29.57	32.31	2.74	564039	CAP	QMFZ	7	10340	0.05	0.064	0.89	
32.31	35.66	3.35	564040	CAP	QMFZ	7	12280	0.06	0.085	0.79	
35.66	37.49	1.83	564041	CAP	QMFZ	7	5340	0.08	0.128	0.96	
37.49	39.93	2.44	564042	CAP	QMFZ	7	7080	0.07	0.099	2.40	
39.93	41.45	1.52	564043	CAP	QMFZ	7	6180	0.06	0.111	1.41	
41.45	43.43	1.98	564044	CAP	QMFZ	7	7040	0.05	0.169	1.99	
43.43	46.48	3.05	564045	CAP	QMFZ	7	11200	0.06	0.161	1.82	
46.48	47.85	1.37	564046	CAP	QMFZ	7	5680	0.07	0.122	1.41	
47.85	50.90	3.05	564047	CAP	QMFZ	7	11460	0.10	0.173	2.37	
50.90	53.95	3.05	564048	CAP	QMFZ	7	11920	0.07	0.079	0.82	
53.95	57.00	3.05	564049	CAP	QMFZ	7	12620	0.04	0.085	0.45	
57.00	60.05	3.05	564050	CAP	QMFZ	7	11340	0.10	0.031	0.48	
60.05	63.09	3.04	564051	CAP	QMFZ	7	13240	0.13	0.066	0.55	
63.09	66.14	3.05	564052	CAP	QMFZ	7	10020	0.06	0.125	0.21	
66.14	67.97	1.83	564053	CAP	QMFZ	7	5940	0.05	0.083	0.17	
67.97	69.95	1.98	564054	CAP	QMFX	7	7400	0.07	0.082	0.21	
69.95	71.78	1.83	564055	CAP	QMFX	5	6880	0.06	0.103	0.17	
71.78	75.29	3.51	564056	SOX	QMFZ	5	12580	0.05	0.079	0.41	
75.29	78.33	3.04	564057	SOX	QMFZ	5	10040	0.09	0.098	0.38	
78.33	81.38	3.05	564058	SOX	QMFZ	3	9860	0.15	0.058	0.89	
81.38	84.43	3.05	564059	SOX	QMFZ	5	11680	0.09	0.050	0.45	
84.43	87.48	3.05	564060	SOX	QMFZ	5	11820	0.09	0.071	0.17	
87.48	90.53	3.05	564061	SOX	QMFZ	5	11020	0.16	0.101	0.14	
90.53	93.57	3.04	564062	SOX	QMFZ	5	12100	0.16	0.130	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
93.57	95.10	1.53	564063	SOX	QMFZ	7	6000	0.30	0.073	0.14	
95.10	97.84	2.74	564064	SOX	QMFZ	7	10740	0.15	0.081	0.10	
97.84	99.67	1.83	564065	SOX	QMFZ	7	8040	0.11	0.081	0.14	
99.67	101.50	1.83	564066	SOX	QMFZ	7	5680	0.14	0.060	0.10	
101.50	103.94	2.44	564067	SOX	QMFZ	7	5700	0.16	0.060	0.14	
103.94	105.77	1.83	564068	SOX	QMFZ	7	7150	0.39	0.077	0.17	
105.77	108.81	3.04	564069	SOX	QMFZ	7,5	10980	0.54	0.062	0.58	
108.81	111.86	3.05	564070	SOX	QMFZ	7,5	11840	0.60	0.091	0.21	
111.86	114.91	3.05	564071	SUS	QMFZ	7,5	11080	0.43	0.063	0.14	
114.91	117.96	3.05	564072	SUS	QMFZ	7	14300	0.15	0.149	0.10	
117.96	121.01	3.05	564073	SUS	QMFZ	4	11960	0.24	0.114	0.10	
121.01	124.05	3.04	564074	SUS	QMFZ	4	12120	0.38	0.090	0.34	
124.05	127.10	3.05	564075	HYP	PPDP	7,1	12000	0.15	0.014	0.17	
127.10	128.93	1.83	564076	HYP	PPDP	7,1	8300	0.14	0.016	0.17	
128.93	131.37	2.44	564077	HYP	PPDP	7,1	10300	0.18	0.005	0.14	
131.37	134.87	3.50	564078	HYP	PPDP	7,1	13460	0.11	0.013	0.14	
134.87	137.77	2.90	564079	HYP	PPDP	7,1	11280	0.42	0.016	0.24	
137.77	139.29	1.52	564080	HYP	PPDP	7,4	6480	0.42	0.018	0.51	
139.29	142.34	3.05	564081	HYP	IXPA	4	12260	0.27	0.034	0.34	
142.34	145.39	3.05	564082	HYP	PPDP	7,1	9160	0.11	0.022	0.24	
145.39	148.44	3.05	564083	HYP	PPDP	7,1	9560	0.08	0.013	0.07	
148.44	151.49	3.05	564084	HYP	PPDP	7,1	11960	0.14	0.009	0.17	
151.49	154.53	3.04	564085	HYP	PPDP	7,1	13060	0.09	0.023	0.10	
154.53	157.43	2.90	564086	HYP	PPDP	7,1	10040	0.07	0.007	0.10	
157.43	160.48	3.05	564087	HYP	PPDP	7,1	12100	0.07	0.009	0.07	
160.48	163.83	3.35	564088	HYP	PPDP	7,1	13700	0.05	0.007	0.07	
163.83	166.73	2.90	564089	HYP	PPDP	7,1	8340	0.18	0.011	0.14	
166.73	170.08	3.35	564090	HYP	PPDP	7,1	10820	0.16	0.008	0.14	
170.08	173.13	3.05	564091	HYP	PPDP	7,1	9540	0.18	0.011	0.24	
173.13	174.65	1.52	564092	HYP	PPDP	7,1	3300	0.19	0.008	0.17	
174.65	177.09	2.44	564093	HYP	PPDP	7,1	10960	0.25	0.017	0.17	
177.09	180.75	3.66	564094	HYP	PPDP	7,1	11100	0.22	0.016	0.10	
180.75	183.95	3.20	564095	HYP	PPDP	7,1	13060	0.18	0.017	0.17	
183.95	184.86	0.91	564096	HYP	PPDP	7,1	4160	0.30	0.013	0.38	
184.86	187.76	2.90	564097	HYP	PPDP	7,1	11660	0.11	0.012	0.14	
187.76	190.65	2.89	564098	HYP	PPDP	7,1	10600	0.10	0.009	0.10	
190.65	193.85	3.20	564099	HYP	PPDP	7,4	11100	0.21	0.027	0.34	
193.85	196.90	3.05	564100	HYP	QXAX	4	11860	0.19	0.032	0.14	
196.90	200.25	3.35	564101	HYP	QXAX	4	13100	0.10	0.040	0.03	
200.25	203.30	3.05	564102	HYP	QXAX	4	13380	0.14	0.052	0.07	
203.30	206.35	3.05	564103	HYP	QXAX	4	12220	0.15	0.058	0.10	
206.35	209.40	3.05	564104	HYP	QXAX	4	12040	0.12	0.149	0.07	
209.40	212.45	3.05	564105	HYP	QXAX	4	13280	0.10	0.237	0.07	
212.45	215.50	3.05	564106	HYP	QXAX	4	12300	0.23	0.428	0.10	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
215.50	218.54	3.04	564107	HYP	QXAX	4	11460	0.12	0.083	0.10	
218.54	221.60	3.06	564108	HYP	QXAX	4	12480	0.17	0.176	0.17	
221.60	224.64	3.04	564109	HYP	QXAX	4	11640	0.09	0.093	0.10	
224.64	227.69	3.05	564110	HYP	QXAX	4	12280	0.13	0.192	0.14	
227.69	230.73	3.04	564111	HYP	QXAX	4	11800	0.13	0.047	0.10	
230.73	233.78	3.05	564112	HYP	QXAX	4	12460	0.10	0.054	0.07	
233.78	236.83	3.05	564113	HYP	QXAX	7	12440	0.10	0.066	0.07	
236.83	239.88	3.05	564114	HYP	QXAX	7	13780	0.10	0.020	0.14	
239.88	242.93	3.05	564115	HYP	QXAX	7	12120	0.10	0.061	0.14	
242.93	245.97	3.04	564116	HYP	QXAX	7	13680	0.08	0.065	0.10	
245.97	249.02	3.05	564117	HYP	QXAX	4	12700	0.13	0.144	0.14	
249.02	252.07	3.05	564118	HYP	QXAX	4	12620	0.15	0.106	0.14	
252.07	255.12	3.05	564119	HYP	QXAX	4	11840	0.09	0.090	0.10	
255.12	258.17	3.05	564120	HYP	QXAX	4	12780	0.07	0.124	0.07	
258.17	261.21	3.04	564121	HYP	QXAX	4	12540	0.06	0.059	0.07	
261.21	264.26	3.05	564122	HYP	QXAX	4	12400	0.07	0.060	0.03	
264.26	267.31	3.05	564123	HYP	QXAX	4	13100	0.06	0.063	0.07	
267.31	270.36	3.05	564124	HYP	QXAX	4	12640	0.11	0.086	0.14	
270.36	273.41	3.05	564125	HYP	QXAX	4	11900	0.09	0.103	0.17	
273.41	276.45	3.04	564126	HYP	QXAX	4	11620	0.26	0.129	0.99	
276.45	279.50	3.05	564127	HYP	QXAX	4	12960	0.12	0.084	0.17	
279.50	282.55	3.05	564128	HYP	QXAX	4	12800	0.08	0.045	0.10	
282.55	285.59	3.04	564129	HYP	QXAX	4	12280	0.08	0.082	0.10	
285.59	288.65	3.06	564130	HYP	QXAX	4	12290	0.07	0.053	0.14	
288.65	291.69	3.04	564131	HYP	QXAX	4	12040	0.11	0.129	0.14	
291.69	294.74	3.05	564132	HYP	QXAX	4	11140	0.05	0.071	0.07	
294.74	297.79	3.05	564133	HYP	WRGD	4	11800	0.09	0.051	0.17	
297.79	300.84	3.05	564134	HYP	WRGD	4	12340	0.04	0.044	0.03	
300.84	303.89	3.05	564135	HYP	WRGD	4	11700	0.05	0.055	0.07	
303.89	306.93	3.04	564136	HYP	WRGD	4	13120	0.09	0.156	0.10	
306.93	309.98	3.05	564137	HYP	WRGD	4	12220	0.07	0.051	0.17	
309.98	313.03	3.05	564138	HYP	WRGD	4/3	12860	0.06	0.093	0.17	
313.03	316.08	3.05	564139	HYP	WRGD	4/3	13400	0.09	0.061	0.17	
316.08	319.13	3.05	564140	HYP	WRGD	4/3	12340	0.19	0.151	0.27	
319.13	322.17	3.04	564141	HYP	WRGD	4/3	13000	0.15	0.082	0.21	
322.17	325.22	3.05	564142	HYP	WRGD	4/3	12160	0.22	0.050	0.38	
325.22	328.27	3.05	564143	HYP	WRGD	3/4	14160	0.17	0.034	0.27	
328.27	331.32	3.05	564144	HYP	WRGD	7	13120	0.12	0.075	0.17	
331.32	334.21	2.89	564145	HYP	WRGD	7	9440	0.14	0.062	0.24	
334.21	337.41	3.20	564146	HYP	WRGD	7	10900	0.11	0.031	0.14	
337.41	340.77	3.36	564147	HYP	WRGD	7	12300	0.11	0.033	0.17	
340.77	341.99	1.22	564148	HYP	WRGD	7	3740	0.10	0.025	0.21	
341.99	344.73	2.74	564149	HYP	WRGD	7	8980	0.10	0.049	0.17	
344.73	346.86	2.13	564150	HYP	WRGD	7	6180	0.12	0.058	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
346.86	349.61	2.75	564151	HYP	WRGD	7	10720	0.10	0.057	0.17	
349.61	352.04	2.43	564152	HYP	WRGD	7	9500	0.15	0.057	0.45	
352.04	354.48	2.44	564153	HYP	WRGD	7	7250	0.12	0.083	0.17	
354.48	357.53	3.05	564154	HYP	WRGD	7	13940	0.08	0.052	0.17	
357.53	358.75	1.22	564155	HYP	WRGD	7	5240	0.08	0.049	0.17	
358.75	361.80	3.05	564156	HYP	WRGD	7	14120	0.11	0.079	0.21	
361.80	364.85	3.05	564157	HYP	WRGD	7	14460	0.08	0.061	0.21	
364.85	367.89	3.04	564158	HYP	WRGD	7	13560	0.15	0.103	0.27	
367.89	370.94	3.05	564159	HYP	WRGD	7	14180	0.11	0.175	0.24	
370.94	373.99	3.05	564160	HYP	WRGD	7	15340	0.11	0.097	0.14	
373.99	377.04	3.05	564161	HYP	WRGD	7	12540	0.06	0.118	0.10	
377.04	380.09	3.05	564162	HYP	WRGD	7	10020	0.08	0.116	0.14	
380.09	383.13	3.04	564163	HYP	WRGD	7	7000	0.08	0.147	0.14	
383.13	386.18	3.05	564164	HYP	WRGD	7	7560	0.10	0.076	0.21	
386.18	389.23	3.05	564165	HYP	WRGD	7	7700	0.13	0.102	0.21	
389.23	392.28	3.05	564166	HYP	WRGD	7	6920	0.16	0.082	0.24	
392.28	395.33	3.05	564167	HYP	WRGD	7	7840	0.13	0.075	0.21	
395.33	398.37	3.04	564168	HYP	WRGD	7	8020	0.12	0.140	0.24	
398.37	401.42	3.05	564169	HYP	WRGD	7	8560	0.10	0.075	0.17	
401.42	404.46	3.04	564170	HYP	WRGD	7	8100	0.09	0.077	0.17	
404.46	407.52	3.06	564171	HYP	WRGD	7	7600	0.07	0.051	0.17	
407.52	410.57	3.05	564172	HYP	WRGD	7	7320	0.10	0.109	0.14	
410.57	413.61	3.04	564173	HYP	WRGD	7	8660	0.09	0.056	0.14	
413.61	416.66	3.05	564174	HYP	WRGD	7	7340	0.09	0.088	0.14	
416.66	419.71	3.05	564175	HYP	WRGD	7	7640	0.07	0.114	0.10	
419.71	422.76	3.05	564176	HYP	WRGD	7	7780	0.12	0.083	0.24	
422.76	425.81	3.05	564177	HYP	WRGD	7	7420	0.10	0.062	0.17	
425.81	428.85	3.04	564178	HYP	WRGD	7	7520	0.08	0.046	0.10	
428.85	431.91	3.06	564179	HYP	WRGD	7	7520	0.06	0.070	0.07	
431.91	434.95	3.04	564180	HYP	WRGD	7	7360	0.09	0.080	0.24	
434.95	438.00	3.05	564181	HYP	WRGD	7	7720	0.12	0.142	0.17	
438.00	441.05	3.05	564182	HYP	WRGD	7	7260	0.09	0.110	0.17	
441.05	444.09	3.04	564183	HYP	WRGD	7	7440	0.06	0.081	0.10	
444.09	447.14	3.05	564184	HYP	WRGD	7	7060	0.07	0.119	0.10	
447.14	450.19	3.05	564185	HYP	WRGD	7	7560	0.09	0.192	0.10	
450.19	453.24	3.05	564186	HYP	WRGD	7	7000	0.14	0.078	0.21	
453.24	456.29	3.05	564187	HYP	WRGD	7	7320	0.12	0.164	0.14	
456.29	459.33	3.04	564188	HYP	WRGD	7	7340	0.12	0.109	0.10	
459.33	462.38	3.05	564189	HYP	WRGD	7	6880	0.11	0.090	0.14	
462.38	465.43	3.05	564190	HYP	WRGD	7	7600	0.16	0.129	0.24	
465.43	468.48	3.05	564191	HYP	WRGD	7	7000	0.07	0.123	0.03	
468.48	471.53	3.05	564192	HYP	WRGD	7	8000	0.10	0.094	0.10	
471.53	474.57	3.04	564193	HYP	WRGD	7	8020	0.08	0.108	0.07	
474.57	477.62	3.05	564194	HYP	WRGD	7	7260	0.08	0.095	0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
477.62	480.67	3.05	564195	HYP	WRGD	7	7540	0.11	0.075	0.07	
480.67	483.72	3.05	564196	HYP	WRGD	7	7660	0.05	0.092	<0.01	
483.72	486.77	3.05	564197	HYP	WRGD	7	7180	0.05	0.079	<0.01	
486.77	489.81	3.04	564198	HYP	WRGD	7	6920	0.06	0.054	0.07	
489.81	492.86	3.05	564199	HYP	WRGD	7	7520	0.07	0.064	0.03	
492.86	495.91	3.05	564200	HYP	WRGD	7	7120	0.07	0.082	0.07	
495.91	498.96	3.05	564201	HYP	WRGD	5	7020	0.05	0.054	0.07	
498.96	502.01	3.05	564202	HYP	WRGD	5	6780	0.06	0.127	<0.01	
502.01	505.05	3.04	564203	HYP	WRGD	7	7860	0.04	0.099	0.03	
505.05	508.10	3.05	564204	HYP	WRGD	7	7740	0.08	0.093	0.10	
508.10	511.15	3.05	564205	HYP	WRGD	7	7060	0.06	0.091	0.03	
511.15	514.20	3.05	564206	HYP	WRGD	7	7160	0.03	0.061	<0.01	
514.20	517.25	3.05	564207	HYP	WRGD	7/5	7480	0.04	0.106	0.03	
517.25	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-160	Total Depth	291.69 m		
Northing	254,999.78	Casing Depth	51.8 m		Left Out
Easting	110,299.64	Survey Data	Azimuth	Dip	Instrument
Elevation	1226.68 m	Collar			
Core Size	HQ	154.5 m	289°	-88.8°	Sperry Sun
Drilling Started	June 1, 1993	291.7 m	016°	-88.5°	Sperry Sun
Drilling Finished	June 6, 1993				
Logged by	C. DeLong				

Purpose/Target: Test northwestern extremities of mineralization.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.23	8.23		OVB							
8.23	11.28	3.05	572825	CAP	WRGD	3	9720	0.02	0.062	0.34	
11.28	13.72	2.44	572826	CAP	WRGD	3	7600	0.05	0.088	0.27	
13.72	16.76	3.04	572827	CAP	WRGD	3	9220	0.03	0.066	0.24	
16.76	19.81	3.05	572828	CAP	WRGD	3	8120	0.03	0.061	0.21	
19.81	21.95	2.14	572829	CAP	WRGD	3	5360	0.02	0.049	0.34	
21.95	24.99	3.04	572830	CAP	WRGD	3	9080	0.02	0.075	0.55	
24.99	28.04	3.05	572831	CAP	WRGD	3	8920	0.02	0.073	0.31	
28.04	31.09	3.05	572832	CAP	WRGD	3	9600	0.02	0.062	0.58	
31.09	34.14	3.05	572833	CAP	WRGD	3	6120	0.03	0.080	0.69	
34.14	37.19	3.05	572834	CAP	WRGD	3	7360	0.02	0.071	0.51	
37.19	40.23	3.04	572835	CAP	WRGD	3	7040	0.01	0.099	0.34	
40.23	43.28	3.05	572836	CAP	WRGD	3	8300	0.02	0.098	0.24	
43.28	46.33	3.05	572837	CAP	WRGD	3	7460	0.15	0.045	0.38	
46.33	49.38	3.05	572838	CAP	QMFX	3	10640	0.15	0.093	0.34	
49.38	52.43	3.05	572839	TRANS	QMFX	3	13860	0.04	0.087	0.31	
52.43	53.95	1.52	572840	TRANS	QMFX	3	5520	0.01	0.042	0.58	
53.95	57.00	3.05	572841	TRANS	QMFX	4	12600	0.03	0.115	0.38	
57.00	60.05	3.05	572842	TRANS	QMFX	4	12200	0.24	0.093	0.21	
60.05	63.10	3.05	572843	SUS	QMFX	4	12480	0.36	0.090	0.27	
63.10	66.14	3.04	572844	SUS	QMFX	4	12400	0.04	0.094	0.17	
66.14	69.20	3.06	572845	SUS	QMFX	4	11860	0.52	0.163	0.38	
69.20	72.24	3.04	572846	SUS	QMFX	4	10720	0.75	0.236	0.65	
72.24	75.29	3.05	572847	SUS	QMFX	4	11840	0.25	0.135	0.24	
75.29	77.72	2.43	572848	SUS	QMIE	4	7340	0.30	0.071	0.38	
77.72	79.86	2.14	572849	SUS	QMIE	4	8120	0.53	0.073	0.17	
79.86	82.60	2.74	572850	SUS	QMIE	5	9760	0.33	0.041	0.07	
82.60	85.65	3.05	572851	SUS	QMIE	5	12340	0.25	0.047	0.14	
85.65	88.09	2.44	572852	SUS	QMIE	5	7800	0.11	0.106	0.14	
88.09	90.53	2.44	572853	SUS	QMIE	5	10060	0.34	0.074	0.21	
90.53	93.57	3.04	572854	SUS	QMIE	5	12600	0.34	0.127	0.21	
93.57	96.62	3.05	572855	SUS	QMIE	5	11500	0.37	0.064	0.14	
96.62	99.67	3.05	572856	SUS	QMIE	5	10720	0.37	0.113	0.14	
99.67	102.72	3.05	572857	SUS	QMIE	5	10880	0.24	0.130	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.72	105.77	3.05	572858	SUS	QMIE	5	11620	0.26	0.139	0.10	
105.77	108.81	3.04	572859	SUS	QMIE	5	11660	0.20	0.078	0.10	
108.81	111.86	3.05	572860	SUS	QMIE	4,7	11440	0.24	0.054	0.14	
111.86	114.91	3.05	572861	SUS	WRGD	4	12560	0.36	0.066	0.21	
114.91	117.96	3.05	572862	SUS	WRGD	4,3	11100	0.26	0.065	0.10	
117.96	121.01	3.05	572863	SUS	WRGD	4,3	11980	0.22	0.046	0.17	
121.01	124.05	3.04	572864	SUS	WRGD	4,3	12400	0.31	0.049	0.24	
124.05	127.10	3.05	572865	SUS	WRGD	4,3	12200	0.27	0.054	0.38	
127.10	130.15	3.05	572866	SUS	WRGD	4,3	11580	0.30	0.041	0.24	
130.15	133.20	3.05	572867	SUS	WRGD	4,3	12080	0.18	0.032	0.10	
133.20	136.25	3.05	572868	SUS	WRGD	3,4	11940	0.16	0.031	0.10	
136.25	139.29	3.04	572869	SUS	WRGD	3,4	11940	0.19	0.038	0.21	
139.29	142.34	3.05	572870	SUS	WRGD	4,3	12760	0.19	0.043	0.17	
142.34	145.39	3.05	572871	SUS	WRGD	4,3	12540	0.27	0.030	0.27	✓
145.39	148.44	3.05	572872	SUS	WRGD	4,3	12400	0.13	0.023	0.10	
148.44	151.49	3.05	572873	SUS	WRGD	4,3	13900	0.09	0.039	0.07	
151.49	154.53	3.04	572874	SUS	WRGD	5,3	13920	0.19	0.030	0.17	
154.53	157.58	3.05	572875	SUS	WRGD	5,7	13800	0.12	0.030	0.07	
157.58	160.63	3.05	572876	SUS	WRGD	5	15000	0.11	0.040	0.10	
160.63	163.68	3.05	572877	HYP	WRGD	5	12700	0.14	0.023	0.17	
163.68	166.73	3.05	572878	HYP	WRGD	7,5	15100	0.11	0.059	0.10	
166.73	169.77	3.04	572879	HYP	WRGD	7	14420	0.10	0.031	0.17	
169.77	172.82	3.05	572880	HYP	WRGD	7	13060	0.16	0.036	0.24	✓
172.82	175.87	3.05	572881	HYP	WRGD	7	13260	0.18	0.043	0.21	✓
175.87	178.92	3.05	572882	HYP	WRGD	7	13040	0.11	0.037	0.17	
178.92	181.97	3.05	572883	HYP	WRGD	7	12920	0.12	0.037	0.14	
181.97	185.01	3.04	572884	HYP	WRGD	7,5	12860	0.15	0.036	0.17	
185.01	188.06	3.05	572885	HYP	WRGD	7,5	12800	0.13	0.028	0.14	
188.06	191.11	3.05	572886	HYP	WRGD	7,5	13100	0.10	0.038	0.10	
191.11	194.16	3.05	572887	HYP	WRGD	7	12660	0.14	0.039	0.17	
194.16	197.21	3.05	572888	HYP	WRGD	7,5	12720	0.12	0.032	0.17	
197.21	200.25	3.04	572889	HYP	WRGD	7,5	13320	0.12	0.019	0.14	
200.25	203.30	3.05	572890	HYP	WRGD	7,5	12420	0.10	0.028	0.17	
203.30	206.35	3.05	572891	HYP	WRGD	7,5	12460	0.11	0.034	0.14	
206.35	209.40	3.05	572892	HYP	WRGD	7,5	14080	0.13	0.028	0.14	
209.40	212.45	3.05	572893	HYP	WRGD	7,5	12670	0.13	0.061	0.14	
212.45	215.34	2.89	572894	HYP	WRGD	7,5	12660	0.10	0.026	0.10	
215.34	218.39	3.05	572895	HYP	WRGD	7,5	16540	0.10	0.040	0.10	
218.39	221.44	3.05	572896	HYP	WRGD	7,5	15300	0.13	0.031	0.14	
221.44	224.49	3.05	572897	HYP	WRGD	7,5	14100	0.10	0.030	0.10	
224.49	227.69	3.20	572898	HYP	WRGD	7,5	12580	0.07	0.018	0.07	
227.69	230.73	3.04	572899	HYP	WRGD	3	13700	0.09	0.016	0.10	
230.73	233.78	3.05	572900	HYP	WRGD	4	15240	0.07	0.050	0.07	
233.78	236.83	3.05	572901	HYP	WRGD	7,5	14500	0.11	0.049	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	572902	HYP	WRGD	7,5	14240	0.07	0.050	0.07	
239.88	242.93	3.05	572903	HYP	WRGD	7	13040	0.05	0.033	0.07	
242.93	245.97	3.04	572904	HYP	WRGD	7	12780	0.05	0.027	0.03	
245.97	249.02	3.05	572905	HYP	WRGD	7,5	11860	0.06	0.054	0.10	
249.02	252.07	3.05	572906	HYP	WRGD	5,7	12600	0.09	0.023	0.10	
252.07	255.12	3.05	572907	HYP	WRGD	7	12340	0.09	0.037	0.10	
255.12	258.17	3.05	572908	HYP	WRGD	7,5	12540	0.08	0.073	0.07	
258.17	261.21	3.04	572909	HYP	WRGD	5	12120	0.06	0.019	0.07	
261.21	264.26	3.05	572910	HYP	WRGD	5	10800	0.10	0.022	0.10	
264.26	267.31	3.05	572911	HYP	WRGD	5	12020	0.12	0.031	0.14	
267.31	270.36	3.05	572912	HYP	WRGD	5	12160	0.23	0.018	0.27	
270.36	272.49	2.13	572913	HYP	WRGD	5,3	7360	0.10	0.032	0.10	
272.49	275.69	3.20	572914	HYP	WRGD	3	13300	0.18	0.036	0.14	
275.69	278.89	3.20	572915	HYP	WRGD	3	11920	0.06	0.045	0.07	
278.89	281.94	3.05	572916	HYP	WRGD	4,7	13080	0.10	0.025	0.10	
281.94	284.99	3.05	572917	HYP	WRGD	7	14760	0.04	0.054	0.07	
284.99	288.04	3.05	572918	HYP	WRGD	7,1	13880	0.05	0.029	0.10	
288.04	291.69	3.65	572919	HYP	WRGD	7,1	17660	0.07	0.084	0.14	
291.69	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-161	Total Depth	441.05 m		
Northing	254,968.43	Casing Depth	3.05 m		Left Out
Easting	111,022.66	Survey Data	Azimuth	Dip	Instrument
Elevation	1311.60 m	Collar		-90°	
Core Size	HQ	182.6 m	200°	-90°	Sperry Sun
Drilling Started	June 2, 1993				
Drilling Finished	June 9, 1993				
Logged by	M.P. Phillips				
Purpose/Target:	Routine definition drilling.				

Comments: Drill hole intersected QXPX - homolithic breccia with potassic alteration cut by bands of phyllic alteration. Better copper mineralization is associated with potassic alteration having secondary potash. Above average amounts of magnetite and gypsum.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	4.57	2.13	570232	CAP	QXPX	3	2500	0.13	0.049	0.45	
4.57	7.62	3.05	570233	CAP	QXPX	3	9500	0.08	0.027	1.68	
7.62	11.28	3.66	570234	CAP	QXPX	3	11020	0.12	0.052	1.51	
11.28	14.33	3.05	570235	CAP	QXPX	3	9900	0.14	0.032	0.62	
14.33	17.37	3.04	570236	CAP	QXPX	3	12120	0.18	0.019	0.24	
17.37	20.12	2.75	570237	CAP	QXPX	3	10080	0.18	0.018	0.48	
20.12	23.01	2.89	570238	CAP	QXPX	3	9020	0.14	0.018	0.48	
23.01	26.21	3.20	570239	CAP	QXPX	3	10120	0.09	0.043	0.65	
26.21	29.26	3.05	570240	SOX	QXPX	7	14300	0.50	0.015	0.79	
29.26	32.31	3.05	570241	SOX	QXPX	7	12940	0.56	0.044	0.48	
32.31	35.20	2.89	570242	CAP	QXPX	7	11340	0.11	0.028	0.93	
35.20	38.56	3.36	570243	CAP	QXPX	7	12840	0.07	0.032	0.69	
38.56	41.76	3.20	570244	CAP	QXPX	7	11430	0.07	0.032	1.85	
41.76	44.81	3.05	570245	CAP	QXPX	7	12500	0.09	0.025	1.54	
44.81	47.85	3.04	570246	SOX	QXPX	7	12720	0.12	0.027	1.03	
47.85	50.90	3.05	570247	SOX	QXPX	7	12280	0.24	0.052	0.65	
50.90	53.95	3.05	570248	SOX	QXPX	3	11480	0.14	0.083	0.79	
53.95	57.00	3.05	570249	CAP	QXPX	3	11160	0.14	0.058	0.69	
57.00	60.05	3.05	570250	CAP	QXPX	3	9520	0.13	0.053	0.99	
60.05	62.79	2.74	570251	CAP	QXPX	3	8560	0.12	0.054	0.86	
62.79	66.14	3.35	570252	CAP	QXPX	3	13000	0.11	0.059	0.62	
66.14	69.19	3.05	570253	CAP	QXPX	3	12320	0.09	0.032	0.58	
69.19	72.24	3.05	570254	CAP	QXPX	3	12360	0.11	0.065	0.51	
72.24	75.29	3.05	570255	CAP	QXPX	7	11820	0.09	0.038	0.48	
75.29	78.33	3.04	570256	CAP	QXPX	7	11660	0.09	0.056	0.75	
78.33	81.38	3.05	570257	CAP	QXPX	7	11380	0.09	0.071	0.38	
81.38	84.43	3.05	570258	CAP	QXPX	7	13280	0.08	0.032	0.34	
84.43	87.48	3.05	570259	CAP	QXPX	7	10860	0.10	0.053	1.06	
87.48	90.53	3.05	570260	CAP	QXPX	3	11560	0.08	0.053	0.48	
90.53	93.57	3.04	570261	CAP	QXPX	3	12620	0.10	0.076	0.48	
93.57	96.62	3.05	570262	CAP	QXPX	3	13720	0.10	0.051	0.82	
96.62	99.67	3.05	570263	CAP	QXPX	3	12920	0.09	0.081	0.65	
99.67	102.72	3.05	570264	CAP	QXPX	3	12720	0.15	0.064	0.72	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.72	105.77	3.05	570265	CAP	QXPX	3	12260	0.11	0.045	0.69	
105.77	108.81	3.04	570266	CAP	QXPX	3	12220	0.07	0.040	0.55	
108.81	111.86	3.05	570267	CAP	QXPX	3	12280	0.11	0.034	1.37	
111.86	114.91	3.05	570268	SOX	QXPX	3	13140	0.16	0.140	0.93	
114.91	117.96	3.05	570269	SOX	QXPX	3	12740	0.28	0.059	0.58	
117.96	121.01	3.05	570270	SOX	QXPX	3	12520	0.35	0.040	0.65	
121.01	124.05	3.04	570271	SOX	QXPX	7	12300	0.21	0.024	0.62	
124.05	127.10	3.05	570272	SOX	QXPX	7	12420	0.37	0.049	0.45	
127.10	130.15	3.05	570273	SOX	QXPX	7	11020	0.50	0.034	0.38	
130.15	133.20	3.05	570274	SOX	QXPX	7	11180	0.50	0.028	0.55	
133.20	136.25	3.05	570275	SOX	QXPX	7	11120	0.36	0.023	0.41	
136.25	139.29	3.04	570276	SOX	QXPX	7	11340	0.28	0.019	0.24	
139.29	142.34	3.05	570277	SOX	QXPX	7	9220	1.00	0.031	0.58	
142.34	145.39	3.05	570278	SOX	QXPX	7	11200	0.47	0.022	0.48	
145.39	148.44	3.05	570279	SOX	QXPX	7	10120	0.60	0.026	0.41	
148.44	151.49	3.05	570280	SOX	QXPX	7	9900	0.62	0.102	0.58	
151.49	154.53	3.04	570281	SOX	QXPX	7	11480	0.47	0.024	0.48	
154.53	157.58	3.05	570282	HYP	QXPX	7	11180	0.34	0.024	0.45	
157.58	160.63	3.05	570283	HYP	QXPX	7	11380	0.36	0.023	0.34	
160.63	163.68	3.05	570284	HYP	QXPX	7	11360	0.31	0.036	0.38	
163.68	166.73	3.05	570285	HYP	QXPX	7	11460	0.40	0.030	0.48	
166.73	169.77	3.04	570286	HYP	QXPX	7	11280	0.37	0.049	0.79	
169.77	172.82	3.05	570287	HYP	QXPX	5	9720	1.48	0.045	0.62	
172.82	175.87	3.05	570288	HYP	QXPX	5	11480	0.34	0.056	0.21	
175.87	178.92	3.05	570289	HYP	QXPX	5	11410	0.53	0.068	0.38	
178.92	181.97	3.05	570290	HYP	QXPX	5	13560	0.34	0.040	0.45	
181.97	185.01	3.04	570291	HYP	QXPX	5	11920	0.25	0.039	0.38	
185.01	188.06	3.05	570292	HYP	QXPX	7	12480	0.26	0.077	0.41	
188.06	190.50	2.44	570293	HYP	QXPX	4	9300	0.22	0.045	0.27	
190.50	193.55	3.05	570294	HYP	QXPX	5	11620	0.21	0.039	0.38	
193.55	196.29	2.74	570295	HYP	QXPX	7	11280	0.23	0.028	0.55	
196.29	199.34	3.05	570296	HYP	QXPX	7	12760	0.15	0.021	0.34	
199.34	202.69	3.35	570297	HYP	QXPX	5	11860	0.32	0.056	0.75	
202.69	205.74	3.05	570298	HYP	QXPX	5	11260	0.32	0.084	0.58	
205.74	208.79	3.05	570299	HYP	QXPX	5	11980	0.32	0.061	0.38	
208.79	211.84	3.05	570300	HYP	QXPX	5	12180	0.22	0.040	0.34	
211.84	214.88	3.04	570301	HYP	QXPX	5	11180	0.30	0.097	0.38	
214.88	217.93	3.05	570302	HYP	QXPX	7	11540	0.38	0.033	1.54	
217.93	220.98	3.05	570303	HYP	QXPX	7	12360	0.18	0.024	0.45	
220.98	224.64	3.66	570304	HYP	QXPX	7	13700	0.37	0.053	0.89	
224.64	227.69	3.05	570305	HYP	QXPX	7	12180	0.28	0.040	0.65	
227.69	230.73	3.04	570306	HYP	QXPX	5	12100	0.27	0.058	0.31	
230.73	233.78	3.05	570307	HYP	QXPX	5	11700	0.22	0.041	0.41	
233.78	236.83	3.05	570308	HYP	QXPX	5	11520	0.23	0.034	0.38	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	570309	HYP	QXPX	5	12720	0.29	0.038	0.41	
239.88	242.93	3.05	570310	HYP	QXPX	5	11460	0.27	0.047	0.55	
242.93	245.97	3.04	570311	HYP	QXPX	7	12000	0.16	0.041	0.31	
245.97	249.02	3.05	570312	HYP	QXPX	7	12940	0.20	0.035	0.45	
249.02	252.07	3.05	570313	HYP	QXPX	7	12240	0.21	0.020	0.51	
252.07	255.12	3.05	570314	HYP	QXPX	5	12140	0.25	0.030	0.45	
255.12	257.86	2.74	570315	HYP	QXPX	7	10580	0.20	0.037	0.34	
257.86	261.21	3.35	570316	HYP	QXPX	7	12940	0.19	0.026	0.41	
261.21	264.26	3.05	570317	HYP	QXPX	7	12920	0.18	0.034	0.31	
264.26	267.00	2.74	570318	HYP	QXPX	7	10440	0.13	0.021	0.17	
267.00	270.36	3.36	570319	HYP	QXPX	7	10900	0.18	0.033	0.31	
270.36	273.41	3.05	570320	HYP	QXPX	7	12360	0.20	0.029	0.45	
273.41	276.45	3.04	570321	HYP	QXPX	7	11960	0.22	0.037	0.41	
276.45	279.50	3.05	570322	HYP	QXPX	7	14280	0.17	0.062	0.24	
279.50	282.55	3.05	570323	HYP	QXPX	7	11060	0.30	0.036	0.27	
282.55	285.60	3.05	570324	HYP	QXPX	7	13580	0.20	0.089	0.38	
285.60	288.65	3.05	570325	HYP	QXPX	7	13640	0.14	0.097	0.21	
288.65	291.69	3.04	570326	HYP	QXPX	7	13260	0.15	0.067	0.21	
291.69	294.74	3.05	570327	HYP	QXPX	5	13720	0.15	0.035	0.21	
294.74	297.79	3.05	570328	HYP	QXPX	4	12680	0.19	0.053	0.45	
297.79	300.84	3.05	570329	HYP	QXPX	5	10920	0.18	0.027	0.24	
300.84	303.89	3.05	570330	HYP	QXPX	5	13120	0.16	0.043	0.24	
303.89	306.93	3.04	570331	HYP	QXPX	5	14140	0.10	0.032	0.14	
306.93	309.98	3.05	570332	HYP	QXPX	7	11940	0.18	0.042	0.31	
309.98	313.03	3.05	570333	HYP	QXPX	7	12500	0.25	0.046	0.34	
313.03	316.08	3.05	570334	HYP	QXPX	7	12620	0.20	0.090	0.31	
316.08	319.13	3.05	570335	HYP	QXPX	5	12600	0.22	0.031	0.38	
319.13	322.17	3.04	570336	HYP	QXPX	5	12420	0.33	0.048	0.48	
322.17	325.22	3.05	570337	HYP	QXPX	5	12760	0.23	0.061	0.38	
325.22	327.66	2.44	570338	HYP	QXPX	7	8800	0.20	0.020	0.34	
327.66	330.71	3.05	570339	HYP	QXPX	5	12900	0.34	0.034	0.58	
330.71	333.76	3.05	570340	HYP	QXPX	7	12200	0.71	0.061	1.41	
333.76	336.80	3.04	570341	HYP	QXPX	5	12800	0.24	0.065	0.27	
336.80	340.46	3.66	570342	HYP	QXPX	4	14350	0.11	0.015	0.34	
340.46	343.51	3.05	570343	HYP	QXPX	7	12430	0.21	0.028	0.17	
343.51	346.56	3.05	570344	HYP	QXPX	7	11300	0.09	0.024	0.21	
346.56	349.61	3.05	570345	HYP	QXPX	5	11620	0.11	0.023	0.14	
349.61	352.65	3.04	570346	HYP	QXPX	5	10840	0.09	0.031	0.14	
352.65	355.70	3.05	570347	HYP	QXPX	7	12260	0.13	0.028	0.21	
355.70	358.75	3.05	570348	HYP	QXPX	7	11540	0.11	0.027	0.14	
358.75	361.80	3.05	570349	HYP	QXPX	7	12620	0.09	0.026	0.10	
361.80	364.85	3.05	570350	HYP	QXPX	5	12100	0.07	0.032	0.10	
364.85	367.89	3.04	570351	HYP	QXPX	5	12720	0.11	0.036	0.07	
367.89	370.94	3.05	570352	HYP	QXPX	5	12320	0.13	0.039	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.99	3.05	570353	HYP	QXPX	5	11700	0.11	0.036	0.10	
373.99	377.04	3.05	570354	HYP	QXPX	5	11590	0.13	0.028	0.10	
377.04	380.09	3.05	570355	HYP	QXPX	5	11700	0.09	0.015	0.14	
380.09	383.13	3.04	570356	HYP	QXPX	5	12130	0.14	0.028	0.17	
383.13	386.18	3.05	570357	HYP	QXPX	5	12710	0.13	0.024	0.14	
386.18	389.23	3.05	570358	HYP	QXPX	5	11250	0.25	0.043	0.34	
389.23	392.28	3.05	570359	HYP	QXPX	7	11600	0.23	0.040	0.51	
392.28	395.33	3.05	570360	HYP	QXPX	7	11920	0.12	0.013	0.21	
395.33	398.37	3.04	570361	HYP	QXPX	5	11300	0.12	0.018	0.14	
398.37	401.42	3.05	570362	HYP	QXPX	5	10610	0.11	0.016	0.10	
401.42	404.47	3.05	570363	HYP	QXPX	5	11300	0.11	0.017	0.21	
404.47	407.52	3.05	570364	HYP	QXPX	5	12450	0.11	0.042	0.10	
407.52	410.57	3.05	570365	HYP	QXPX	5	12280	0.08	0.033	0.10	
410.57	413.61	3.04	570366	HYP	QXPX	5	12460	0.09	0.024	0.10	
413.61	416.66	3.05	570367	HYP	QXPX	7	11800	0.08	0.026	0.07	
416.66	419.71	3.05	570368	HYP	QXPX	7	10660	0.09	0.015	0.10	
419.71	422.76	3.05	570369	HYP	QXPX	7	12040	0.06	0.013	0.07	
422.76	425.81	3.05	570370	HYP	QXPX	5	10740	0.08	0.026	0.00	
425.81	428.85	3.04	570371	HYP	QXPX	7	10900	0.04	0.018	0.03	
428.85	431.90	3.05	570372	HYP	QXPX	4	11280	0.03	0.031	0.00	
431.90	434.95	3.05	570373	HYP	QXPX	4	11240	0.04	0.023	0.00	
434.95	438.00	3.05	570374	HYP	QXPX	4	10600	0.08	0.031	0.07	
438.00	441.05	3.05	570375	HYP	QXPX	4	11720	0.09	0.016	0.07	
441.05	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-162	Total Depth	425.81 m		
Northing	254,999.21	Casing Depth	1.83 m		Left In
Easting	110,700.66	Survey Data	Azimuth	Dip	Instrument
Elevation	1267.11 m	Collar			
Core Size	HQ	154.53 m	142°	-89.0°	Sperry Sun
Drilling Started	June 6, 1993	300.84 m	245°	-89.5°	Sperry Sun
Drilling Finished	June 15, 1993	425.81 m	012°	-88.5°	Sperry Sun
Logged by	L. Brommeland				

Purpose/Target: Infill hole to test continuity of mineralization between 93-148 and 93-141.

Comments: Abundant native copper in supergene sulphide zone. (Analyze for metallic Cu?)

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	1.83	1.83		OVB							
1.83	4.57	2.74	572920	CAP	QMIE	5/3	6720	0.02	0.018	0.14	
4.57	7.62	3.05	572921	CAP	QMIE	5/3	12800	0.02	0.009	0.03	
7.62	10.82	3.20	572922	CAP	QMIE	5/3	10600	0.03	0.013	0.07	
10.82	14.33	3.51	572923	CAP	QMIE	5/3	14220	0.01	0.010	0.14	
14.33	17.32	2.99	572924	CAP	QMIE	5/3	11540	0.01	0.012	0.03	
17.32	20.42	3.10	572925	CAP	QMIE	5/3	12420	0.03	0.009	0.07	
20.42	22.86	2.44	572926	CAP	QMIE	5/3	9180	0.01	0.020	0.10	
22.86	25.91	3.05	572927	CAP	QMIE	5/3	12080	0.01	0.012	0.14	
25.91	28.65	2.74	572928	CAP	QMIE	5/3	6700	0.01	0.009	0.34	
28.65	31.09	2.44	572929	CAP	QMIE	5/3	6500	0.01	0.013	0.07	
31.09	32.92	1.83	572930	CAP	QMIE	5/3	7500	0.02	0.009	0.10	
32.92	35.66	2.74	572931	CAP	QMIE	5/3	9540	0.02	0.019	0.10	
35.66	38.10	2.44	572932	CAP	QMIE	5/3	9140	0.02	0.025	0.10	
38.10	41.15	3.05	572933	CAP	QMIE	5/3	10840	0.02	0.015	0.07	
41.15	44.20	3.05	572934	SOX	QMIE	7/5	11620	0.06	0.017	0.24	
44.20	47.40	3.20	572935	SOX	QXPX	7/5	12700	0.18	0.013	2.20	
47.40	50.60	3.20	572936	SOX	QXPX	7/5	11160	0.45	0.018	0.10	
50.60	52.73	2.13	572937	SOX	QXPX	7/5	8060	0.19	0.026	0.07	
52.73	55.78	3.05	572938	SUS	QXPX	7/5	11840	0.19	0.014	0.03	
55.78	58.83	3.05	572939	SUS	QXPX	7/5	10640	0.24	0.009	0.14	
58.83	61.57	2.74	572940	SUS	QXPX	7	7760	0.30	0.015	0.10	
61.57	64.31	2.74	572941	SUS	QXPX	7/5	11940	0.17	0.014	0.03	
64.31	66.14	1.83	572942	SUS	QXPX	7	6740	0.22	0.044	0.10	
66.14	69.19	3.05	572943	SUS	QXPX	7	11060	0.09	0.008	0.07	
69.19	71.32	2.13	572944	SUS	QXPX	7/5	8940	0.21	0.012	0.10	
71.32	74.37	3.05	572945	SUS	QXPX	7/5	13980	0.10	0.020	0.07	
74.37	77.42	3.05	572946	SUS	QXPX	7	13620	0.13	0.011	0.07	
77.42	80.77	3.35	572947	SUS	QXPX	7	14320	0.15	0.016	0.10	
80.77	84.43	3.66	572948	SUS	QXPX	7	15820	0.10	0.020	0.10	
84.43	87.48	3.05	572949	SUS	QXPX	7/5	13560	0.07	0.016	0.10	
87.48	90.53	3.05	572950	SUS	QXPX	7/5	12620	0.11	0.018	0.10	
90.53	93.57	3.04	572951	SUS	IXPA	7	13240	0.22	0.022	0.17	
93.57	96.62	3.05	572952	SUS	IXPA	7	9640	0.11	0.010	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
96.62	99.67	3.05	572953	SUS	IXPA	7	12800	0.09	0.013	0.10	
99.67	100.89	1.22	572954	SUS	IXPA	7	5060	0.15	0.018	0.14	
100.89	103.94	3.05	572955	SUS	IXPA	7/5	14440	0.09	0.014	0.03	
103.94	106.07	2.13	572956	SUS	IXPA	7	9340	0.13	0.022	0.07	
106.07	108.81	2.74	572957	SUS	IXPA	7	11740	0.15	0.023	0.07	
108.81	112.17	3.36	572958	TRN	IXPA	7/5	13060	0.12	0.012	0.10	
112.17	114.91	2.74	572959	TRN	IXPA	7	11140	0.20	0.016	0.24	
114.91	117.96	3.05	572960	TRN	IXPA	7	13840	0.22	0.026	0.49	
117.96	121.01	3.05	572961	TRN	IXPA	7	12740	0.12	0.017	0.34	
121.01	123.14	2.13	572962	TRN	IXPA	7	9060	0.16	0.018	0.14	
123.14	127.10	3.96	572963	TRN	IXPA	7	17260	0.28	0.019	0.17	
127.10	130.15	3.05	572964	TRN	IXPA	7	13220	0.20	0.014	0.17	
130.15	133.05	2.90	572965	TRN	IXPA	7	9960	0.17	0.026	0.10	
133.05	135.33	2.28	572966	TRN	IXPA	7	10240	0.13	0.020	0.10	
135.33	138.38	3.05	572967	HYP	IXPA	7	11580	0.13	0.019	0.14	
138.38	141.43	3.05	572968	HYP	IXPA	7	12680	0.15	0.041	0.10	
141.43	145.39	3.96	572969	HYP	IXPA	7/5	17160	0.10	0.019	0.07	
145.39	148.44	3.05	572970	HYP	IXPA	7	13160	0.10	0.024	0.14	
148.44	151.49	3.05	572971	HYP	LTXX	7	12340	0.07	0.012	0.03	
151.49	154.38	2.89	572972	HYP	LTXX	4	11460	0.05	0.003	0.10	
154.38	157.58	3.20	572973	HYP	LTXX	4	13840	0.15	0.016	0.10	
157.58	160.63	3.05	572974	HYP	LTXX	4	13500	0.09	0.012	0.07	
160.63	163.68	3.05	572975	HYP	LTXX	4	14180	0.05	0.009	0.03	
163.68	166.73	3.05	572976	HYP	LTXX	4	15760	0.04	0.009	0.07	
166.73	169.77	3.04	572977	HYP	LTXX	4	8520	0.02	0.009	<0.01	
169.77	172.82	3.05	572978	HYP	LTXX	4	15660	0.04	0.011	<0.01	
172.82	175.72	2.90	572979	HYP	LTXX	4	12440	0.02	0.009	0.03	
175.72	178.46	2.74	572980	HYP	LTXX	1	9640	0.02	0.006	<0.01	
178.46	181.20	2.74	572981	HYP	LTXX	4	10740	0.02	0.004	<0.01	
181.20	184.40	3.20	572982	HYP	LTXX	4	11060	0.02	0.006	<0.01	
184.40	188.06	3.66	572983	HYP	LTXX	4	13520	0.02	0.006	<0.01	
188.06	191.11	3.05	572984	HYP	LTXX	7	12860	0.03	0.006	<0.01	
191.11	194.16	3.05	572985	HYP	LTXX	7	13120	0.04	0.009	0.03	
194.16	195.53	1.37	572986	HYP	LTXX	1	7780	0.06	0.012	0.07	
195.53	198.12	2.59	572987	HYP	LTXX	1	11640	0.08	0.030	0.07	
198.12	200.56	2.44	572988	HYP	LTXX	4	11880	0.01	0.006	0.03	
200.56	202.69	2.13	572989	HYP	IXPA	4	10040	0.07	0.031	0.07	
202.69	205.13	2.44	572990	HYP	IXPA	7	11100	0.03	0.007	<0.01	
205.13	208.48	3.35	572991	HYP	IXPA	7	13660	0.09	0.033	0.07	
208.48	211.53	3.05	572992	HYP	IXPA	7	13880	0.09	0.076	0.03	
211.53	214.88	3.35	572993	HYP	IXPA	7/1	13760	0.07	0.032	0.07	
214.88	218.54	3.66	572994	HYP	IXPA	7/1	17320	0.13	0.061	0.14	
218.54	221.59	3.05	572995	HYP	IXPA	7/1	12880	0.14	0.060	0.14	
221.59	223.11	1.52	572996	HYP	IXPA	7/1	5200	0.22	0.039	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
223.11	226.16	3.05	572997	HYP	IXPA	7/1	13280	0.14	0.040	0.24	
226.16	227.69	1.53	572998	HYP	IXPA	7/1	7040	0.15	0.056	0.51	
227.69	230.73	3.04	572999	HYP	IXPA	7/1	12920	0.15	0.061	0.24	
230.73	233.78	3.05	573000	HYP	IXPA	7/5	15680	0.17	0.044	0.41	
233.78	237.74	3.96	573001	HYP	IXPA	7/5	18960	0.16	0.036	0.58	
237.74	239.88	2.14	573002	HYP	IXPA	7/5	10780	0.23	0.112	0.34	
239.88	242.93	3.05	573003	HYP	IXPA	7	15240	0.87	0.107	0.89	
242.93	245.97	3.04	573004	HYP	IXPA	7/5	15280	0.19	0.036	0.69	
245.97	249.02	3.05	573005	HYP	IXPA	7/5	14520	0.14	0.051	0.17	
249.02	252.07	3.05	573006	HYP	IXPA	7/5	14500	0.10	0.030	0.17	
252.07	255.12	3.05	573007	HYP	IXPA	7/1	12300	0.14	0.063	0.24	
255.12	258.17	3.05	573008	HYP	IXPA	7/1	12180	0.16	0.078	0.31	
258.17	261.21	3.04	573009	HYP	IXPA	7/1	13280	0.31	0.104	0.34	
261.21	263.65	2.44	573010	HYP	IXPA	7/1	9740	0.21	0.094	0.10	
263.65	267.31	3.66	573011	HYP	IXPA	7/1	16040	0.32	0.086	0.10	
267.31	270.36	3.05	573012	HYP	IXPA	7/1	12500	0.17	0.032	0.14	
270.36	271.88	1.52	573013	HYP	IXPA	7/1	5960	0.16	0.036	0.24	
271.88	275.39	3.51	573014	HYP	IXPA	7/1	14140	0.16	0.024	0.14	
275.39	278.89	3.50	573015	HYP	IXPA	7/1	12240	0.14	0.030	0.14	
278.89	281.63	2.74	573016	HYP	IXPA	7/1	12180	0.09	0.026	0.10	
281.63	284.68	3.05	573017	HYP	IXPA	7/1	11940	0.11	0.042	0.17	
284.68	287.73	3.05	573018	HYP	IXPA	7/1	12180	0.17	0.061	0.21	
287.73	290.78	3.05	573019	HYP	IXPA	7/1	11940	0.09	0.022	0.14	
290.78	293.22	2.44	573020	HYP	IXPA	7/1/4	8020	0.06	0.022	0.10	
293.22	296.27	3.05	573021	HYP	IXPA	7/4	12440	0.09	0.028	0.07	
296.27	299.01	2.74	573022	HYP	IXPA	7/4	11120	0.07	0.032	0.07	
299.01	300.84	1.83	573023	HYP	IXPA	7/4/1	5860	0.04	0.016	0.10	
300.84	303.89	3.05	573024	HYP	IXPA	7/4/1	12760	0.06	0.025	0.10	
303.89	306.93	3.04	573025	HYP	IXPA	7/4/1	11720	0.12	0.043	0.07	
306.93	309.98	3.05	573026	HYP	IXPA	7/4/1	11480	0.09	0.023	0.07	
309.98	313.03	3.05	573027	HYP	IXPA	7/4/1	12360	0.09	0.022	0.10	
313.03	316.08	3.05	573028	HYP	IXPA	7/4/1	12580	0.07	0.027	0.10	
316.08	319.13	3.05	573029	HYP	IXPA	7/4/1	12540	0.07	0.024	0.14	
319.13	322.17	3.04	573030	HYP	IXPA	7/4/1	11280	0.03	0.010	0.10	
322.17	325.22	3.05	573031	HYP	IXPA	7/4	12660	0.05	0.015	0.07	
325.22	327.66	2.44	573032	HYP	IXPA	7/4	9460	0.08	0.023	0.14	
327.66	330.10	2.44	573033	HYP	IXPA	7/4	10440	0.07	0.021	0.10	
330.10	333.15	3.05	573034	HYP	IXPA	7/4	14860	0.07	0.018	0.07	
333.15	336.19	3.04	573035	HYP	IXPA	7/4/1	13780	0.05	0.020	0.07	
336.19	339.39	3.20	573036	HYP	IXPA	7/4/1	12600	0.06	0.025	0.07	
339.39	341.68	2.29	573037	HYP	IXPA	7/4/1	10280	0.05	0.040	0.10	
341.68	343.51	1.83	573038	HYP	IXPA	7/4/1	7280	0.07	0.029	0.10	
343.51	346.56	3.05	573039	HYP	IXPA	7/1	12100	0.06	0.020	0.14	
346.56	349.61	3.05	573040	HYP	IXPA	7/1	11520	0.06	0.021	<0.01	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-162

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
349.61	352.65	3.04	573041	HYP	IXPA	7/1	12120	0.10	0.030	0.14	
352.65	355.70	3.05	573042	HYP	IXPA	7/4/1	12720	0.08	0.030	0.07	
355.70	358.75	3.05	573043	HYP	IXPA	7/4/1	10940	0.07	0.029	0.03	
358.75	361.80	3.05	573044	HYP	IXPA	7/4/1	11280	0.06	0.028	0.03	
361.80	364.85	3.05	573045	HYP	IXPA	7/4/1	12380	0.13	0.045	0.03	
364.85	367.89	3.04	573046	HYP	IXPA	7/4/1	12160	0.08	0.030	0.03	
367.89	370.94	3.05	573047	HYP	IXPA	7/4/1	11660	0.05	0.033	<0.01	
370.94	373.99	3.05	573048	HYP	IXPA	7/1	12920	0.06	0.025	0.07	
373.99	377.04	3.05	573049	HYP	IXPA	7/1	11760	0.03	0.027	<0.01	
377.04	380.09	3.05	573050	HYP	IXPA	7/1	12280	0.08	0.029	0.07	
380.09	383.13	3.04	573051	HYP	IXPA	7/1	11320	0.04	0.016	0.03	
383.13	386.18	3.05	573052	HYP	IXPA	7/1	10020	0.15	0.030	0.14	
386.18	389.23	3.05	573053	HYP	IXPA	7/1	9380	0.07	0.038	0.07	
389.23	391.82	2.59	573054	HYP	IXPA	7/1	8740	0.16	0.037	0.10	
391.82	394.11	2.29	573055	HYP	IXPA	7/1	6820	0.06	0.031	0.03	
394.11	397.15	3.04	573056	HYP	IXPA	7/1	10520	0.06	0.032	0.07	
397.15	399.90	2.75	573057	HYP	IXPA	7/1	11860	0.09	0.028	0.07	
399.90	403.10	3.20	573058	HYP	IXPA	7/1/5	13420	0.09	0.029	0.03	
403.10	406.15	3.05	573059	HYP	IXPA	7/1/5	13820	0.04	0.027	0.00	
406.15	407.52	1.37	573060	HYP	IXPA	7/1/5	7340	0.10	0.037	0.03	
407.52	410.57	3.05	573061	HYP	IXPA	7/5	11260	0.08	0.012	<0.01	
410.57	413.61	3.04	573062	HYP	IXPA	7	14460	0.03	0.012	0.07	
413.61	416.66	3.05	573063	HYP	IXPA	7	14340	0.04	0.009	0.07	
416.66	419.71	3.05	573064	HYP	IXPA	7	13960	0.03	0.006	<0.01	
419.71	422.76	3.05	573065	HYP	IXPA	7	13920	0.04	0.006	<0.01	
422.76	425.81	3.05	573066	HYP	IXPA	7/5	13020	0.04	0.006	<0.01	
425.81	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-163	Total Depth	320.34 m		
Northing	254,699.34	Casing Depth	5.18 m		Left In
Easting	111,298.81	Survey Data	Azimuth	Dip	Instrument
Elevation	1269.22 m	Collar			
Core Size	HQ	154.53 m	175°	-89.5°	
Drilling Started	June 8, 1993	306.93 m	150°	-89.5°	
Drilling Finished	June 13, 1993				
Logged by	J. Reeder				

Purpose/Target: Delineation drilling - east side of Casino Deposit.

Comments: Intersected breccia with a phyllic overprint, good copper mineralization in supergene.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.18	5.18		OVB							
5.18	8.22	3.04	568697	CAP	LTXH	3	9020	<0.01	0.005	0.10	
8.22	11.28	3.06	568698	CAP	LTXH	3	10020	<0.01	0.005	0.21	
11.28	14.33	3.05	568699	CAP	LTXH	3	10460	<0.01	0.005	0.14	
14.33	17.37	3.04	568700	CAP	LTXH	3	10420	<0.01	0.006	0.14	
17.37	20.42	3.05	568701	CAP	LTXH	3	10460	0.01	0.008	0.10	
20.42	23.47	3.05	568702	CAP	LTXH	3	11060	<0.01	0.006	0.10	
23.47	26.52	3.05	568703	CAP	LTXH	3	11280	<0.01	0.006	0.17	
26.52	29.57	3.05	568704	CAP	LTXH	3	11220	<0.01	0.007	0.10	
29.57	32.61	3.04	568705	CAP	LTXH	3	10920	<0.01	0.006	0.21	
32.61	35.66	3.05	568706	CAP	LTXH	3	11460	<0.01	0.007	0.17	
35.66	38.71	3.05	568707	CAP	LTXH	3	10820	<0.01	0.008	0.21	
38.71	41.76	3.05	568708	CAP	LTXH	3	11120	<0.01	0.006	0.17	
41.76	44.81	3.05	568709	CAP	LTXH	3	12020	<0.01	0.007	0.14	
44.81	47.85	3.04	568710	CAP	LTXH	3	11480	<0.01	0.006	0.17	
47.85	50.90	3.05	568711	CAP	LTXH	3	11260	0.01	0.006	0.14	
50.90	53.95	3.05	568712	CAP	LTXH	3	11920	0.01	0.008	0.07	
53.95	57.00	3.05	568713	CAP	LTXH	3	12200	<0.01	0.007	0.10	
57.00	60.05	3.05	568714	CAP	LTXH	3	11700	<0.01	0.009	0.17	
60.05	63.09	3.04	568715	CAP	LTXH	3	11400	<0.01	0.008	0.10	
63.09	66.14	3.05	568716	CAP	LTXH	3	11240	<0.01	0.008	0.07	
66.14	69.19	3.05	568717	CAP	LTXH	3	10720	<0.01	0.006	0.21	
69.19	72.24	3.05	568718	CAP	LTXH	3	10100	<0.01	0.009	0.24	
72.24	75.29	3.05	568719	CAP	LTXH	3	12200	<0.01	0.005	0.14	
75.29	78.33	3.04	568720	CAP	LTXH	3	11500	<0.01	0.009	0.62	
78.33	81.38	3.05	568721	CAP	LTXH	3	10140	<0.01	0.009	0.24	
81.38	84.43	3.05	568722	CAP	LTXH	3	10900	0.01	0.008	0.07	
84.43	87.48	3.05	568723	CAP	LTXH	3	11840	<0.01	0.006	0.10	
87.48	90.53	3.05	568724	CAP	LTXH	3	9500	<0.01	0.008	0.21	
90.53	93.57	3.04	568725	CAP	LTXH	3	10500	<0.01	0.008	0.07	
93.57	96.62	3.05	568726	SUS	LTXH	3	12380	0.06	0.004	0.10	
96.62	99.67	3.05	568727	SUS	LTXH	3,5	12420	0.05	0.005	0.10	
99.67	102.72	3.05	568728	SUS	LTXH	3,5	13260	0.08	0.011	0.10	
102.72	105.77	3.05	568729	SUS	LTXH	3,5	13860	0.03	0.005	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	568730	SUS	LTXH	3,5	11380	0.12	0.010	0.07	
108.81	111.86	3.05	568731	SUS	LTXH	3,5	12340	0.24	0.011	<0.03	
111.86	114.91	3.05	568732	SUS	LTXH	3,5	13040	0.07	0.004	0.07	
114.91	117.96	3.05	568733	SUS	LTXH	3,5	11100	0.05	0.007	0.10	
117.96	121.01	3.05	568734	SUS	LTXH	3,5	12900	0.07	0.015	0.07	
121.01	124.05	3.04	568735	SUS	LTXH	3,5	12640	0.08	0.009	0.07	
124.05	127.10	3.05	568736	SUS	LTXH	3,5	11000	0.09	0.008	0.07	
127.10	130.15	3.05	568737	SUS	LTXH	3,5	11950	0.08	0.020	<0.03	
130.15	133.20	3.05	568738	SUS	LTXH	3,5	13140	0.11	0.004	0.21	
133.20	136.25	3.05	568739	SUS	LTXH	3,5	10840	0.09	0.005	0.07	
136.25	139.29	3.04	568740	SUS	LTXH	3,5	12680	0.05	0.008	0.07	
139.29	142.34	3.05	568741	SUS	LTXH	3,5	10920	0.06	0.007	0.07	
142.34	145.39	3.05	568742	HYP	LTXH	3,5	14220	0.01	0.006	0.07	
145.39	148.44	3.05	568743	HYP	LTXH	3,5	12540	0.01	0.009	0.03	
148.44	151.49	3.05	568744	HYP	LTXH	3,5	12480	0.07	0.007	0.07	
151.49	154.53	3.04	568745	HYP	LTXH	3,5	13300	0.02	0.003	0.07	
154.53	157.58	3.05	568746	HYP	LTXH	3,5	11580	0.18	0.006	0.48	
157.58	160.63	3.05	568747	HYP	LTXH	3,5	12700	0.06	0.012	0.07	
160.63	163.67	3.04	568748	HYP	LTXH	3,5	12150	0.03	0.003	0.10	
163.67	166.73	3.06	568749	HYP	LTXH	3,5	13860	0.01	0.004	0.03	
166.73	169.77	3.04	568750	HYP	LTXH	3,5	12760	0.25	0.003	<0.03	
169.77	172.82	3.05	568751	HYP	LTXH	3,5	12450	0.02	0.004	0.07	
172.82	175.87	3.05	568752	HYP	LTXH	3,5	13340	0.06	0.003	0.10	
175.87	178.92	3.05	568753	HYP	LTXH	3,5	13540	0.05	0.005	0.07	
178.92	181.97	3.05	568754	HYP	LTXH	3,5	12960	0.05	0.006	0.07	
181.97	185.01	3.04	568755	HYP	LTXH	3,5	13480	0.14	0.006	0.17	
185.01	188.06	3.05	568756	HYP	LTXH	3,5	13930	0.09	0.004	0.14	
188.06	191.11	3.05	568757	HYP	LTXH	3,5	13100	0.09	0.006	0.07	
191.11	194.16	3.05	568758	HYP	LTXH	3,5	13260	0.08	0.006	0.14	
194.16	197.21	3.05	568759	HYP	LTXH	3,5	13880	0.04	0.003	0.17	
197.21	200.25	3.04	568760	HYP	LTXH	3,5	13700	0.10	0.014	0.21	
200.25	203.30	3.05	568761	HYP	LTXH	3,5	13090	0.11	0.010	0.21	
203.30	206.35	3.05	568762	HYP	LTXH	3,5	12450	0.12	0.010	0.31	
206.35	209.40	3.05	568763	HYP	LTXH	3,5	13300	0.06	0.005	0.14	
209.40	212.45	3.05	568764	HYP	LTXH	3,5	13080	0.04	0.003	0.07	
212.45	215.49	3.04	568765	HYP	LTXH	3,5	12900	0.02	0.003	<0.03	
215.49	218.54	3.05	568766	HYP	LTXH	3,5	13200	0.02	0.004	<0.03	
218.54	221.59	3.05	568767	HYP	LTXH	3,5	12680	0.03	0.017	0.14	
221.59	224.64	3.05	568768	HYP	LTXH	3,5	12840	0.02	0.012	0.07	
224.64	227.69	3.05	568769	HYP	LTXH	3,5	13720	0.11	0.037	0.14	
227.69	230.73	3.04	568770	HYP	LTXH	5	12060	0.01	0.006	0.14	
230.73	233.78	3.05	568771	HYP	LTXH	5	13080	0.01	0.002	0.14	
233.78	236.83	3.05	568772	HYP	LTXH	5	12720	0.01	0.004	0.03	
236.83	239.88	3.05	568773	HYP	LTXH	5	13720	0.01	0.004	0.10	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	568774	HYP	LTXH	5	12300	0.03	0.005	0.10	
242.93	245.97	3.04	568775	HYP	LTXH	5	13160	0.03	0.002	0.14	
245.97	249.02	3.05	568776	HYP	LTXH	5	13000	0.03	0.003	0.17	
249.02	252.06	3.04	568777	HYP	LTXH	5	12260	0.03	0.001	0.21	
252.06	255.12	3.06	568778	HYP	LTXH	5	12200	0.05	0.003	0.24	
255.12	258.17	3.05	568779	HYP	LTXH	5	12760	0.05	0.012	0.17	
258.17	261.21	3.04	568780	HYP	LTXH	5	14480	0.05	0.002	0.14	
261.21	264.26	3.05	568781	HYP	LTXH	5	13640	0.03	0.002	0.10	
264.26	267.31	3.05	568782	HYP	LTXH	5	12420	0.03	0.001	0.27	
267.31	270.36	3.05	568783	HYP	LTDE	5,7	13420	0.02	0.001	0.17	
270.36	273.41	3.05	568784	HYP	LTDC	5,7	12780	0.02	0.001	0.31	
273.41	276.45	3.04	568785	HYP	LTDC	5,7	13420	0.05	0.001	0.31	
276.45	279.50	3.05	568786	HYP	LTDC	5,7	12500	0.04	0.001	0.21	
279.50	282.54	3.04	568787	HYP	LTDC	5,7	13000	0.03	0.001	0.10	
282.54	285.60	3.06	568788	HYP	LTXH	5,7	13660	0.06	0.002	0.03	
285.60	288.65	3.05	568789	HYP	LTXH	5,7	13460	0.03	0.002	0.03	
288.65	291.69	3.04	568790	HYP	LTXH	5,7	13200	0.06	0.001	0.07	
291.69	294.74	3.05	568791	HYP	LTXH	5,7	13720	0.02	0.002	0.03	
294.74	297.79	3.05	568792	HYP	LTXH	5,7	13960	0.04	0.007	0.10	
297.79	300.84	3.05	568793	HYP	LTXH	5,7	14160	0.04	0.007	0.07	
300.84	303.89	3.05	568794	HYP	LTXH	5,7	13680	0.03	0.002	0.10	
303.89	306.93	3.04	568795	HYP	LTDC	5,7	13760	0.02	0.001	0.07	
306.93	309.98	3.05	568796	HYP	LTDC	5,7	12460	0.02	0.001	<0.03	
309.98	313.03	3.05	568797	HYP	LTXH	5,7	12720	0.03	0.002	0.03	
313.03	316.08	3.05	568798	HYP	LTXH	5,7	12160	0.04	0.003	0.07	
316.08	320.34	4.26	568799	HYP	LTXH	5,7	17260	0.05	0.002	0.03	
320.34	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-164	Total Depth	795.53 m		
Northing	254,872.02	Casing Depth	4.57 m		Left Out
Easting	111,272.02	Survey Data	Azimuth	Dip	Instrument
Elevation	1283.17 m	Collar			
Core Size	HQ	304.8 m	065°	-89.4°	Sperry Sun
Drilling Started	June 12, 1993	457.2 m	094°	-88.2°	Sperry Sun
Drilling Finished	July 5, 1993	609.6 m	075°	-88.1°	Sperry Sun
Logged by	C. DeLong	795.5 m	067°	-88.0°	Sperry Sun

Purpose/Target: Infill drilling to test continuity of mineralization.

Comments: Fairly continuous, moderate to good mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	7.68	7.68		OVB							
7.68	11.58	3.90	574501	CAP	MBFW	7/5	13680	0.13	0.053	0.72	
11.58	14.63	3.05	574502	CAP	MBFW	7/5	10940	0.47	0.050	0.82	
14.63	16.76	2.13	574503	SOX	MBFW	7/5	8040	0.29	0.053	0.41	
16.76	19.81	3.05	574504	SOX	MBFW	7/5	11320	0.26	0.034	0.34	
19.81	21.34	1.53	574505	SOX	MBFW	7/5	6200	0.21	0.040	0.75	
21.34	24.38	3.04	574506	SOX	MBNX	7/5	11180	1.01	0.049	0.79	
24.38	27.43	3.05	574507	SOX	MBNX	7/5	11360	0.13	0.108	0.58	
27.43	30.48	3.05	574508	SOX	MBNX	7/5	11160	0.11	0.076	0.79	
30.48	33.53	3.05	574509	SOX	MBNX	7/5	10800	0.33	0.062	0.79	
33.53	36.58	3.05	574510	SOX	MBNX	7/5	13000	0.87	0.039	0.86	
36.58	39.62	3.04	574511	SOX	MBNX	7/5	11580	0.46	0.055	1.23	
39.62	42.67	3.05	574512	SOX	MBNX	7/5	12020	0.84	0.068	0.86	
42.67	45.72	3.05	574513	SOX	MBNX	7/5	12220	0.60	0.042	0.99	
45.72	48.77	3.05	574514	SOX	MBNX	7/5	10560	0.42	0.042	0.62	
48.77	51.82	3.05	574515	SOX	MBNX	7/5	11460	0.29	0.075	0.75	
51.82	54.86	3.04	574516	SOX	MBNX	7/5	8180	0.07	0.048	0.38	
54.86	57.91	3.05	574517	CAP	MBNX	7/5	5600	0.08	0.065	0.34	
57.91	60.96	3.05	574518	CAP	MBNX	7/5	9560	0.08	0.054	0.38	
60.96	64.01	3.05	574519	CAP	MBNX	7/5	11000	0.07	0.042	0.24	
64.01	66.14	2.13	574520	CAP	MBNX	7/5	7620	0.05	0.044	0.45	
66.14	69.19	3.05	574521	CAP	MBNX	7/5	10900	0.06	0.046	0.17	
69.19	73.15	3.96	574522	CAP	MBNX	7/5	14600	0.05	0.051	0.58	
73.15	76.05	2.90	574523	CAP	MBNX	7/5	8420	0.05	0.069	0.58	
76.05	78.33	2.28	574524	CAP	MBNX	7/5	8240	0.04	0.056	0.62	
78.33	79.86	1.53	574525	CAP	MBNX	7/5	5100	0.06	0.086	0.58	
79.86	82.30	2.44	574526	CAP	MBNX	7/5	7640	0.11	0.063	0.58	
82.30	83.82	1.52	574527	CAP	MBNX	7/5	5440	0.07	0.052	0.51	
83.82	86.87	3.05	574528	CAP	MBNX	7/5	8740	0.08	0.104	0.58	
86.87	90.83	3.96	574529	SOX	MBNX	7/5	12300	0.11	0.109	0.41	
90.83	94.49	3.66	574530	SOX	MBNX	7/5	14660	0.35	0.057	0.69	
94.49	97.54	3.05	574531	SOX	MBNX	7/5	10840	0.46	0.097	0.86	
97.54	100.58	3.04	574532	TRN	MBNX	7/5	11760	0.33	0.035	0.45	
100.58	103.63	3.05	574533	TRN	MBNX	7/5	11960	0.25	0.036	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
103.63	106.38	2.75	574534	SUS	MBNX	7/5	8520	0.33	0.032	0.51	
106.38	109.42	3.04	574535	SUS	MBNX	7/5	11660	0.09	0.030	0.21	
109.42	112.62	3.20	574536	SUS	MBNX	7/5	11800	0.13	0.042	0.17	
112.62	115.67	3.05	574537	SUS	MBNX	7/5	11620	0.35	0.066	0.38	
115.67	118.87	3.20	574538	SUS	MBNX	7/5	11980	0.38	0.049	0.45	
118.87	121.92	3.05	574539	SUS	MBNX	7/5	11940	0.33	0.045	0.38	
121.92	124.97	3.05	574540	SUS	MBNX	7/5	11940	0.34	0.018	0.21	
124.97	128.02	3.05	574541	SUS	MBNX	7/5	11540	0.46	0.054	0.41	
128.02	131.06	3.04	574542	SUS	MBNX	7/5	10400	0.36	0.040	0.27	
131.06	133.81	2.75	574543	SUS	MBNX	7/5	8840	0.43	0.031	0.24	
133.81	135.64	1.83	574544	SUS	MBNX	7/5	7020	0.54	0.059	0.21	
135.64	138.68	3.04	574545	SUS	MBNX	7/5	9640	0.40	0.024	0.21	
138.68	142.04	3.36	574546	SUS	MBNX	7/5	10320	0.41	0.025	0.21	
142.04	144.78	2.74	574547	SUS	MBNX	7/5	7840	0.46	0.056	0.24	
144.78	147.83	3.05	574548	SUS	MBNX	7/5	9940	0.53	0.101	0.31	
147.83	150.88	3.05	574549	SUS	MBNX	7/5	10200	0.27	0.051	0.27	
150.88	153.01	2.13	574550	SUS	MBNX	7/5	6640	0.38	0.027	0.41	
153.01	155.45	2.44	574551	SUS	MBNX	7/5	9740	0.33	0.030	0.41	
155.45	158.50	3.05	574552	SUS	MBNX	7/5	10880	0.28	0.065	0.38	
158.50	161.24	2.74	574553	SUS	MBNX	7/5	8780	0.38	0.031	0.27	
161.24	163.07	1.83	574554	SUS	MBNX	7/5	6220	0.40	0.110	0.14	
163.07	166.12	3.05	574555	SUS	MBNX	7/5	11480	0.35	0.047	0.24	
166.12	167.64	1.52	574556	SUS	MBNX	7/5	5540	0.31	0.061	0.24	
167.64	170.69	3.05	574557	SUS	MBNX	7/5	9860	0.44	0.100	0.31	
170.69	173.74	3.05	574558	SUS	MBNX	7/5	9680	0.48	0.160	0.41	
173.74	176.78	3.04	574559	SUS	MBNX	7/5	11580	0.27	0.032	0.34	
176.78	180.29	3.51	574560	SUS	MBNX	7/5	10060	0.53	0.059	0.31	
180.29	182.88	2.59	574561	SUS	MBNX	7/5	8500	0.31	0.047	0.21	
182.88	185.32	2.44	574562	SUS	MBNX	7/5	6940	0.26	0.042	0.21	
185.32	188.67	3.35	574563	SUS	MBNX	7/5	11620	0.32	0.113	0.24	
188.67	192.02	3.35	574564	SUS	MBNX	7/5	7100	0.31	0.051	0.24	
192.02	194.16	2.14	574565	SUS	MBNX	7/5	6740	0.26	0.071	0.41	
194.16	196.29	2.13	574566	SUS	MBNX	7/5	6760	0.35	0.029	0.34	
196.29	199.34	3.05	574567	SUS	LTXH	7/5	12700	0.40	0.036	0.45	
199.34	201.17	1.83	574568	SUS	MBNX	7/5	8240	0.41	0.040	0.58	
201.17	204.22	3.05	574569	SUS	MBNX	7/5	10860	0.32	0.039	0.27	
204.22	205.44	1.22	574570	TRN	MBNX	7/5	4600	0.37	0.059	0.24	
205.44	208.48	3.04	574571	TRN	MBNX	7/5	12960	0.25	0.032	0.24	
208.48	211.53	3.05	574572	TRN	MBNX	7/5	12380	0.36	0.185	0.24	
211.53	214.58	3.05	574573	HYP	MBNX	7/5	12880	0.14	0.051	0.14	
214.58	216.41	1.83	574574	HYP	MBNX	7/5	7520	0.22	0.043	0.24	
216.41	219.46	3.05	574575	HYP	MBNX	7/5	11820	0.22	0.054	0.17	
219.46	222.50	3.04	574576	HYP	MBNX	7/5	12280	0.42	0.077	0.48	
222.50	225.55	3.05	574577	HYP	MBNX	7/5	13160	0.22	0.044	0.27	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
225.55	228.60	3.05	574578	HYP	MBNX	7/5	14360	0.30	0.051	0.38	
228.60	231.65	3.05	574579	HYP	MBFH	7/5	13280	0.42	0.068	0.34	
231.65	234.70	3.05	574580	HYP	MBFH	7/5	14400	0.27	0.033	0.34	
234.70	237.74	3.04	574581	HYP	MBFH	7/5	12320	0.51	0.057	0.69	
237.74	240.18	2.44	574582	HYP	MBNX	7/5	9620	0.22	0.078	0.24	
240.18	242.93	2.75	574583	HYP	MBNX	7/5	9660	0.26	0.089	0.17	
242.93	245.97	3.04	574584	HYP	MBFH	7/5	13260	0.17	0.030	0.10	
245.97	249.94	3.97	574585	HYP	MBNX	7/5	16000	0.22	0.041	0.24	
249.94	252.98	3.04	574586	HYP	MBFH	7/5	13360	0.31	0.041	0.38	
252.98	255.42	2.44	574587	HYP	MBNX	7/5	6420	0.47	0.038	0.41	
255.42	259.08	3.66	574588	HYP	MBFH	7/5	12560	0.36	0.041	0.45	
259.08	262.74	3.66	574589	HYP	MBFH	7/5	16000	0.42	0.042	0.58	
262.74	264.87	2.13	574590	HYP	MBFH	7/5	7180	0.38	0.033	0.75	
264.87	268.07	3.20	574591	HYP	MBNX	7/5	12680	0.45	0.033	0.55	
268.07	271.12	3.05	574592	HYP	LTXD	7/5	12700	0.42	0.053	0.55	
271.12	273.41	2.29	574593	HYP	MBFH	7/5	9240	0.29	0.069	0.34	
273.41	276.45	3.04	574594	HYP	MBFH	7/5	12800	0.32	0.044	0.48	
276.45	279.65	3.20	574595	HYP	MBFH	7/5	12980	0.30	0.014	0.45	
279.65	282.70	3.05	574596	HYP	MBFH	7/5	12940	0.30	0.155	0.45	
282.70	285.90	3.20	574597	HYP	MBFH	7/5	13500	0.29	0.160	0.48	
285.90	288.95	3.05	574598	HYP	MBFH	7/5	12800	0.28	0.129	0.34	
288.95	292.00	3.05	574599	HYP	MBCH	7/5	12560	0.31	0.104	0.45	
292.00	295.20	3.20	574600	HYP	MBCH	7/5	13000	0.27	0.106	0.38	
295.20	298.25	3.05	574601	HYP	MBCH	7/5	13580	0.22	0.253	0.45	
298.25	301.45	3.20	574602	HYP	MBCH	7/5	12840	0.13	0.046	0.17	
301.45	304.65	3.20	574603	HYP	MBCH	7/3	13040	0.22	0.046	0.34	
304.65	307.85	3.20	574604	HYP	PPDD	7/3	12540	0.21	0.050	0.24	
307.85	310.90	3.05	574605	HYP	PPDD	7/3	12020	0.35	0.051	0.38	
310.90	313.94	3.04	574606	HYP	PPDD	7/3	13640	0.27	0.038	0.38	
313.94	316.99	3.05	574607	HYP	PPDD	7/3	12960	0.21	0.013	0.31	
316.99	320.04	3.05	574608	HYP	PPDD	7/3	13540	0.28	0.035	0.31	
320.04	323.09	3.05	574609	HYP	PPDD	7/3	14640	0.25	0.033	0.21	
323.09	326.14	3.05	574610	HYP	PPDK	7/3	13500	0.23	0.027	0.75	
326.14	329.18	3.04	574611	HYP	PPDK	7/3	12660	0.30	0.074	0.51	
329.18	332.23	3.05	574612	HYP	MBFH	7	11480	0.25	0.095	0.34	
332.23	335.28	3.05	574613	HYP	MBFH	7	12840	0.20	0.136	0.31	
335.28	338.33	3.05	574614	HYP	MBFH	7	13000	0.19	0.187	0.34	
338.33	341.38	3.05	574615	HYP	MBFH	7	12540	0.20	0.110	0.24	
341.38	344.43	3.05	574616	HYP	MBFH	7	12040	0.26	0.093	0.31	
344.43	347.47	3.04	574617	HYP	MBFH	7	12960	0.22	0.213	0.27	
347.47	350.52	3.05	574618	HYP	MBFH	7	13780	0.26	0.036	0.38	
350.52	353.57	3.05	574619	HYP	MBCH	7	12900	0.21	0.089	0.21	
353.57	356.62	3.05	574620	HYP	MBCH	7	12740	0.20	0.078	0.21	
356.62	359.66	3.04	574621	HYP	MBCH	7	13240	0.26	0.076	0.24	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
359.66	362.71	3.05	574622	HYP	MBCH	7	12580	0.37	0.093	0.51	
362.71	365.76	3.05	574623	HYP	MBCH	7	13220	0.32	0.068	0.38	
365.76	368.81	3.05	574624	HYP	MBCH	5	12720	0.18	0.103	0.27	
368.81	371.86	3.05	574625	HYP	MBCH	7	12640	0.17	0.112	0.14	
371.86	374.90	3.04	574626	HYP	MBCH	7	12240	0.18	0.052	0.17	
374.90	377.95	3.05	574627	HYP	MBCH	7	11680	0.10	0.042	0.14	
377.95	381.00	3.05	574628	HYP	MBCH	7	13580	0.29	0.069	0.45	
381.00	384.05	3.05	574629	HYP	MBCH	7/4	12200	0.19	0.029	0.21	
384.05	387.10	3.05	574630	HYP	MBCH	7/4	12500	0.26	0.077	0.38	
387.10	390.14	3.04	574631	HYP	MBCH	7/4	12660	0.21	0.061	0.27	
390.14	393.19	3.05	574632	HYP	MBCH	7/4	11940	0.28	0.060	0.38	
393.19	396.24	3.05	574633	HYP	MBCH	7/4	12840	0.29	0.065	0.38	
396.24	399.29	3.05	574634	HYP	MBCH	4/7	12680	0.29	0.071	0.41	
399.29	402.34	3.05	574635	HYP	MBCH	4/7	12460	0.37	0.048	0.41	
402.34	405.38	3.04	574636	HYP	MBCH	4/7	12920	0.40	0.072	0.58	
405.38	408.43	3.05	574637	HYP	MBCH	4/7	13020	0.22	0.079	0.27	
408.43	411.48	3.05	574638	HYP	MBCH	4/7	11500	0.24	0.052	0.17	
411.48	414.53	3.05	574639	HYP	MBCH	4/7	12600	0.31	0.050	0.27	
414.53	417.58	3.05	574640	HYP	MBCH	4/7	11700	0.28	0.371	0.31	
417.58	420.64	3.06	574641	HYP	MBCH	7	12120	0.31	0.140	0.34	
420.64	423.67	3.03	574642	HYP	MBCH	7	13020	0.35	0.072	0.45	
423.67	426.72	3.05	574643	HYP	MBCH	7/4	13360	0.32	0.045	0.31	
426.72	429.77	3.05	574644	HYP	MBCH	7/5	14120	0.32	0.158	0.38	
429.77	432.82	3.05	574645	HYP	MBCH	7/3	13440	0.25	0.087	0.27	
432.82	435.86	3.04	574646	HYP	MBCH	7	12480	0.26	0.081	0.24	
435.86	438.91	3.05	574647	HYP	MBCH	7	13460	0.26	0.126	0.31	
438.91	441.96	3.05	574648	HYP	MBCH	7	12660	0.32	0.090	0.34	
441.96	445.01	3.05	574649	HYP	MBCH	7	12560	0.40	0.084	0.48	
445.01	448.06	3.05	574650	HYP	MBCH	7	12520	0.23	0.074	0.27	
448.06	451.10	3.04	574651	HYP	MBCH	7	13120	0.33	0.089	0.34	
451.10	454.15	3.05	574652	HYP	MBCH	7	12620	0.30	0.047	0.31	
454.15	457.20	3.05	574653	HYP	PPDK	7	13280	0.31	0.046	0.38	
457.20	460.25	3.05	574654	HYP	PPDK	7	12720	0.22	0.021	0.21	
460.25	463.30	3.05	574655	HYP	PPDK	7	12860	0.15	0.023	0.10	
463.30	466.34	3.04	574656	HYP	PPDK	7	11480	0.25	0.063	0.21	
466.34	469.39	3.05	574657	HYP	PPDK	7	12100	0.23	0.085	0.21	
469.39	472.44	3.05	574658	HYP	PPDK	7	11420	0.24	0.057	0.24	
472.44	475.49	3.05	574659	HYP	PPDK	7	11360	0.32	0.058	0.34	
475.49	478.54	3.05	574660	HYP	PPDK	7	11740	0.16	0.051	0.17	
478.54	481.58	3.04	574661	HYP	PPDK	7	11760	0.19	0.037	0.21	
481.58	484.63	3.05	574662	HYP	PPDK	7	11620	0.27	0.047	0.17	
484.63	487.68	3.05	574663	HYP	PPDK	7	11520	0.26	0.061	0.34	
487.68	490.73	3.05	574664	HYP	PPDK	7	11740	0.28	0.050	0.34	
490.73	493.78	3.05	574665	HYP	PPDK	7	11320	0.32	0.085	0.45	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
493.78	496.82	3.04	574666	HYP	PPDK	7	10820	0.22	0.055	0.14	
496.82	499.87	3.05	574667	HYP	PPDK	7	12290	0.30	0.046	0.31	
499.87	502.92	3.05	574668	HYP	PPDK	7	13260	0.27	0.034	0.27	
502.92	505.97	3.05	574669	HYP	PPDK	7	11120	0.24	0.031	0.21	
505.97	509.02	3.05	574670	HYP	PPDK	7	12220	0.29	0.057	0.31	
509.02	512.06	3.04	574671	HYP	PPDK	7	12140	0.27	0.034	0.24	
512.06	515.11	3.05	574672	HYP	PPDK	7	12220	0.27	0.041	0.27	
515.11	517.86	2.75	574673	HYP	PPDK	7	10680	0.23	0.100	0.21	
517.86	520.90	3.04	574674	HYP	PPDK	7	10940	0.12	0.097	0.14	
520.90	523.95	3.05	574675	HYP	PPDK	7	10720	0.24	0.064	0.41	
523.95	527.00	3.05	574676	HYP	PPDK	7	10600	0.25	0.116	0.27	
527.00	530.23	3.23	574677	HYP	PPDK	7	12420	0.32	0.084	0.27	
530.23	533.40	3.17	574678	HYP	PPDK	7	12960	0.28	0.057	0.17	
533.40	536.45	3.05	574679	HYP	PPDK	7	12480	0.29	0.113	0.38	
536.45	539.50	3.05	574680	HYP	PPDK	7	13080	0.20	0.095	0.21	
539.50	542.54	3.04	574681	HYP	PPDK	7	10060	0.16	0.129	0.17	
542.54	545.60	3.06	574682	HYP	PPDK	7	10500	0.28	0.074	0.24	
545.60	548.64	3.04	574683	HYP	PPDK	7	12120	0.29	0.041	0.34	
548.64	551.69	3.05	574684	HYP	PPDK	7	11740	0.18	0.068	0.31	
551.69	554.74	3.05	574685	HYP	PPDK	7	12000	0.27	0.080	0.27	
554.74	557.78	3.04	574686	HYP	PPDK	7	11660	0.30	0.061	0.31	
557.78	560.83	3.05	574687	HYP	PPDK	7	12580	0.23	0.079	0.24	
560.83	563.88	3.05	574688	HYP	PPDK	7	12800	0.26	0.045	0.24	
563.88	566.93	3.05	574689	HYP	PPDK	7	13060	0.21	0.064	0.17	
566.93	569.98	3.05	574690	HYP	PPDK	7	13180	0.19	0.060	0.24	
569.98	573.02	3.04	574691	HYP	PPDK	7	13420	0.21	0.082	0.27	
573.02	576.07	3.05	574692	HYP	PPDK	7	12420	0.21	0.089	0.38	
576.07	579.12	3.05	574693	HYP	PPDK	7	12060	0.56	0.057	0.34	
579.12	582.17	3.05	574694	HYP	PPDK	7	11540	0.35	0.048	0.38	
582.17	585.22	3.05	574695	HYP	PPDK	7/6	13520	0.14	0.094	0.14	
585.22	588.26	3.04	574696	HYP	PPDK	7/6	12720	0.21	0.065	0.27	
588.26	591.31	3.05	574697	HYP	PPDK	7/6	13260	0.21	0.122	0.24	
591.31	594.36	3.05	574698	HYP	PPDK	7/6	12480	0.18	0.066	0.27	
594.36	597.41	3.05	574699	HYP	PPDK	7/6	12600	0.21	0.099	0.27	
597.41	600.46	3.05	574700	HYP	PPDK	7/6	12300	0.20	0.177	0.24	
600.46	603.50	3.04	574701	HYP	PPDK	7/6	11780	0.42	0.101	0.41	
603.50	606.55	3.05	574702	HYP	PPDK	7/6	13240	0.23	0.063	0.31	
606.55	609.60	3.05	574703	HYP	PPDK	7/6	13220	0.26	0.089	0.41	
609.60	612.65	3.05	574704	HYP	PPDK	7/6	13020	0.29	0.067	0.45	
612.65	615.70	3.05	574705	HYP	PPDK	7/6	12460	0.22	0.133	0.27	
615.70	618.74	3.04	574706	HYP	PPDK	7/6	12860	0.28	0.076	0.41	
618.74	621.79	3.05	574707	HYP	PPDK	7/6	11540	0.15	0.092	0.24	
621.79	624.84	3.05	574708	HYP	PPDK	7/6	8840	0.21	0.078	0.24	
624.84	627.89	3.05	574709	HYP	PPDK	7/6	13340	0.21	0.081	0.24	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
627.89	630.94	3.05	574710	HYP	PPDK	7/6	13500	0.22	0.062	0.21	
630.94	633.98	3.04	574711	HYP	PPDK	7/6	12500	0.38	0.062	0.31	
633.98	637.03	3.05	574712	HYP	MBFH	7/6	13460	0.38	0.031	0.79	
637.03	640.08	3.05	574713	HYP	MBFH	7/6	13240	0.34	0.046	0.38	
640.08	643.13	3.05	574714	HYP	MBFH	7/6	12860	0.29	0.051	0.34	
643.13	646.18	3.05	574715	HYP	MBFH	7/6	12360	0.42	0.047	0.75	
646.18	649.22	3.04	574716	HYP	MBFH	7/6	12340	0.50	0.039	0.45	
649.22	652.27	3.05	574717	HYP	MBFH	7/6	13220	0.47	0.050	0.72	
652.27	655.32	3.05	574718	HYP	MBFH	7/6	12140	0.44	0.047	0.65	
655.32	658.39	3.07	574719	HYP	MBFH	7/6	12900	0.65	0.036	0.51	
658.39	661.42	3.03	574720	HYP	MBFH	7/6	12340	0.50	0.059	0.45	
661.42	664.46	3.04	574721	HYP	MBFH	7/6	12660	0.53	0.036	0.48	
664.46	667.51	3.05	574722	HYP	MBFH	7/6	12580	0.64	0.122	0.62	
667.51	670.56	3.05	574723	HYP	MBFH	7/6	12380	0.46	0.087	0.55	
670.56	673.61	3.05	574724	HYP	MBFH	7/6	11320	0.41	0.150	0.41	
673.61	676.66	3.05	574725	HYP	MBFH	7/6	11840	0.42	0.057	0.38	
676.66	679.70	3.04	574726	HYP	MBFH	7/6	12540	0.34	0.047	0.31	
679.70	682.75	3.05	574727	HYP	MBFH	7/6	12560	0.44	0.035	0.48	
682.75	685.80	3.05	574728	HYP	MBFH	7/6	12820	0.41	0.024	0.27	
685.80	688.85	3.05	574729	HYP	MBFH	7/6	9760	0.39	0.033	0.38	
688.85	691.90	3.05	574730	HYP	MBFH	7/6	11540	0.39	0.047	0.41	
691.90	694.94	3.04	574731	HYP	MBFH	7/6	8920	0.38	0.044	0.51	
694.94	697.99	3.05	574732	HYP	MBFH	7/6	8440	0.39	0.033	0.48	
697.99	701.04	3.05	574733	HYP	MBFH	7/6	11200	0.52	0.061	0.41	
701.04	704.09	3.05	574734	HYP	MBFH	7/6	12900	0.52	0.034	0.45	
704.09	707.14	3.05	574735	HYP	MBFH	7/6	13260	0.45	0.096	0.41	
707.14	710.18	3.04	574736	HYP	MBFH	7/6	9220	0.36	0.127	0.24	
710.18	713.23	3.05	574737	HYP	MBFH	7/6	5960	0.29	0.042	0.21	
713.23	716.28	3.05	574738	HYP	MBCH	7/6	6780	0.35	0.033	0.38	
716.28	719.33	3.05	574739	HYP	MBCH	7/6	6540	0.49	0.041	0.45	
719.33	722.38	3.05	574740	HYP	MBCH	7/6	7160	0.37	0.046	0.21	
722.38	725.42	3.04	574741	HYP	MBCH	7/6	7560	0.14	0.017	0.21	
725.42	728.47	3.05	574742	HYP	MBCW	7/6	7540	0.25	0.016	0.21	
728.47	731.52	3.05	574743	HYP	MBCW	7/6	7260	0.37	0.038	0.34	
731.52	734.57	3.05	574744	HYP	MBCW	7/6	7020	0.40	0.042	0.72	
734.57	737.62	3.05	574745	HYP	MBCW	7/6	6780	0.28	0.062	0.34	
737.62	740.66	3.04	574746	HYP	MBCW	7/6	6740	2.01	0.146	1.99	
740.66	743.71	3.05	574747	HYP	MBCW	7/6	7180	2.78	0.509	2.54	
743.71	746.76	3.05	574748	HYP	MBCW	7/6	6320	0.47	0.099	0.62	
746.76	749.81	3.05	574749	HYP	MBCW	7/6	6700	0.40	0.049	0.34	
749.81	752.86	3.05	574750	HYP	MBFH	7/6	5740	0.26	0.042	0.17	
752.86	755.90	3.04	574751	HYP	MBFH	7/6	7480	0.27	0.086	0.21	
755.90	758.95	3.05	574752	HYP	MBFH	7/6	6080	0.35	0.039	0.24	
758.95	762.00	3.05	574753	HYP	MBFH	7/6	6320	0.28	0.104	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
762.00	765.05	3.05	574754	HYP	MBFH	7/6	7460	0.33	0.027	0.38	
765.05	768.10	3.05	574755	HYP	MBFH	7/6	6940	0.34	0.019	0.34	
768.10	771.14	3.04	574756	HYP	MBFH	7/6	6740	0.30	0.080	0.31	
771.14	774.19	3.05	574757	HYP	MBCH	7/6	6720	0.30	0.036	0.31	
774.19	777.24	3.05	574758	HYP	MBCH	7	7180	0.48	0.030	0.55	
777.24	780.29	3.05	574759	HYP	MBCH	7	7160	0.21	0.040	0.34	
780.29	783.33	3.04	574760	HYP	MBCH	7	6920	0.25	0.037	0.31	
783.33	786.38	3.05	574761	HYP	MBCH	7	6840	0.40	0.021	0.45	
786.38	789.43	3.05	574762	HYP	MBCH	7	7040	0.47	0.055	0.58	
789.43	792.48	3.05	574763	HYP	MBCH	7	7340	0.41	0.025	0.38	
792.48	795.53	3.05	574764	HYP	MBCH	7	6620	0.25	0.050	0.31	
795.53	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-165	Total Depth	468.48 m		
Northing	254,399.14	Casing Depth	3.05 m		Left In
Easting	111,099.47	Survey Data	Azimuth	Dip	Instrument
Elevation	1372.98 m	Collar			
Core Size	HQ	152.4 m	230°	-89.25°	
Drilling Started	June 14, 1993				
Drilling Finished	June 22, 1993				
Logged by	J. Reeder/T. Case				

Purpose/Target: Delineation drilling of the southern extension of the Casino Deposit.

Comments: Intersected low to moderate Cu mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	5.18	2.13	568800	CAP	WRGX	3	3160	<0.01	0.001	0.07	
5.18	7.92	2.74	568801	CAP	WRGX	3	9600	<0.01	0.001	0.14	
7.92	10.97	3.05	568802	CAP	WRGX	3	9040	<0.01	<0.001	0.17	
10.97	14.02	3.05	568803	CAP	WRGX	3	10460	<0.01	<0.001	0.21	
14.02	17.07	3.05	568804	CAP	WRGX	3	9500	<0.01	0.001	0.21	
17.07	19.81	2.74	568805	CAP	WRGX	3	8700	<0.01	0.001	0.27	
19.81	22.25	2.44	568806	CAP	WRGX	3	8080	<0.01	<0.001	0.27	
22.25	25.30	3.05	568807	CAP	WRGX	3	9340	<0.01	<0.001	0.17	
25.30	28.96	3.66	568808	CAP	WRGX	3	10560	<0.01	0.001	0.17	
28.96	31.09	2.13	568809	CAP	WRGX	3	7300	<0.01	0.001	0.34	
31.09	34.13	3.04	568810	CAP	WRGX	3	10400	<0.01	0.002	0.34	
34.13	38.10	3.97	568811	CAP	WRGX	3	9040	<0.01	0.001	0.10	
38.10	39.93	1.83	568812	CAP	WRGX	3	5200	<0.01	0.001	0.14	
39.93	41.76	1.83	568813	CAP	WRGX	3	5620	<0.01	0.001	0.31	
41.76	44.81	3.05	568814	CAP	WRGX	3	9800	<0.01	0.001	0.21	
44.81	47.85	3.04	568815	CAP	WRGX	3	10700	<0.01	0.002	0.21	
47.85	50.90	3.05	568816	CAP	WRGX	3	9360	<0.01	0.002	0.21	
50.90	53.95	3.05	568817	CAP	WRGX	3	9280	<0.01	0.003	0.38	
53.95	57.00	3.05	568818	CAP	WRGX	3	11060	<0.01	0.002	0.24	
57.00	60.05	3.05	568819	CAP	WRGX	3	9580	<0.01	0.002	0.41	
60.05	63.09	3.04	568820	CAP	WRGD	3	11120	<0.01	0.001	0.38	
63.09	66.14	3.05	568821	CAP	WRGD	3	11100	<0.01	0.002	0.14	
66.14	69.19	3.05	568822	CAP	WRGD	3	11260	<0.01	0.003	0.38	
69.19	72.24	3.05	568823	CAP	WRGD	3	10520	<0.01	0.007	0.38	
72.24	75.29	3.05	568824	CAP	WRGD	3	10680	<0.01	0.026	0.27	
75.29	78.33	3.04	568825	CAP	WRGY	3	9720	<0.01	0.017	0.27	
78.33	80.77	2.44	568826	CAP	WRGD	3	6300	<0.01	0.010	0.48	
80.77	84.43	3.66	568827	CAP	WRGD	3	9360	<0.01	0.010	1.20	
84.43	87.17	2.74	568828	CAP	WRGD	3	8500	<0.01	0.005	0.34	
87.17	89.31	2.14	568829	CAP	WRGD	3	6940	<0.01	0.006	0.34	
89.31	92.35	3.04	568830	CAP	WRGD	3	11160	<0.01	0.007	0.38	
92.35	94.18	1.83	568831	CAP	WRGD	3	5640	<0.01	0.006	0.31	
94.18	96.62	2.44	568832	CAP	WRGD	3	7960	<0.01	0.006	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
96.62	99.67	3.05	568833	CAP	WRGD	3	10500	<0.01	0.008	0.34	
99.67	102.72	3.05	568834	CAP	WRGD	3	9700	<0.01	0.005	0.27	
102.72	105.77	3.05	568835	CAP	WRGD	3	11680	<0.01	0.004	0.86	
105.77	108.81	3.04	568836	CAP	WRGD	3	12020	<0.01	0.007	0.62	
108.81	111.86	3.05	568837	CAP	WRGD	3	13600	<0.01	0.028	0.41	
111.86	114.91	3.05	568838	CAP	WRGD	3	10040	<0.01	0.015	0.99	
114.91	118.88	3.97	568839	CAP	WRGD	3	12500	<0.01	0.016	0.31	
118.88	121.01	2.13	568840	CAP	WRGD	3	6920	0.02	0.012	0.34	
121.01	123.75	2.74	568841	CAP	WRGD	3	8960	0.01	0.004	0.24	
123.75	127.10	3.35	568842	CAP	WRGD	3	10880	0.01	0.010	0.31	
127.10	129.84	2.74	568843	CAP	WRGD	3	8920	0.01	0.007	0.31	
129.84	132.89	3.05	568844	CAP	WRGD	3	10300	0.01	0.009	0.38	
132.89	136.25	3.36	568845	CAP	WRGD	3	12580	0.01	0.008	0.27	
136.25	139.29	3.04	568846	CAP	WRGD	3	10200	0.01	0.008	0.17	
139.29	142.34	3.05	568847	CAP	WRGD	3	9060	0.01	0.009	0.24	
142.34	145.39	3.05	568848	CAP	WRGD	3	10140	0.01	0.013	0.31	
145.39	148.44	3.05	568849	CAP	WRGD	3	9380	0.04	0.012	0.27	
148.44	151.49	3.05	568850	CAP	WRGD	3	9820	0.03	0.011	0.21	
151.49	154.53	3.04	568851	SOX	WRGD	3	10760	0.03	0.005	0.21	
154.53	157.58	3.05	568852	SOX	WRGD	3	10880	0.06	0.003	0.24	
157.58	160.63	3.05	568853	SOX	WRGD	3	9060	0.08	0.006	0.21	
160.63	163.68	3.05	568854	SOX	WRGD	3	10040	0.05	0.006	0.21	
163.68	166.73	3.05	568855	SOX	WRGD	3	10020	0.14	0.012	0.21	
166.73	169.77	3.04	568856	TRN	WRGD	3	9860	0.29	0.005	0.24	
169.77	171.91	2.14	568857	TRN	WRGD	3	7540	0.20	0.007	0.24	
171.91	174.04	2.13	568858	TRN	WRGD	3	8680	0.31	0.037	0.21	
174.04	176.78	2.74	568859	TRN	WRGD	3	6440	0.18	0.005	0.14	
176.78	178.92	2.14	568860	SUS	WRGD	3	8140	0.38	0.012	0.34	
178.92	182.58	3.66	568861	SUS	WRGD	3	11100	0.28	0.013	0.27	
182.58	184.40	1.82	568862	SUS	WRGD	3	6300	0.30	0.006	0.17	
184.40	187.45	3.05	568863	SUS	WRGD	3	10780	0.40	0.029	0.38	
187.45	190.65	3.20	568864	SUS	WRGD	3	12460	0.22	0.011	0.24	
190.65	193.85	3.20	568865	SUS	WRGD	3	12560	0.22	0.010	0.21	
193.85	196.90	3.05	568866	SUS	WRGD	3	10820	0.17	0.008	0.14	
196.90	199.95	3.05	568867	SUS	WRGD	3	12960	0.21	0.016	0.21	
199.95	203.00	3.05	568868	SUS	WRGD	3	10260	0.19	0.009	0.17	
203.00	206.04	3.04	568869	SUS	WRGD	3	10900	0.16	0.005	0.31	
206.04	209.09	3.05	568870	SUS	WRGD	3	9320	0.28	0.010	0.21	
209.09	212.14	3.05	568871	SUS	WRGD	5	11320	0.28	0.030	0.31	
212.14	215.19	3.05	568872	SUS	WRGD	5	10540	0.33	0.034	0.24	
215.19	218.24	3.05	568873	SUS	WRGD	5	10160	0.31	0.040	0.27	
218.24	221.28	3.04	568874	TRN	WRGD	5	10260	0.18	0.010	0.24	
221.28	224.64	3.36	568875	TRN	WRGD	5	12940	0.14	0.024	0.17	
224.64	227.69	3.05	568876	TRN	WRGD	5	10960	0.19	0.012	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
227.69	230.73	3.04	568877	TRN	WRGD	5	11640	0.18	0.004	0.21	
230.73	233.78	3.05	568878	TRN	WRGD	5	11600	0.21	0.007	0.27	
233.78	236.83	3.05	568879	TRN	WRGD	5	10780	0.18	0.005	0.21	
236.83	239.88	3.05	568880	TRN	WRGD	5	12980	0.21	0.009	0.31	
239.88	242.93	3.05	568881	TRN	WRGD	5	12580	0.19	0.021	0.24	
242.93	245.97	3.04	568882	TRN	WRGD	5	12520	0.18	0.007	0.27	
245.97	249.02	3.05	568883	HYP	WRGD	5	12320	0.13	0.009	0.24	
249.02	252.07	3.05	568884	HYP	WRGD	5	12720	0.12	0.002	0.34	
252.07	255.12	3.05	568885	HYP	WRGD	5	11340	0.10	0.003	0.10	
255.12	258.17	3.05	568886	HYP	WRGD	5	11760	0.21	0.021	0.14	
258.17	261.21	3.04	568887	HYP	WRGD	5	10760	0.16	0.004	0.14	
261.21	264.26	3.05	568888	HYP	WRGD	5	11960	0.11	0.005	0.14	
264.26	267.31	3.05	568889	HYP	WRGD	5	11880	0.07	0.002	0.07	
267.31	270.36	3.05	568890	HYP	WRGD	5	12060	0.13	0.004	0.21	
270.36	273.41	3.05	568891	HYP	WRGD	5	11220	0.14	0.003	0.14	
273.41	276.45	3.04	568892	HYP	WRGD	5	12480	0.10	0.004	0.14	
276.45	279.50	3.05	568893	HYP	WRGD	5	13100	0.12	0.004	0.21	
279.50	282.55	3.05	568894	HYP	WRGD	5	11950	0.07	0.002	0.10	
282.55	285.60	3.05	568895	HYP	WRGD	5	12980	0.09	0.002	0.07	
285.60	288.65	3.05	568896	HYP	WRGD	5	12680	0.09	0.005	0.14	
288.65	291.69	3.04	568897	HYP	WRGD	5	13560	0.07	0.008	0.07	
291.69	294.74	3.05	568898	HYP	WRGD	5	12500	0.11	0.003	0.14	
294.74	297.79	3.05	568899	HYP	WRGD	5	12150	0.13	0.005	0.21	
297.79	300.83	3.04	568900	HYP	WRGD	5	12740	0.13	0.012	0.17	
300.83	303.89	3.06	568901	HYP	WRGD	5	12320	0.10	0.005	0.17	
303.89	306.93	3.04	568902	HYP	WRGD	5	12900	0.10	0.006	0.14	
306.93	309.98	3.05	568903	HYP	WRGD	5	12980	0.07	0.003	0.10	
309.98	313.03	3.05	568904	HYP	WRGD	5	12280	0.11	0.008	0.14	
313.03	316.08	3.05	568905	HYP	WRGD	5	15500	0.06	0.007	0.10	
316.08	319.13	3.05	568906	HYP	WRGD	5	14100	0.11	0.006	0.14	
319.13	322.17	3.04	568907	HYP	WRGD	5	14280	0.10	0.006	0.14	
322.17	325.22	3.05	568908	HYP	WRGD	5	13440	0.11	0.007	0.10	
325.22	328.27	3.05	568909	HYP	WRGD	5	11900	0.14	0.008	0.17	
328.27	331.32	3.05	568910	HYP	WRGD	5	13850	0.26	0.004	0.03	
331.32	334.37	3.05	568911	HYP	WRGD	5	13630	0.08	0.005	0.07	
334.37	337.41	3.04	568912	HYP	WRGD	5	13540	0.09	0.007	0.10	
337.41	339.24	1.83	568913	HYP	WRGD	5	6400	0.11	0.012	0.07	
339.24	342.29	3.05	568914	HYP	WRGD	5	10700	0.10	0.017	0.10	
342.29	345.34	3.05	568915	HYP	WRGD	5	13640	0.05	0.006	0.07	
345.34	348.39	3.05	568916	HYP	WRGD	5	14580	0.09	0.005	0.14	
348.39	352.65	4.26	568917	HYP	WRGD	5	19360	0.05	0.003	0.10	
352.65	355.70	3.05	568918	HYP	WRGD	5	14450	0.04	0.005	0.03	
355.70	358.75	3.05	568919	HYP	WRGD	5	13800	0.06	0.002	0.07	
358.75	361.80	3.05	568920	HYP	WRGD	5	13560	0.04	0.002	<0.01	

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HOLE NO. 93-165

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
361.80	364.85	3.05	568921	HYP	WRGD	5	13250	0.03	0.004	<0.01	
364.85	367.89	3.04	568922	HYP	WRGD	5	12510	0.03	0.003	<0.01	
367.89	370.03	2.14	568923	HYP	WRGD	5	11980	0.04	0.003	<0.01	
370.03	373.08	3.05	568924	HYP	WRGD	5	13540	0.04	0.001	<0.01	
373.08	376.12	3.04	568925	HYP	WRGD	5	15200	0.03	0.001	0.03	
376.12	379.17	3.05	568926	HYP	WRGD	5	14360	0.03	0.001	<0.01	
379.17	382.52	3.35	568927	HYP	WRGD	5	14950	0.04	0.001	0.21	
382.52	386.18	3.66	568928	HYP	WRGD	4	16820	0.02	0.001	<0.01	
386.18	389.23	3.05	568929	HYP	WRGD	4	14200	0.02	0.001	0.07	
389.23	392.28	3.05	568930	HYP	WRGD	4	14260	0.07	<0.001	0.07	
392.28	395.33	3.05	568931	HYP	WRGD	4	11520	0.01	0.001	0.03	
395.33	398.37	3.04	568932	HYP	WRGD	4	12940	0.03	0.002	0.14	
398.37	401.42	3.05	568933	HYP	WRGD	4	10900	0.02	<0.001	<0.01	
401.42	404.47	3.05	568934	HYP	WRGD	4	11420	0.02	<0.001	<0.01	
404.47	407.52	3.05	568935	HYP	WRGD	4	11500	0.02	0.001	<0.01	
407.52	410.57	3.05	568936	HYP	WRGD	4	11140	0.02	<0.001	<0.01	
410.57	413.61	3.04	568937	HYP	WRGD	4	13600	0.01	<0.001	<0.01	
413.61	416.66	3.05	568938	HYP	WRGD	4	14080	0.02	<0.001	<0.01	
416.66	419.71	3.05	568939	HYP	WRGD	4	12640	0.02	<0.001	<0.01	
419.71	422.76	3.05	568940	HYP	WRGD	4	13100	0.04	0.001	0.14	
422.76	425.81	3.05	568941	HYP	WRGD	4	12320	0.02	<0.001	0.03	
425.81	428.85	3.04	568942	HYP	WRGD	4	13790	0.01	<0.001	0.07	
428.85	431.90	3.05	568943	HYP	WRGD	4	12350	0.02	<0.001	0.10	
431.90	434.95	3.05	568944	HYP	WRGD	4	13240	0.02	<0.001	0.07	
434.95	438.00	3.05	568945	HYP	WRGD	4	13320	0.02	<0.001	0.14	
438.00	441.05	3.05	568946	HYP	WRGD	4	13410	0.01	<0.001	<0.01	
441.05	444.09	3.04	568947	HYP	WRGD	4	13280	0.01	<0.001	<0.01	
444.09	447.14	3.05	568948	HYP	WRGD	4	13080	0.02	<0.001	0.14	
447.14	450.19	3.05	568949	HYP	WRGD	4	13560	0.03	0.001	0.07	
450.19	453.24	3.05	568950	HYP	WRGD	4	13160	0.07	<0.001	0.07	
453.24	456.29	3.05	568951	HYP	WRGD	4	13440	0.02	<0.001	0.10	
456.29	459.33	3.04	568952	HYP	WRGD	4	13640	0.02	0.002	0.07	
459.33	462.38	3.05	568953	HYP	WRGD	4	12660	0.04	<0.001	0.17	
462.38	465.43	3.05	568954	HYP	WRGD	4	11420	0.01	0.001	<0.01	
465.43	468.48	3.05	568955	HYP	WRGD	4	13500	0.01	0.001	<0.01	
468.48	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-166	Total Depth	303.28 m		
Northing	255,398.62	Casing Depth	21.34 m		Left Out
Easting	110,499.49	Survey Data	Azimuth	Dip	Instrument
Elevation	1246.77 m	Collar		-90°	
Core Size	HQ	154.53 m	60°	-89°	Sperry Sun
Drilling Started	June 15, 1993	303.28 m	50°	-89°	Sperry Sun
Drilling Finished	June 20, 1993				
Logged by	M. Sze				
Purpose/Target:	Wild cat - copper/gold geochem.				

Comments: Drill hole intersected two major rock units (WRXY, WRGD) crosscut by minor dykes (QMFX, PPDB, LTDX, WRAP).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.27	4.27		OVB							
4.27	6.71	2.44	573067	CAP	WRXY	3	5720	0.04	0.013	0.14	
6.71	9.75	3.04	573068	CAP	WRXY	3	9480	0.07	0.008	0.14	
9.75	12.80	3.05	573069	CAP	WRXY	3	10420	0.05	0.008	0.10	
12.80	15.85	3.05	573070	CAP	WRXY	3	9180	0.07	0.012	0.24	
15.85	18.59	2.74	573071	CAP	WRXY	3	9360	0.06	0.008	0.17	
18.59	21.95	3.36	573072	CAP	WRXY	3	11400	0.07	0.010	0.31	
21.95	24.99	3.04	573073	CAP	WRXY	3	10560	0.11	0.026	0.23	
24.99	28.04	3.05	573074	CAP	WRXY	3	10060	0.11	0.022	0.27	
28.04	31.09	3.05	573075	CAP	WRXY	3	10020	0.09	0.017	0.24	
31.09	33.53	2.44	573076	CAP	WRXY	3	8280	0.09	0.010	0.45	
33.53	36.58	3.05	573077	SOX	WRXY	3	10850	0.14	0.010	0.34	
36.58	38.71	2.13	573078	SOX	WRXY	3	8540	0.07	0.018	0.14	
38.71	41.76	3.05	573079	SOX	WRXY	3	10340	0.04	0.020	0.14	
41.76	44.81	3.05	573080	SOX	WRXY	3	10480	0.06	0.022	0.21	
44.81	47.85	3.04	573081	SOX	WRXY	3	9920	0.07	0.023	0.27	
47.85	50.90	3.05	573082	SOX	WRXY	3	10560	0.10	0.023	0.17	
50.90	53.49	2.59	573083	SOX	WRXY	3	8000	0.10	0.026	0.10	
53.49	56.69	3.20	573084	SOX	WRAP	3	8320	0.07	0.014	0.10	
56.69	58.52	1.83	573085	SOX	WRXY	3	6820	0.12	0.020	0.14	
58.52	61.57	3.05	573086	SOX	WRXY	3	10460	0.18	0.048	0.14	
61.57	64.62	3.05	573087	SOX	WRXY	3	10300	0.57	0.014	0.14	
64.62	67.67	3.05	573088	SOX	WRXY	3	9120	0.43	0.008	0.14	
67.67	70.71	3.04	573089	SUS	WRXY	3	10720	0.46	0.030	0.10	
70.71	73.76	3.05	573090	SUS	WRXY	3	10620	0.29	0.012	0.07	
73.76	76.81	3.05	573091	SUS	WRXY	3	9300	0.60	0.011	0.07	
76.81	80.16	3.35	573092	SUS	WRXY	3	10380	0.48	0.021	0.38	
80.16	82.75	2.59	573093	HYP	WRXY	1	9000	0.23	0.008	0.07	
82.75	84.73	1.98	573094	HYP	WRXY	1	6500	0.35	0.009	0.10	
84.73	88.39	3.66	573095	HYP	WRXY	1	12900	0.10	0.003	0.10	
88.39	91.59	3.20	573096	HYP	PPDB	1	13100	0.30	0.009	0.10	
91.59	94.64	3.05	573097	HYP	WRXY	1	11400	0.10	0.016	0.10	
94.64	98.15	3.51	573098	HYP	WRGD	1	12280	0.14	0.009	0.14	
98.15	101.96	3.81	573099	HYP	WRGD	1	13080	0.09	0.015	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
101.96	104.09	2.13	573100	HYP	WRGD	1	8080	0.10	0.009	0.10	
104.09	107.29	3.20	573101	HYP	WRGD	1	9620	0.06	0.020	0.07	
107.29	110.03	2.74	573102	HYP	WRGD	1	8840	0.05	0.011	<0.01	
110.03	112.78	2.75	573103	HYP	WRGD	1	8900	0.10	0.013	0.07	
112.78	115.82	3.04	573104	HYP	WRGD	1	9400	0.11	0.019	0.07	
115.82	118.57	2.75	573105	HYP	WRGD	1	9360	0.11	0.009	0.14	
118.57	122.53	3.96	573106	HYP	WRGD	1	13080	0.10	0.010	0.10	
122.53	125.12	2.59	573107	HYP	WRGD	1	9480	0.10	0.023	0.10	
125.12	128.02	2.90	573108	HYP	WRGD	1	9640	0.12	0.029	0.17	
128.02	130.15	2.13	573109	HYP	WRGD	1	7600	0.09	0.012	0.10	
130.15	133.20	3.05	573110	HYP	QMFX	5	11300	0.07	0.014	0.07	
133.20	135.64	2.44	573111	HYP	WRGD	1	9100	0.08	0.016	0.10	
135.64	138.84	3.20	573112	HYP	WRGD	1	10460	0.04	0.028	0.03	
138.84	141.88	3.04	573113	HYP	WRGD	1	11080	0.06	0.021	0.03	
141.88	144.78	2.90	573114	HYP	WRXY	7	8700	0.07	0.019	<0.01	
144.78	147.83	3.05	573115	HYP	QMFX	7	11120	0.10	0.018	0.03	
147.83	151.03	3.20	573116	HYP	QMFX	7	10940	0.07	0.021	<0.01	
151.03	154.23	3.20	573117	HYP	WRXY	7	11400	0.11	0.013	0.07	
154.23	157.28	3.05	573118	HYP	PPDB	1	10720	0.14	0.012	0.14	
157.28	160.48	3.20	573119	HYP	PPDB	1	11140	0.13	0.013	0.07	
160.48	163.37	2.89	573120	HYP	WRXY	1	10620	0.07	0.003	0.03	
163.37	166.12	2.75	573121	HYP	WRXY	1	9780	0.08	0.004	0.07	
166.12	169.01	2.89	573122	HYP	WRXY	1	9600	0.12	0.017	0.07	
169.01	172.06	3.05	573123	HYP	WRXY	1	10260	0.11	0.037	0.10	
172.06	175.26	3.20	573124	HYP	WRXY	3	10160	0.12	0.018	0.17	
175.26	178.46	3.20	573125	HYP	WRXY	1	8880	0.10	0.019	0.10	
178.46	180.59	2.13	573126	HYP	WRGD	1	7500	0.13	0.023	0.14	
180.59	183.49	2.90	573127	HYP	WRGD	7	9480	0.11	0.019	0.10	
183.49	186.84	3.35	573128	HYP	WRGD	7	10860	0.12	0.014	0.14	
186.84	189.89	3.05	573129	HYP	WRGD	7	10780	0.05	0.030	0.07	
189.89	193.39	3.50	573130	HYP	WRXY	7	12480	0.10	0.011	0.10	
193.39	197.20	3.81	573131	HYP	WRXY	7	14120	0.07	0.016	0.03	
197.20	201.01	3.81	573132	HYP	WRXY	7	13140	0.07	0.030	0.10	
201.01	203.30	2.29	573133	HYP	QMFX	7	8480	0.15	0.065	0.14	
203.30	206.35	3.05	573134	HYP	QMFX	7	12700	0.12	0.023	0.07	
206.35	209.40	3.05	573135	HYP	QMFX	7	12940	0.08	0.121	0.07	
209.40	212.45	3.05	573136	HYP	QMFX	7	12600	0.05	0.049	<0.01	
212.45	215.49	3.04	573137	HYP	QMFX	7	11900	0.07	0.019	<0.01	
215.49	218.54	3.05	573138	HYP	QMFX	7	10940	0.07	0.012	<0.01	
218.54	221.59	3.05	573139	HYP	QMFX	7	11820	0.07	0.020	<0.01	
221.59	224.64	3.05	573140	HYP	WRGD	7	11520	0.06	0.020	<0.01	
224.64	227.68	3.04	573141	HYP	WRGD	7	9720	0.06	0.026	0.07	
227.68	230.73	3.05	573142	HYP	WRGD	5	13040	0.03	0.062	<0.01	
230.73	233.78	3.05	573143	HYP	WRGD	7	10980	0.03	0.016	<0.01	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.73	2.95	573144	HYP	WRGD	7	12100	0.03	0.012	<0.01	
236.73	240.18	3.45	573145	HYP	WRGD	7	12400	0.04	0.027	<0.01	
240.18	243.84	3.66	573146	HYP	WRXY	7	14600	0.04	0.027	<0.01	
243.84	247.80	3.96	573147	HYP	WRXY	7	15540	0.05	0.014	<0.01	
247.80	249.94	2.14	573148	HYP	QMFX	7	9260	0.05	0.010	<0.01	
249.94	251.76	1.82	573149	HYP	QMFX	7	7980	0.03	0.012	<0.01	
251.76	254.81	3.05	573150	HYP	WRGD	7	11780	0.03	0.013	<0.01	
254.81	257.86	3.05	573151	HYP	WRGD	7	11280	0.07	0.017	<0.01	
257.86	260.30	2.44	573152	HYP	WRGD	7	9380	0.06	0.020	<0.01	
260.30	262.13	1.83	573153	HYP	WRGD	7	8040	0.04	0.019	<0.01	
262.13	264.72	2.59	573154	HYP	WRGD	7	8100	0.02	0.030	<0.01	
264.72	267.31	2.59	573155	HYP	WRGD	7	9200	0.01	0.025	<0.01	
267.31	270.36	3.05	573156	HYP	QMFX	0	9500	0.02	0.011	<0.01	
270.36	273.41	3.05	573157	HYP	WRGD	7	8600	0.05	0.025	<0.01	
273.41	276.45	3.04	573158	HYP	WRGD	7	8620	0.05	0.047	<0.01	
276.45	279.20	2.75	573159	HYP	WRGD	7	9520	0.02	0.024	<0.01	
279.20	282.55	3.35	573160	HYP	WRGD	7	11580	0.02	0.019	<0.01	
282.55	285.29	2.74	573161	HYP	WRGD	7	9760	0.03	0.008	<0.01	
285.29	288.65	3.36	573162	HYP	WRXY	7	10640	0.02	0.010	<0.01	
288.65	291.08	2.43	573163	HYP	WRXY	7	10140	0.01	0.021	<0.01	
291.08	294.13	3.05	573164	HYP	WRXY	7	12700	0.04	0.031	<0.01	
294.13	297.18	3.05	573165	HYP	QMFX	7	13480	0.04	0.014	<0.01	
297.18	300.23	3.05	573166	HYP	WRXY	7	13160	0.03	0.016	<0.01	
300.23	303.28	3.05	573167	HYP	WRXY	7	13040	0.04	0.052	<0.01	
303.28	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-167	Total Depth	303.89 m		
Northing	255,402.15	Casing Depth	13.4 m		Left Out
Easting	110,096.60	Survey Data	Azimuth	Dip	Instrument
Elevation	1200.32 m	Collar		-90.00°	
Core Size	HQ	154.53 m	290°	-89.25°	Sperry Sun
Drilling Started	June 20, 1993	303.89 m		-90.00°	Sperry Sun
Drilling Finished	June 25, 1993				
Logged by	M. Dittrick				

Purpose/Target: Exploration hole following up mag anomaly to the northwest.

Comments: No supergene oxide zone was encountered. 28.04 m overburden sampled for placer potential.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	28.04	28.04		OVB							
28.04	31.09	3.05	573168	CAP	WRGD	3	3680	0.07	0.014	0.10	
31.09	34.14	3.05	573169	CAP	WRGD	3	3260	0.08	0.011	0.27	
34.14	35.66	1.52	573170	CAP	WRGD	3	3740	0.08	0.010	0.24	
35.66	38.71	3.05	573171	CAP	WRGD	3	7820	0.04	0.006	0.17	
38.71	41.76	3.05	573172	CAP	WRGD	3	4720	0.22	0.004	0.24	
41.76	45.11	3.35	573173	CAP	WRGD	3	8540	0.07	0.007	0.24	
45.11	47.70	2.59	573174	SUS	WRGD	3	6660	0.19	0.016	0.24	
47.70	49.38	1.68	573175	SUS	WRGD	3/7	4580	0.44	0.008	0.21	
49.38	52.12	2.74	573176	SUS	WRGD	3/7	8180	0.44	0.019	0.27	
52.12	55.32	3.20	573177	SUS	WRGD	3/7	9300	0.29	0.005	0.10	
55.32	56.85	1.53	573178	SUS	WRGD	3/7	4620	0.44	0.006	0.27	
56.85	58.52	1.67	573179	SUS	WRGD	3/7	4440	0.40	0.009	0.27	
58.52	61.57	3.05	573180	SUS	WRGD	3/7	8820	0.24	0.014	0.17	
61.57	64.47	2.90	573181	SUS	WRGD	3/7	9280	0.20	0.008	0.14	
64.47	67.67	3.20	573182	SUS	WRGD	3/7	7860	0.26	0.012	0.10	
67.67	70.56	2.89	573183	SUS	WRGD	3/7	7320	0.32	0.017	0.17	
70.56	73.76	3.20	573184	SUS	WRGD	3/4	8760	0.36	0.008	0.21	
73.76	76.81	3.05	573185	SUS	WRGD	3/4	8420	0.54	0.014	0.41	
76.81	79.71	2.90	573186	HYP	WRGD	3/4	10240	0.29	0.018	1.21	
79.71	82.91	3.20	573187	HYP	WRGD	3/4	10800	0.12	0.004	0.17	
82.91	85.95	3.04	573188	HYP	WRGD	3/7	10020	0.13	0.002	0.10	
85.95	89.00	3.05	573189	HYP	WRGD	3/7	9920	0.17	0.004	0.21	
89.00	92.05	3.05	573190	HYP	WRGD	3/7	9500	0.24	0.005	0.17	
92.05	95.10	3.05	573191	HYP	WRGD	4/7	10020	0.17	0.003	0.17	
95.10	97.69	2.59	573192	HYP	WRGD	4/7	9980	0.24	0.002	0.24	
97.69	101.19	3.50	573193	HYP	WRGD	4/7	12380	0.19	0.003	0.24	
101.19	104.24	3.05	573194	HYP	WRQM	4/3	11320	0.14	0.004	0.10	
104.24	107.29	3.05	573195	HYP	WRQM	4/3	12020	0.15	0.002	0.14	
107.29	110.34	3.05	573196	HYP	WRQM	4	10360	0.10	0.004	0.07	
110.34	113.39	3.05	573197	HYP	WRQM	4	10980	0.15	0.005	0.10	
113.39	116.43	3.04	573198	HYP	WRQM	4	11140	0.11	0.011	0.10	
116.43	119.48	3.05	573199	HYP	WRQM	4/7	11080	0.07	0.004	0.14	
119.48	121.01	1.53	573200	HYP	WRGD	7/1	5340	0.09	0.005	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
121.01	124.05	3.04	573201	HYP	WRGD	7/1	11140	0.12	0.010	0.14	
124.05	127.10	3.05	573202	HYP	WRGD	7/1	11640	0.22	0.007	0.27	
127.10	130.15	3.05	573203	HYP	WRGD	7/1	12080	0.15	0.004	0.21	
130.15	133.20	3.05	573204	HYP	WRGD	7/1	11100	0.10	0.006	0.10	
133.20	136.25	3.05	573205	HYP	WRGD	7/1	11180	0.13	0.002	0.17	
136.25	139.29	3.04	573206	HYP	WRGD	7/1	11660	0.18	0.005	0.17	
139.29	142.34	3.05	573207	HYP	WRDR	7/1	10660	0.18	0.003	0.21	
142.34	145.38	3.04	573208	HYP	WRDR	7/1	11200	0.26	0.017	0.34	
145.38	148.43	3.05	573209	HYP	WRDR	7/1	10060	0.24	0.008	0.31	
148.43	151.49	3.06	573210	HYP	WRDR	7/1	10640	0.15	0.003	0.21	
151.49	154.53	3.04	573211	HYP	WRGD	7/1	11060	0.17	0.011	0.17	
154.53	157.58	3.05	573212	HYP	WRGD	7/1	11260	0.40	0.054	0.48	
157.58	160.63	3.05	573213	HYP	WRGD	7/1	11840	0.27	0.010	0.31	
160.63	163.68	3.05	573214	HYP	WRGD	7/1	10020	0.23	0.008	0.31	
163.68	165.81	2.13	573215	HYP	WRGD	7/1	6540	0.20	0.021	0.21	
165.81	167.34	1.53	573216	HYP	WRGD	7/1	4460	0.16	0.003	0.14	
167.34	169.77	2.43	573217	HYP	WRGD	7/1	9180	0.14	0.004	0.21	
169.77	172.21	2.44	573218	HYP	WRGD	7/1	8680	0.13	0.006	0.21	
172.21	174.35	2.14	573219	HYP	WRGD	7/1	6300	0.16	0.013	0.21	
174.35	175.87	1.52	573220	HYP	WRGD	7/1	5020	0.26	0.002	0.31	
175.87	178.92	3.05	573221	HYP	WRDR	7	10160	0.11	0.002	0.10	
178.92	180.90	1.98	573222	HYP	WRDR	7	6780	0.07	0.003	0.14	
180.90	183.64	2.74	573223	HYP	WRDR	7	9180	0.15	0.003	0.14	
183.64	186.23	2.59	573224	HYP	WRDR	7	11520	0.08	0.004	0.10	
186.23	188.06	1.83	573225	HYP	WRDR	5	8060	0.12	0.005	0.21	
188.06	191.11	3.05	573226	HYP	WRDR	5	13540	0.14	0.013	0.27	
191.11	194.16	3.05	573227	HYP	WRDR	5	11180	0.24	0.004	0.27	
194.16	197.21	3.05	573228	HYP	WRDR	5	12500	0.21	0.025	0.38	
197.21	199.03	1.82	573229	HYP	WRDR	5/7	6640	0.17	0.008	0.17	
199.03	202.39	3.36	573230	HYP	WRDR	5/7	12300	0.31	0.009	1.65	
202.39	205.59	3.20	573231	HYP	WRDR	5	11980	0.10	0.010	0.72	
205.59	208.79	3.20	573232	HYP	WRDR	5	13180	0.55	0.012	0.82	
208.79	211.84	3.05	573233	HYP	WRDR	5/7	11420	0.18	0.008	0.24	
211.84	214.88	3.04	573234	HYP	WRDR	7/5	11460	0.24	0.015	0.24	
214.88	217.02	2.14	573235	HYP	WRDR	7	7760	0.16	0.012	0.14	
217.02	219.15	2.13	573236	HYP	WRDR	7	7240	0.18	0.014	0.14	
219.15	221.59	2.44	573237	HYP	WRDR	7	8660	0.15	0.014	0.21	
221.59	224.33	2.74	573238	HYP	WRGD	7	9780	0.21	0.026	0.31	
224.33	226.16	1.83	573239	HYP	WRGD	7	5400	0.29	0.008	0.41	
226.16	228.90	2.74	573240	HYP	WRGD	7	10920	0.16	0.005	0.17	
228.90	231.95	3.05	573241	HYP	WRGD	7	11540	0.11	0.014	0.10	
231.95	235.00	3.05	573242	HYP	WRGD	7	12500	0.09	0.049	0.07	
235.00	237.44	2.44	573243	HYP	WRGD	7	9880	0.11	0.007	0.10	
237.44	240.49	3.05	573244	HYP	WRGD	7	11520	0.10	0.012	0.07	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
240.49	243.54	3.05	573245	HYP	WRGD	7	11720	0.11	0.016	0.14	
243.54	245.97	2.43	573246	HYP	WRGD	7	9340	0.13	0.008	0.07	
245.97	248.41	2.44	573247	HYP	WRGD	7	9480	0.14	0.007	0.07	
248.41	251.46	3.05	573248	HYP	WRGD	7	12340	0.16	0.027	0.14	
251.46	254.66	3.20	573249	HYP	QMFX	7	12240	0.11	0.066	0.10	
254.66	257.71	3.05	573250	HYP	QMFX	7	12100	0.11	0.006	0.10	
257.71	260.15	2.44	573251	HYP	QMFX	7	9080	0.11	0.013	0.10	
260.15	263.04	2.89	573252	HYP	QMFX	7	13020	0.09	0.075	0.07	
263.04	266.24	3.20	573253	HYP	QMFX	7	13240	0.10	0.020	0.00	
266.24	269.29	3.05	573254	HYP	QMFX	7	13780	0.09	0.016	0.07	
269.29	272.49	3.20	573255	HYP	QMFX	7	13960	0.06	0.018	0.07	
272.49	273.41	0.92	573256	HYP	QMFX	7	3860	0.05	0.006	0.03	
273.41	276.45	3.04	573257	HYP	QMFX	7/5	13480	0.07	0.061	0.10	
276.45	279.50	3.05	573258	HYP	QMFX	7/5	13020	0.06	0.030	0.07	
279.50	282.55	3.05	573259	HYP	QMFX	7/5	13540	0.10	0.013	0.00	
282.55	285.60	3.05	573260	HYP	WRGD	7	12260	0.09	0.011	0.10	
285.60	288.65	3.05	573261	HYP	WRGD	7	14240	0.16	0.043	0.14	
288.65	291.69	3.04	573262	HYP	WRGD	7	12820	0.14	0.016	0.14	
291.69	294.74	3.05	573263	HYP	WRGD	7	13060	0.10	0.039	0.10	
294.74	297.79	3.05	573264	HYP	QMFX	7	12220	0.06	0.026	0.00	
297.79	300.84	3.05	573265	HYP	QMFX	7	13260	0.06	0.030	0.00	
300.84	303.89	3.05	573266	HYP	QMFX	7	12920	0.05	0.014	0.07	
303.89	END OF HOLE										

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Hole Number	93-168	Total Depth	569.06 m		
Northing	254,499.62	Casing Depth	4.57 m		Left In
Easting	111,199.28	Survey Data	Azimuth	Dip	Instrument
Elevation	1330.99 m	Collar			
Core Size	HQ	154.53 m	335°	-89.25°	Sperry Sun
Drilling Started	June 22, 1993	306.93 m	290°	-89.75°	Sperry Sun
Drilling Finished	July 1, 1993	569.06 m	270°	-89.25°	Sperry Sun
Logged by	J. Reeder				

Purpose/Target: Delineation drilling of the southeast part of the Casino Deposit.

Comments: Intersected low grade Cu mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.57	4.57		OVB							
4.57	5.79	1.22	568956	CAP	WRGD	3	3920	<0.01	0.006	0.10	
5.79	8.23	2.44	568957	CAP	WRGD	3	8080	<0.01	0.012	0.14	
8.23	10.06	1.83	568958	CAP	WRGD	3	4200	<0.01	0.007	0.10	
10.06	12.50	2.44	568959	CAP	WRGD	3	5720	<0.01	0.001	0.07	
12.50	15.85	3.35	568960	CAP	WRGD	3	11140	<0.01	0.002	0.14	
15.85	17.37	1.52	568961	CAP	WRGD	3	3220	<0.01	0.002	0.07	
17.37	19.51	2.14	568962	CAP	WRGD	3	6180	<0.01	0.003	0.07	
19.51	22.86	3.35	568963	CAP	WRGD	3	11200	<0.01	0.001	0.14	
22.86	25.60	2.74	568964	CAP	WRGD	3	8740	<0.01	0.001	0.17	
25.60	28.80	3.20	568965	CAP	WRGD	3	10760	<0.01	0.002	0.21	
28.80	32.00	3.20	568966	CAP	WRGD	3	10540	<0.01	0.005	0.34	
32.00	35.66	3.66	568967	CAP	WRGD	3	12040	<0.01	0.002	0.31	
35.66	37.49	1.83	568968	CAP	WRGD	3	6680	<0.01	0.001	0.38	
37.49	39.32	1.83	568969	CAP	WRGD	3	5720	<0.01	0.002	0.17	
39.32	41.76	2.44	568970	CAP	WRGD	3	6920	<0.01	0.001	0.31	
41.76	44.81	3.05	568971	CAP	WRGD	3	8100	<0.01	0.002	0.27	
44.81	46.63	1.82	568972	CAP	WRGD	3	5840	<0.01	0.002	0.21	
46.63	49.68	3.05	568973	CAP	WRGD	3	11600	<0.01	0.001	0.17	
49.68	50.90	1.22	568974	CAP	WRGD	3	4200	<0.01	0.002	0.21	
50.90	53.95	3.05	568975	CAP	WRGD	3	11840	<0.01	0.002	0.65	
53.95	57.00	3.05	568976	CAP	WRGD	3/5	9580	<0.01	0.002	0.07	
57.00	60.05	3.05	568977	CAP	WRGD	3/5	8660	<0.01	0.002	0.07	
60.05	63.09	3.04	568978	CAP	WRGD	3/5	11420	<0.01	0.001	0.00	
63.09	66.14	3.05	568979	CAP	WRGD	3/5	8420	<0.01	0.001	0.17	
66.14	69.19	3.05	568980	CAP	WRGD	3/5	12540	<0.01	0.001	<0.03	
69.19	72.24	3.05	568981	CAP	WRGD	3/5	12120	<0.01	0.002	0.07	
72.24	75.29	3.05	568982	CAP	WRGX	3/5	12620	<0.01	0.001	<0.03	
75.29	77.72	2.43	568983	CAP	WRGD	3/5	8720	<0.01	0.001	0.07	
77.72	81.38	3.66	568984	CAP	WRGD	3/5	12260	<0.01	<0.001	0.03	
81.38	84.43	3.05	568985	CAP	WRGD	3/5	11520	<0.01	<0.001	<0.03	
84.43	87.17	2.74	568986	CAP	WRGD	3/5	10120	<0.01	<0.001	0.07	
87.17	89.00	1.83	568987	CAP	WRGD	3/5	5220	<0.01	<0.001	0.07	
89.00	90.53	1.53	568988	CAP	WRGD	3/5	5300	<0.01	<0.001	<0.03	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
90.53	94.18	3.65	568989	CAP	WRGD	3/5	11460	<0.01	<0.001	0.03	
94.18	96.62	2.44	568990	CAP	WRGD	3/5	7220	<0.01	0.001	<0.03	
96.62	99.67	3.05	568991	CAP	WRGD	3	9640	<0.01	0.000	<0.03	
99.67	102.72	3.05	568992	CAP	WRGD	3	10820	0.02	0.001	<0.03	
102.72	105.77	3.05	568993	CAP	WRGD	3	8980	0.01	0.001	0.03	
105.77	107.90	2.13	568994	CAP	WRGD	3	8360	0.01	0.001	0.07	
107.90	109.73	1.83	568995	CAP	WRGD	3	5440	0.01	0.001	0.07	
109.73	113.39	3.66	568996	CAP	WRGD	3	12420	0.01	0.002	0.03	
113.39	117.96	4.57	568997	CAP	WRGD	3	17040	0.01	0.002	0.10	
117.96	121.00	3.04	568998	CAP	WRGD	3	9380	0.01	0.003	0.14	
121.00	124.05	3.05	568999	SOX	WRGD	3/5	10140	0.02	0.002	0.10	
124.05	127.10	3.05	569000	SOX	WRGD	3/5	11200	0.01	0.002	<0.03	
127.10	130.15	3.05	569001	SUS	WRGD	3/5	11480	0.03	0.005	0.07	
130.15	133.20	3.05	569002	SUS	WRGD	5	12520	0.24	0.003	0.21	
133.20	136.25	3.05	569003	SUS	WRGD	5/7	14200	0.11	0.003	0.07	
136.25	139.29	3.04	569004	SUS	WRGD	5/7	12880	0.20	0.004	0.10	
139.29	142.34	3.05	569005	SUS	WRGD	5/7	11960	0.57	0.003	0.07	
142.34	145.39	3.05	569006	SUS	WRGD	5	12966	0.13	0.003	0.10	
145.39	148.44	3.05	569007	SUS	WRGD	5/3	14120	0.08	0.003	0.07	
148.44	151.49	3.05	569008	SUS	WRGD	5/3	14220	0.13	0.006	0.17	
151.49	154.53	3.04	569009	SUS	WRGD	5/3	12540	0.11	0.005	0.10	
154.53	157.58	3.05	569010	SUS	WRGD	5/3	14500	0.19	0.008	0.21	
157.58	160.02	2.44	569011	SUS	WRGD	5/3	14160	0.16	0.009	0.07	
160.02	163.07	3.05	569012	SUS	WRGD	5/3	11600	0.26	0.010	0.21	
163.07	166.12	3.05	569013	SUS	WRGD	5/3	11980	0.18	0.006	0.10	
166.12	169.77	3.65	569014	SUS	WRGD	5/3	14680	0.17	0.010	0.14	
169.77	172.82	3.05	569015	SUS	WRGD	5/3	12500	0.20	0.013	0.14	
172.82	175.87	3.05	569016	SUS	WRGD	5/3	12880	0.19	0.014	0.21	
175.87	178.92	3.05	569017	SUS	WRGD	5/3	12220	0.13	0.008	0.10	
178.92	181.97	3.05	569018	SUS	WRGD	5/3	13120	0.15	0.017	0.17	
181.97	185.01	3.04	569019	TRN	WRGD	5/3	13220	0.17	0.007	0.17	
185.01	188.06	3.05	569020	TRN	WRGD	5/3	11980	0.20	0.010	0.21	
188.06	191.11	3.05	569021	TRN	WRGD	5/3	12400	0.28	0.022	0.24	
191.11	194.16	3.05	569022	TRN	WRGD	5	12140	0.25	0.013	0.38	
194.16	197.21	3.05	569023	TRN	WRGD	5	13480	0.20	0.013	0.31	
197.21	200.25	3.04	569024	TRN	WRGD	5	12500	0.23	0.006	0.14	
200.25	203.30	3.05	569025	TRN	WRGD	5	13100	0.18	0.010	0.10	
203.30	206.35	3.05	569026	TRN	WRGD	5	12200	0.19	0.012	0.17	
206.35	209.40	3.05	569027	TRN	WRGD	5	12280	0.20	0.008	0.17	
209.40	212.45	3.05	569028	TRN	WRGD	5/1	12080	0.40	0.008	0.51	
212.45	215.49	3.04	569029	TRN	WRGD	5/1	12720	0.12	0.006	0.10	
215.49	218.54	3.05	569030	TRN	WRGD	5/1	12060	0.16	0.007	0.14	
218.54	221.59	3.05	569031	TRN	WRGD	5/1	12880	0.16	0.010	0.17	
221.59	224.64	3.05	569032	HYP	WRGD	5/1	11740	0.11	0.011	0.14	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
224.64	227.69	3.05	569033	HYP	WRGD	5/1	13160	0.09	0.008	0.10	
227.69	230.73	3.04	569034	HYP	WRGD	5/1	11920	0.10	0.006	0.10	
230.73	233.78	3.05	569035	HYP	WRGD	5/1	11960	0.09	0.009	0.07	
233.78	236.83	3.05	569036	HYP	WRGD	5/1	11520	0.07	0.004	0.03	
236.83	239.88	3.05	569037	HYP	WRGD	5/1	13440	0.13	0.006	0.10	
239.88	242.93	3.05	569038	HYP	WRGD	5/1	11840	0.09	0.008	0.10	
242.93	245.97	3.04	569039	HYP	WRGD	5/1	12640	0.09	0.008	0.14	
245.97	249.02	3.05	569040	HYP	WRGD	5	11920	0.08	0.008	0.07	
249.02	252.07	3.05	569041	HYP	WRGD	5	12640	0.11	0.008	<0.03	
252.07	255.12	3.05	569042	HYP	WRGD	5/1	14240	0.10	0.009	0.03	
255.12	258.17	3.05	569043	HYP	WRGD	1	12320	0.09	0.002	0.07	
258.17	261.21	3.04	569044	HYP	WRGD	1	12200	0.11	0.006	0.14	
261.21	264.26	3.05	569045	HYP	WRGD	5/1	12740	0.09	0.006	0.10	
264.26	267.31	3.05	569046	HYP	WRGD	4/5	12740	0.10	0.007	0.14	
267.31	270.36	3.05	569047	HYP	WRGD	4/5	11680	0.06	0.004	0.07	
270.36	273.41	3.05	569048	HYP	WRGD	4/5	13120	0.10	0.002	0.07	
273.41	276.45	3.04	569049	HYP	WRGD	4/5	12720	0.08	0.002	0.07	
276.45	279.50	3.05	569050	HYP	WRGD	4/7	12680	0.10	0.003	0.14	
279.50	282.55	3.05	569051	HYP	WRGD	4	12120	0.13	0.005	0.21	
282.55	285.60	3.05	569052	HYP	WRGD	4/5	11000	0.10	0.004	0.14	
285.60	288.65	3.05	569053	HYP	WRGD	4/5	12520	0.09	0.005	0.24	
288.65	291.69	3.04	569054	HYP	WRGD	4/5	12360	0.11	0.006	0.10	
291.69	294.74	3.05	569055	HYP	WRGD	4/5	10860	0.11	0.005	0.10	
294.74	297.79	3.05	569056	HYP	WRGD	4/5	13380	0.18	0.006	0.24	
297.79	300.84	3.05	569057	HYP	WRGD	4/5	13240	0.20	0.015	0.31	
300.84	303.89	3.05	569058	HYP	WRGD	4/5	12480	0.30	0.018	0.38	
303.89	306.93	3.04	569059	HYP	WRGD	4/5	14160	0.15	0.007	0.21	
306.93	309.98	3.05	569060	HYP	WRGD	4/5	13540	0.13	0.007	0.55	
309.98	313.03	3.05	569061	HYP	WRGD	5	14340	0.11	0.011	0.14	
313.03	316.08	3.05	569062	HYP	WRGD	5	13500	0.13	0.013	0.27	
316.08	319.13	3.05	569063	HYP	WRGD	5	14160	0.09	0.007	0.14	
319.13	322.17	3.04	569064	HYP	WRGD	5	14840	0.17	0.007	0.21	
322.17	325.22	3.05	569065	HYP	WRGD	5	12340	0.15	0.002	0.17	
325.22	328.27	3.05	569066	HYP	WRGD	5	13700	0.10	0.002	0.17	
328.27	331.32	3.05	569067	HYP	WRGD	1/5	14000	0.10	0.004	0.14	
331.32	334.37	3.05	569068	HYP	WRGD	1/5	12940	0.16	0.004	0.27	
334.37	337.41	3.04	569069	HYP	WRGD	1/5	13180	0.08	0.002	0.14	
337.41	340.46	3.05	569070	HYP	WRGD	5	12520	0.09	0.001	0.17	
340.46	343.51	3.05	569071	HYP	WRGD	5	13380	0.03	0.001	0.00	
343.51	346.56	3.05	569072	HYP	WRGD	5	13060	0.03	0.001	0.14	
346.56	349.61	3.05	569073	HYP	WRGD	5	13840	0.04	0.002	0.10	
349.61	352.65	3.04	569074	HYP	WRGD	5	12600	0.03	0.000	<0.03	
352.65	355.70	3.05	569075	HYP	WRGD	5	13640	0.01	0.004	<0.03	
355.70	358.75	3.05	569076	HYP	WRGD	5	13900	0.02	0.002	0.03	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
358.75	361.80	3.05	569077	HYP	WRGD	5	19580	0.02	0.003	0.07	
361.80	364.85	3.05	569078	HYP	WRGD	5	13660	0.16	0.002	0.07	
364.85	367.89	3.04	569079	HYP	WRGD	5	13560	0.01	0.003	0.07	
367.89	370.94	3.05	569080	HYP	WRGD	5	15480	0.01	0.004	0.03	
370.94	373.99	3.05	569081	HYP	WRGD	5	14380	0.01	0.002	0.07	
373.99	377.04	3.05	569082	HYP	WRGD	5/4	12740	0.01	0.002	<0.03	
377.04	380.09	3.05	569083	HYP	WRGD	5	12960	0.01	0.002	<0.03	
380.09	383.13	3.04	569084	HYP	WRGD	5	13060	0.01	0.001	0.10	
383.13	386.18	3.05	569085	HYP	WRGD	5	13580	0.02	0.001	<0.03	
386.18	389.23	3.05	569086	HYP	WRGD	5	13360	0.03	0.001	<0.03	
389.23	392.28	3.05	569087	HYP	WRGD	5	12420	0.05	0.002	0.03	
392.28	395.33	3.05	569088	HYP	WRGD	5	13260	0.04	0.005	0.07	
395.33	398.37	3.04	569089	HYP	WRGD	5/4	14420	0.05	0.003	<0.03	
398.37	401.42	3.05	569090	HYP	WRGD	5	15320	0.02	0.001	0.21	
401.42	404.47	3.05	569091	HYP	WRGD	5	15040	0.04	0.001	<0.03	
404.47	407.52	3.05	569092	HYP	WRGD	5	14740	0.02	0.001	<0.03	
407.52	410.57	3.05	569093	HYP	WRGD	5	14360	0.09	<0.001	0.27	
410.57	413.61	3.04	569094	HYP	WRGD	1/5	13780	0.02	<0.001	<0.03	
413.61	416.66	3.05	569095	HYP	WRGD	5/4	13420	0.02	0.001	<0.03	
416.66	419.71	3.05	569096	HYP	WRGD	5/4	14720	0.02	<0.001	<0.03	
419.71	422.75	3.04	569097	HYP	WRGD	5/4	14720	0.03	0.001	<0.03	
422.75	425.80	3.05	569098	HYP	WRGD	5	13480	0.02	0.001	<0.03	
425.80	428.85	3.05	569099	HYP	WRGD	5	13360	0.01	0.001	<0.03	
428.85	431.90	3.05	569100	HYP	WRGD	5	14820	0.01	<0.001	<0.03	
431.90	434.95	3.05	569101	HYP	WRGD	5	15100	0.07	0.001	0.10	
434.95	438.00	3.05	569102	HYP	WRGD	4/5	14060	0.08	<0.001	0.07	
438.00	441.04	3.04	569103	HYP	WRGD	4/5	14380	0.04	0.001	<0.03	
441.04	444.09	3.05	569104	HYP	WRGD	4/5	14480	0.01	0.002	<0.03	
444.09	447.14	3.05	569105	HYP	PPDQ	5	15220	0.03	0.002	0.03	
447.14	450.19	3.05	569106	HYP	PPDQ	5	13940	0.01	0.002	<0.03	
450.19	453.24	3.05	569107	HYP	PPDQ	5	15280	0.03	0.001	<0.03	
453.24	456.27	3.03	569108	HYP	PPDQ	5	14920	0.02	0.001	<0.03	
456.27	459.33	3.06	569109	HYP	PPDQ	5	14980	0.02	0.003	<0.03	
459.33	462.38	3.05	569110	HYP	PPDQ	5	14040	0.04	0.003	<0.03	
462.38	465.43	3.05	569111	HYP	PPDQ	5	15460	0.02	0.001	<0.03	
465.43	468.48	3.05	569112	HYP	PPDQ	5	14560	0.02	0.001	<0.03	
468.48	471.52	3.04	569113	HYP	WRGD	5	14680	0.02	0.001	0.07	
471.52	474.57	3.05	569114	HYP	WRGD	5	13840	0.04	<0.001	<0.03	
474.57	477.62	3.05	569115	HYP	WRGD	5	13960	0.02	0.002	<0.03	
477.62	480.67	3.05	569116	HYP	WRGD	5	14300	0.03	<0.001	<0.03	
480.67	483.72	3.05	569117	HYP	WRGD	5	13260	0.03	0.001	<0.03	
483.72	486.77	3.05	569118	HYP	WRGD	5	13120	0.02	0.001	<0.03	
486.77	489.81	3.04	569119	HYP	WRGD	5	13160	0.01	0.002	<0.03	
489.81	492.86	3.05	569120	HYP	WRGD	5	14340	0.03	0.001	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
492.86	495.91	3.05	569121	HYP	WRGD	5	14020	0.03	<0.001	0.07	
495.91	498.96	3.05	569122	HYP	WRGD	5	12880	0.04	0.001	0.07	
498.96	502.01	3.05	569123	HYP	WRGD	5	13880	0.02	0.001	<0.03	
502.01	505.05	3.04	569124	HYP	WRGD	5	10880	0.01	0.001	<0.03	
505.05	508.10	3.05	569125	HYP	QMFX	5	13060	0.01	0.005	<0.03	
508.10	511.15	3.05	569126	HYP	QMFX	5	13860	0.08	0.002	0.07	
511.15	514.20	3.05	569127	HYP	QMFX	5	13200	0.01	0.001	<0.03	
514.20	517.25	3.05	569128	HYP	QMFX	5	13000	0.05	0.001	<0.03	
517.25	520.29	3.04	569129	HYP	QMFX	5	13200	<0.01	0.002	<0.03	
520.29	523.34	3.05	569130	HYP	WRGD	5	12450	0.01	0.003	<0.03	
523.34	526.39	3.05	569131	HYP	WRGD	5	12980	0.02	0.011	<0.03	
526.39	529.44	3.05	569132	HYP	WRGD	5	14580	0.02	0.000	<0.03	
529.44	532.49	3.05	569133	HYP	WRGD	5	12880	0.01	0.001	<0.03	
532.49	535.53	3.04	569134	HYP	WRGD	5	15100	0.01	0.003	0.07	
535.53	538.58	3.05	569135	HYP	WRGD	5	13620	0.07	0.003	0.17	
538.58	541.63	3.05	569136	HYP	QMFX	5	13180	0.01	0.005	<0.03	
541.63	544.68	3.05	569137	HYP	WRGD	5	13620	0.02	0.002	0.03	
544.68	547.73	3.05	569138	HYP	WRGD	5	14180	0.01	0.004	0.07	
547.73	550.77	3.04	569139	HYP	WRGD	5	13380	0.01	0.004	<0.03	
550.77	553.82	3.05	569140	HYP	WRGD	5/1	13480	0.02	0.003	<0.03	
553.82	556.87	3.05	569141	HYP	WRGD	5/1	14420	0.02	0.001	<0.03	
556.87	559.92	3.05	569142	HYP	WRGD	5	14100	0.03	0.007	0.10	
559.92	562.97	3.05	569143	HYP	WRGD	5	14300	0.03	0.002	0.07	
562.97	566.01	3.04	569144	HYP	WRGD	5/1	13760	0.01	0.001	0.07	
566.01	569.06	3.05	569145	HYP	WRGD	5/1	13940	0.02	0.001	<0.03	
569.06	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-169	Total Depth	352.65 m		
Northing	254,406.36	Casing Depth	15.85 m		Left Out
Easting	110,293.52	Survey Data	Azimuth	Dip	Instrument
Elevation	1332.86 m	Collar 0.00 m		-90°	
Core Size	HQ to 164.59 m; NQ to 352.65 m	182.88 m	003°	-89°	Sperry Sun
Drilling Started	June 24, 1993				
Drilling Finished	July 2, 1993				
Logged by	M. Sze				

Purpose/Target: Wild cat hole - gold high. Twins 93-158 (rods were stuck @ 150.88 m).

Comments: Shear zone between 135.3 - 142.3 m.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	12.80	12.80		OVB							
12.80	15.85	3.05	564351	CAP	LTXT	3	10080	<0.01	0.112	0.48	
15.85	18.90	3.05	564352	CAP	LTXT	3	6520	<0.01	0.109	0.55	
18.90	20.42	1.52	564353	CAP	LTXT	3	4100	0.01	0.064	0.38	
20.42	23.47	3.05	564354	CAP	LTXT	3	5340	<0.01	0.081	0.58	
23.47	26.52	3.05	564355	CAP	LTXT	3	6400	<0.01	0.110	0.51	
26.52	29.57	3.05	564356	CAP	LTXT	3	6160	<0.01	0.124	0.82	
29.57	32.61	3.04	564357	CAP	LTXT	3	6640	<0.01	0.123	1.41	
32.61	35.66	3.05	564358	CAP	LTXT	3	5200	<0.01	0.121	0.96	
35.66	38.71	3.05	564359	CAP	LTXT	3	4000	<0.01	0.186	0.45	
38.71	41.76	3.05	564360	CAP	LTXT	3	6100	<0.01	0.226	0.72	
41.76	44.81	3.05	564361	CAP	LTXT	3	7800	<0.01	0.251	0.34	
44.81	47.85	3.04	564362	CAP	LTXT	3	5380	<0.01	0.254	0.55	
47.85	50.90	3.05	564363	CAP	LTXT	3	6980	<0.01	0.229	0.27	
50.90	53.04	2.14	564364	CAP	WRGD	3	6600	<0.01	0.070	0.34	
53.04	56.08	3.04	564365	CAP	WRGD	3	11780	<0.01	0.068	0.34	
56.08	59.13	3.05	564366	CAP	WRGD	3	12200	<0.01	0.056	0.55	
59.13	62.18	3.05	564367	CAP	WRGD	3	8020	<0.01	0.080	0.34	
62.18	65.53	3.35	564368	CAP	WRGD	3	10600	<0.01	0.069	0.21	
65.53	69.19	3.66	564369	CAP	WRGD	3	11200	<0.01	0.074	0.48	
69.19	72.24	3.05	564370	CAP	WRGD	3	8480	<0.01	0.048	0.48	
72.24	75.29	3.05	564371	CAP	WRGD	3	9980	0.01	0.080	0.41	
75.29	78.33	3.04	564372	CAP	WRGD	3	11400	<0.01	0.096	0.62	
78.33	81.38	3.05	564373	CAP	WRGD	3	12340	0.01	0.072	0.65	
81.38	84.43	3.05	564374	CAP	WRGD	3	13180	0.02	0.063	0.41	
84.43	87.48	3.05	564375	CAP	WRGD	3	11780	0.01	0.064	0.48	
87.48	90.53	3.05	564376	CAP	WRGD	3	11640	0.01	0.054	0.34	
90.53	93.57	3.04	564377	CAP	WRGD	3	10800	0.01	0.126	0.21	
93.57	96.62	3.05	564378	CAP	WRGD	3	12140	0.01	0.062	0.45	
96.62	99.67	3.05	564379	SOX	WRGD	3	11420	0.01	0.052	0.31	
99.67	102.72	3.05	564380	SOX	WRGD	3	9680	0.01	0.047	0.27	
102.72	105.77	3.05	564381	SOX	WRGD	3/5	10240	0.01	0.033	0.38	
105.77	108.81	3.04	564382	SOX	WRGD	3/5	10560	<0.01	0.033	0.31	
108.81	111.86	3.05	564383	SOX	WRGD	3/5	11800	<0.01	0.045	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
111.86	114.91	3.05	564384	SOX	WRGD	5/3	13240	0.02	0.023	0.21	
114.91	117.96	3.05	564385	SOX	WRGD	5/3	11160	0.02	0.022	0.38	
117.96	121.01	3.05	564386	SOX	WRGD	5/3	11720	0.01	0.030	0.34	
121.01	124.05	3.04	564387	SOX	WRGD	5/3	12260	0.01	0.062	0.62	
124.05	127.10	3.05	564388	SUS	WRGD	5/3	11400	0.05	0.036	0.41	
127.10	130.15	3.05	564389	SUS	WRGD	5/3	10920	0.02	0.030	0.45	
130.15	133.20	3.05	564390	SUS	WRGD	5/3	6700	0.01	0.046	0.38	
133.20	135.48	2.28	564391	SUS	WRGD	5/3	8080	0.08	0.114	0.58	
135.48	137.46	1.98	564392	SUS	WRGD	5/3	5320	0.07	0.036	0.17	
137.46	139.29	1.83	564393	SUS	WRGD	5/3	6400	0.14	0.042	0.38	
139.29	142.34	3.05	564394	SUS	WRGD	3/5, 5/3	6640	0.30	0.032	0.38	
142.34	145.39	3.05	564395	SUS	WRGD	3/5, 5/3	8160	0.22	0.028	0.21	
145.39	147.22	1.83	564396	SUS	WRGD	4/5, 3/3	5900	0.22	0.029	0.38	
147.22	149.66	2.44	564397	SUS	WRGD	4/5, 3/3	5060	0.13	0.017	0.21	
149.66	151.49	1.83	564398	SUS	WRGD	4/5, 3/3	8240	0.18	0.014	0.17	
151.49	154.53	3.04	564399	SUS	WRGD	4/5, 3/3	9900	0.32	0.062	0.38	
154.53	157.58	3.05	564400	SUS	WRGD	4/5, 3/3	10840	0.31	0.059	0.38	
157.58	160.63	3.05	564401	SUS	WRGD	4/5, 3/3	10640	0.31	0.065	0.51	
160.63	164.59	3.96	564402	SUS	WRGD	5/7, 3/3	13560	0.37	0.046	0.31	
164.59	166.72	2.13	564403	SUS	WRGD	5/7, 3/3	3220	0.37	0.049	0.34	
166.72	169.77	3.05	564404	SUS	WRGD	5/7, 3/3	6140	0.38	0.052	0.38	
169.77	172.82	3.05	564405	SUS	WRGD	5/7, 3/3	5600	0.48	0.024	0.41	
172.82	175.87	3.05	564406	SUS	WRGD	5/7, 3/3	6440	0.40	0.030	0.38	
175.87	178.00	2.13	564407	SUS	WRGD	5/7, 3/3	2660	0.34	0.015	0.27	
178.00	181.05	3.05	564408	SUS	WRGD	5/7, 3/3	6540	0.34	0.036	0.31	
181.05	184.10	3.05	564409	SUS	WRGD	5/7, 3/3	6460	0.25	0.030	0.31	
184.10	187.30	3.20	564410	SUS	WRGD	5/7, 3/3	6820	0.33	0.035	0.41	
187.30	190.50	3.20	564411	SUS	WRGD	5/7, 3/3	6090	0.43	0.039	0.45	
190.50	194.16	3.66	564412	SUS	WRGD	5/7, 3/3	7800	0.32	0.025	0.51	
194.16	197.21	3.05	564413	SUS	WRGD	5/5, 3/3	6120	0.26	0.037	0.27	
197.21	200.25	3.04	564414	SUS	WRGD	4/5, 3/3	6940	0.28	0.024	0.38	
200.25	203.30	3.05	564415	SUS	WRGD	4/5, 3/3	5660	0.25	0.021	0.24	
203.30	206.04	2.74	564416	SUS	WRGD	4/5, 3/3	3160	0.28	0.019	0.27	
206.04	209.09	3.05	564417	SUS	WRGD	4/5, 3/3	5660	0.25	0.031	0.27	
209.09	212.14	3.05	564418	SUS	WRGD	4/5, 3/3	6220	0.24	0.033	0.38	
212.14	215.49	3.35	564419	SUS	WRGD	4/5, 3/3	7600	0.30	0.051	0.27	
215.49	218.54	3.05	564420	SUS	WRGD	4/5	6900	0.19	0.031	0.34	
218.54	221.59	3.05	564421	HYP	WRGD	4/5	7100	0.22	0.031	0.24	
221.59	224.64	3.05	564422	HYP	WRGD	4/5	6160	0.70	0.036	1.13	
224.64	227.69	3.05	564423	HYP	WRGD	4/5	7100	0.21	0.023	0.27	
227.69	228.39	0.70	564424	HYP	WRGD	4	4160	0.21	0.020	0.31	
228.39	233.78	5.39	564425	HYP	WRGD	4	10340	0.16	0.012	0.24	
233.78	236.83	3.05	564426	HYP	WRGD	4	7580	0.20	0.027	0.17	
236.83	239.88	3.05	564427	HYP	WRGD	4	7160	0.16	0.021	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	564428	HYP	WRGD	4	7660	0.16	0.016	0.10	
242.93	245.97	3.04	564429	HYP	WRGD	4	7200	0.14	0.030	0.17	
245.97	249.02	3.05	564430	HYP	WRGD	4	7580	0.17	0.028	0.10	
249.02	252.07	3.05	564431	HYP	WRGD	4	7720	0.19	0.025	0.14	
252.07	255.12	3.05	564432	HYP	WRGD	4	7220	0.11	0.025	0.07	
255.12	258.17	3.05	564433	HYP	WRGD	4	7380	0.19	0.031	0.10	
258.17	261.21	3.04	564434	HYP	WRGD	4	7000	0.14	0.035	0.07	
261.21	264.26	3.05	564435	HYP	WRGD	4/7	7140	0.18	0.025	0.10	
264.26	267.31	3.05	564436	HYP	WRGD	4/7	6740	0.27	0.035	0.14	
267.31	270.36	3.05	564437	HYP	WRGD	4/7	7240	0.19	0.038	0.14	
270.36	273.41	3.05	564438	HYP	WRGD	4/7	7140	0.18	0.023	0.17	
273.41	276.46	3.05	564439	HYP	WRGD	4/7	7340	0.17	0.022	0.17	
276.46	279.50	3.04	564440	HYP	WRGD	4/7	7480	0.16	0.019	0.21	
279.50	282.55	3.05	564441	HYP	WRGD	4/7	7260	0.24	0.035	0.17	
282.55	285.60	3.05	564442	HYP	WRGD	4/7	7160	0.13	0.047	0.07	
285.60	288.64	3.04	564443	HYP	WRGD	7/5	7000	0.17	0.015	0.14	
288.64	291.69	3.05	564444	HYP	WRGD	7/5	7250	0.15	0.015	0.14	
291.69	294.74	3.05	564445	HYP	WRGD	7/5	7160	0.14	0.014	0.14	
294.74	297.79	3.05	564446	HYP	WRGD	7/5	7940	0.33	0.048	0.21	
297.79	300.84	3.05	564447	HYP	WRGD	7/5	8220	0.36	0.044	0.31	
300.84	303.88	3.04	564448	HYP	WRGD	7/5	7700	0.50	0.057	0.79	
303.88	306.93	3.05	564449	HYP	WRGD	7/5	8000	0.50	0.020	3.98	
306.93	309.98	3.05	564450	HYP	WRGD	7/5	7700	0.26	0.047	0.62	
309.98	313.03	3.05	564451	HYP	WRGD	7/5	8020	0.16	0.019	0.10	
313.03	316.08	3.05	564452	HYP	WRGD	7/5	7720	0.32	0.198	0.27	
316.08	319.12	3.04	564453	HYP	WRGD	7/5	7900	0.33	0.061	0.27	
319.12	322.17	3.05	564454	HYP	WRGD	5/7	7720	0.11	0.020	0.10	
322.17	325.22	3.05	564455	HYP	WRGD	5/7	7700	0.18	0.019	0.14	
325.22	328.27	3.05	564456	HYP	WRGD	5/7	8020	0.12	0.027	0.10	
328.27	331.32	3.05	564457	HYP	WRGD	7/5	7400	0.12	0.040	0.07	
331.32	334.37	3.05	564458	HYP	WRGD	7/5	7420	0.20	0.054	0.14	
334.37	337.41	3.04	564459	HYP	WRGD	7/5	7560	0.20	0.038	0.10	
337.41	340.46	3.05	564460	HYP	WRGD	7/5	6860	0.15	0.019	0.14	
340.46	343.51	3.05	564461	HYP	WRGD	7/5	7560	0.19	0.021	0.14	
343.51	346.25	2.74	564462	HYP	WRGD	7/5	6060	0.15	0.012	0.14	
346.25	349.61	3.36	564463	HYP	WRGD	7/5	7680	0.12	0.025	0.14	
349.61	352.65	3.04	564464	HYP	WRGD	7/5	7500	0.14	0.012	0.14	
352.65	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-170	**Total Depth**	316.08 m		
Northing	255,799.02	**Casing Depth**	11.58 m		Left Out
Easting	110,274.12	**Survey Data**	**Azimuth**	**Dip**	**Instrument**
Elevation	1227.14 m	**Collar**			
Core Size	HQ	154.5 m	330°	-89.5°	Sperry Sun
Drilling Started	June 26, 1993	304.8 m	315°	-89.0°	Sperry Sun
Drilling Finished	July 2, 1993				
Logged by	M. Dittrick				

Purpose/Target: Exploration hole testing Au and Cu geochem and geophysical anomalies.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	6.71	3.66	573270	TRN	WRGD	1	8820	0.04	0.002	0.10	
6.71	9.75	3.04	573271	TRN	WRGD	1	10960	0.04	0.000	0.10	
9.75	11.89	2.14	573272	TRN	WRGD	1	6640	0.04	0.000	0.07	
11.89	14.63	2.74	573273	TRN	WRGD	1	7320	0.10	0.003	0.17	
14.63	17.37	2.74	573274	TRN	WRGD	1	9150	0.09	0.001	0.21	
17.37	20.42	3.05	573275	TRN	WRGD	1	10120	0.12	0.002	0.14	
20.42	23.47	3.05	573276	TRN	WRGD	1	11540	0.15	0.001	0.17	
23.47	26.21	2.74	573277	TRN	WRGD	1	10360	0.20	0.004	0.24	
26.21	28.19	1.98	573278	TRN	QMFX	1	8140	0.05	0.002	<0.01	
28.19	30.48	2.29	573279	SOX	QMFX	1	8260	0.16	0.002	0.03	
30.48	33.53	3.05	573280	SOX	QMFX	1	8620	0.03	0.001	0.03	
33.53	35.66	2.13	573281	SOX	QMFX	1	8420	0.12	0.001	0.03	
35.66	37.64	1.98	573282	SOX	QMFX	1	7580	0.07	0.002	0.14	
37.64	39.62	1.98	573283	SUS	QMFX	1	7180	0.09	0.002	0.07	
39.62	41.76	2.14	573284	SUS	QMFX	1	8120	0.06	0.001	0.07	
41.76	44.20	2.44	573285	SUS	QMFX	1	10300	0.04	0.001	<0.01	
44.20	47.24	3.04	573286	SUS	QMFX	1	13100	0.05	0.001	0.07	
47.24	48.16	0.92	573287	SUS	QMFX	1	2760	0.06	0.002	<0.01	
48.16	50.90	2.74	573288	SUS	QMFX	1	10460	0.07	0.001	0.03	
50.90	53.04	2.14	573289	HYP	WRGD	1	7520	0.08	0.002	0.03	
53.04	55.63	2.59	573290	HYP	WRGD	1	7320	0.14	0.004	0.17	
55.63	58.37	2.74	573291	HYP	WRGD	1	11780	0.09	0.003	0.07	
58.37	60.96	2.59	573292	HYP	WRGD	1	9960	0.08	0.003	0.10	
60.96	63.40	2.44	573293	HYP	WRGD	1	9300	0.08	0.005	0.17	
63.40	66.14	2.74	573294	HYP	WRDR	1	10320	0.13	0.002	0.10	
66.14	69.19	3.05	573295	HYP	WRDR	1	13380	0.12	0.002	0.17	
69.19	71.78	2.59	573296	HYP	WRDR	1	11140	0.19	0.003	0.24	
71.78	74.06	2.28	573297	HYP	WRDR	1	8180	0.11	0.002	0.31	
74.06	76.50	2.44	573298	HYP	WRDR	1	7960	0.12	0.004	0.10	
76.50	79.55	3.05	573299	HYP	WRGD	1	11680	0.12	0.004	0.17	
79.55	81.99	2.44	573300	HYP	WRGD	1	9380	0.09	0.039	0.10	
81.99	85.34	3.35	573301	HYP	WRGD	1	11520	0.07	0.005	0.07	
85.34	88.09	2.75	573302	HYP	WRGD	1	8100	0.11	0.004	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
88.09	90.53	2.44	573303	HYP	WRGD	1	9350	0.09	0.005	0.10	
90.53	92.05	1.52	573304	HYP	WRGD	1	5700	0.10	0.003	0.10	
92.05	94.18	2.13	573305	HYP	WRGD	1/7	8280	0.22	0.003	0.27	
94.18	96.77	2.59	573306	HYP	WRGD	1/7	8840	0.09	0.006	0.14	
96.77	99.67	2.90	573307	HYP	WRGD	1/7	10460	0.10	0.002	0.10	
99.67	102.26	2.59	573308	HYP	WRGD	1/7	7800	0.07	0.003	0.07	
102.26	105.77	3.51	573309	HYP	WRGD	1/7	11080	0.06	0.003	0.03	
105.77	108.81	3.04	573310	HYP	WRGD	1/7	10820	0.08	0.002	0.07	
108.81	112.47	3.66	573311	HYP	WRGD	1/7	13560	0.07	0.002	0.07	
112.47	114.91	2.44	573312	HYP	WRGD	1/7	8540	0.05	0.001	0.07	
114.91	117.96	3.05	573313	HYP	WRDR	1/7	12200	0.09	0.001	0.14	
117.96	121.01	3.05	573314	HYP	WRDR	1/7	12480	0.11	0.008	0.14	
121.01	124.05	3.04	573315	HYP	WRDR	1/7	13800	0.12	0.003	0.17	
124.05	127.10	3.05	573316	HYP	WRDR	1/7	13000	0.18	0.007	0.24	
127.10	130.15	3.05	573317	HYP	WRDR	1/7	13340	0.12	0.004	0.17	
130.15	133.20	3.05	573318	HYP	WRDR	1/7	13380	0.15	0.005	0.17	
133.20	136.25	3.05	573319	HYP	WRDR	1/7	12720	0.11	0.005	0.17	
136.25	139.29	3.04	573320	HYP	WRDR	1/7	13260	0.09	0.004	0.14	
139.29	142.34	3.05	573321	HYP	WRDR	1/7	12960	0.07	0.002	0.07	
142.34	143.56	1.22	573322	HYP	WRDR	1/7	5420	0.13	0.004	0.14	
143.56	146.30	2.74	573323	HYP	WRDR	1/7	13400	0.06	0.002	0.07	
146.30	149.66	3.36	573324	HYP	WRDR	1/7	12720	0.07	0.001	0.10	
149.66	152.40	2.74	573325	HYP	WRDR	1/7	10700	0.06	0.000	0.07	
152.40	154.69	2.29	573326	HYP	WRDR	1/7	9360	0.12	0.008	0.10	
154.69	157.58	2.89	573327	HYP	WRDR	1/7	9540	0.10	0.005	0.10	
157.58	160.48	2.90	573328	HYP	WRDR	1/7	12020	0.12	0.001	0.17	
160.48	163.67	3.19	573329	HYP	WRDR	1/7	13200	0.08	0.002	0.10	
163.67	166.27	2.60	573330	HYP	WRDR	1/7	10700	0.10	0.003	0.10	
166.27	169.77	3.50	573331	HYP	WRDR	1/7	12420	0.09	0.001	0.27	
169.77	172.06	2.29	573332	HYP	WRDR	1/7	7540	0.15	0.009	0.10	
172.06	173.28	1.22	573333	HYP	WRDR	1/7	5200	0.06	0.004	0.07	
173.28	175.87	2.59	573334	HYP	WRDR	1/7	11960	0.05	0.004	0.10	
175.87	178.92	3.05	573335	HYP	WRDR	1/7	12700	0.06	0.009	0.07	
178.92	181.97	3.05	573336	HYP	WRDR	1/7	13760	0.09	0.005	0.07	
181.97	185.01	3.04	573337	HYP	WRDR	1/7	13880	0.25	0.036	0.31	
185.01	188.06	3.05	573338	HYP	WRDR	1/7	13700	0.15	0.005	0.17	
188.06	191.11	3.05	573339	HYP	WRDR	1/7	13040	0.13	0.010	0.17	
191.11	194.16	3.05	573340	HYP	WRDR	1/7	14880	0.05	0.002	0.07	
194.16	197.21	3.05	573341	HYP	WRDR	1/7	14780	0.03	0.001	0.00	
197.21	200.25	3.04	573342	HYP	WRDR	1/7	13840	0.11	0.003	0.17	
200.25	202.69	2.44	573343	HYP	WRDR	1/7	13840	0.09	0.004	0.14	
202.69	205.74	3.05	573344	HYP	WRDR	1/7	13660	0.09	0.004	0.10	
205.74	209.40	3.66	573345	HYP	WRAP	7/1	15580	0.08	0.004	0.07	
209.40	212.45	3.05	573346	HYP	WRDR	1/7	13860	0.20	0.006	0.24	

SUMMARY DRILL LOG
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HOLE NO. 93-170

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
212.45	215.49	3.04	573347	HYP	WRDR	7/1	14100	0.17	0.002	0.21	
215.49	218.54	3.05	573348	HYP	WRDR	7/1	13360	0.12	0.007	0.14	
218.54	221.59	3.05	573349	HYP	WRDR	7/1	13120	0.04	0.002	0.07	
221.59	224.64	3.05	573350	HYP	WRDR	7/1	12820	0.10	0.003	0.10	
224.64	227.69	3.05	573351	HYP	WRDR	7/1	14080	0.08	0.003	0.07	
227.69	230.73	3.04	573352	HYP	WRDR	7/1	13660	0.07	0.006	0.07	
230.73	233.78	3.05	573353	HYP	WRDR	7/1	13380	0.08	0.003	0.10	
233.78	236.83	3.05	573354	HYP	WRDR	7/1	14100	0.11	0.006	0.07	
236.83	239.88	3.05	573355	HYP	WRAP	7/1	13580	0.15	0.004	0.14	
239.88	242.93	3.05	573356	HYP	WRDR	1/7	13220	0.10	0.003	0.10	
242.93	245.97	3.04	573357	HYP	WRDR	1/7	13040	0.10	0.008	0.10	
245.97	249.02	3.05	573358	HYP	WRDR	1/5	10200	0.06	0.009	0.10	
249.02	252.07	3.05	573359	HYP	WRDR	1/5	12120	0.07	0.009	0.07	
252.07	255.12	3.05	573360	HYP	WRDR	1/5	13720	0.08	0.015	0.07	
255.12	258.17	3.05	573361	HYP	WRDR	1/5	13320	0.22	0.013	0.24	
258.17	261.21	3.04	573362	HYP	WRDR	5/1	13740	0.10	0.006	0.14	
261.21	264.26	3.05	573363	HYP	WRDR	1/5	12730	0.07	0.004	0.00	
264.26	267.31	3.05	573364	HYP	WRDR	1/5	12960	0.06	0.005	0.03	
267.31	270.36	3.05	573365	HYP	WRDR	1/5	13040	0.08	0.025	0.14	
270.36	273.41	3.05	573366	HYP	WRDR	1/5	11460	0.09	0.011	0.07	
273.41	276.45	3.04	573367	HYP	WRDR	1/5	13240	0.08	0.007	0.03	
276.45	278.89	2.44	573368	HYP	WRDR	1/5	8940	0.13	0.028	0.17	
278.89	281.94	3.05	573369	HYP	WRDR	1/5	11580	0.26	0.072	0.21	
281.94	284.99	3.05	573370	HYP	WRDR	1/5	12820	0.24	0.008	0.24	
284.99	288.04	3.05	573371	HYP	WRDR	1/5	12520	0.25	0.012	0.21	
288.04	291.69	3.65	573372	HYP	WRDR	1/5	14340	0.17	0.007	0.17	
291.69	294.74	3.05	573373	HYP	WRDR	1/5	12900	0.08	0.004	0.07	
294.74	297.79	3.05	573374	HYP	WRDR	1/5	12760	0.14	0.002	0.14	
297.79	300.84	3.05	573375	HYP	WRDR	1/5	13380	0.12	0.005	0.17	
300.84	303.89	3.05	573376	HYP	WRDR	1/5	9462	0.12	0.004	0.10	
303.89	306.93	3.04	573377	HYP	WRDR	1/5	11300	0.08	0.002	0.10	
306.93	309.98	3.05	573378	HYP	WRDR	1/5	12300	0.06	0.001	0.07	
309.98	313.03	3.05	573379	HYP	WRDR	1/5	12960	0.09	0.003	0.10	
313.03	316.08	3.05	573380	HYP	WRDR	1/5	12460	0.06	0.002	0.07	
316.08	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-171	Total Depth	550.77 m		
Northing	254,600.28	Casing Depth	29.8 m		Left Out
Easting	111,297.76	Survey Data	Azimuth	Dip	Instrument
Elevation	1251.26 m	Collar		-90.0°	
Core Size	HQ	152.4 m	245°	-89.3°	Sperry Sun
Drilling Started	July 1, 1993	306.9 m	340°	-89.2°	Sperry Sun
Drilling Finished	July 9, 1993	456.3 m	320°	-89.1°	Sperry Sun
Logged by	J. Reeder/T. Becker/P. Fischl				

Purpose/Target: Delineation hole testing the southeast side of deposit.

Comments: Hole encountered granodiorite (WRGD) cut by latite breccias (LTXH) and pebble dykes (LTDA). Breccias with good K-spar in matrix.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.23	8.23		OVB							
8.23	11.28	3.05	569146	CAP	LTXH	3	7000	<0.01	0.010	0.27	
11.28	13.72	2.44	569147	CAP	MBNX	3	4560	<0.01	0.003	0.27	
13.72	16.46	2.74	569148	CAP	WRGD	3	7040	<0.01	0.001	0.14	
16.46	21.03	4.57	569149	CAP	WRGD	3	8260	<0.01	0.003	0.17	
21.03	25.60	4.57	569150	CAP	WRGD	3	10960	<0.01	0.001	0.10	
25.60	29.26	3.66	569151	CAP	WRGD	3	6680	<0.01	0.003	0.10	
29.26	31.39	2.13	569152	CAP	WRGD	3	5000	<0.01	0.006	0.10	
31.39	35.66	4.27	569153	CAP	WRGD	3	11260	<0.01	0.005	0.58	
35.66	38.71	3.05	569154	CAP	WRGD	3	8500	<0.01	0.011	0.72	
38.71	41.76	3.05	569155	CAP	WRGD	3	9680	<0.01	0.001	0.93	
41.76	44.81	3.05	569156	CAP	WRGD	3	8800	<0.01	0.002	0.17	
44.81	47.85	3.04	569157	CAP	WRGD	3	10980	<0.01	0.002	0.17	
47.85	50.90	3.05	569158	CAP	WRGD	3	11300	<0.01	0.001	0.31	
50.90	53.95	3.05	569159	CAP	WRGD	3	9600	<0.01	0.002	0.14	
53.95	57.00	3.05	569160	CAP	WRGD	3	11140	0.01	0.002	0.10	
57.00	60.05	3.05	569161	CAP	WRGD	5	11120	<0.01	0.002	0.10	
60.05	63.40	3.35	569162	CAP	WRGD	5	11460	<0.01	0.002	0.07	
63.40	65.23	1.83	569163	CAP	WRGD	5	7160	<0.01	0.002	0.14	
65.23	68.88	3.65	569164	CAP	WRGD	5	10920	<0.01	0.001	0.07	
68.88	72.24	3.36	569165	CAP	WRGD	5	10780	<0.01	0.003	0.07	
72.24	75.29	3.05	569166	SUS	WRGD	5	11300	<0.01	0.003	0.14	
75.29	78.33	3.04	569167	SUS	WRGD	5	10060	0.01	0.002	0.10	
78.33	81.08	2.75	569168	SUS	WRGD	5	8440	<0.01	0.002	0.07	
81.08	82.91	1.83	569169	SUS	WRGD	5	6020	<0.01	0.001	0.07	
82.91	85.34	2.43	569170	SUS	WRGD	5	8080	0.01	0.000	0.03	
85.34	88.39	3.05	569171	SUS	WRGD	5	9620	0.02	0.002	<0.03	
88.39	91.14	2.75	569172	SUS	WRGD	5	8960	0.01	0.002	0.03	
91.14	93.57	2.43	569173	SUS	WRGD	5	7860	0.03	0.000	0.10	
93.57	95.10	1.53	569174	SUS	WRGD	5	5640	0.02	0.001	0.07	
95.10	97.84	2.74	569175	SUS	WRGD	5	5640	0.02	0.002	0.10	
97.84	99.67	1.83	569176	SUS	WRGD	5	3780	0.05	0.001	0.10	
99.67	102.72	3.05	569177	SUS	WRGD	5	10280	0.15	0.001	0.17	
102.72	104.85	2.13	569178	HYP	WRGD	5	8620	0.10	0.002	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
104.85	108.81	3.96	569179	HYP	WRGD	5	13720	0.12	0.001	0.10	
108.81	111.86	3.05	569180	HYP	WRGD	5	11800	0.08	0.001	0.10	
111.86	114.91	3.05	569181	HYP	WRGD	5	9840	0.17	0.007	0.14	
114.91	117.96	3.05	569182	HYP	WRGD	3	11680	0.18	0.002	0.17	
117.96	120.09	2.13	569183	HYP	WRGD	3	7080	0.23	0.005	0.17	
120.09	123.14	3.05	569184	HYP	WRGD	3	11140	0.07	0.003	0.14	
123.14	127.10	3.96	569185	HYP	WRGD	3	15820	0.09	0.005	0.14	
127.10	130.15	3.05	569186	HYP	WRGD	3	12000	0.09	0.003	0.10	
130.15	133.20	3.05	569187	HYP	WRGD	3	13460	0.05	0.002	0.10	
133.20	136.25	3.05	569188	HYP	WRGD	3	13620	0.07	0.002	0.14	
136.25	138.68	2.43	569189	HYP	WRGD	3	10040	0.12	0.003	0.14	
138.68	141.73	3.05	569190	HYP	WRGD	3	12120	0.24	0.019	0.24	
141.73	144.48	2.75	569191	HYP	LTXD	1	11620	0.19	0.006	0.21	
144.48	148.44	3.96	569192	HYP	WRGD	1	15700	0.16	0.006	0.17	
148.44	151.49	3.05	569193	HYP	WRGD	1	13640	0.13	0.008	0.17	
151.49	153.62	2.13	569194	HYP	WRGD	1	7580	0.21	0.007	0.24	
153.62	157.58	3.96	569195	HYP	WRGD	1	13860	0.17	0.004	0.21	
157.58	160.63	3.05	569196	HYP	LTXH	3	13120	0.09	0.003	0.07	
160.63	163.68	3.05	569197	HYP	LTXH	1	12500	0.09	0.002	0.00	
163.68	166.73	3.05	569198	HYP	LTXH	1	12520	0.13	0.001	0.10	
166.73	169.77	3.04	569199	HYP	LTXH	1	11880	0.09	0.001	0.07	
169.77	172.82	3.05	569200	HYP	LTXH	1	13300	0.08	0.002	0.10	
172.82	175.87	3.05	569201	HYP	LTXH	1	13120	0.10	0.001	0.21	
175.87	178.92	3.05	569202	HYP	LTXH	1	12500	0.09	0.002	0.14	
178.92	181.97	3.05	569203	HYP	LTXH	1	11780	0.10	0.005	0.14	
181.97	185.01	3.04	569204	HYP	LTXH	1	10840	0.06	0.001	0.14	
185.01	188.06	3.05	569205	HYP	LTDA	1	11040	0.04	0.001	0.03	
188.06	191.11	3.05	569206	HYP	LTDA	1	13100	0.06	0.000	<0.03	
191.11	194.16	3.05	569207	HYP	LTDA	1	13460	0.15	0.001	<0.03	
194.16	197.21	3.05	569208	HYP	LTDA	1	13840	0.04	0.001	<0.03	
197.21	200.25	3.04	569209	HYP	LTDA	1	13320	0.03	0.001	<0.03	
200.25	203.30	3.05	569210	HYP	LTXH	5	12400	0.03	0.001	0.14	
203.30	206.35	3.05	569211	HYP	LTXH	5	13900	0.06	0.002	0.07	
206.35	209.40	3.05	569212	HYP	LTXH	5	13780	0.04	0.002	0.03	
209.40	212.45	3.05	569213	HYP	LTXH	5	13280	0.08	0.001	0.10	
212.45	215.49	3.04	569214	HYP	LTXH	7	13650	0.09	0.002	0.07	
215.49	218.54	3.05	569215	HYP	LTXH	7	14240	0.06	0.001	0.00	
218.54	221.59	3.05	569216	HYP	LTXH	7	14600	0.08	0.002	0.07	
221.59	224.64	3.05	569217	HYP	LTXH	7	14020	0.11	0.003	0.41	
224.64	227.69	3.05	569218	HYP	LTXH	7	13440	0.02	0.001	<0.03	
227.69	230.73	3.04	569219	HYP	LTXH	7	11420	0.04	0.001	<0.03	
230.73	233.78	3.05	569220	HYP	LTXH	7	13500	0.08	0.003	0.07	
233.78	236.83	3.05	569221	HYP	LTXH	7	14120	0.11	0.006	0.07	
236.83	239.88	3.05	569222	HYP	LTXH	7	13900	0.15	0.006	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	569223	HYP	LTXH	7	14040	0.11	0.004	0.10	
242.93	245.97	3.04	569224	HYP	LTXH	7	14320	0.15	0.003	0.45	
245.97	249.02	3.05	569225	HYP	LTXH	7	13200	0.15	0.003	0.41	
249.02	252.07	3.05	569226	HYP	LTXH	7	13800	0.10	0.003	0.07	
252.07	255.12	3.05	569227	HYP	LTXH	7	11840	0.06	0.004	0.07	
255.12	258.17	3.05	569228	HYP	LTXH	7	12780	0.04	0.002	0.10	
258.17	261.21	3.04	569229	HYP	LTXH	7	13300	0.08	0.001	0.07	
261.21	264.26	3.05	569230	HYP	LTXH	7	13020	0.10	0.003	0.10	
264.26	267.31	3.05	569231	HYP	LTXH	7	12760	0.13	0.003	<0.03	
267.31	270.36	3.05	569232	HYP	LTXH	7	12820	0.08	0.002	<0.03	
270.36	273.41	3.05	569233	HYP	LTXH	7	12840	0.10	0.004	0.31	
273.41	276.45	3.04	569234	HYP	LTXH	7	14000	0.12	0.003	0.07	
276.45	279.50	3.05	569235	HYP	LTXH	7	12440	0.09	0.001	0.07	
279.50	282.55	3.05	569236	HYP	LTXH	7	14040	0.03	0.001	<0.03	
282.55	285.60	3.05	569237	HYP	LTXH	7	13880	0.12	0.001	0.07	
285.60	288.65	3.05	569238	HYP	WRGD	5	14140	0.10	0.001	0.07	
288.65	291.69	3.04	569239	HYP	WRGD	5	13280	0.11	0.003	0.07	
291.69	294.74	3.05	569240	HYP	WRGD	5	13260	0.15	0.004	0.10	
294.74	297.79	3.05	569241	HYP	WRGD	5	13920	0.22	0.001	0.41	
297.79	300.84	3.05	569242	HYP	WRGD	5	13340	0.14	0.004	0.07	
300.84	303.89	3.05	569243	HYP	LTXH	5	13660	0.13	0.002	0.07	
303.89	306.93	3.04	569244	HYP	LTXH	5	13140	0.04	0.002	<0.03	
306.93	309.98	3.05	569245	HYP	LTXH	5	13000	0.04	<0.001	<0.03	
309.98	313.03	3.05	569246	HYP	WRGD	5	11660	0.08	0.001	0.14	
313.03	316.08	3.05	569247	HYP	WRGD	5	12960	0.13	0.002	0.07	
316.08	319.13	3.05	569248	HYP	WRGD	5	13240	0.10	0.002	0.10	
319.13	322.17	3.04	569249	HYP	WRGD	5	14500	0.07	0.002	<0.03	
322.17	325.22	3.05	569250	HYP	LTDA	1	13360	0.06	0.003	0.07	
325.22	328.27	3.05	569251	HYP	WRGD	5	13320	0.09	0.005	0.07	
328.27	331.32	3.05	569252	HYP	WRGD	5	14280	0.08	0.003	0.07	
331.32	334.37	3.05	569253	HYP	WRGD	5	14020	0.08	0.004	0.14	
334.37	337.41	3.04	569254	HYP	WRGD	5	13000	0.09	0.004	0.10	
337.41	340.46	3.05	569255	HYP	LTDA	1	13080	0.03	0.001	<0.03	
340.46	343.51	3.05	569256	HYP	LTDA	1	11660	0.08	0.001	<0.03	
343.51	346.56	3.05	569257	HYP	LTDA	1	12000	0.10	0.001	<0.03	
346.56	349.61	3.05	569258	HYP	WRGD	5	12220	0.05	0.002	0.07	
349.61	352.65	3.04	569259	HYP	WRGD	5	12920	0.12	0.001	0.10	
352.65	355.70	3.05	569260	HYP	WRGD	5	13820	0.06	0.000	0.21	
355.70	358.75	3.05	569261	HYP	WRGD	5	11840	0.06	0.001	0.10	
358.75	361.80	3.05	569262	HYP	WRGD	5	13820	0.08	0.005	0.10	
361.80	364.85	3.05	569263	HYP	QMFX	5	12720	0.09	0.002	0.10	
364.85	367.89	3.04	569264	HYP	WRGD	5	13560	0.17	0.009	0.17	
367.89	370.94	3.05	569265	HYP	WRGD	5	13180	0.06	0.001	0.07	
370.94	373.99	3.05	569266	HYP	WRGD	5	13600	0.10	0.002	0.07	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
373.99	377.04	3.05	569267	HYP	WRGD	5	13320	0.03	0.001	0.03	
377.04	380.09	3.05	569268	HYP	WRGD	3	13580	0.06	0.001	0.07	
380.09	383.13	3.04	569269	HYP	WRGD	5	12840	0.08	0.001	0.03	
383.13	386.18	3.05	569270	HYP	WRGD	5	13220	0.04	0.001	<0.03	
386.18	389.23	3.05	569271	HYP	WRGD	5	13620	0.04	0.001	0.03	
389.23	392.28	3.05	569272	HYP	WRGD	5	12220	0.06	0.002	0.07	
392.28	395.33	3.05	569273	HYP	WRGD	5	13140	0.04	0.002	<0.03	
395.33	398.37	3.04	569274	HYP	WRGD	5	13560	0.06	0.003	0.10	
398.37	401.42	3.05	569275	HYP	WRGD	5	13320	0.05	0.003	0.07	
401.42	404.47	3.05	569276	HYP	WRGD	5	14340	0.02	0.001	0.07	
404.47	407.52	3.05	569277	HYP	WRGD	5	13040	0.04	0.007	0.03	
407.52	410.57	3.05	569278	HYP	WRGD	5	13000	0.05	0.003	0.03	
410.57	413.61	3.04	569279	HYP	WRGD	5	13140	0.04	0.002	<0.03	
413.61	416.66	3.05	569280	HYP	WRGD	5	12620	0.05	0.009	0.03	
416.66	419.71	3.05	569281	HYP	WRGD	5	13320	0.06	0.004	<0.03	
419.71	422.76	3.05	569282	HYP	WRGD	5	13280	0.07	0.002	0.07	
422.76	425.81	3.05	569283	HYP	WRGD	5	14080	0.07	0.002	0.17	
425.81	428.85	3.04	569284	HYP	WRGD	5	13580	0.13	0.002	0.10	
428.85	431.90	3.05	569285	HYP	WRGD	5	13000	0.05	0.001	0.03	
431.90	434.95	3.05	569286	HYP	WRGD	5	13120	0.06	0.002	0.07	
434.95	438.00	3.05	569287	HYP	LTXH	7	13740	0.21	0.026	0.07	
438.00	441.05	3.05	569288	HYP	LTXH	7	14600	0.17	0.029	0.07	
441.05	444.09	3.04	569289	HYP	LTXH	7	13580	0.25	0.022	0.07	
444.09	447.14	3.05	569290	HYP	LTXH	7	13620	0.06	0.050	0.07	
447.14	450.19	3.05	569291	HYP	LTXH	7	13280	0.17	0.040	0.07	
450.19	453.24	3.05	569292	HYP	LTXH	7	12840	0.21	0.019	0.17	
453.24	456.29	3.05	569293	HYP	LTXH	7	14420	0.34	0.037	0.17	
456.29	459.33	3.04	569294	HYP	LTXH	7	12260	0.45	0.043	0.17	
459.33	462.38	3.05	569295	HYP	LTXH	7	13560	0.32	0.038	0.17	
462.38	465.43	3.05	569296	HYP	LTXH	7	14280	0.34	0.042	0.14	
465.43	468.48	3.05	569297	HYP	LTXH	7	14120	0.32	0.029	0.07	
468.48	471.53	3.05	569298	HYP	LTXH	7	14080	0.40	0.035	0.17	
471.53	474.57	3.04	569299	HYP	LTXH	7	14000	0.32	0.027	0.10	
474.57	477.62	3.05	569300	HYP	LTXH	7	13040	0.28	0.034	0.07	
477.62	480.67	3.05	569301	HYP	LTXH	7	13010	0.10	0.020	<0.03	
480.67	483.72	3.05	569302	HYP	LTXH	7	13480	0.42	0.023	0.24	
483.72	486.77	3.05	569303	HYP	LTXH	7	13580	0.15	0.023	0.03	
486.77	489.81	3.04	569304	HYP	LTXH	7	13680	0.07	0.013	0.07	
489.81	492.86	3.05	569305	HYP	LTXH	7	13980	0.31	0.015	0.10	
492.86	495.91	3.05	569306	HYP	LTXH	7	14160	0.04	0.003	0.07	
495.91	498.96	3.05	569307	HYP	LTXH	5	15000	0.20	0.003	0.14	
498.96	502.01	3.05	569308	HYP	LTXH	5	14380	0.02	0.002	0.07	
502.01	505.05	3.04	569309	HYP	LTXH	5	13600	0.04	0.002	0.34	
505.05	508.10	3.05	569310	HYP	WRGD	5	13380	0.03	0.002	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
508.10	511.15	3.05	569311	HYP	WRGD	5	13520	0.02	0.003	<0.03	
511.15	514.20	3.05	569312	HYP	WRGD	5	12920	0.08	0.001	0.07	
514.20	517.25	3.05	569313	HYP	WRGD	5	12580	0.20	0.002	0.07	
517.25	520.29	3.04	569314	HYP	WRGD	5	14060	0.02	0.001	0.03	
520.29	523.34	3.05	569315	HYP	WRGD	5	13280	0.01	0.005	0.07	
523.34	526.39	3.05	569316	HYP	WRGD	5	14680	0.01	0.003	<0.03	
526.39	529.44	3.05	569317	HYP	WRGD	5	13900	0.10	0.001	0.07	
529.44	532.49	3.05	569318	HYP	WRGD	5	14260	0.08	0.001	0.03	
532.49	535.53	3.04	569319	HYP	WRGD	5	13400	0.02	0.002	0.03	
535.53	538.58	3.05	569320	HYP	WRGD	5	14300	0.01	0.001	<0.03	
538.58	541.63	3.05	569321	HYP	WRGD	5	14020	0.08	0.008	0.03	
541.63	544.68	3.05	569322	HYP	WRGD	5	13940	0.02	0.003	0.10	
544.68	547.73	3.05	569323	HYP	WRGD	5	14620	0.02	0.004	<0.03	
547.73	550.77	3.04	569324	HYP	WRGD	5	14780	0.04	0.002	0.07	
550.77	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-172	Total Depth	316.08 m		
Northing	255,500.34	Casing Depth	3.66 m		Left Out
Easting	110.898.27	Survey Data	Azimuth	Dip	Instrument
Elevation	1254.92 m	Collar			
Core Size	HQ	143.6 m	Cannot read		
Drilling Started	July 3, 1993	316.1 m	290°	-82.25°	Sperry Sun
Drilling Finished	July 10, 1993				
Logged by	L. Brommeland				

Purpose/Target: To test northern extent of mineralization.

Comments: Favourable supergene mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		CASING							
3.66	5.18	1.52		OVB							
5.18	8.84	3.66	573381	CAP	FAULT	3	1260	0.27	0.006	0.69	
8.84	12.80	3.96	573382	CAP	FAULT	3	3640	0.08	0.004	0.21	
12.80	15.85	3.05	573383	CAP	FAULT	3	9480	0.10	0.012	0.21	
15.85	19.51	3.66	573384	CAP	FAULT	3	11680	0.19	0.016	0.14	
19.51	22.71	3.20	573385	CAP	FAULT	3	10040	0.12	0.010	0.14	
22.71	25.91	3.20	573386	CAP	FAULT	3	11380	0.15	0.017	0.14	
25.91	28.96	3.05	573387	CAP	FAULT	3	10400	0.17	0.008	0.21	
28.96	32.00	3.04	573388	SOX	WRDR	1/5	12300	0.16	0.003	0.17	
32.00	34.75	2.75	573389	SOX	WRDR	1/5	9260	0.12	0.004	0.14	
34.75	37.19	2.44	573390	SOX	WRGD	1/5	6900	0.23	0.003	0.17	
37.19	40.39	3.20	573391	SOX	WRDR	1/7	10500	0.15	0.003	0.14	
40.39	43.28	2.89	573392	SOX	WRGD	1/7	7520	0.13	0.004	0.14	
43.28	46.79	3.51	573393	SOX	WRGD	1/7	10660	0.14	0.008	0.14	
46.79	49.38	2.59	573394	SOX	WRGD	1/7	9360	0.13	0.018	0.34	
49.38	52.27	2.89	573395	SOX	WRDR	1/7	11740	0.14	0.007	0.17	
52.27	55.93	3.66	573396	SOX	WRDR	1/7	13260	0.12	0.013	0.17	
55.93	58.52	2.59	573397	SOX	WRDR	1/7	9840	0.19	0.019	0.24	
58.52	61.42	2.90	573398	SOX	WRDR	1/7	9200	0.21	0.016	0.55	
61.42	64.31	2.89	573399	SOX	WRDR	1/7	10140	0.16	0.022	0.17	
64.31	67.67	3.36	573400	SOX	QMFX	1/5	12380	0.15	0.034	0.07	
67.67	70.71	3.04	573401	SOX	QMFX	1	11720	0.19	0.016	0.10	
70.71	73.30	2.59	573402	SOX	QMFX	1	7720	0.14	0.014	0.14	
73.30	75.29	1.99	573403	SOX	QMFX	1	7100	0.15	0.015	0.10	
75.29	78.64	3.35	573404	SOX	QMFX	1	11020	0.19	0.007	0.21	
78.64	81.99	3.35	573405	SOX	QMFX	1	11340	0.12	0.008	0.21	
81.99	84.43	2.44	573406	TRN	WRDR	1/7	7720	0.10	0.018	0.17	
84.43	87.78	3.35	573407	TRN	WRGD	1/7	11820	0.12	0.015	0.14	
87.78	90.98	3.20	573408	TRN	WRDR	1/7	11600	0.19	0.019	0.27	
90.98	94.18	3.20	573409	TRN	WRDR	1/7	10580	0.27	0.013	0.21	
94.18	96.93	2.75	573410	HYP	WRDR	1/7	8920	0.23	0.009	0.24	
96.93	100.13	3.20	573411	HYP	WRDR	1/7	10680	0.21	0.011	0.24	
100.13	102.41	2.28	573412	HYP	WRDR	1/7	7160	0.17	0.021	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.41	104.85	2.44	573413	HYP	WRDR	1/7	8080	0.09	0.013	0.10	
104.85	107.44	2.59	573414	HYP	WRDR	1/7	8100	0.17	0.030	0.24	
107.44	110.34	2.90	573415	HYP	WRDR	1/7	9640	0.11	0.005	0.14	
110.34	114.00	3.66	573416	HYP	WRDR	1/7	12180	0.23	0.020	0.27	
114.00	117.50	3.50	573417	HYP	WRDR	1	12020	0.08	0.010	0.14	
117.50	120.70	3.20	573418	HYP	WRDR	1	11740	0.12	0.021	0.14	
120.70	123.75	3.05	573419	HYP	WRDR	1	11420	0.09	0.041	0.10	
123.75	126.80	3.05	573420	HYP	WRDR	1	12640	0.09	0.052	0.14	
126.80	129.69	2.89	573421	HYP	WRDR	1	10120	0.10	0.009	0.07	
129.69	133.05	3.36	573422	HYP	WRDR	1	9100	0.08	0.011	0.07	
133.05	136.09	3.04	573423	HYP	WRDR	1	9340	0.12	0.012	0.14	
136.09	139.14	3.05	573424	HYP	WRDR	1	10320	0.16	0.020	0.21	
139.14	142.19	3.05	573425	HYP	WRDR	1	11580	0.05	0.121	0.07	
142.19	145.24	3.05	573426	HYP	WRDR	1/7	11740	0.11	0.100	0.14	
145.24	147.83	2.59	573427	HYP	WRDR	1/7	12640	0.09	0.038	0.17	
147.83	150.27	2.44	573428	HYP	QMFX	1/7	7880	0.06	0.040	0.07	
150.27	154.53	4.26	573429	HYP	QMFX	1/7	18020	0.08	0.033	0.07	
154.53	157.58	3.05	573430	HYP	WRDR	1/7	13340	0.14	0.068	0.14	
157.58	160.63	3.05	573431	HYP	WRDR	1/7	12960	0.16	0.074	0.14	
160.63	163.68	3.05	573432	HYP	WRDR	1/7	13000	0.15	0.040	0.17	
163.68	166.73	3.05	573433	HYP	WRDR	1/7	13520	0.10	0.048	0.10	
166.73	169.77	3.04	573434	HYP	WRDR	1/7	12580	0.11	0.010	0.14	
169.77	172.82	3.05	573435	HYP	WRDR	1/7	13400	0.12	0.022	0.14	
172.82	175.87	3.05	573436	HYP	WRDR	1/7	12560	0.13	0.015	0.10	
175.87	178.92	3.05	573437	HYP	WRDR	1/7	13520	0.16	0.022	0.21	
178.92	181.97	3.05	573438	HYP	WRGD	1/7	13400	0.13	0.085	0.14	
181.97	185.01	3.04	573439	HYP	WRGD	1/7	12620	0.09	0.132	0.10	
185.01	188.06	3.05	573440	HYP	WRGD	1/7	13000	0.14	0.012	0.10	
188.06	191.11	3.05	573441	HYP	WRGD	1/7	14020	0.10	0.025	0.14	
191.11	194.16	3.05	573442	HYP	WRGD	1/7	12460	0.14	0.038	0.10	
194.16	197.21	3.05	573443	HYP	WRGD	1/7	13060	0.09	0.020	0.07	
197.21	200.25	3.04	573444	HYP	WRGD	1/7	11460	0.08	0.011	0.07	
200.25	203.30	3.05	573445	HYP	WRGD	1/7	12700	0.07	0.050	0.10	
203.30	206.35	3.05	573446	HYP	WRGD	1/7	12920	0.09	0.030	0.10	
206.35	209.40	3.05	573447	HYP	WRGD	1/7	12500	0.07	0.065	0.10	
209.40	212.45	3.05	573448	HYP	WRGD	1/7	13420	0.18	0.031	0.21	
212.45	215.49	3.04	573449	HYP	WRGD	1/7	13820	0.13	0.035	0.14	
215.49	218.54	3.05	573450	HYP	WRGD	1/7	13000	0.10	0.037	0.10	
218.54	221.59	3.05	573451	HYP	WRDR	1/7	11740	0.23	0.053	0.19	
221.59	224.64	3.05	573452	HYP	WRDR	1/7	13020	0.08	0.039	0.10	
224.64	227.69	3.05	573453	HYP	WRDR	1/7	14000	0.10	0.028	0.14	
227.69	230.73	3.04	573454	HYP	WRDR	1/7	14240	0.11	0.037	0.14	
230.73	233.78	3.05	573455	HYP	WRDR	1/7	10920	0.14	0.027	0.14	
233.78	236.83	3.05	573456	HYP	WRDR	1	13220	0.07	0.051	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	573457	HYP	WRDR	1/7	14840	0.06	0.015	0.07	
239.88	242.93	3.05	573458	HYP	WRDR	1/7	13860	0.06	0.042	0.10	
242.93	245.97	3.04	573459	HYP	WRDR	1/7	13700	0.16	0.024	0.27	
245.97	249.02	3.05	573460	HYP	WRAP	1/7	16180	0.04	0.026	0.07	
249.02	252.07	3.05	573461	HYP	WRDR	1/7	13100	0.04	0.025	0.07	
252.07	255.12	3.05	573462	HYP	WRDR	1/7	13920	0.09	0.025	0.14	
255.12	258.17	3.05	573463	HYP	WRDR	1/7	13180	0.11	0.013	0.14	
258.17	261.21	3.04	573464	HYP	WRGD	1/7	12560	0.09	0.011	0.14	
261.21	264.26	3.05	573465	HYP	WRGD	7/1	8500	0.11	0.025	0.10	
264.26	267.31	3.05	573466	HYP	WRGD	7/1	7860	0.03	0.048	0.07	
267.31	270.36	3.05	573467	HYP	WRDR	7/1	7640	0.03	0.035	0.07	
270.36	273.41	3.05	573468	HYP	WRDR	7/1	7140	0.09	0.044	0.10	
273.41	276.45	3.04	573469	HYP	WRDR	7/1	7480	0.02	0.048	0.10	
276.45	279.50	3.05	573470	HYP	QMFX	7/1	7420	0.05	0.054	0.00	
279.50	282.55	3.05	573471	HYP	QMFX	5/7	6880	0.06	0.030	0.00	
282.55	285.60	3.05	573472	HYP	QMFX	5/7	6860	0.07	0.066	0.07	
285.60	288.65	3.05	573473	HYP	QMFX	5/7	6160	0.05	0.060	0.10	
288.65	291.69	3.04	573474	HYP	QMFX	5/7	6560	0.05	0.090	0.00	
291.69	294.74	3.05	573475	HYP	QMFX	5/7	6600	0.05	0.131	0.00	
294.74	297.79	3.05	573476	HYP	QMFX	5/7	7080	0.07	0.039	0.00	
297.79	300.84	3.05	573477	HYP	QMFX	5/7	6800	0.06	0.033	0.07	
300.84	303.89	3.05	573478	HYP	QMFX	5/7	7380	0.04	0.048	0.00	
303.89	306.93	3.04	573479	HYP	QMFX	5/7	7180	0.06	0.040	0.00	
306.93	309.98	3.05	573480	HYP	QMFX	5/7	7220	0.10	0.058	0.14	
309.98	313.03	3.05	573481	HYP	QMFX	5/7	7140	0.05	0.037	0.10	
313.03	316.08	3.05	573482	HYP	LTDB	1	7140	0.03	0.012	0.07	
316.08	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-173	Total Depth	617.22 m		
Northing	254,498.25	Casing Depth	8.53 m		Left In
Easting	110,800.12	Survey Data	Azimuth	Dip	Instrument
Elevation	1336.91 m	Collar			
Core Size	HQ	154.53 m	293°	-89.00°	Sperry Sun
Drilling Started	July 7, 1993	306.93 m	268°	-88.75°	Sperry Sun
Drilling Finished	July 16, 1993	459.33 m	285°	-87.50°	Sperry Sun
Logged by	T. Case	611.73 m	287°	-87.00°	Sperry Sun

Purpose/Target: To test the continuity between Holes 93-151 and 93-153.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	12.80	12.80		OVB							
12.80	15.85	3.05	570759	CAP	WRGD	3	6460	0.06	0.020	0.27	
15.85	18.90	3.05	570760	CAP	WRDR	3	9840	0.11	0.015	0.31	
18.90	21.64	2.74	570761	CAP	WRDR	3	10760	0.15	0.013	0.31	
21.64	24.84	3.20	570762	SOX	WRGD	3	11260	0.07	0.016	0.38	
24.84	28.04	3.20	570763	SOX	WRGD	3	8000	0.07	0.033	0.34	
28.04	31.09	3.05	570764	SOX	WRGD	3/5	10560	0.08	0.025	0.24	
31.09	32.61	1.52	570765	SOX	WRDR	3/5	5500	0.34	0.028	0.41	
32.61	35.66	3.05	570766	SOX	WRGD	3/5	11580	0.07	0.015	0.24	
35.66	38.71	3.05	570767	SOX	WRGD	7/3/5	11260	0.18	0.017	0.21	
38.71	41.76	3.05	570768	SOX	WRGD	7/3/5	13620	0.13	0.024	0.17	
41.76	44.81	3.05	570769	SOX	WRGD	7/3/5	12580	0.11	0.011	0.14	
44.81	47.85	3.04	570770	SUS	PPDP	7/3/5	12600	0.20	0.017	0.31	
47.85	50.90	3.05	570771	SUS	WRDR	7/5	12600	0.09	0.006	0.17	
50.90	53.95	3.05	570772	SUS	WRDR	7/5	11100	0.13	0.013	0.17	
53.95	57.00	3.05	570773	TRN	WRDR	7/5	12260	0.58	0.014	0.48	
57.00	60.05	3.05	570774	TRN	WRGD	7/5	11280	0.45	0.016	0.27	
60.05	63.09	3.04	570775	TRN	WRGD	7/5	11640	0.37	0.017	0.21	
63.09	66.14	3.05	570776	TRN	WRDR	7/5	12360	0.32	0.018	0.21	
66.14	69.19	3.05	570777	TRN	WRGD	7/5	12740	0.40	0.023	0.21	
69.19	72.24	3.05	570778	TRN	WRGD	7/5	9660	0.39	0.022	0.17	
72.24	75.29	3.05	570779	TRN	WRGD	7/5	13040	0.28	0.010	0.14	
75.29	78.33	3.04	570780	TRN	WRGD	7/5	13260	0.24	0.011	0.34	
78.33	81.38	3.05	570781	TRN	WRGD	7/5	12760	0.17	0.013	0.27	
81.38	84.43	3.05	570782	TRN	WRGD	7/5	13040	0.19	0.018	0.24	
84.43	87.48	3.05	570783	TRN	WRGD	7/5	11960	0.35	0.017	0.34	
87.48	90.53	3.05	570784	TRN	WRDR	7/5	12560	0.25	0.013	0.34	
90.53	93.57	3.04	570785	TRN	WRGD	7/5	11440	0.52	0.020	0.38	
93.57	96.62	3.05	570786	TRN	WRGD	7/5	12420	0.86	0.032	0.58	
96.62	99.67	3.05	570787	TRN	WRGD	7/5	10920	0.26	0.012	0.31	
99.67	102.72	3.05	570788	TRN	WRGD	7/5	10940	0.26	0.024	0.38	
102.72	105.77	3.05	570789	TRN	WRGD	7/5	12460	0.34	0.023	0.34	
105.77	108.81	3.04	570790	TRN	WRDR	7/5	12640	0.16	0.013	0.24	
108.81	111.86	3.05	570791	TRN	WRGD	7/5	12700	0.29	0.025	0.38	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
111.86	114.91	3.05	570792	TRN	WRGD	7/5	12860	0.31	0.022	0.55	
114.91	117.96	3.05	570793	TRN	WRGD	7/5	11700	0.26	0.021	0.38	
117.96	120.40	2.44	570794	TRN	WRGD	7/5	9340	0.25	0.032	0.34	
120.40	123.14	2.74	570795	TRN	PPDP	7/5	10240	0.25	0.017	0.34	
123.14	126.34	3.20	570796	TRN	WRGD	7/5	10760	0.19	0.016	0.48	
126.34	130.15	3.81	570797	TRN	WRGD	7/5	14540	0.33	0.035	0.34	
130.15	133.20	3.05	570798	TRN	WRGD	7/5	11840	0.42	0.021	0.38	
133.20	136.25	3.05	570799	TRN	WRGD	7/5	11280	0.39	0.056	0.41	
136.25	139.29	3.04	570800	TRN	WRGD	7/5	11940	0.47	0.040	0.21	
139.29	142.34	3.05	570801	TRN	WRGD	7/5	11600	0.30	0.055	0.24	
142.34	145.39	3.05	570802	HYP	WRGD	7/5	11960	0.35	0.018	0.21	
145.39	148.44	3.05	570803	HYP	WRGD	7/5	11480	0.26	0.031	0.24	
148.44	151.49	3.05	570804	HYP	WRDR	7/5	12060	0.19	0.034	0.34	
151.49	154.53	3.04	570805	HYP	WRGD	7/5	12220	0.22	0.020	0.34	
154.53	157.58	3.05	570806	HYP	WRGD	7/5	11920	0.20	0.054	0.27	
157.58	160.63	3.05	570807	HYP	WRGD	7/5	12360	0.26	0.025	0.45	
160.63	163.68	3.05	570808	HYP	WRGD	7/5	12060	0.30	0.058	0.51	
163.68	166.73	3.05	570809	HYP	WRGD	7/5	12780	0.20	0.030	0.27	
166.73	169.77	3.04	570810	HYP	WRGD	7/5	12220	0.20	0.010	0.24	
169.77	172.82	3.05	570811	HYP	WRGD	7/5	12900	0.21	0.025	0.31	
172.82	175.87	3.05	570812	HYP	WRGD	7/5	11860	0.31	0.058	0.48	
175.87	178.92	3.05	570813	HYP	WRGD	7/5	11820	0.24	0.070	0.38	
178.92	181.97	3.05	570814	HYP	WRGD	7/5	12680	0.22	0.025	0.34	
181.97	185.01	3.04	570815	HYP	WRGD	7/5	12290	0.30	0.067	0.34	
185.01	188.06	3.05	570816	HYP	WRGD	7/5	12780	0.24	0.023	0.34	
188.06	191.11	3.05	570817	HYP	WRGD	7/5	12380	0.24	0.034	0.31	
191.11	194.16	3.05	570818	HYP	WRGD	7/5	12040	0.22	0.052	0.27	
194.16	197.21	3.05	570819	HYP	WRGD	7/5	11920	0.14	0.019	0.17	
197.21	200.25	3.04	570820	HYP	WRGD	7/5	13220	0.19	0.028	0.21	
200.25	203.30	3.05	570821	HYP	WRGD	5/7	12640	0.19	0.038	0.27	
203.30	206.35	3.05	570822	HYP	WRGD	5/7	13360	0.33	0.033	0.31	
206.35	209.40	3.05	570823	HYP	WRGD	5/7	13660	0.32	0.029	0.45	
209.40	212.45	3.05	570824	HYP	WRGD	5/7	12900	0.37	0.032	0.62	
212.45	215.49	3.04	570825	HYP	WRGD	5/7	13160	0.27	0.035	0.24	
215.49	218.54	3.05	570826	HYP	WRGD	5/7	12200	0.27	0.026	0.34	
218.54	221.59	3.05	570827	HYP	WRGD	5/7	12860	0.31	0.086	0.48	
221.59	224.64	3.05	570828	HYP	WRGD	5/7	12400	0.17	0.016	0.17	
224.64	227.69	3.05	570829	HYP	WRGD	5/7	12860	0.23	0.023	0.38	
227.69	230.73	3.04	570830	HYP	WRGD	5/7	12560	0.18	0.019	0.31	
230.73	233.78	3.05	570831	HYP	WRGD	5/7	13180	0.16	0.052	0.17	
233.78	236.83	3.05	570832	HYP	WRGD	5/7	13400	0.33	0.031	0.17	
236.83	239.88	3.05	570833	HYP	WRGD	5/7	12860	0.19	0.036	0.17	
239.88	242.93	3.05	570834	HYP	MBFW	5/7	12180	0.20	0.031	0.17	
242.93	245.97	3.04	570835	HYP	MBFW	5/7	11600	0.19	0.032	0.14	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
245.97	249.02	3.05	570836	HYP	MBFW	5/7	12480	0.18	0.035	0.10	
249.02	252.07	3.05	570837	HYP	MBFW	5/7	12300	0.23	0.044	0.17	
252.07	255.12	3.05	570838	HYP	MBFW	5/7	11560	0.25	0.059	0.10	
255.12	258.17	3.05	570839	HYP	MBFW	5/7	12240	0.21	0.040	0.17	
258.17	261.21	3.04	570840	HYP	MBFW	5/7	12200	0.22	0.038	0.14	
261.21	264.26	3.05	570841	HYP	MBFW	5/7	12260	0.17	0.043	0.10	
264.26	267.31	3.05	570842	HYP	MBFW	5/7	11920	0.14	0.041	0.17	
267.31	270.36	3.05	570843	HYP	MBCW	5/7	11460	0.15	0.086	0.10	
270.36	273.41	3.05	570844	HYP	MBCW	5/7	12560	0.16	0.037	0.14	
273.41	276.45	3.04	570845	HYP	MBCW	5/7	11840	0.14	0.020	0.10	
276.45	279.50	3.05	570846	HYP	MBCW	3/5	12160	0.03	0.025	<0.03	
279.50	282.55	3.05	570847	HYP	MBCW	3/5	12640	0.03	0.029	<0.03	
282.55	285.60	3.05	570848	HYP	MBCW	5/7	12880	0.05	0.042	0.03	
285.60	288.65	3.05	570849	HYP	MBCW	5/7	11620	0.18	0.032	0.07	
288.65	291.69	3.04	570850	HYP	MBCW	5/7	13260	0.13	0.020	0.10	
291.69	294.74	3.05	570851	HYP	MBCW	5/7	13400	0.16	0.029	0.38	
294.74	297.79	3.05	570852	HYP	MBCW	5/7	12900	0.26	0.026	0.65	
297.79	300.84	3.05	570853	HYP	QMCX	5/7	11420	0.16	0.020	0.10	
300.84	303.89	3.05	570854	HYP	MBCW	5/7	12880	0.24	0.039	0.17	
303.89	306.93	3.04	570855	HYP	MBCW	5/7	12750	0.15	0.076	0.17	
306.93	309.07	2.14	570856	HYP	MBCW	5/7	9400	0.13	0.069	0.10	
309.07	312.27	3.20	570857	HYP	MBCW	5/7	12420	0.11	0.059	0.10	
312.27	316.08	3.81	570858	HYP	MBCW	5/7	15700	0.19	0.051	0.10	
316.08	319.13	3.05	570859	HYP	MBCW	5/7	12600	0.17	0.065	0.07	
319.13	322.17	3.04	570860	HYP	MBCW	5/7	12980	0.16	0.041	0.14	
322.17	325.22	3.05	570861	HYP	MBCW	5/7	12220	0.18	0.060	0.17	
325.22	328.27	3.05	570862	HYP	MBCW	5/7	12980	0.18	0.044	0.14	
328.27	331.32	3.05	570863	HYP	MBCW	5/7	12480	0.16	0.039	0.10	
331.32	334.37	3.05	570864	HYP	MBCW	5/7	11750	0.15	0.045	0.07	
334.37	337.41	3.04	570865	HYP	MBCW	5/7	12060	0.15	0.043	0.10	
337.41	340.46	3.05	570866	HYP	MBCW	5/7	12520	0.29	0.105	0.21	
340.46	343.51	3.05	570867	HYP	MBCW	5/7	12380	0.35	0.074	0.31	
343.51	346.56	3.05	570868	HYP	MBCW	5/7	13040	0.21	0.073	0.21	
346.56	349.61	3.05	570869	HYP	MBCW	5/7	12660	0.17	0.051	0.14	
349.61	352.65	3.04	570870	HYP	MBCW	5/7	12540	0.12	0.076	0.14	
352.65	355.70	3.05	570871	HYP	MBCW	5/7	13160	0.15	0.069	0.14	
355.70	358.75	3.05	570872	HYP	MBCW	5/7	13080	0.21	0.086	0.14	
358.75	361.80	3.05	570873	HYP	MBCW	5/7	12260	0.20	0.060	0.14	
361.80	364.85	3.05	570874	HYP	MBCW	5/7	12940	0.25	0.037	0.14	
364.85	367.89	3.04	570875	HYP	MBCW	5/7	12540	0.20	0.115	0.14	
367.89	370.94	3.05	570876	HYP	MBFW	5/7	13000	0.15	0.053	0.10	
370.94	373.99	3.05	570877	HYP	MBFW	5/7	12500	0.24	0.049	0.24	
373.99	377.04	3.05	570878	HYP	MBFW	5/7	12300	0.23	0.078	0.17	
377.04	380.09	3.05	570879	HYP	MBFW	5/4/7	11880	0.28	0.083	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
380.09	383.13	3.04	570880	HYP	MBFW	5/4/7	12000	0.19	0.084	0.21	
383.13	386.18	3.05	570881	HYP	MBCW	5/4/7	12160	0.31	0.057	0.14	
386.18	389.23	3.05	570882	HYP	MBCW	5/4/7	12420	0.13	0.223	0.14	
389.23	392.28	3.05	570883	HYP	MBCW	5/4/7	12800	0.26	0.137	0.17	
392.28	395.33	3.05	570884	HYP	MBCW	5/4/7	12410	0.25	0.099	0.21	
395.33	398.37	3.04	570885	HYP	MBCW	5/4/7	12560	0.30	0.077	0.24	
398.37	401.42	3.05	570886	HYP	MBCW	5/4/7	12300	0.23	0.127	0.24	
401.42	404.47	3.05	570887	HYP	MBCW	5/4/7	12330	0.20	0.306	0.14	
404.47	407.52	3.05	570888	HYP	MBFW	5/4/7	12900	0.38	0.097	0.27	
407.52	410.57	3.05	570889	HYP	MBCW	5/4/7	13600	0.16	0.041	0.10	
410.57	413.61	3.04	570890	HYP	MBCW	5/4/7	13080	0.26	0.081	0.14	
413.61	416.66	3.05	570891	HYP	MBCW	5/4/7	13540	0.23	0.115	0.24	
416.66	419.71	3.05	570892	HYP	MBCW	5/4/7	13100	0.21	0.044	0.14	
419.71	422.76	3.05	570893	HYP	MBCW	7/4/5	13040	0.13	0.053	0.07	
422.76	425.81	3.05	570894	HYP	MBCW	7/4/5	12040	0.21	0.048	0.10	
425.81	428.85	3.04	570895	HYP	MBCW	7/4/5	13520	0.12	0.172	0.07	
428.85	431.90	3.05	570896	HYP	MBCW	7/4/5	12880	0.16	0.042	0.14	
431.90	434.95	3.05	570897	HYP	MBCW	7/4/5	12480	0.21	0.067	0.24	
434.95	438.00	3.05	570898	HYP	MBCW	7/4/5	12640	0.24	0.069	0.21	
438.00	441.05	3.05	570899	HYP	MBCW	7/4/5	11920	0.23	0.050	0.27	
441.05	444.09	3.04	570900	HYP	MBCW	7/4/5	11760	0.23	0.078	0.24	
444.09	447.14	3.05	570901	HYP	MBCW	7/4/5	12500	0.17	0.041	0.17	
447.14	450.19	3.05	570902	HYP	MBCW	7/4/5	12040	0.12	0.066	0.10	
450.19	453.24	3.05	570903	HYP	MBCW	7/4/5	12520	0.24	0.125	0.24	
453.24	456.29	3.05	570904	HYP	MBCW	7/4/5	11420	0.26	0.056	0.27	
456.29	459.33	3.04	570905	HYP	MBCW	7/4/5	11240	0.19	0.061	0.21	
459.33	462.38	3.05	570906	HYP	MBCW	7/4/5	12800	0.22	0.078	0.24	
462.38	465.43	3.05	570907	HYP	MBCW	7/4/6	13020	0.16	0.088	0.14	
465.43	468.48	3.05	570908	HYP	MBCW	7/4/6	12460	0.21	0.112	0.10	
468.48	471.53	3.05	570909	HYP	MBCW	7/4/6	12640	0.22	0.048	0.14	
471.53	474.57	3.04	570910	HYP	MBCW	7/4/6	13740	0.20	0.080	0.14	
474.57	477.62	3.05	570911	HYP	MBFW	7/6/4	13100	0.28	0.080	0.24	
477.62	480.67	3.05	570912	HYP	MBFW	6/7/5	12460	0.35	0.072	0.34	
480.67	483.72	3.05	570913	HYP	MBFW	6/7/5	11560	0.17	0.041	0.14	
483.72	486.77	3.05	570914	HYP	MBFW	6/7/5	11760	0.20	0.056	0.27	
486.77	489.81	3.04	570915	HYP	MBFW	6/7/5	12120	0.17	0.170	0.24	
489.81	492.86	3.05	570916	HYP	MBFW	6/7/5	11520	0.17	0.040	0.24	
492.86	495.91	3.05	570917	HYP	MBFW	6/7/5	11980	0.18	0.075	0.17	
495.91	498.96	3.05	570918	HYP	MBFW	6/7/5	11720	0.18	0.134	0.14	
498.96	502.01	3.05	570919	HYP	MBFW	6/7/5	12020	0.24	0.110	0.17	
502.01	505.05	3.04	570920	HYP	MBFW	6/7/5	11920	0.15	0.096	0.10	
505.05	508.10	3.05	570921	HYP	MBFW	6/7/5	10820	0.19	0.058	0.10	
508.10	511.15	3.05	570922	HYP	MBFW	6/7/5	11280	0.15	0.063	0.07	
511.15	514.20	3.05	570923	HYP	MBFW	6/7/5	12080	0.28	0.086	0.21	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
514.20	517.25	3.05	570924	HYP	MBFW	7/6/5	12040	0.18	0.047	0.14	
517.25	520.29	3.04	570925	HYP	MBFW	7/5/4	12100	0.20	0.080	0.10	
520.29	523.34	3.05	570926	HYP	MBFW	7/5/4	11900	0.15	0.172	0.14	
523.34	526.39	3.05	570927	HYP	MBFW	7/5/4	12300	0.15	0.154	0.14	
526.39	529.44	3.05	570928	HYP	MBFW	7/5/4	12140	0.10	0.027	0.10	
529.44	532.49	3.05	570929	HYP	MBFW	7/5/4	11320	0.12	0.046	0.07	
532.49	535.53	3.04	570930	HYP	MBFW	7/4/5	12140	0.06	0.142	0.07	
535.53	538.58	3.05	570931	HYP	MBFW	7/4/5	11700	0.16	0.052	0.10	
538.58	541.63	3.05	570932	HYP	MBFW	7/4/5	11240	0.12	0.075	0.10	
541.63	544.68	3.05	570933	HYP	MBFW	7/4/5	11340	0.12	0.046	0.10	
544.68	547.73	3.05	570934	HYP	MBFW	7/4/5	11560	0.12	0.046	0.07	
547.73	550.77	3.04	570935	HYP	MBFW	7/5	11660	0.07	0.026	0.03	
550.77	553.82	3.05	570936	HYP	MBFW	7/5	11240	0.11	0.056	0.03	
553.82	556.87	3.05	570937	HYP	MBFW	7/5	11600	0.10	0.098	0.07	
556.87	559.92	3.05	570938	HYP	MBFW	7/5	11760	0.15	0.052	0.10	
559.92	562.97	3.05	570939	HYP	MBFW	7/5	11920	0.16	0.070	0.14	
562.97	566.01	3.04	570940	HYP	MBFW	7/5/4	11150	0.20	0.051	0.14	
566.01	569.06	3.05	570941	HYP	MBFW	7/5/4	11540	0.17	0.058	0.17	
569.06	572.11	3.05	570942	HYP	MBFW	7/4/5	11620	0.17	0.089	0.14	
572.11	575.16	3.05	570943	HYP	MBFW	7/4/5	11900	0.15	0.124	0.14	
575.16	578.21	3.05	570944	HYP	MBFW	7/4/5	11840	0.17	0.026	0.10	
578.21	581.25	3.04	570945	HYP	MBFW	7/4/5	12520	0.12	0.037	0.03	
581.25	584.30	3.05	570946	HYP	MBFW	7/4/5	10820	0.15	0.139	0.07	
584.30	587.35	3.05	570947	HYP	MBFW	7/4/5	12820	0.20	0.029	0.10	
587.35	590.40	3.05	570948	HYP	MBFW	7/6	11240	0.30	0.023	0.34	
590.40	593.45	3.05	570949	HYP	MBFW	7/6	12140	0.16	0.035	0.10	
593.45	596.49	3.04	570950	HYP	MBFW	7/4/5	11800	0.26	0.047	0.27	
596.49	599.54	3.05	570951	HYP	MBFW	7/4/5	13080	0.19	0.044	0.17	
599.54	602.59	3.05	570952	HYP	MBFW	7/4/5	12520	0.14	0.045	0.10	
602.59	605.64	3.05	570953	HYP	MBFW	6/7	12040	0.24	0.054	0.17	
605.64	608.69	3.05	570954	HYP	MBFW	6/7	11720	0.22	0.107	0.24	
608.69	611.73	3.04	570955	HYP	MBFW	7/4/5	11780	0.23	0.031	0.24	
611.73	614.78	3.05	570956	HYP	MBFW	7/4/5	11260	0.16	0.048	0.14	
614.78	617.22	2.44	570957	HYP	MBFW	7/4/5	8720	0.29	0.049	0.58	
617.22	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-174	Total Depth	781.81 m		
Northing	254,866.01	Casing Depth	13.7 m		Left Out
Easting	111,367.85	Survey Data	Azimuth	Dip	Instrument
Elevation	1237.14 m	Collar			
Core Size	HQ to 219.46 m; NQ to end	341.38 m	122°	-88.5°	Sperry Sun
Drilling Started	July 7, 1993	490.73 m	105°	-88.5°	Sperry Sun
Drilling Finished	July 22, 1993	609.60 m	172°	-89.3°	Sperry Sun
Logged by	C. DeLong/M. Dittrick				

Purpose/Target: Delineation drilling.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.10	6.10		OVB							
6.10	9.14	3.04	574765	CAP	MBNX	7/3	8900	0.14	0.023	0.24	
9.14	12.19	3.05	574766	CAP	F/ZN	7/3	3580	0.05	0.026	0.31	
12.19	15.24	3.05	574767	CAP	F/ZN	7/3	10640	0.05	0.023	0.10	
15.24	17.37	2.13	574768	CAP	MBNX	7/3	8460	0.03	0.014	0.14	
17.37	18.29	0.92	574769	CAP	MBFW	7/3	4120	0.02	0.015	0.17	
18.29	21.33	3.04	574770	TRN	MBFW	7/3	10020	0.02	0.030	0.27	
21.33	24.38	3.05	574771	TRN	MBFW	7/3	12780	0.04	0.024	0.14	
24.38	26.52	2.14	574772	CAP	MBNX	7/3	5720	0.04	0.018	0.10	
26.52	29.26	2.74	574773	CAP	MBNX	7/3	9060	0.03	0.019	0.21	
29.26	32.61	3.35	574774	TRN	MBNX	7/3	14400	0.03	0.031	0.14	
32.61	35.66	3.05	574775	SUS	MBNX	7/3	10900	0.16	0.026	0.62	
35.66	39.62	3.96	574776	SUS	MBNX	7/3	13580	0.03	0.020	0.21	
39.62	42.67	3.05	574777	SUS	MBNX	7/3	12240	0.04	0.019	0.14	
42.67	45.72	3.05	574778	CAP	MBNX	7/3	6900	0.06	0.025	0.24	
45.72	48.77	3.05	574779	CAP	MBFW	7/3	7880	0.05	0.020	0.14	
48.77	51.82	3.05	574780	CAP	MBFW	7/3	11800	0.06	0.016	0.51	
51.82	54.86	3.04	574781	SUS	MBFW	7/3	12140	0.12	0.021	0.45	
54.86	57.91	3.05	574782	TRN	MBFW	7/3	8920	0.03	0.045	0.10	
57.91	60.96	3.05	574783	TRN	MBFW	7/3	8380	0.11	0.043	0.58	
60.96	63.70	2.74	574784	SUS	MBFW	7/3	10500	0.03	0.028	0.17	
63.70	66.75	3.05	574785	SUS	MBFW	7/3	12840	0.06	0.023	0.21	
66.75	69.80	3.05	574786	SUS	MBFH	7/3	12620	0.16	0.031	0.27	
69.80	73.15	3.35	574787	SUS	MBFH	7/3	13520	0.14	0.044	0.27	
73.15	76.20	3.05	574788	SUS	MBFH	7/3	11320	0.27	0.020	0.31	
76.20	79.25	3.05	574789	SUS	MBCH	7/3	12320	0.56	0.025	0.45	
79.25	82.30	3.05	574790	SUS	MBCH	7/3	11800	0.55	0.016	0.45	
82.30	85.34	3.04	574791	SUS	MBCH	7/3	12420	0.74	0.031	0.17	
85.34	88.39	3.05	574792	SUS	MBNX	7/3	12060	0.37	0.020	0.31	
88.39	91.44	3.05	574793	SUS	MBNX	7/3	13160	0.52	0.020	0.24	
91.44	94.49	3.05	574794	SUS	MBNX	7	13900	0.31	0.022	0.21	
94.49	97.54	3.05	574795	SUS	MBNX	7	13260	0.56	0.021	0.41	
97.54	100.58	3.04	574796	SUS	MBNX	7	13400	0.19	0.018	0.10	
100.58	103.63	3.05	574797	SUS	MBNX	5	8800	0.99	0.021	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
103.63	106.68	3.05	574798	SUS	MBNX	5	12860	0.47	0.022	0.45	
106.68	109.73	3.05	574799	SUS	MBNX	5	9620	0.34	0.018	0.14	
109.73	112.78	3.05	574800	SUS	MBNX	5	12860	0.43	0.035	0.21	
112.78	115.82	3.04	574801	SUS	MBCW	5	12700	0.47	0.015	0.21	
115.82	118.87	3.05	574802	SUS	MBCW	5	12660	0.37	0.028	0.24	
118.87	121.92	3.05	574803	SUS	MBCW	5	14780	0.32	0.019	0.31	
121.92	124.97	3.05	574804	SUS	MBCW	5	12580	0.16	0.013	0.03	
124.97	128.02	3.05	574805	SUS	MBCW	5	13340	0.35	0.014	0.31	
128.02	131.06	3.04	574806	SUS	MBCW	5	12060	0.32	0.024	0.24	
131.06	134.11	3.05	574807	SUS	MBNX	5	13840	0.17	0.019	0.10	
134.11	137.16	3.05	574808	SUS	MBNX	5	13960	0.39	0.032	0.41	
137.16	140.21	3.05	574809	SUS	MBNX	5	12120	0.37	0.041	0.27	
140.21	143.26	3.05	574810	SUS	MBNX	5	13540	0.27	0.016	0.21	
143.26	146.30	3.04	574811	SUS	MBNX	5	10740	0.29	0.025	0.21	
146.30	149.35	3.05	574812	SUS	MBNX	5	12860	0.28	0.027	0.14	
149.35	152.40	3.05	574813	SUS	MBNX	7	12300	0.28	0.026	0.34	
152.40	155.45	3.05	574814	SUS	MBNX	7	13420	0.22	0.020	0.17	
155.45	158.50	3.05	574815	SUS	MBNX	7	13500	0.29	0.011	0.24	
158.50	161.54	3.04	574816	SUS	MBNX	7	12580	0.33	0.018	0.31	
161.54	164.59	3.05	574817	SUS	MBNX	7	11020	0.65	0.015	0.45	
164.59	167.64	3.05	574818	SUS	MBNX	7	12900	0.63	0.020	0.58	
167.64	170.69	3.05	574819	SUS	MBNX	7	10680	0.55	0.029	0.48	
170.69	173.74	3.05	574820	SUS	MBNX	7	12120	0.29	0.023	0.27	
173.74	176.78	3.04	574821	SUS	MBNX	7	12180	0.29	0.020	0.51	
176.78	179.83	3.05	574822	SUS	MBNX	7	12440	0.42	0.024	0.58	
179.83	182.88	3.05	574823	SUS	MBNX	7	13200	0.45	0.059	0.34	
182.88	185.93	3.05	574824	SUS	MBNX	7	12060	0.31	0.015	0.27	
185.93	188.98	3.05	574825	SUS	MBNX	7	12820	0.43	0.012	0.41	
188.98	192.02	3.04	574826	SUS	MBNX	7	11160	0.48	0.023	0.48	
192.02	195.07	3.05	574827	HYP	MBCH	7	13420	0.43	0.025	0.41	
195.07	198.12	3.05	574828	HYP	MBCH	7	11760	0.38	0.020	0.31	
198.12	201.17	3.05	574829	HYP	MBCH	7	11200	0.45	0.030	0.62	
201.17	204.21	3.04	574830	HYP	MBFH	7	11780	0.34	0.021	0.24	
204.21	207.26	3.05	574831	HYP	MBNX	7	11600	0.25	0.026	0.24	
207.26	210.31	3.05	574832	HYP	MBNX	7	11740	0.36	0.023	0.38	
210.31	213.36	3.05	574833	HYP	MBNX	7	11300	0.37	0.019	0.27	
213.36	216.41	3.05	574834	HYP	MBNX	7	11300	0.55	0.032	0.38	
216.41	219.46	3.05	574835	HYP	MBNX	7	12100	0.44	0.035	0.31	
219.46	222.50	3.04	574836	HYP	MBNX	7	7540	0.28	0.022	0.21	
222.50	225.55	3.05	574837	HYP	MBFH	7	6640	0.24	0.032	0.17	
225.55	228.60	3.05	574838	HYP	MBFH	7	6960	0.30	0.020	0.24	
228.60	231.65	3.05	574839	HYP	MBFH	7	7000	0.25	0.026	0.17	
231.65	234.70	3.05	574840	HYP	MBFH	7	7120	0.25	0.014	0.21	
234.70	237.74	3.04	574841	HYP	MBFH	7	6880	0.27	0.031	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
237.74	240.79	3.05	574842	HYP	MBFH	7	7540	0.23	0.021	0.14	
240.79	243.84	3.05	574843	HYP	MBFH	7	7300	0.27	0.017	0.17	
243.84	246.89	3.05	574844	HYP	MBFH	7	7320	0.25	0.020	0.14	
246.89	249.94	3.05	574845	HYP	MBFH	7	6340	0.38	0.029	0.14	
249.94	252.98	3.04	574846	HYP	MBFH	7	7240	0.29	0.027	0.14	
252.98	256.03	3.05	574847	HYP	MBFH	7	7600	0.33	0.021	0.14	
256.03	259.08	3.05	574848	HYP	MBFH	7	7060	0.23	0.055	0.10	
259.08	262.13	3.05	574849	HYP	MBFH	7	7020	0.30	0.017	0.27	
262.13	265.18	3.05	574850	HYP	MBFH	7	7220	0.39	0.027	0.27	
265.18	268.22	3.04	574851	HYP	MBFH	7	6800	0.27	0.023	0.17	
268.22	271.27	3.05	574852	HYP	MBFH	7	7100	0.19	0.038	0.10	
271.27	274.32	3.05	574853	HYP	MBFH	7	6980	0.25	0.018	0.17	
274.32	277.37	3.05	574854	HYP	MBFH	7	6580	0.25	0.020	0.17	
277.37	280.42	3.05	574855	HYP	MBFH	7	7000	0.30	0.024	0.21	
280.42	283.46	3.04	574856	HYP	MBFH	7	7500	0.19	0.046	<0.03	
283.46	286.51	3.05	574857	HYP	MBFH	7	6180	0.20	0.034	0.07	
286.51	289.56	3.05	574858	HYP	MBFH	7	6980	0.29	0.057	0.17	
289.56	292.61	3.05	574859	HYP	MBFH	7	7420	0.30	0.022	0.24	
292.61	295.66	3.05	574860	HYP	MBFH	7	7180	0.21	0.054	0.14	
295.66	298.70	3.04	574861	HYP	MBFH	7	6920	0.30	0.066	0.21	
298.70	301.75	3.05	574862	HYP	MBFH	7	7660	0.28	0.038	0.10	
301.75	304.80	3.05	574863	HYP	MBFH	7	6880	0.35	0.042	0.31	
304.80	307.85	3.05	574864	HYP	MBFH	7	7860	0.26	0.029	0.27	
307.85	310.90	3.05	574865	HYP	MBFH	7	6880	0.35	0.018	0.24	
310.90	313.94	3.04	574866	HYP	MBFH	7	7280	0.31	0.026	0.24	
313.94	316.99	3.05	574867	HYP	MBCH	7	6820	0.31	0.027	0.17	
316.99	320.04	3.05	574868	HYP	MBCH	7	7220	0.27	0.036	0.21	
320.04	323.09	3.05	574869	HYP	MBCH	7	7120	0.22	0.022	0.27	
323.09	326.14	3.05	574870	HYP	MBCH	7	6680	0.27	0.029	0.21	
326.14	329.18	3.04	574871	HYP	MBFH	7	7460	0.28	0.032	0.10	
329.18	332.23	3.05	574872	HYP	MBFH	7	7340	0.33	0.044	0.27	
332.23	335.28	3.05	574873	HYP	MBFH	7	7180	0.36	0.020	0.24	
335.28	338.33	3.05	574874	HYP	MBFH	7	7260	0.27	0.056	0.21	
338.33	341.38	3.05	574875	HYP	MBFH	7	6760	0.27	0.029	0.17	
341.38	344.42	3.04	574876	HYP	MBFH	7	7080	0.27	0.017	0.17	
344.42	347.47	3.05	574877	HYP	MBFH	7	7100	0.36	0.044	0.27	
347.47	350.52	3.05	574878	HYP	MBCH	7	6600	0.27	0.023	0.14	
350.52	353.57	3.05	574879	HYP	MBCH	7	7220	0.24	0.020	0.17	
353.57	356.62	3.05	574880	HYP	MBCH	7	7360	0.27	0.010	0.21	
356.62	359.66	3.04	574881	HYP	MBCH	7	7080	0.49	0.021	0.62	
359.66	362.71	3.05	574882	HYP	MBCH	7	7080	0.28	0.021	0.38	
362.71	365.76	3.05	574883	HYP	MBCH	7	7120	0.34	0.015	0.34	
365.76	368.81	3.05	574884	HYP	MBCH	7	7200	0.40	0.082	0.27	
368.81	371.86	3.05	574885	HYP	MBCH	7	7260	0.37	0.021	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
371.86	374.90	3.04	574886	HYP	MBCH	7	6920	0.63	0.018	0.86	
374.90	377.95	3.05	574887	HYP	MBCH	7	7420	0.24	0.046	0.27	
377.95	381.00	3.05	574888	HYP	MBCH	7	7220	0.26	0.044	0.24	
381.00	384.05	3.05	574889	HYP	MBCH	7	7160	0.27	0.022	0.27	
384.05	387.10	3.05	574890	HYP	MBCH	7	7200	0.33	0.036	0.24	
387.10	390.14	3.04	574891	HYP	MBCH	7	7160	0.38	0.017	0.31	
390.14	393.19	3.05	574892	HYP	MBCH	7	7300	0.29	0.026	5.38	
393.19	396.24	3.05	574893	HYP	MBFH	7	7100	0.35	0.046	0.31	
396.24	399.29	3.05	574894	HYP	MBFH	7	6960	0.25	0.047	0.27	
399.29	402.34	3.05	574895	HYP	MBFH	7	7060	0.23	0.041	0.14	
402.34	405.38	3.04	574896	HYP	MBFH	7	7040	0.23	0.086	0.24	
405.38	408.43	3.05	574897	HYP	MBFH	7	7120	0.22	0.038	0.17	
408.43	411.48	3.05	574898	HYP	MBFH	7	6760	0.20	0.020	0.10	
411.48	414.53	3.05	574899	HYP	MBFH	7	7260	0.37	0.017	0.58	
414.53	417.58	3.05	574900	HYP	MBFH	7	7360	0.35	0.017	0.31	
417.58	420.62	3.04	574901	HYP	MBFH	7	7200	0.33	0.026	0.24	
420.62	423.67	3.05	574902	HYP	MBFH	7	7480	0.51	0.039	0.38	
423.67	426.72	3.05	574903	HYP	MBFH	7	7500	0.49	0.018	0.41	
426.72	429.77	3.05	574904	HYP	MBFH	7	5940	0.33	0.067	0.24	
429.77	432.82	3.05	574905	HYP	MBCH	7	6960	0.31	0.023	0.48	
432.82	435.86	3.04	574906	HYP	MBCH	7	5760	0.29	0.018	0.24	
435.86	438.91	3.05	574907	HYP	MBCH	7	6920	0.32	0.029	0.38	
438.91	441.96	3.05	574908	HYP	MBCH	7	7320	0.29	0.116	0.24	
441.96	445.01	3.05	574909	HYP	MBCH	7	7260	0.32	0.086	0.27	
445.01	448.06	3.05	574910	HYP	MBCH	7	7340	0.31	0.017	0.34	
448.06	451.10	3.04	574911	HYP	MBCH	7	7500	0.47	0.015	0.48	
451.10	454.15	3.05	574912	HYP	MBCH	7	7040	0.34	0.019	0.38	
454.15	457.20	3.05	574913	HYP	MBCH	7	7160	0.36	0.016	0.34	
457.20	460.25	3.05	574914	HYP	MBCH	7	7400	0.59	0.010	0.58	
460.25	463.30	3.05	574915	HYP	MBCH	7	7360	0.58	0.034	0.58	
463.30	466.34	3.04	574916	HYP	MBCH	7	7180	0.69	0.045	0.72	
466.34	469.39	3.05	574917	HYP	MBCH	7	7100	0.45	0.042	0.38	
469.39	472.44	3.05	574918	HYP	MBCH	7	7100	0.46	0.016	0.48	
472.44	475.49	3.05	574919	HYP	MBCH	7	6780	0.52	0.019	0.48	
475.49	478.54	3.05	574920	HYP	MBCH	7	7140	0.45	0.011	0.45	
478.54	481.58	3.04	574921	HYP	MBCH	7	7240	0.58	0.009	0.51	
481.58	484.63	3.05	574922	HYP	MBCH	7	6680	0.65	0.017	0.62	
484.63	487.68	3.05	574923	HYP	WRGD	7	6860	0.81	0.012	0.69	
487.68	490.73	3.05	574924	HYP	WRGD	7	7160	0.67	0.011	0.69	
490.73	493.78	3.05	574925	HYP	WRGD	7	6900	1.25	0.029	1.10	
493.78	496.82	3.04	574926	HYP	WRGD	7	6960	1.26	0.045	1.44	
496.82	499.87	3.05	574927	HYP	WRGD	7	6960	0.95	0.015	0.96	
499.87	502.92	3.05	574928	HYP	WRGD	7	7180	0.67	0.015	0.55	
502.92	505.97	3.05	574929	HYP	WRGD	7	6080	0.41	0.010	0.45	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
505.97	509.02	3.05	574930	HYP	WRGD	7	6900	0.32	0.006	0.27	
509.02	512.06	3.04	574931	HYP	WRGD	7	7020	0.29	0.011	0.24	
512.06	515.11	3.05	574932	HYP	WRGD	7	7820	0.22	0.010	0.14	
515.11	518.16	3.05	574933	HYP	WRGD	7	7660	0.29	0.008	0.27	
518.16	521.21	3.05	574934	HYP	WRGD	7	5740	0.31	0.014	0.24	
521.21	524.26	3.05	574935	HYP	WRGD	7	7360	0.20	0.010	0.17	
524.26	527.30	3.04	574936	HYP	WRGD	7	6960	0.27	0.010	0.31	
527.30	530.35	3.05	574937	HYP	WRGD	7	6400	0.34	0.015	0.48	
530.35	533.40	3.05	574938	HYP	WRGD	7	6860	0.17	0.029	0.10	
533.40	536.45	3.05	574939	HYP	WRGD	7	7860	0.20	0.022	0.27	
536.45	539.50	3.05	574940	HYP	WRGD	7	7240	0.18	0.008	0.14	
539.50	542.54	3.04	574941	HYP	WRGD	7	7200	0.30	0.018	0.31	
542.54	545.59	3.05	574942	HYP	WRGD	7	7220	0.20	0.019	0.21	
545.59	548.64	3.05	574943	HYP	WRGD	7	6540	0.25	0.047	0.21	
548.64	551.69	3.05	574944	HYP	WRGD	7	4300	0.32	0.014	0.17	
551.69	554.43	2.74	574945	HYP	WRGD	7	6280	0.24	0.011	0.34	
554.43	557.48	3.05	574946	HYP	WRGD	7	6680	0.46	0.015	0.45	
557.48	560.68	3.20	574947	HYP	WRGD	7	7160	0.33	0.027	0.31	
560.68	563.73	3.05	574948	HYP	WRGD	7	7300	0.32	0.020	0.27	
563.73	566.93	3.20	574949	HYP	IXAF	7	7180	0.29	0.025	0.17	
566.93	569.98	3.05	574950	HYP	IXAF	7	6740	0.25	0.017	0.31	
569.98	573.02	3.04	574951	HYP	IXAF	7	6940	0.32	0.012	0.27	
573.02	576.07	3.05	574952	HYP	IXAF	7	7240	0.40	0.022	0.62	
576.07	579.12	3.05	574953	HYP	IXAF	7	7300	0.37	0.025	0.45	
579.12	582.17	3.05	574954	HYP	IXAF	7	7220	0.26	0.011	0.38	
582.17	585.22	3.05	574955	HYP	IXAF	7	7280	0.34	0.037	0.24	
585.22	588.26	3.04	574956	HYP	WRGD	7	7540	0.29	0.011	0.31	
588.26	591.31	3.05	574957	HYP	WRGD	7	7200	0.31	0.027	0.21	
591.31	594.36	3.05	574958	HYP	WRGD	7	8120	0.18	0.011	0.14	
594.36	597.41	3.05	574959	HYP	WRGD	7	6640	0.12	0.010	0.07	
597.41	600.46	3.05	574960	HYP	WRGD	7	6660	0.12	0.007	0.03	
600.46	603.50	3.04	574961	HYP	WRGD	7	6880	0.23	0.015	0.14	
603.50	606.55	3.05	574962	HYP	WRGD	7/6	7360	0.35	0.011	0.21	
606.55	609.60	3.05	574963	HYP	WRGD	6/7	7120	0.23	0.018	0.31	
609.60	612.65	3.05	574964	HYP	WRGD	6/7	7340	0.19	0.019	0.10	
612.65	615.70	3.05	574965	HYP	WRGD	7/4	6400	0.29	0.007	0.27	
615.70	618.74	3.04	574966	HYP	WRGD	7	7300	0.37	0.016	0.82	
618.74	621.79	3.05	574967	HYP	WRGD	7	7640	0.21	0.011	0.14	
621.79	624.84	3.05	574968	HYP	WRGD	7	7120	0.25	0.023	0.14	
624.84	627.89	3.05	574969	HYP	WRGD	7	7480	0.21	0.005	0.55	
627.89	630.94	3.05	574970	HYP	WRGD	7	7720	0.25	0.015	0.69	
630.94	633.98	3.04	574971	HYP	WRGD	7	6880	0.23	0.025	0.17	
633.98	637.03	3.05	574972	HYP	WRGD	7	7340	0.18	0.023	0.10	
637.03	640.08	3.05	574973	HYP	WRGD	7	7220	0.22	0.007	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
640.08	643.13	3.05	574974	HYP	WRGD	7	6780	0.28	0.008	0.27	
643.13	646.18	3.05	574975	HYP	WRGD	7	7100	0.28	0.030	0.21	
646.18	649.22	3.04	574976	HYP	WRGD	7	7400	0.41	0.007	0.41	
649.22	652.27	3.05	574977	HYP	WRGD	7	7300	0.28	0.036	0.34	
652.27	655.32	3.05	574978	HYP	WRGD	7	7020	0.19	0.009	0.14	
655.32	658.37	3.05	574979	HYP	WRGD	7	7400	0.19	0.021	0.10	
658.37	661.42	3.05	574980	HYP	WRGD	7	6880	0.18	0.003	0.24	
661.42	664.46	3.04	574981	HYP	WRGD	6	7080	0.11	0.010	0.10	
664.46	667.51	3.05	574982	HYP	WRGD	6	6940	0.22	0.005	0.24	
667.51	670.56	3.05	574983	HYP	WRGD	6	7000	0.25	0.014	0.24	
670.56	673.61	3.05	574984	HYP	WRGD	6	7200	0.22	0.008	0.21	
673.61	676.66	3.05	574985	HYP	WRGD	6	7220	0.42	0.014	0.41	
676.66	679.70	3.04	574986	HYP	WRGD	6	8040	0.37	0.013	0.31	
679.70	682.75	3.05	574987	HYP	WRGD	6	6140	0.59	0.011	0.34	
682.75	685.80	3.05	574988	HYP	WRGD	6	6620	0.21	0.006	0.27	
685.80	688.85	3.05	574989	HYP	WRGD	7/6	7040	0.25	0.005	0.21	
688.85	691.90	3.05	574990	HYP	WRGD	6/7	6420	0.30	0.011	0.21	
691.90	694.94	3.04	574991	HYP	WRGD	7/6	6520	0.15	0.009	0.17	
694.94	697.99	3.05	574992	HYP	WRGD	7/6	6700	0.21	0.008	0.17	
697.99	701.04	3.05	574993	HYP	WRGD	7	6780	0.18	0.006	0.17	
701.04	704.09	3.05	574994	HYP	WRGD	7/6	6440	0.35	0.017	0.24	
704.09	707.14	3.05	574995	HYP	WRGD	7/6	8040	0.38	0.019	0.34	
707.14	710.18	3.04	574996	HYP	WRGD	7/6	5680	0.50	0.017	0.34	
710.18	713.23	3.05	574997	HYP	WRGD	7	7380	0.21	0.007	0.21	
713.23	716.28	3.05	574998	HYP	WRGD	7	5000	0.23	0.010	0.17	
716.28	719.33	3.05	574999	HYP	WRGD	7	9160	0.16	0.006	0.07	
719.33	722.38	3.05	575000	HYP	WRGD	7	7120	0.19	0.006	0.24	
722.38	725.42	3.04	575001	HYP	WRGD	7	7180	0.20	0.024	0.24	
725.42	728.47	3.05	575002	HYP	WRGD	7	7040	0.14	0.008	0.10	
728.47	731.52	3.05	575003	HYP	WRGD	7	7000	0.18	0.010	0.14	
731.52	734.57	3.05	575004	HYP	WRGD	7	7340	0.17	0.008	0.14	
734.57	737.62	3.05	575005	HYP	WRGD	7	7520	0.33	0.009	0.14	
737.62	740.66	3.04	575006	HYP	WRGD	7	7600	0.15	0.005	0.14	
740.66	743.71	3.05	575007	HYP	WRGD	7	7200	0.18	0.004	0.27	
743.71	746.76	3.05	575008	HYP	WRGD	7/4	7600	0.24	0.014	0.17	
746.76	749.81	3.05	575009	HYP	WRGD	7	7680	0.22	0.008	0.24	
749.81	752.86	3.05	575010	HYP	WRGD	7	7020	0.16	0.009	0.17	
752.86	755.90	3.04	575011	HYP	WRGD	7	7540	0.18	0.011	0.14	
755.90	758.95	3.05	575012	HYP	WRGD	7	7640	0.19	0.011	0.17	
758.95	762.00	3.05	575013	HYP	WRGD	7/6	7600	0.25	0.026	0.27	
762.00	765.05	3.05	575014	HYP	WRGD	6	7180	0.20	0.016	0.24	
765.05	768.10	3.05	575015	HYP	WRGD	7/6	7460	0.25	0.028	0.17	
768.10	771.14	3.04	575016	HYP	WRGD	7	7360	0.14	0.005	0.14	
771.14	774.19	3.05	575017	HYP	WRGD	7	7060	0.15	0.008	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
774.19	777.24	3.05	575018	HYP	WRGD	6	7320	0.22	0.008	0.31	
777.24	780.29	3.05	575019	HYP	WRGD	6	6900	0.21	0.014	0.14	
780.29	781.81	1.52	575020	HYP	WRGD	6	3520	0.09	0.011	0.17	
781.81	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-175	**Total Depth**	413.61 m		
Northing	254,502.71	**Casing Depth**	4.9 m		Left In
Easting	110,595.69	**Survey Data**	**Azimuth**	**Dip**	**Instrument**
Elevation	1345.37 m	**Collar**		-90.0°	
Core Size	HQ to 277.67 m; NQ to end	304.8 m	330°	-89.5°	Sperry Sun
Drilling Started	July 8, 1993	412.5 m	270°	-89.0°	Sperry Sun
Drilling Finished	July 15, 1993				
Logged by	M.P. Phillips				
Purpose/Target:	Grid drilling.				
Comments:	The drill hole cut normal, brecciated and milled potassic altered granodiorite with a moderate-strong phyllic overprint. Hypogene copper mineralization is weak. Better grades occur in a 57 m wide supergene sulphide zone. Phyllic veining and pyrite content indicate this area is in pyrite halo.				

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.57	4.57		OVB							
4.57	8.23	3.66	564519	CAP	LPXX	3/5	10720	0.02	0.028	0.14	
8.23	11.28	3.05	564520	CAP	LPXX	3/5	10700	0.03	0.005	0.17	
11.28	14.33	3.05	564521	CAP	LPXX	3/5	11840	0.03	0.005	0.14	
14.33	17.37	3.04	564522	CAP	LPXX	3/5	10760	0.02	0.019	0.34	
17.37	20.42	3.05	564523	CAP	MBFW	3/5	12140	0.03	0.033	0.48	
20.42	23.47	3.05	564524	CAP	MBFW	3/5	12480	0.04	0.029	0.27	
23.47	26.52	3.05	564525	CAP	MBFW	3/5	12960	0.30	0.024	0.41	
26.52	29.57	3.05	564526	CAP	MBFW	3/5	10860	0.07	0.020	0.38	
29.57	32.61	3.04	564527	SOX	MBFW	3/5	9980	0.02	0.020	0.45	
32.61	35.66	3.05	564528	SOX	MBFW	3/5	9160	0.02	0.017	0.48	
35.66	38.40	2.74	564529	SOX	MBFW	3/5	8220	0.01	0.018	0.31	
38.40	41.45	3.05	564530	SOX	MBFW	3/5	11640	0.01	0.018	0.31	
41.45	44.20	2.75	564531	SOX	MBFW	3/5	8280	0.01	0.017	0.55	
44.20	47.24	3.04	564532	SOX	MBFW	3/5	10780	0.02	0.022	0.31	
47.24	50.90	3.66	564533	SOX	MBFW	3/5	14380	0.02	0.022	0.24	
50.90	53.95	3.05	564534	CAP	MBFW	3/7	12080	0.06	0.029	0.41	
53.95	57.00	3.05	564535	CAP	MBFW	3/7	13000	0.38	0.034	0.65	
57.00	60.05	3.05	564536	CAP	MBFW	7/3	12040	0.26	0.019	0.65	
60.05	63.09	3.04	564537	CAP	PPDP	7/5	13160	0.15	0.010	0.17	
63.09	66.14	3.05	564538	CAP	MBFW	5/7	12360	0.16	0.023	0.21	
66.14	69.19	3.05	564539	CAP	MBFW	7/3	13200	0.32	0.031	0.41	
69.19	72.24	3.05	564540	CAP	MBFW	7/3	12500	0.14	0.026	0.31	
72.24	75.29	3.05	564541	TRN	PPDP	1/2	14300	0.16	0.007	0.14	
75.29	78.33	3.04	564542	TRN	PPDP	1/2	13000	0.14	0.022	0.17	
78.33	81.38	3.05	564543	SUS	MBCW	7/3	13440	0.17	0.018	0.34	
81.38	84.42	3.04	564544	SUS	MBCP	7/3	12820	0.13	0.012	0.21	
84.42	87.48	3.06	564545	SUS	PPDP	7/1	12440	0.15	0.009	0.10	
87.48	90.53	3.05	564546	SUS	MBNW	7/4	12580	0.08	0.039	0.31	
90.53	93.57	3.04	564547	SUS	MBNW	7/4	12680	0.04	0.045	0.41	
93.57	96.62	3.05	564548	CAP	MBFW	7/3	12380	0.03	0.039	0.38	
96.62	99.67	3.05	564549	CAP	MBFW	7/5	11280	0.02	0.037	0.55	
99.67	102.72	3.05	564550	CAP	MBCW	7/3	12820	0.03	0.042	0.55	
102.72	105.77	3.05	564551	CAP	WRGX	7/1	12560	0.04	0.019	0.38	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	564552	CAP	WRGX	7/4	11880	0.05	0.020	0.58	
108.81	111.86	3.05	564553	CAP	WRGX	7/4	12240	0.03	0.020	0.27	
111.86	114.91	3.05	564554	CAP	WRGX	7/4	11540	0.03	0.032	0.27	
114.91	117.96	3.05	564555	CAP	MBNW	7/4	12200	0.01	0.019	0.27	
117.96	121.01	3.05	564556	CAP	WRGX	7/4	11700	0.02	0.045	0.27	
121.01	124.05	3.04	564557	CAP	WRGD	7/4	11520	0.02	0.041	0.31	
124.05	127.10	3.05	564558	CAP	WRGD	7/4	11650	0.03	0.047	0.27	
127.10	130.15	3.05	564559	CAP	WRGD	7/4	12260	0.04	0.029	0.24	
130.15	133.20	3.05	564560	CAP	WRGD	5/4	11860	0.03	0.023	0.21	
133.20	136.25	3.05	564561	CAP	WRGD	7/4	11440	0.06	0.032	0.27	
136.25	139.29	3.04	564562	SUS	WRGX	7/4	12420	0.06	0.039	0.48	
139.29	141.72	2.43	564563	SUS	WRGX	7/5	9580	0.14	0.035	0.24	
141.72	144.78	3.06	564564	SUS	WRGX	7/4	12720	0.16	0.036	0.21	
144.78	148.44	3.66	564565	SUS	WRGX	5/4	12780	0.10	0.055	0.21	
148.44	150.27	1.83	564566	SUS	WRGD	5/7	6620	0.07	0.058	6.20	
150.27	152.40	2.13	564567	SUS	WRGD	5/7	7660	0.05	0.072	0.55	
152.40	154.53	2.13	564568	SUS	WRGD	5/7	9020	0.33	0.037	0.31	
154.53	157.58	3.05	564569	SUS	WRGD	4/7	11280	0.39	0.046	0.24	
157.58	160.63	3.05	564570	SUS	WRGD	4/7	11780	0.44	0.047	0.51	
160.63	163.68	3.05	564571	SUS	MBFW	5/7	11860	0.51	0.084	0.38	
163.68	166.73	3.05	564572	SUS	MBFW	5/7	10920	0.47	0.111	0.45	
166.73	169.77	3.04	564573	SUS	MBNW	5/7	10040	0.16	0.068	0.17	
169.77	172.82	3.05	564574	SUS	WRGX	5/4	9740	0.42	0.048	0.69	
172.82	175.87	3.05	564575	SUS	WRGX	4/7	10360	0.41	0.035	0.45	
175.87	178.92	3.05	564576	SUS	WRGX	5/4	12180	0.40	0.041	0.34	
178.92	181.96	3.04	564577	SUS	WRGX	4/5	11060	0.42	0.032	0.38	
181.96	185.01	3.05	564578	SUS	WRGD	4/5	11900	0.40	0.110	0.24	
185.01	188.06	3.05	564579	SUS	WRGD	5/4	11540	0.66	0.109	0.38	
188.06	191.11	3.05	564580	SUS	WRGD	4/5	12360	0.28	0.052	0.24	
191.11	194.16	3.05	564581	SUS	WRGD	4/5	9300	0.36	0.024	0.27	
194.16	197.21	3.05	564582	SUS	WRGD	4/5	11380	0.51	0.036	0.24	
197.21	200.25	3.04	564583	TRN	WRGD	4/5	12400	0.26	0.033	0.21	
200.25	203.30	3.05	564584	TRN	WRGD	4/7	12040	0.42	0.055	0.17	
203.30	206.35	3.05	564585	TRN	WRGD	4/7	12280	0.22	0.025	0.24	
206.35	209.40	3.05	564586	TRN	WRGD	4/7	11220	0.14	0.046	0.14	
209.40	212.45	3.05	564587	TRN	WRGD	7/4	12540	0.28	0.016	0.27	
212.45	215.49	3.04	564588	TRN	WRGD	7/4	12740	0.36	0.036	0.31	
215.49	218.54	3.05	564589	TRN	WRGD	7/4	11840	0.22	0.044	0.17	
218.54	221.59	3.05	564590	HYP	WRGD	5/7	11060	0.25	0.025	0.21	
221.59	224.64	3.05	564591	HYP	WRGD	7/5	10740	0.17	0.030	0.17	
224.64	227.69	3.05	564592	HYP	WRGD	5/7	11840	0.15	0.034	0.24	
227.69	230.73	3.04	564593	HYP	WRGD	7/5	10600	0.15	0.106	0.38	
230.73	233.78	3.05	564594	HYP	WRGD	7/5	10740	0.20	0.091	0.24	
233.78	236.83	3.05	564595	HYP	WRGD	4/5	12000	0.18	0.049	0.17	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	564596	HYP	WRGD	4/5	12540	0.26	0.024	0.24	
239.88	242.93	3.05	564597	HYP	WRGD	5	10820	0.12	0.036	0.45	
242.93	245.97	3.04	564598	HYP	WRGD	4/5	13460	0.21	0.017	0.21	
245.97	249.02	3.05	564599	HYP	WRGD	4/5	12440	0.30	0.028	0.24	
249.02	252.07	3.05	564600	HYP	WRGD	7/5	12480	0.21	0.039	0.17	
252.07	255.12	3.05	564601	HYP	WRGD	4/5	11640	0.22	0.040	0.21	
255.12	258.17	3.05	564602	HYP	WRGD	7/5	12260	0.24	0.036	0.27	
258.17	261.21	3.04	564603	HYP	WRGD	7/5	12880	0.18	0.031	0.17	
261.21	264.26	3.05	564604	HYP	WRGD	7/5	12120	0.23	0.041	0.21	
264.26	267.31	3.05	564605	HYP	WRGD	7/4	12800	0.24	0.039	0.24	
267.31	270.36	3.05	564606	HYP	WRGD	4/7	12360	0.30	0.057	0.31	
270.36	273.41	3.05	564607	HYP	WRGD	4/7	12320	0.29	0.063	0.27	
273.41	276.45	3.04	564608	HYP	WRGD	4/5	11700	0.19	0.029	0.21	
276.45	277.67	1.22	564609	HYP	WRGD	5	4980	0.22	0.058	0.34	
277.67	279.50	1.83	564610	HYP	WRGX	7/5	3560	0.33	0.072	0.27	
279.50	282.55	3.05	564611	HYP	WRGX	5/4	6940	0.31	0.061	0.21	
282.55	285.60	3.05	564612	HYP	WRGX	4/5	6800	0.23	0.046	0.17	
285.60	288.65	3.05	564613	HYP	WRGX	5/4	6800	0.18	0.044	0.14	
288.65	291.69	3.04	564614	HYP	WRGX	5/4	7540	0.21	0.041	0.27	
291.69	294.74	3.05	564615	HYP	WRGX	4/5	6960	0.17	0.096	0.17	
294.74	297.79	3.05	564616	HYP	WRGX	4/5	6980	0.17	0.048	0.17	
297.79	300.84	3.05	564617	HYP	WRGX	5/4	7720	0.19	0.066	0.27	
300.84	303.89	3.05	564618	HYP	WRGX	5/4	7140	0.09	0.223	0.34	
303.89	306.93	3.04	564619	HYP	WRGX	4/5	6780	0.23	0.075	0.24	
306.93	309.98	3.05	564620	HYP	WRGX	5/4	6880	0.20	0.048	0.14	
309.98	313.03	3.05	564621	HYP	WRGX	5/4	7200	0.18	0.125	0.14	
313.03	316.08	3.05	564622	HYP	WRGX	4/5	6880	0.21	0.099	0.17	
316.08	319.13	3.05	564623	HYP	WRGX	5/4	6880	0.18	0.138	0.21	
319.13	322.17	3.04	564624	HYP	WRGX	5/4	6380	0.19	0.075	0.34	
322.17	325.22	3.05	564625	HYP	WRGX	5/4	7520	0.13	0.079	0.34	
325.22	328.27	3.05	564626	HYP	WRGX	5/4	6820	0.20	0.062	0.21	
328.27	331.32	3.05	564627	HYP	WRGX	4/5	6920	0.26	0.070	0.41	
331.32	334.37	3.05	564628	HYP	WRGX	4/5	6680	0.32	0.074	0.41	
334.37	337.41	3.04	564629	HYP	WRGX	4/5	7220	0.37	0.068	0.21	
337.41	340.46	3.05	564630	HYP	WRGX	4/5	6700	0.22	0.104	0.14	
340.46	343.51	3.05	564631	HYP	WRGX	4/5	6780	0.16	0.065	0.24	
343.51	346.56	3.05	564632	HYP	WRGX	4/3	6820	0.15	0.131	0.14	
346.56	349.61	3.05	564633	HYP	WRGX	4/3	6560	0.24	0.045	0.14	
349.61	352.65	3.04	564634	HYP	WRGX	4/5	7200	0.18	0.071	0.27	
352.65	355.70	3.05	564635	HYP	WRGX	5/4	6980	0.16	0.072	0.24	
355.70	358.75	3.05	564636	HYP	WRGD	7/1	6860	0.24	0.042	0.21	
358.75	361.80	3.05	564637	HYP	WRGD	4/5	6600	0.21	0.034	0.14	
361.80	364.85	3.05	564638	HYP	WRGD	4/5	7100	0.21	0.049	0.17	
364.85	367.89	3.04	564639	HYP	WRGD	7/5	7420	0.19	0.066	0.17	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	564640	HYP	WRGD	5/4	7440	0.15	0.046	0.21	
370.94	373.99	3.05	564641	HYP	WRGD	4/5	7060	0.15	0.059	0.10	
373.99	377.04	3.05	564642	HYP	WRGD	4/5	6900	0.20	0.108	0.10	
377.04	380.09	3.05	564643	HYP	WRGD	7/1	7060	0.21	0.030	0.17	
380.09	383.13	3.04	564644	HYP	WRGD	4/5	7560	0.21	0.033	0.17	
383.13	386.18	3.05	564645	HYP	WRGD	5	8460	0.06	0.026	0.58	
386.18	389.23	3.05	564646	HYP	WRGD	5/7	7320	0.14	0.061	0.21	
389.23	392.27	3.04	564647	HYP	WRGD	3/5	6460	0.21	0.032	0.24	
392.27	395.33	3.06	564648	HYP	WRGD	3/7	6640	0.16	0.043	0.14	
395.33	398.37	3.04	564649	HYP	WRGD	3/7	5400	0.21	0.064	0.21	
398.37	401.42	3.05	564650	HYP	WRGD	3/7	6880	0.17	0.086	0.17	
401.42	404.47	3.05	564651	HYP	WRGD	3/7	6500	0.12	0.065	0.10	
404.47	407.52	3.05	564652	HYP	PPDP	7/5	6420	0.12	0.037	0.14	
407.52	410.56	3.04	564653	HYP	WRGD	5/3	6900	0.08	0.172	0.07	
410.56	413.61	3.05	564654	HYP	WRGD	7/1	6840	0.08	0.068	0.10	
413.61	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-176	**Total Depth**	474.57 m
Northing	255,030.32	**Casing Depth**	10.97 m Left Out
Easting	111,616.08	**Survey Data**	**Azimuth** **Dip** **Instrument**
Elevation	1171.80 m	**Collar**	
Core Size	HQ to 247.19 m; NQ to end	154.53 m	015° -89.25° Sperry Sun
Drilling Started	July 11, 1993	306.93 m	198° -89.25° Sperry Sun
Drilling Finished	July 21, 1993	462.38 m	210° -88.25° Sperry Sun
Logged by	L. Brommeland		

Purpose/Target: To test northern extent of mineralization on east side of fault.

Comments: Strong hypogene mineralization within heterolithic intrusion breccia.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	10.97	10.97		OVB							
10.97	14.33	3.36	573482	CAP	WRGD	3	Estimated	0.10	0.016	0.17	
14.33	17.98	3.65	573483	CAP	WRGD	3	3840	0.10	0.016	0.17	
17.98	21.03	3.05	573484	CAP	WRGD	3	7460	0.10	0.005	0.14	
21.03	23.45	2.42	573485	CAP	WRGD	3	6960	0.08	0.004	0.14	
23.45	26.52	3.07	573486	CAP	WRGD	3	5500	0.06	0.003	0.17	
26.52	28.96	2.44	573487	CAP	WRGD	3	6740	0.04	0.002	0.21	
28.96	32.31	3.35	573488	CAP	WRGD	3	9780	0.04	0.003	0.41	
32.31	35.36	3.05	573489	CAP	WRGD	3	7560	0.04	0.004	0.24	
35.36	37.80	2.44	573490	CAP	WRGD	3	7340	0.04	0.002	0.07	
37.80	41.61	3.81	573491	CAP	WRGD	3	12260	0.05	0.004	0.14	
41.61	44.20	2.59	573492	CAP	WRGD	3	9480	0.12	0.014	0.14	
44.20	47.24	3.04	573493	SOX	WRGD	3	11900	0.12	0.004	0.17	
47.24	49.83	2.59	573494	SUS	WRGD	3	9980	0.70	0.030	0.45	
49.83	52.43	2.60	573495	SUS	WRGD	3	8920	0.57	0.011	0.45	
52.43	55.47	3.04	573496	SUS	WRGD	3	10600	0.62	0.010	0.41	
55.47	59.13	3.66	573497	SUS	WRGD	7/3	13060	0.33	0.011	0.38	
59.13	62.48	3.35	573498	SUS	WRGD	7/3	12480	0.39	0.013	0.27	
62.48	65.23	2.75	573499	SUS	WRGD	7/3	9160	0.37	0.019	0.34	
65.23	68.88	3.65	573500	SUS	WRGD	7/3	13040	0.37	0.014	0.27	
68.88	71.32	2.44	573501	SUS	WRGD	7/3	7680	0.40	0.018	0.24	
71.32	73.76	2.44	573502	SUS	WRGD	7/3	9280	0.27	0.010	0.24	
73.76	76.20	2.44	573503	SUS	WRGD	7/3	8180	0.22	0.009	0.21	
76.20	79.25	3.05	573504	HYP	WRGD	7	10040	0.30	0.009	0.24	
79.25	82.14	2.89	573505	HYP	WRGD	7	10300	0.30	0.009	0.24	
82.14	85.34	3.20	573506	HYP	WRGD	7	10860	0.20	0.006	0.21	
85.34	88.39	3.05	573507	HYP	QMFX	7	11600	0.13	0.007	0.21	
88.39	91.44	3.05	573508	HYP	QMFX	5	10920	0.08	0.004	0.07	
91.44	94.18	2.74	573509	HYP	QMFX	5	9620	0.10	0.004	0.14	
94.18	97.69	3.51	573510	HYP	QMFX	5	12480	0.09	0.004	0.07	
97.69	100.58	2.89	573511	HYP	QMFX	5	10760	0.21	0.017	0.21	
100.58	103.33	2.75	573512	HYP	WRGD	7	9780	0.33	0.006	0.31	
103.33	106.38	3.05	573513	HYP	WRGD	5/7	10920	0.46	0.005	0.41	
106.38	109.42	3.04	573514	HYP	WRGD	7	10740	0.33	0.006	0.24	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
109.42	110.95	1.53	573515	HYP	WRGD	7	5100	0.28	0.006	0.55	
110.95	113.39	2.44	573516	HYP	WRGD	7/5	7920	0.30	0.016	0.27	
113.39	116.43	3.04	573517	HYP	QMFX	7/5	11240	0.13	0.009	0.17	
116.43	119.18	2.75	573518	HYP	WRGD	7	8360	0.15	0.007	0.14	
119.18	122.53	3.35	573519	HYP	WRGD	7	11860	0.17	0.007	0.17	
122.53	125.58	3.05	573520	HYP	WRGD	7	10280	0.16	0.006	0.21	
125.58	127.10	1.52	573521	HYP	WRGD	7	6660	0.09	0.003	0.10	
127.10	130.15	3.05	573522	HYP	WRGD	7	12180	0.22	0.005	0.14	
130.15	133.20	3.05	573523	HYP	WRGD	7	12160	0.25	0.009	0.24	
133.20	136.25	3.05	573524	HYP	WRGD	7	11440	0.20	0.012	0.17	
136.25	139.29	3.04	573525	HYP	WRGD	7	11660	0.12	0.022	0.14	
139.29	142.34	3.05	573526	HYP	WRGD	7	12220	0.28	0.009	0.34	
142.34	145.39	3.05	573527	HYP	WRGD	7	11420	0.13	0.010	0.14	
145.39	148.44	3.05	573528	HYP	WRGD	7	11200	0.16	0.010	0.14	
148.44	151.49	3.05	573529	HYP	WRGD	7	11560	0.19	0.011	0.24	
151.49	154.53	3.04	573530	HYP	WRGD	7	11280	0.21	0.010	0.24	
154.53	157.58	3.05	573531	HYP	WRGD	7	10380	0.31	0.030	0.31	
157.58	160.63	3.05	573532	HYP	WRGD	7	11400	0.18	0.024	0.21	
160.63	163.68	3.05	573533	HYP	WRGD	7	12200	0.17	0.005	0.21	
163.68	166.11	2.43	573534	HYP	WRGD	7	9280	0.18	0.003	0.27	
166.11	169.16	3.05	573535	HYP	WRGD	7	10440	0.12	0.003	0.14	
169.16	172.21	3.05	573536	HYP	WRGD	7	8680	0.22	0.013	0.24	
172.21	175.41	3.20	573537	HYP	WRGD	7	14600	0.35	0.015	0.21	
175.41	178.46	3.05	573538	HYP	WRGD	7	11920	0.28	0.007	0.27	
178.46	181.66	3.20	573539	HYP	IXAF	7	11360	0.35	0.013	0.31	
181.66	184.86	3.20	573540	HYP	IXAF	7	12440	0.29	0.010	0.27	
184.86	188.06	3.20	573541	HYP	IXAF	7	11080	0.65	0.038	0.55	
188.06	191.11	3.05	573542	HYP	IXAF	7	12080	0.57	0.028	0.62	
191.11	194.16	3.05	573543	HYP	IXAF	7	12080	0.43	0.006	0.45	
194.16	197.21	3.05	573544	HYP	IXAF	7	11320	0.26	0.044	0.62	
197.21	200.25	3.04	573545	HYP	PPDP	7	12260	0.23	0.021	0.31	
200.25	203.30	3.05	573546	HYP	PPDP	7	11440	0.11	0.003	0.10	
203.30	206.35	3.05	573547	HYP	IXAF	7	11600	0.15	0.012	0.14	
206.35	209.40	3.05	573548	HYP	IXAF	7	11960	0.13	0.046	0.17	
209.40	212.45	3.05	573549	HYP	IXAF	7	11860	0.37	0.018	0.48	
212.45	215.49	3.04	573550	HYP	IXAF	7	12140	0.21	0.012	0.24	
215.49	218.54	3.05	573551	HYP	IXAF	7	11820	0.38	0.010	0.34	
218.54	221.59	3.05	573552	HYP	IXAF	7	11780	0.26	0.019	0.31	
221.59	224.64	3.05	573553	HYP	IXAF	7	12260	0.29	0.019	0.27	
224.64	227.69	3.05	573554	HYP	IXAF	7	11780	0.24	0.020	0.24	
227.69	230.73	3.04	573555	HYP	IXAF	7	11420	0.21	0.020	0.21	
230.73	233.78	3.05	573556	HYP	IXAF	7	11620	0.21	0.046	0.21	
233.78	236.83	3.05	573557	HYP	IXAF	7	12100	0.22	0.042	0.21	
236.83	239.88	3.05	573558	HYP	IXAF	7	11980	0.32	0.027	0.31	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	573559	HYP	IXAF	7	11460	0.28	0.080	0.38	
242.93	245.97	3.04	573560	HYP	IXAF	7	11220	0.30	0.042	0.34	
245.97	247.19	1.22	573561	HYP	IXAF	7	4600	0.29	0.029	0.48	
247.19	249.02	1.83	573562	HYP	IXAF	7/5	3700	0.26	0.051	0.34	
249.02	252.07	3.05	573563	HYP	IXAF	7/5	6500	0.23	0.118	0.27	
252.07	255.12	3.05	573564	HYP	IXAF	7/5	7100	0.25	0.028	0.38	
255.12	258.17	3.05	573565	HYP	IXAF	7/5	6420	0.21	0.026	0.31	
258.17	261.21	3.04	573566	HYP	IXAF	7/5	5960	0.12	0.034	0.14	
261.21	264.26	3.05	573567	HYP	IXAF	7/5	6520	0.31	0.050	0.72	
264.26	267.31	3.05	573568	HYP	IXAF	7/5	6580	0.49	0.050	0.55	
267.31	270.36	3.05	573569	HYP	IXAF	7/5	6920	0.60	0.051	0.65	
270.36	273.41	3.05	573570	HYP	IXAF	7/5	6280	0.55	0.026	0.72	
273.41	276.45	3.04	573571	HYP	IXAF	7/5	7540	0.35	0.046	0.51	
276.45	279.50	3.05	573572	HYP	IXAF	7	7820	0.29	0.021	0.38	
279.50	282.55	3.05	573573	HYP	IXAF	7	8080	0.27	0.019	0.55	
282.55	285.60	3.05	573574	HYP	IXAF	7	7940	0.34	0.051	0.51	
285.60	288.65	3.05	573575	HYP	IXAF	7	7720	0.29	0.024	0.55	
288.65	291.69	3.04	573576	HYP	IXAF	7/3	7580	0.33	0.018	0.48	
291.69	294.74	3.05	573577	HYP	IXAF	7/3	8080	0.33	0.035	0.65	
294.74	297.79	3.05	573578	HYP	IXAF	7/3	7680	0.44	0.018	0.93	
297.79	300.84	3.05	573579	HYP	IXAF	7/3	7780	0.29	0.022	0.34	
300.84	303.89	3.05	573580	HYP	IXAF	7/3	8140	0.24	0.020	0.31	
303.89	306.93	3.04	573581	HYP	IXAF	7/3	7500	0.19	0.029	0.27	
306.93	309.98	3.05	573582	HYP	IXAF	7/3	7440	0.19	0.039	0.27	
309.98	313.03	3.05	573583	HYP	IXAF	7/3	7400	0.33	0.043	0.58	
313.03	316.08	3.05	573584	HYP	IXAF	7/3	7500	0.28	0.039	0.51	
316.08	319.13	3.05	573585	HYP	IXAF	7/3	6680	0.25	0.048	0.48	
319.13	322.17	3.04	573586	HYP	IXAF	7/3	6620	0.31	0.014	0.31	
322.17	325.22	3.05	573587	HYP	IXAF	7/3	6500	0.55	0.074	0.79	
325.22	328.27	3.05	573588	HYP	IXAF	7/3	7220	0.16	0.136	1.20	
328.27	331.32	3.05	573589	HYP	IXAF	7/3	7020	0.29	0.068	0.38	
331.32	334.37	3.05	573590	HYP	IXAF	7/3	6680	0.23	0.097	0.27	
334.37	337.41	3.04	573591	HYP	IXAF	7/3	6640	0.42	0.080	0.31	
337.41	340.46	3.05	573592	HYP	IXAF	7/3	6160	0.32	0.020	0.48	
340.46	343.51	3.05	573593	HYP	IXAF	7/3	6260	0.19	0.028	0.21	
343.51	346.56	3.05	573594	HYP	PPDP	7/3	6440	0.11	0.026	0.17	
346.56	348.69	2.13	573595	HYP	PPDP	7/3	4160	0.06	0.006	0.14	
348.69	350.82	2.13	573596	HYP	PPDP	7/3	3800	0.09	0.003	0.17	
350.82	352.65	1.83	573597	HYP	PPDP	7/3	3320	0.11	0.003	0.17	
352.65	355.70	3.05	573598	HYP	PPDP	7/3	6080	0.11	0.014	0.14	
355.70	358.75	3.05	573599	HYP	IXAF	7	6940	0.05	0.011	0.10	
358.75	361.80	3.05	573600	HYP	IXAF	7	7080	0.07	0.014	0.10	
361.80	364.84	3.04	573601	HYP	IXAF	7	7560	0.11	0.011	0.10	
364.84	367.89	3.05	573602	HYP	IXAF	7	7220	0.05	0.022	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-176

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	573603	HYP	PPDP	7	8080	0.11	0.007	0.10	
370.94	373.99	3.05	573604	HYP	PPDP	7	6460	0.09	0.002	0.10	
373.99	377.04	3.05	573605	HYP	PPDP	7	7400	0.10	0.004	0.10	
377.04	380.09	3.05	573606	HYP	PPDP	7	7280	0.16	0.004	0.21	
380.09	383.13	3.04	573607	HYP	PPDP	7	6440	0.12	0.006	0.14	
383.13	386.18	3.05	573608	HYP	PPDP	7	7360	0.14	0.005	0.21	
386.18	389.23	3.05	573609	HYP	PPDP	7	7800	0.11	0.002	0.24	
389.23	392.28	3.05	573610	HYP	IXAF	7	7520	0.07	0.010	0.10	
392.28	395.32	3.04	573611	HYP	IXAF	7	7160	0.01	0.028	<0.03	
395.32	398.38	3.06	573612	HYP	IXAF	7	7020	0.02	0.045	0.24	
398.38	401.42	3.04	573613	HYP	IXAF	7	7560	0.03	0.083	0.10	
401.42	404.47	3.05	573614	HYP	IXAF	7	7080	0.08	0.008	0.14	
404.47	407.52	3.05	573615	HYP	IXAF	7	7720	0.10	0.030	0.14	
407.52	410.56	3.04	573616	HYP	IXAF	7	7740	0.24	0.020	0.34	
410.56	413.61	3.05	573617	HYP	IXAF	7	7480	0.11	0.037	0.10	
413.61	416.66	3.05	573618	HYP	IXAF	7	7460	0.09	0.028	0.10	
416.66	419.71	3.05	573619	HYP	QMFX	7	6560	0.07	0.025	0.07	
419.71	422.76	3.05	573620	HYP	QMFX	7	6860	0.14	0.032	0.17	
422.76	425.80	3.04	573621	HYP	QMFX	7	6680	0.10	0.022	0.14	
425.80	428.85	3.05	573622	HYP	QMFX	7	6800	0.09	0.056	0.10	
428.85	431.90	3.05	573623	HYP	QMFX	7/5	7100	0.09	0.022	0.10	
431.90	434.95	3.05	573624	HYP	QMFX	7	7180	0.07	0.043	0.10	
434.95	438.00	3.05	573625	HYP	QMFX	7	7220	0.06	0.016	0.10	
438.00	441.05	3.05	573626	HYP	QMFX	7/5	6780	0.08	0.014	0.14	
441.05	444.09	3.04	573627	HYP	QMFX	7/5	7420	0.06	0.024	0.14	
444.09	447.14	3.05	573628	HYP	QMFX	7	7120	0.07	0.009	0.07	
447.14	450.19	3.05	573629	HYP	QMFX	7	5820	0.10	0.017	0.14	
450.19	453.24	3.05	573630	HYP	QMFX	7	7220	0.09	0.008	0.14	
453.24	456.29	3.05	573631	HYP	QMFX	7	7220	0.07	0.017	0.10	
456.29	459.33	3.04	573632	HYP	QMFX	7	7860	0.14	0.044	0.14	
459.33	462.38	3.05	573633	HYP	QMFX	7	7720	0.09	0.015	0.10	
462.38	465.43	3.05	573634	HYP	QMFX	7	7060	0.08	0.022	0.07	
465.43	468.48	3.05	573635	HYP	QMFX	7	7940	0.07	0.015	0.10	
468.48	471.53	3.05	573636	HYP	QMFX	7	7300	0.07	0.018	0.14	
471.53	474.57	3.04	573637	HYP	QMFX	7	7220	0.07	0.034	0.07	
474.57	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-177	Total Depth	252.07 m
Northing	254,501.37	Casing Depth	5.5 m Left In
Easting	110,501.20	Survey Data	Azimuth / Dip / Instrument
Elevation	1324.24 m	Collar	-90°
Core Size	HQ	152.4 m	280° / -88° / Sperry Sun
Drilling Started	July 15, 1993		
Drilling Finished	July 21, 1993		
Logged by	M.P. Phillips		
Purpose/Target:	Grid drilling.		
Comments:	Granodiorite is cut by Casino "milled" breccia and intruded by later narrow latite intrusive and breccia dykes. Copper content is low. The high pyrite/chalcopyrite ratio and phyllic alteration indicate the drill hole is in the pyrite halo.		

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.49	5.49		OVB							
5.49	8.23	2.74	564655	CAP	WRGD	3/5	6140	0.02	0.066	0.34	
8.23	11.28	3.05	564656	CAP	WRGD	3/5	11920	0.02	0.094	0.34	
11.28	15.24	3.96	564657	CAP	WRGD	3/5	12720	0.03	0.042	0.24	
15.24	17.37	2.13	564658	CAP	WRGD	3/5	8820	0.03	0.046	0.34	
17.37	20.42	3.05	564659	CAP	WRGD	3/5	10500	0.02	0.066	0.34	
20.42	23.47	3.05	564660	CAP	WRGD	3/5	10680	0.02	0.054	0.27	
23.47	25.60	2.13	564661	CAP	WRGD	3/5	8340	0.02	0.080	0.41	
25.60	29.57	3.97	564662	SOX	WRGX	3/5	14720	0.03	0.068	0.58	
29.57	32.61	3.04	564663	CAP	WRGX	3/5	11500	0.03	0.090	0.24	
32.61	35.66	3.05	564664	CAP	WRGX	3/5	11640	0.02	0.164	0.24	
35.66	38.71	3.05	564665	CAP	MBCW	3/5	10900	0.02	0.076	0.21	
38.71	41.76	3.05	564666	CAP	MBCW	3/5	1280	0.03	0.073	0.58	
41.76	43.55	1.79	564667	CAP	MBFW	3/5	7520	0.02	0.091	0.34	
43.55	46.63	3.08	564668	CAP	MBFW	3/5	11160	0.02	0.134	0.27	
46.63	49.68	3.05	564669	CAP	MBFW	3/5	11300	0.02	0.056	0.48	
49.68	50.90	1.22	564670	CAP	MBCW	3/5	4620	0.01	0.036	0.34	
50.90	53.95	3.05	564671	CAP	MBFW	3/5	12240	0.02	0.035	0.38	
53.95	56.39	2.44	564672	CAP	MBFW	3/5	9400	0.02	0.053	0.41	
56.39	59.44	3.05	564673	CAP	MBFW	3/5	13000	0.03	0.073	0.38	
59.44	61.87	2.43	564674	CAP	MBFW	3/5	8460	0.02	0.044	0.34	
61.87	63.09	1.22	564675	CAP	MBFW	3/5	5500	0.03	0.056	0.38	
63.09	66.14	3.05	564676	CAP	MBFW	3/5	11300	0.02	0.049	0.45	
66.14	69.19	3.05	564677	CAP	MBFW	3/5	12060	0.03	0.065	0.34	
69.19	72.24	3.05	564678	CAP	MBFW	3/5	12000	0.02	0.061	0.48	
72.24	75.29	3.05	564679	CAP	MBFW	3/5	12980	0.02	0.085	0.34	
75.29	78.33	3.04	564680	CAP	MBFW	3/5	12600	0.02	0.102	0.31	
78.33	81.38	3.05	564681	CAP	MBFW	3/5	12860	0.02	0.116	0.34	
81.38	84.43	3.05	564682	CAP	MBCW	3/5	11860	0.02	0.114	0.38	
84.43	87.48	3.05	564683	CAP	MBCW	3/5	13460	0.02	0.142	0.24	
87.48	90.53	3.05	564684	CAP	WRGX	3/5	13120	0.02	0.071	0.34	
90.53	93.57	3.04	564685	CAP	WRGX	3/5	12580	0.02	0.067	0.34	
93.57	96.62	3.05	564686	CAP	WRGX	3/5	12820	0.01	0.064	0.24	
96.62	99.06	2.44	564687	CAP	MBCW	3/5	9860	0.01	0.097	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.06	102.11	3.05	564688	CAP	MBCW	3/5	12040	0.01	0.106	0.17	
102.11	105.75	3.64	564689	TRN	MBCW	3/5	13060	<0.01	0.043	0.10	
105.75	108.81	3.06	564690	TRN	MBNW	3/5	12720	<0.01	0.040	0.07	
108.81	111.86	3.05	564691	SUS	MBNW	3/5	12180	<0.01	0.019	0.07	
111.86	114.90	3.04	564692	SUS	MBNW	3/5	12160	<0.01	0.024	0.14	
114.90	117.96	3.06	564693	TRN	MBNW	3/5	11920	<0.01	0.046	0.14	
117.96	121.01	3.05	564694	SOX	MBNW	5/3	12200	0.01	0.081	0.07	
121.01	124.05	3.04	564695	SOX	MBNW	5/3	10600	<0.01	0.036	0.10	
124.05	127.10	3.05	564696	HYP	MBFW	5/3	11040	<0.01	0.032	<0.03	
127.10	130.15	3.05	564697	HYP	MBFW	5	10140	0.01	0.029	<0.03	
130.15	132.89	2.74	564698	HYP	MBFW	5	9260	0.04	0.011	0.14	
132.89	136.25	3.36	564699	HYP	MBFW	5	9960	0.01	0.010	0.07	
136.25	138.68	2.43	564700	HYP	MBFW	5	10360	0.08	0.031	0.14	
138.68	142.34	3.66	564701	HYP	MBCW	5	12500	0.10	0.025	0.10	
142.34	145.39	3.05	564702	HYP	MBFW	5	11620	0.20	0.061	0.27	
145.39	148.44	3.05	564703	HYP	MBFW	5	11720	0.01	0.007	0.14	
148.44	151.49	3.05	564704	HYP	MBFW	5	13240	0.10	0.012	0.14	
151.49	154.53	3.04	564705	HYP	LTXH	5	13020	0.01	0.012	0.21	
154.53	157.58	3.05	564706	HYP	LTXH	5	11600	0.14	0.020	0.41	
157.58	160.63	3.05	564707	HYP	LTXH	5	11460	0.04	0.018	0.12	
160.63	164.59	3.96	564708	HYP	MBFW	5	10500	0.03	0.030	0.13	
164.59	166.73	2.14	564709	HYP	MBNW	5	7320	0.02	0.012	0.20	
166.73	169.77	3.04	564710	HYP	MBFW	5	9320	0.10	0.020	0.23	
169.77	171.91	2.14	564711	HYP	MBNW	5	6840	0.11	0.015	0.07	
171.91	174.96	3.05	564712	HYP	MBFW	5	10620	0.03	0.019	<0.03	
174.96	177.70	2.74	564713	HYP	MBFW	5	8000	0.12	0.032	0.17	
177.70	181.36	3.66	564714	HYP	MBFW	5	12280	0.02	0.017	0.10	
181.36	184.40	3.04	564715	HYP	MBFW	5	11660	0.22	0.007	0.18	
184.40	188.06	3.66	564716	HYP	WRXT	5	15040	0.04	0.009	0.22	
188.06	191.11	3.05	564717	HYP	WRXT	5	10220	0.04	0.019	0.07	
191.11	194.16	3.05	564718	HYP	WRXT	5	10760	0.02	0.018	0.03	
194.16	197.21	3.05	564719	HYP	WRXT	5	11000	0.03	0.029	0.03	
197.21	200.25	3.04	564720	HYP	WRXT	5	10520	0.03	0.022	0.03	
200.25	203.30	3.05	564721	HYP	WRXT	5	10560	0.06	0.023	<0.03	
203.30	206.35	3.05	564722	HYP	WRXT	5	12820	0.03	0.021	0.03	
206.35	209.40	3.05	564723	HYP	WRXT	5	9840	0.03	0.030	<0.03	
209.40	212.45	3.05	564724	HYP	WRXT	5	12000	0.03	0.089	0.03	
212.45	215.49	3.04	564725	HYP	WRXT	5	10740	0.03	0.035	0.07	
215.49	218.54	3.05	564726	HYP	LTXH	5	12640	0.08	0.035	0.07	
218.54	221.59	3.05	564727	HYP	LTXH	5	10200	0.10	0.076	0.07	
221.59	224.64	3.05	564728	HYP	LTXH	5	12560	0.06	0.049	0.03	
224.64	227.69	3.05	564729	HYP	LTXH	5	11930	0.13	0.039	0.10	
227.69	230.73	3.04	564730	HYP	LTDA	5	12100	0.11	0.008	0.12	
230.73	233.78	3.05	564731	HYP	LTDA	5	12000	0.07	0.011	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	564732	HYP	LTDA	5	9860	0.10	0.009	<0.03	
236.83	239.88	3.05	564733	HYP	LTDA	5	11240	0.08	0.005	0.03	
239.88	242.93	3.05	564734	HYP	LTDA	5	8880	0.09	0.001	0.03	
242.93	245.97	3.04	564735	HYP	LTDA	5	11460	0.16	0.002	0.14	
245.97	248.11	2.14	564736	HYP	LTDA	5	7620	0.09	0.003	0.10	
248.11	252.07	3.96	564737	HYP	LTDA	5	16940	0.11	0.044	0.07	
252.07	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-178	Total Depth	465.43 m		
Northing	254,399.96	Casing Depth	11.58 m		Left Out
Easting	110,900.53	Survey Data	Azimuth	Dip	Instrument
Elevation	1387.94 m	Collar			
Core Size	HQ	154.53 m	066°	-89.00°	Sperry Sun
Drilling Started	July 17, 1993	306.93 m	010°	-89.50°	Sperry Sun
Drilling Finished	July 23, 1993	462.38 m	272°	-89.25°	Sperry Sun
Logged by	T. Case				

Purpose/Target: Delineation of the southern boundary of the deposit.

Comments: Hole 93-178 is largely in granodiorite and milled, brecciated granodiorite.
Overall the chalcopyrite mineralization is weak and the chalcocite is moderate to strong.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	7.01	3.35	570958	CAP	WRGD	3	9360	0.01	0.006	0.21	
7.01	10.36	3.35	570959	CAP	WRGD	3	11740	0.01	0.009	0.24	
10.36	14.02	3.66	570960	CAP	WRGD	3	9940	<0.01	0.008	0.17	
14.02	17.98	3.96	570961	CAP	WRGD	3	13140	0.01	0.008	0.14	
17.98	20.42	2.44	570962	CAP	WRGD	3	7900	0.01	0.006	0.24	
20.42	22.86	2.44	570963	CAP	WRGD	3	7020	0.01	0.004	0.17	
22.86	24.99	2.13	570964	CAP	WRGD	3	8140	0.01	0.002	0.21	
24.99	28.04	3.05	570965	CAP	WRGD	3	10920	0.03	0.005	0.27	
28.04	31.09	3.05	570966	CAP	WRGD	3	10940	0.01	0.004	0.14	
31.09	34.14	3.05	570967	CAP	WRGD	3/7	10580	0.02	0.005	0.24	
34.14	37.19	3.05	570968	CAP	WRGD	3/7	10460	0.06	0.004	0.31	
37.19	40.23	3.04	570969	CAP	WRGD	3/7	11360	0.02	0.003	0.21	
40.23	43.28	3.05	570970	CAP	WRGD	3/7	10360	0.03	0.004	0.14	
43.28	46.33	3.05	570971	CAP	WRGD	3/7	10180	0.03	0.009	0.24	
46.33	47.85	1.52	570972	CAP	WRGD	3/7	5160	0.04	0.004	0.14	
47.85	50.90	3.05	570973	CAP	WRGD	3/7	10240	0.03	0.004	0.17	
50.90	53.95	3.05	570974	CAP	WRGD	3/7	10200	0.04	0.003	0.21	
53.95	57.00	3.05	570975	CAP	WRGD	3/7	11580	0.04	0.004	0.21	
57.00	60.05	3.05	570976	CAP	WRGD	3/7	10220	0.04	0.005	0.14	
60.05	63.09	3.04	570977	CAP	WRGD	3/7	11040	0.03	0.003	0.07	
63.09	66.29	3.20	570978	CAP	WRGD	3/7	11480	0.03	0.006	0.10	
66.29	70.41	4.12	570979	CAP	WRGD	3/7	11180	0.04	0.014	0.14	
70.41	74.37	3.96	570980	CAP	WRGD	3/7	18400	0.04	0.008	0.21	
74.37	77.42	3.05	570981	CAP	WRGD	3/7	11200	0.06	0.005	0.17	
77.42	79.86	2.44	570982	CAP	WRGD	3/7	9020	0.07	0.007	0.14	
79.86	82.60	2.74	570983	CAP	WRGD	3/7	9760	0.03	0.007	0.17	
82.60	84.43	1.83	570984	CAP	PPDP	3/7	6040	0.01	0.008	0.14	
84.43	87.48	3.05	570985	CAP	PPDP	3/7	8180	<0.01	0.006	0.10	
87.48	90.53	3.05	570986	CAP	PPDP	3/7	12380	0.04	0.018	0.31	
90.53	93.57	3.04	570987	SOX	WRGD	3/7	11140	0.02	0.024	0.34	
93.57	96.62	3.05	570988	SOX	WRGD	3/7	13160	0.03	0.014	0.24	
96.62	99.67	3.05	570989	SOX	WRGD	3/7	12360	0.04	0.006	0.24	
99.67	102.72	3.05	570990	SOX	WRGD	3/7	12960	0.05	0.006	0.14	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.72	105.77	3.05	570991	SOX	WRGD	3/7	12640	0.08	0.039	0.24	
105.77	108.81	3.04	570992	SOX	WRGD	3/7	12500	0.05	0.010	0.17	
108.81	111.86	3.05	570993	SOX	WRGD	3/7	12460	0.05	0.025	0.41	
111.86	114.91	3.05	570994	TRN	WRGD	3/7	13280	0.08	0.011	0.21	
114.91	117.96	3.05	570995	TRN	WRGD	5/7	12480	0.14	0.006	0.17	
117.96	121.01	3.05	570996	TRN	WRGD	5/7	12500	0.13	0.008	0.14	
121.01	124.05	3.04	570997	TRN	WRGD	5/7	12400	0.22	0.008	0.24	
124.05	127.10	3.05	570998	TRN	WRGD	5/7	11980	0.36	0.054	0.34	
127.10	130.15	3.05	570999	TRN	WRGD	5/7	12860	0.41	0.022	0.58	
130.15	132.28	2.13	571000	TRN	WRGD	5/7	8200	0.32	0.013	0.51	
132.28	135.33	3.05	571001	SUS	WRGD	5/7	12960	0.30	0.022	0.69	
135.33	139.29	3.96	571002	SUS	WRGD	5/7	16200	0.46	0.031	0.62	
139.29	141.43	2.14	571003	SUS	LTDA	5/7	8180	0.26	0.013	0.34	
141.43	144.48	3.05	571004	SUS	WRGD	5/7	11920	0.28	0.005	0.17	
144.48	147.68	3.20	571005	SUS	LTDA	5/7	11900	0.31	0.018	0.31	
147.68	150.72	3.04	571006	HYP	WRGD	5/7	11520	0.51	0.088	0.86	
150.72	153.77	3.05	571007	HYP	LTDA	5/7	13060	0.11	0.004	0.27	
153.77	157.58	3.81	571008	HYP	LTDA	5/7	14340	0.15	0.008	0.21	
157.58	160.63	3.05	571009	HYP	MBCW	7/5	11560	0.66	0.025	0.41	
160.63	163.68	3.05	571010	HYP	MBCW	7/5	12780	0.41	0.025	0.51	
163.68	166.73	3.05	571011	HYP	MBCW	7/5	12640	0.41	0.088	0.62	
166.73	169.77	3.04	571012	HYP	MBCW	7/5	12460	0.33	0.020	0.38	
169.77	172.82	3.05	571013	HYP	MBCW	7/5	10950	0.32	0.053	0.24	
172.82	175.87	3.05	571014	HYP	MBCW	7/5	12380	0.21	0.015	0.17	
175.87	178.92	3.05	571015	HYP	LTDA	5/7	11450	0.18	0.017	0.21	
178.92	181.97	3.05	571016	HYP	MBCW	5/7	11850	0.17	0.004	0.10	
181.97	185.01	3.04	571017	HYP	MBCW	5/7	12850	0.20	0.020	0.27	
185.01	188.06	3.05	571018	HYP	MBCW	5/7	11420	0.25	0.025	0.24	
188.06	191.11	3.05	571019	HYP	MBCW	5/7	11880	0.25	0.017	0.27	
191.11	194.16	3.05	571020	HYP	MBCW	5/7	11350	0.41	0.041	0.34	
194.16	197.21	3.05	571021	HYP	MBCW	5/7	9720	0.23	0.030	0.31	
197.21	200.25	3.04	571022	HYP	MBCW	5/7	10150	0.21	0.014	0.24	
200.25	203.30	3.05	571023	HYP	MBCW	5/7	11780	0.20	0.031	0.17	
203.30	206.35	3.05	571024	HYP	MBCW	5/7	11900	0.30	0.027	0.34	
206.35	209.40	3.05	571025	HYP	MBCW	5/7	13960	0.18	0.021	0.27	
209.40	212.45	3.05	571026	HYP	MBCW	5/7	14860	0.23	0.023	0.27	
212.45	213.97	1.52	571027	HYP	MBCW	5/7	7720	0.36	0.023	0.34	
213.97	217.02	3.05	571028	HYP	MBCW	5/7	14100	0.18	0.032	0.24	
217.02	218.54	1.52	571029	HYP	MBCW	5/7	6100	0.12	0.025	0.21	
218.54	221.59	3.05	571030	HYP	MBCW	5/7	13860	0.26	0.016	0.38	
221.59	224.64	3.05	571031	HYP	MBCW	5/7	12760	0.28	0.020	0.34	
224.64	227.69	3.05	571032	HYP	MBCW	5/7	13330	0.16	0.022	0.21	
227.69	230.73	3.04	571033	HYP	MBCW	5/7	10080	0.19	0.012	0.17	
230.73	233.78	3.05	571034	HYP	MBCW	5/7	15880	0.31	0.126	0.41	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	571035	HYP	MBCW	5/7	14560	0.61	0.073	0.82	
236.83	239.88	3.05	571036	HYP	MBCW	5/7	13220	0.18	0.009	0.10	
239.88	242.93	3.05	571037	HYP	MBCW	5/7	13320	0.14	0.019	0.21	
242.93	245.97	3.04	571038	HYP	MBCW	5/7	11800	0.24	0.023	0.27	
245.97	249.02	3.05	571039	HYP	MBCW	5/7	13640	0.17	0.007	0.24	
249.02	251.15	2.13	571040	HYP	MBCW	5/7	8320	0.33	0.034	0.24	
251.15	254.20	3.05	571041	HYP	MBCW	5/7	12900	0.14	0.020	0.21	
254.20	258.17	3.97	571042	HYP	MBCW	5/7	18160	0.12	0.019	0.21	
258.17	261.21	3.04	571043	HYP	MBCW	4/5/7	12760	0.15	0.038	0.17	
261.21	264.26	3.05	571044	HYP	MBCW	4/5/7	12480	0.20	0.027	0.31	
264.26	267.31	3.05	571045	HYP	MBCW	4/5/7	13340	0.16	0.006	0.21	
267.31	270.36	3.05	571046	HYP	MBCW	5/7	13460	0.24	0.015	0.41	
270.36	273.41	3.05	571047	HYP	MBCW	5/7	13160	0.36	0.026	0.34	
273.41	276.45	3.04	571048	HYP	MBFW	5/7	13880	0.40	0.014	0.38	
276.45	279.50	3.05	571049	HYP	MBFW	5/7	14080	0.84	0.025	1.20	
279.50	282.55	3.05	571050	HYP	MBFW	5/7	13780	0.39	0.012	0.41	
282.55	285.60	3.05	571051	HYP	MBFW	5/7	13700	0.37	0.023	0.51	
285.60	288.65	3.05	571052	HYP	MBCW	5/4/7	13340	0.30	0.025	0.31	
288.65	291.69	3.04	571053	HYP	MBCW	5/4/7	13420	0.19	0.028	0.24	
291.69	294.74	3.05	571054	HYP	MBCW	5/4/7	12360	0.21	0.151	0.27	
294.74	297.79	3.05	571055	HYP	MBCW	5/4/7	12700	0.31	0.032	0.34	
297.79	300.84	3.05	571056	HYP	MBNW	5/4/7	12620	0.19	0.124	1.03	
300.84	303.89	3.05	571057	HYP	MBNW	5/4/7	13040	0.33	0.042	0.41	
303.89	306.93	3.04	571058	HYP	MBNW	5/4/7	13050	0.26	0.154	0.14	
306.93	309.98	3.05	571059	HYP	MBNW	5/4/7	13660	0.39	0.033	0.31	
309.98	313.03	3.05	571060	HYP	MBNW	5/4/7	13860	0.15	0.103	0.10	
313.03	316.08	3.05	571061	HYP	MBNW	5/4/7	13340	0.32	0.166	0.21	
316.08	319.13	3.05	571062	HYP	MBNW	5/4/7	14420	0.27	0.022	0.21	
319.13	322.17	3.04	571063	HYP	MBNW	5/4/7	13800	0.42	0.018	0.38	
322.17	325.22	3.05	571064	HYP	MBNW	5/4/7	12860	0.28	0.030	0.24	
325.22	328.27	3.05	571065	HYP	MBNW	5/4/7	13400	0.19	0.061	0.41	
328.27	331.32	3.05	571066	HYP	MBFW	5/4/7	14080	0.31	0.059	0.34	
331.32	334.37	3.05	571067	HYP	MBFW	5/4/7	14480	0.33	0.068	0.34	
334.37	337.41	3.04	571068	HYP	MBFW	5/4/7	14100	0.38	0.034	0.62	
337.41	340.46	3.05	571069	HYP	MBNW	5/4/7	13780	0.32	0.034	0.55	
340.46	343.51	3.05	571070	HYP	MBNW	5/4/7	13860	0.20	0.047	0.27	
343.51	346.56	3.05	571071	HYP	MBNW	5/4/7	13040	0.46	0.073	0.79	
346.56	349.61	3.05	571072	HYP	MBNW	5/4/7	12640	0.30	0.042	0.34	
349.61	352.65	3.04	571073	HYP	MBNW	5/4/7	15380	0.26	0.034	0.41	
352.65	355.70	3.05	571074	HYP	MBCW	5/4/7	12760	0.19	0.087	0.27	
355.70	358.75	3.05	571075	HYP	MBCW	5/4/7	13360	0.20	0.024	0.17	
358.75	361.80	3.05	571076	HYP	MBCW	5/4/7	13700	0.31	0.013	0.48	
361.80	364.85	3.05	571077	HYP	MBCW	5/4/7	13900	0.23	0.024	0.38	
364.85	367.89	3.04	571078	HYP	MBCW	5/4/7	13520	0.22	0.008	0.24	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	571079	HYP	MBCW	5/4/7	13700	0.20	0.033	0.24	
370.94	373.99	3.05	571080	HYP	MBCW	5/4/7	13740	0.07	0.015	0.27	
373.99	377.04	3.05	571081	HYP	MBCW	5/4/7	13440	0.23	0.017	0.27	
377.04	380.09	3.05	571082	HYP	MBCW	5/4/7	13080	0.10	0.014	0.14	
380.09	383.13	3.04	571083	HYP	MBCW	5/4/7	12800	0.25	0.021	0.27	
383.13	386.18	3.05	571084	HYP	MBCW	5/4/7	12960	0.20	0.031	0.31	
386.18	389.23	3.05	571085	HYP	MBCW	5/4/7	12440	0.18	0.026	0.21	
389.23	392.28	3.05	571086	HYP	MBCW	5/4/7	11550	0.16	0.013	0.24	
392.28	395.33	3.05	571087	HYP	MBCW	5/4/7	11400	0.17	0.027	0.21	
395.33	398.37	3.04	571088	HYP	MBCW	5/4/7	12180	0.20	0.010	0.34	
398.37	401.42	3.05	571089	HYP	MBCW	5/4/7	12700	0.19	0.034	0.17	
401.42	404.47	3.05	571090	HYP	MBCW	5/4/7	12160	0.19	0.012	0.17	
404.47	407.52	3.05	571091	HYP	MBCW	5/4/7	12220	0.15	0.034	0.21	
407.52	410.57	3.05	571092	HYP	MBCW	5/4/7	11720	0.18	0.014	0.34	
410.57	413.61	3.04	571093	HYP	MBCW	5/4/7	12460	0.19	0.014	0.65	
413.61	416.66	3.05	571094	HYP	MBCW	5/4/7	10020	0.14	0.015	0.24	
416.66	419.71	3.05	571095	HYP	WRGD	5/4/7	12120	0.14	0.011	0.62	
419.71	422.76	3.05	571096	HYP	WRGD	5/4/7	11060	0.16	0.006	0.51	
422.76	425.81	3.05	571097	HYP	WRGD	5/4/7	11020	0.21	0.017	0.45	
425.81	428.85	3.04	571098	HYP	WRGD	5/4/7	11540	0.13	0.017	0.17	
428.85	431.90	3.05	571099	HYP	WRGD	5/4/7	11300	0.15	0.046	0.24	
431.90	434.95	3.05	571100	HYP	WRGD	5/4/7	11520	0.13	0.017	0.21	
434.95	438.00	3.05	571101	HYP	WRGD	5/4/7	11620	0.11	0.036	0.24	
438.00	441.05	3.05	571102	HYP	WRGD	5/4/7	11960	0.16	0.046	0.24	
441.05	444.09	3.04	571103	HYP	WRGD	5/4/7	11220	0.14	0.015	0.14	
444.09	447.14	3.05	571104	HYP	WRGD	5/4/7	11720	0.08	0.015	0.17	
447.14	450.19	3.05	571105	HYP	WRGD	5/4/7	12700	0.10	0.010	0.10	
450.19	453.24	3.05	571106	HYP	WRGD	5/4/7	11860	0.16	0.020	0.17	
453.24	456.29	3.05	571107	HYP	WRGD	5/4/7	11920	0.16	0.016	0.27	
456.29	459.33	3.04	571108	HYP	WRGD	5/4/7	11860	0.18	0.013	0.31	
459.33	462.38	3.05	571109	HYP	WRGD	5/4/7	12000	0.17	0.030	0.24	
462.38	465.43	3.05	571110	HYP	WRGD	5/4/7	12160	0.10	0.013	0.21	
465.43	END OF HOLE										

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Hole Number	93-179	Total Depth	648.31 m
Northing	254,400.88	Casing Depth	3.66 m Left Out
Easting	110,599.44	Survey Data	Azimuth Dip Instrument
Elevation	1356.34 m	Collar	
Core Size	HQ to 66.14 m; NQ to end	182.9 m	-90.0° Sperry Sun
Drilling Started	July 21, 1993	304.8 m	-90.0° Sperry Sun
Drilling Finished	August 4, 1993	457.2 m	290° -89.5° Sperry Sun
Logged by	M.P. Phillips	609.6 m	032° -89.4° Sperry Sun
Purpose/Target:	Grid drilling.		
Comments:	The drill hole cut strong phyllic-altered brecciated granodiorite with narrow bands of Casino milled breccia and bottomed in 288 m of granodiorite. The top 140 m were in the Sox Zone. White sulphate coating below the hypogene contact to 350 m. Trace to minor chalcocite coats mainly pyrite. Chalcopyrite occurs as fine disseminations and crack fillings.		

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.23	8.23		OVB							
8.23	19.50	11.27	564738	SOX	WRGX	3/5	2750	0.01	0.011	0.38	
19.50	21.64	2.14	564739	SOX	WRGX	3/5	3060	<0.01	0.021	0.31	
21.64	23.47	1.83	564740	SOX	WRGX	3/5	2550	<0.01	0.016	0.31	
23.47	26.52	3.05	564741	SOX	MBNW	3/5	2000	<0.01	0.009	0.31	
26.52	29.56	3.04	564742	SOX	MBNW	3/5	10450	<0.01	0.011	0.14	
29.56	32.61	3.05	564743	SOX	MBNW	3/5	2350	<0.01	0.012	0.17	
32.61	35.66	3.05	564744	SOX	MBNW	3/5	5800	<0.01	0.015	0.03	
35.66	38.70	3.04	564745	SOX	WRGX	5/3	9240	0.01	0.032	0.21	
38.70	41.76	3.06	564746	SOX	WRGX	5/3	9000	0.01	0.041	0.27	
41.76	44.80	3.04	564747	SOX	WRGX	5/3	8360	<0.01	0.022	0.10	
44.80	47.85	3.05	564748	SOX	MBNW	5/3	8660	0.01	0.012	0.10	
47.85	50.90	3.05	564749	SOX	MBNW	5/3	7760	0.01	0.015	0.24	
50.90	53.95	3.05	564750	SOX	WRGX	5/3	8840	0.01	0.048	0.41	
53.95	57.00	3.05	564751	SOX	MBFW	5/3	9720	<0.01	0.020	0.17	
57.00	60.05	3.05	564752	SOX	WRGX	5/3	10220	0.01	0.017	0.17	
60.05	63.09	3.04	564753	SOX	WRGX	5/3	11680	0.01	0.019	0.10	
63.09	66.14	3.05	564754	SOX	WRGX	5/3	11060	<0.01	0.039	0.17	
66.14	69.19	3.05	564755	SOX	WRGX	5/3	5340	<0.01	0.046	0.14	
69.19	72.24	3.05	564756	SOX	WRGX	5/3	5720	<0.01	0.037	0.10	
72.24	75.29	3.05	564757	SOX	WRGX	5/3	6500	<0.01	0.036	0.07	
75.29	78.33	3.04	564758	SOX	WRGX	5/3	6380	<0.01	0.042	0.10	
78.33	81.38	3.05	564759	SOX	WRGX	5/3	5960	<0.01	0.052	0.10	
81.38	84.43	3.05	564760	SOX	WRGX	5/3	6320	<0.01	0.050	0.17	
84.43	87.48	3.05	564761	SOX	WRGX	5/3	6160	<0.01	0.045	0.10	
87.48	90.53	3.05	564762	SOX	WRGX	5/3	6080	<0.01	0.049	0.51	
90.53	93.57	3.04	564763	SOX	WRGX	5/3	6140	<0.01	0.064	0.10	
93.57	96.62	3.05	564764	SOX	WRGX	3/5	5880	<0.01	0.090	0.14	
96.62	99.67	3.05	564765	SOX	MBNW	3/5	5500	<0.01	0.054	0.14	
99.67	102.72	3.05	564766	SOX	WRGX	3/5	6140	<0.01	0.053	0.10	
102.72	105.77	3.05	564767	SOX	WRGX	3/5	5300	<0.01	0.030	0.07	
105.77	108.81	3.04	564768	SOX	WRGX	3/5	5340	<0.01	0.047	0.07	
108.81	111.86	3.05	564769	SOX	WRGX	3/5	6260	<0.01	0.071	0.10	
111.86	114.91	3.05	564770	SOX	WRGX	3/5	5980	<0.01	0.067	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
114.91	117.96	3.05	564771	SOX	WRGX	3/5	5960	<0.01	0.075	0.17	
117.96	121.01	3.05	564772	SOX	WRGX	3/5	5400	<0.01	0.052	0.14	
121.01	124.05	3.04	564773	SOX	MBFW	3/5	6200	<0.01	0.050	0.14	
124.05	127.10	3.05	564774	SOX	WRGX	3/5	6100	<0.01	0.085	0.10	
127.10	130.15	3.05	564775	SOX	WRGX	3/5	5360	<0.01	0.096	0.17	
130.15	133.20	3.05	564776	SOX	WRGX	3/5	5620	<0.01	0.123	0.17	
133.20	136.25	3.05	564777	SOX	WRGX	3/5	6380	<0.01	0.131	0.14	
136.25	139.29	3.04	564778	SOX	WRGX	3/5	6340	<0.01	0.136	0.10	
139.29	142.34	3.05	564779	HYP	WRGX	5	5940	0.01	0.099	0.14	
142.34	145.39	3.05	564780	HYP	WRGX	5	5100	0.01	0.115	0.21	
145.39	148.44	3.05	564781	HYP	WRGX	5	5680	0.01	0.114	0.21	
148.44	151.49	3.05	564782	HYP	WRGX	5	6660	0.02	0.111	0.21	
151.49	154.53	3.04	564783	HYP	WRGX	5	6600	0.01	0.176	0.17	
154.53	157.58	3.05	564784	HYP	WRGX	5	6480	<0.01	0.198	0.14	
157.58	160.63	3.05	564785	HYP	WRGX	5	6580	0.02	0.175	0.17	
160.63	163.68	3.05	564786	HYP	WRGX	5	6860	<0.01	0.171	0.21	
163.68	166.73	3.05	564787	HYP	WRGX	5	6700	0.03	0.172	0.17	
166.73	169.77	3.04	564788	HYP	WRGX	5	7220	0.01	0.187	0.17	
169.77	172.82	3.05	564789	HYP	WRGX	5	7220	0.01	0.222	0.14	
172.82	175.87	3.05	564790	HYP	WRGX	5	7000	0.01	0.172	0.17	
175.87	178.92	3.05	564791	HYP	WRGX	5	6280	0.01	0.091	0.10	
178.92	181.97	3.05	564792	HYP	WRGX	5	6900	0.01	0.130	0.10	
181.97	185.01	3.04	564793	HYP	WRGX	5	7360	0.02	0.096	0.10	
185.01	188.06	3.05	564794	HYP	WRGX	5	6940	0.02	0.092	0.07	
188.06	191.11	3.05	564795	HYP	WRGX	5	6480	0.03	0.103	0.10	
191.11	194.16	3.05	564796	HYP	WRGX	5	7380	0.01	0.079	0.14	
194.16	197.21	3.05	564797	HYP	WRGX	5	6880	0.12	0.068	0.14	
197.21	200.25	3.04	564798	HYP	WRGX	5	6960	0.01	0.109	<0.03	
200.25	203.30	3.05	564799	HYP	WRGX	5	6900	0.03	0.107	0.07	
203.30	206.35	3.05	564800	HYP	WRGX	5	5800	0.02	0.118	<0.03	
206.35	209.40	3.05	564801	HYP	LTXH	5	7080	0.03	0.079	<0.03	
209.40	212.45	3.05	564802	HYP	WRXT	5	7340	0.06	0.172	0.10	
212.45	215.49	3.04	564803	HYP	WRXT	5	6520	0.06	0.450	0.07	
215.49	218.54	3.05	564804	HYP	WRXT	5	6360	0.18	0.229	0.17	
218.54	221.59	3.05	564805	HYP	MBFW	5	6820	0.26	0.475	0.21	
221.59	224.64	3.05	564806	HYP	MBFW	5	6540	0.56	0.128	0.48	
224.64	227.69	3.05	564807	HYP	MBFW	5	6840	0.16	0.260	0.17	
227.69	230.73	3.04	564808	HYP	MBFW	5	6840	0.16	0.207	0.21	
230.73	233.78	3.05	564809	HYP	MBFW	5	6960	0.19	0.196	0.14	
233.78	236.83	3.05	564810	HYP	WRXT	5	5680	0.15	0.259	0.10	
236.83	239.87	3.04	564811	HYP	WRXT	5	7420	0.04	0.198	0.10	
239.87	242.93	3.06	564812	HYP	WRXT	5	6620	0.07	0.332	0.14	
242.93	245.97	3.04	564813	HYP	WRGX	5	6600	0.04	0.283	0.14	
245.97	249.02	3.05	564814	HYP	WRGX	5	6900	0.07	0.162	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
249.02	252.07	3.05	564815	HYP	WRGX	5	6300	0.19	0.506	0.17	
252.07	255.12	3.05	564816	HYP	WRGX	5	6600	0.33	0.324	0.24	
255.12	258.17	3.05	564817	HYP	WRGX	5	6280	0.17	0.428	0.24	
258.17	261.21	3.04	564818	HYP	WRGX	5	6200	0.35	0.125	0.34	
261.21	264.26	3.05	564819	HYP	WRGX	5	6380	0.17	0.503	0.27	
264.26	267.31	3.05	564820	HYP	WRGX	5	7180	0.19	0.156	0.27	
267.31	270.36	3.05	564821	HYP	MBFW	5	6660	0.11	0.183	0.24	
270.36	273.41	3.05	564822	HYP	WRGX	5	6160	0.19	0.140	0.41	
273.41	276.45	3.04	564823	HYP	MBFW	5	7850	0.25	0.037	0.41	
276.45	279.50	3.05	564824	HYP	MBFW	5	7100	0.24	0.095	0.31	
279.50	282.55	3.05	564825	HYP	MBFW	5	6760	0.28	0.048	0.27	
282.55	285.60	3.05	564826	HYP	MBFW	5	6920	0.11	0.062	0.14	
285.60	288.65	3.05	564827	HYP	MBCW	5	6800	0.37	0.043	0.41	
288.65	291.69	3.04	564828	HYP	MBFW	5	6860	0.21	0.039	0.24	
291.69	294.74	3.05	564829	HYP	MBFW	5	7250	0.26	0.088	0.34	
294.74	297.79	3.05	564830	HYP	MBFW	5	6720	0.24	0.021	0.24	
297.79	300.83	3.04	564831	HYP	MBFW	5	6900	0.22	0.020	0.48	
300.83	303.89	3.06	564832	HYP	WRGD	5	6450	0.27	0.032	0.38	
303.89	306.93	3.04	564833	HYP	WRGD	5	6720	0.18	0.013	0.24	
306.93	309.98	3.05	564834	HYP	MBFW	5	6960	0.35	0.028	0.31	
309.98	313.03	3.05	564835	HYP	WRGD	5	6850	0.43	0.027	0.55	
313.03	316.08	3.05	564836	HYP	WRGD	5	6900	0.34	0.040	0.51	
316.08	319.13	3.05	564837	HYP	MBFW	5	6800	0.30	0.052	0.34	
319.13	322.17	3.04	564838	HYP	MBFW	5	6460	0.13	0.053	0.17	
322.17	325.22	3.05	564839	HYP	MBFW	5	6900	0.13	0.071	0.17	
325.22	328.27	3.05	564840	HYP	MBFW	5	7260	0.27	0.145	0.38	
328.27	331.32	3.05	564841	HYP	MBFW	5	7220	0.10	0.136	0.51	
331.32	334.37	3.05	564842	HYP	MBNW	5	7180	0.01	0.256	0.17	
334.37	337.41	3.04	564843	HYP	MBNW	5	6620	0.12	0.309	0.27	
337.41	340.46	3.05	564844	HYP	WRGX	5	7350	0.10	0.237	1.41	
340.46	343.51	3.05	564845	HYP	WRGX	5	6850	0.04	0.419	0.41	
343.51	346.56	3.05	564846	HYP	WRGX	5	8750	0.14	0.352	0.45	
346.56	349.61	3.05	564847	HYP	WRGX	5	5300	0.18	0.912	0.41	
349.61	352.65	3.04	564848	HYP	WRGX	5	7000	0.25	0.479	0.34	
352.65	355.70	3.05	564849	HYP	WRGX	5	6820	0.24	0.122	0.34	
355.70	358.75	3.05	564850	HYP	WRGX	5	6980	0.33	0.061	0.45	
358.75	361.80	3.05	564851	HYP	WRGD	6	6640	0.17	0.050	0.27	
361.80	364.85	3.05	564852	HYP	WRGD	6	6640	0.22	0.018	0.34	
364.85	367.89	3.04	564853	HYP	WRGD	6	6640	0.27	0.039	0.31	
367.89	370.94	3.05	564854	HYP	WRGD	6	6740	0.18	0.035	0.38	
370.94	373.99	3.05	564855	HYP	WRGD	6	6440	0.21	0.017	0.21	
373.99	377.04	3.05	564856	HYP	WRGD	6	6580	0.18	0.013	0.27	
377.04	380.09	3.05	564857	HYP	WRGD	6	6140	0.20	0.040	0.21	
380.09	383.13	3.04	564858	HYP	WRGD	6	4840	0.19	0.129	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
383.13	386.18	3.05	564859	HYP	WRGD	6	7200	0.15	0.051	0.21	
386.18	389.23	3.05	564860	HYP	WRGD	6	6600	0.14	0.012	0.27	
389.23	392.28	3.05	564861	HYP	WRGD	6	6140	0.12	0.034	0.21	
392.28	395.33	3.05	564862	HYP	WRGD	6	6640	0.18	0.108	0.31	
395.33	398.37	3.04	564863	HYP	WRGD	6	6520	0.26	0.025	0.45	
398.37	401.42	3.05	564864	HYP	WRGD	6	6560	0.22	0.029	0.21	
401.42	404.47	3.05	564865	HYP	WRGD	6	6340	0.30	0.075	0.48	
404.47	407.52	3.05	564866	HYP	WRGD	6	6640	0.17	0.073	0.17	
407.52	410.57	3.05	564867	HYP	WRGD	6	6900	0.20	0.104	0.27	
410.57	413.61	3.04	564868	HYP	WRGD	6	6300	0.18	0.015	0.27	
413.61	416.66	3.05	564869	HYP	WRGD	6	7200	0.17	0.031	0.31	
416.66	419.71	3.05	564870	HYP	WRGD	6	6460	0.23	0.033	0.31	
419.71	422.76	3.05	564871	HYP	WRGD	6	6780	0.18	0.041	0.27	
422.76	425.81	3.05	564872	HYP	WRGD	6	6200	0.23	0.035	0.27	
425.81	428.85	3.04	564873	HYP	WRGD	6	6280	0.26	0.029	0.31	
428.85	431.90	3.05	564874	HYP	WRGD	6	6960	0.32	0.082	0.34	
431.90	434.95	3.05	564875	HYP	WRGD	6	6300	0.29	0.056	0.38	
434.95	438.00	3.05	564876	HYP	WRGD	6	6660	0.18	0.015	0.21	
438.00	441.05	3.05	564877	HYP	WRGD	6	6300	0.21	0.017	0.34	
441.05	444.09	3.04	564878	HYP	WRGD	6	6800	0.14	0.031	0.24	
444.09	447.14	3.05	564879	HYP	WRGD	6	4700	0.19	0.036	0.17	
447.14	450.19	3.05	564880	HYP	WRGD	6	6720	0.19	0.029	0.31	
450.19	453.24	3.05	564881	HYP	WRGD	6	6560	0.21	0.040	0.27	
453.24	456.29	3.05	564882	HYP	WRGD	6	6680	0.18	0.053	0.24	
456.29	459.33	3.04	564883	HYP	WRGD	7/6	6540	0.25	0.024	0.38	
459.33	462.38	3.05	564884	HYP	WRGD	7/2	6580	0.34	0.019	0.45	
462.38	465.43	3.05	564885	HYP	WRGD	7/6	6300	0.23	0.044	0.34	
465.43	468.48	3.05	564886	HYP	WRGD	6/7	6940	0.23	0.019	0.34	
468.48	471.43	2.95	564887	HYP	WRGD	7/2	7180	0.21	0.016	0.27	
471.43	474.57	3.14	564888	HYP	WRGD	7/6	6580	0.28	0.019	0.38	
474.57	477.62	3.05	564889	HYP	WRGD	7/6	6600	0.22	0.040	0.24	
477.62	480.67	3.05	564890	HYP	WRGD	7/6	6500	0.26	0.030	0.38	
480.67	483.72	3.05	564891	HYP	WRGD	6/7	6060	0.38	0.023	0.45	
483.72	486.77	3.05	564892	HYP	WRGD	6	7260	0.28	0.071	0.51	
486.77	489.81	3.04	564893	HYP	WRGD	5/7	7160	0.12	0.066	0.27	
489.81	492.86	3.05	564894	HYP	WRGD	7/1	7100	0.19	0.008	0.31	
492.86	495.91	3.05	564895	HYP	WRGD	7/2	6140	0.22	0.019	0.27	
495.91	498.96	3.05	564896	HYP	WRGD	7/1	6640	0.19	0.021	0.24	
498.96	502.01	3.05	564897	HYP	WRGD	7/2	6400	0.22	0.028	0.27	
502.01	505.05	3.04	564898	HYP	WRGD	7/2	6420	0.21	0.023	0.24	
505.05	508.10	3.05	564899	HYP	WRGD	7/2	6740	0.21	0.010	0.21	
508.10	511.15	3.05	564900	HYP	WRGD	7/2	6900	0.25	0.015	0.27	
511.15	514.20	3.05	564901	HYP	WRGD	7/2	6780	0.25	0.033	0.31	
514.20	517.25	3.05	564902	HYP	WRGD	7/4	6760	0.16	0.065	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
517.25	520.29	3.04	564903	HYP	WRGD	7/1	6980	0.19	0.006	0.21	
520.29	523.34	3.05	564904	HYP	WRGD	7/1	6920	0.28	0.016	0.31	
523.34	526.39	3.05	564905	HYP	WRGD	7/5	6520	0.16	0.100	0.21	
526.39	529.44	3.05	564906	HYP	WRGD	7/2	3800	0.14	0.040	0.10	
529.44	532.49	3.05	564907	HYP	WRGD	7/5	7140	0.18	0.067	0.24	
532.49	535.53	3.04	564908	HYP	WRGD	7/2	6840	0.18	0.073	0.17	
535.53	538.58	3.05	564909	HYP	WRGD	7/5	6400	0.15	0.053	0.17	
538.58	541.63	3.05	564910	HYP	WRGD	5/7	7120	0.07	0.041	0.21	
541.63	544.68	3.05	564911	HYP	WRGD	6/5	6620	0.17	0.026	0.24	
544.68	547.73	3.05	564912	HYP	WRGD	5/6	7320	0.14	0.022	0.24	
547.73	550.77	3.04	564913	HYP	WRGD	6	6640	0.31	0.024	0.27	
550.77	553.82	3.05	564914	HYP	WRGD	6	6700	0.23	0.026	0.21	
553.82	556.87	3.05	564915	HYP	WRGD	6	6960	0.30	0.048	0.31	
556.87	559.92	3.05	564916	HYP	WRGD	6	6600	0.31	0.017	0.21	
559.92	562.97	3.05	564917	HYP	WRGD	6	7100	0.32	0.034	0.27	
562.97	566.01	3.04	564918	HYP	WRGD	4/7	7160	0.32	0.024	0.27	
566.01	569.06	3.05	564919	HYP	WRGD	4/6	7960	0.26	0.042	0.21	
569.06	572.11	3.05	564920	HYP	WRGD	4/5	7000	0.27	0.038	0.21	
572.11	575.16	3.05	564921	HYP	WRGD	7/3	7200	0.20	0.017	0.17	
575.16	578.21	3.05	564922	HYP	WRGD	6/5	6920	0.19	0.030	0.24	
578.21	581.25	3.04	564923	HYP	WRGD	4/5	7080	0.32	0.082	0.51	
581.25	584.30	3.05	564924	HYP	WRGD	4/5	6720	0.31	0.068	0.31	
584.30	587.35	3.05	564925	HYP	WRGD	6/4	6980	0.28	0.015	0.24	
587.35	590.40	3.05	564926	HYP	WRGD	6/5	6740	0.27	0.042	0.24	
590.40	593.45	3.05	564927	HYP	WRGD	5/4	6760	0.14	0.062	0.14	
593.45	596.49	3.04	564928	HYP	WRGD	5/4	6580	0.25	0.032	0.17	
596.49	599.54	3.05	564929	HYP	WRGD	5/4	6620	0.16	0.040	0.10	
599.54	602.59	3.05	564930	HYP	WRGD	4/5	7280	0.29	0.015	0.82	
602.59	605.64	3.05	564931	HYP	WRGD	4/5	6780	0.33	0.056	0.58	
605.64	608.69	3.05	564932	HYP	WRGD	5	6680	0.25	0.038	0.21	
608.69	611.73	3.04	564933	HYP	WRGD	5	7340	0.16	0.021	0.24	
611.73	614.78	3.05	564934	HYP	WRGD	5	7080	0.11	0.046	0.24	
614.78	617.83	3.05	564935	HYP	WRGD	5	6780	0.19	0.022	0.10	
617.83	620.88	3.05	564936	HYP	WRGD	5	6750	0.21	0.032	0.14	
620.88	623.93	3.05	564937	HYP	WRGD	5	7160	0.20	0.019	0.17	
623.93	626.97	3.04	564938	HYP	WRGD	5	6920	0.36	0.037	0.21	
626.97	630.02	3.05	564939	HYP	WRGD	5	6840	0.24	0.019	0.17	
630.02	633.07	3.05	564940	HYP	WRGD	5	7180	0.24	0.019	0.10	
633.07	636.11	3.04	564941	HYP	WRGD	5/4	7000	0.26	0.016	0.21	
636.11	639.17	3.06	564942	HYP	WRGD	4/5	6680	0.25	0.009	0.17	
639.17	642.21	3.04	564943	HYP	WRGD	4/5	6940	0.27	0.034	1.20	
642.21	645.26	3.05	564944	HYP	WRGD	4/5	7400	0.24	0.019	0.17	
645.26	648.31	3.05	564945	HYP	WRGD	4/5	6680	0.18	0.068	0.14	
648.31	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-180	Total Depth	410.57 m		
Northing	254,870.44	Casing Depth	38.4 m		Left Out
Easting	111,700.27	Survey Data	Azimuth	Dip	Instrument
Elevation	1146.18 m	Collar			
Core Size	HQ	410.57 m	050°	-89.5°	Sperry Sun
Drilling Started	July 23, 1993				
Drilling Finished	July 29, 1993				
Logged by	L. Brommeland				

Purpose/Target: Delineation hole to test extent of mineralization southeast of 92-124.

Comments: Poorly developed supergene zone, moderate hypogene mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	20.42	16.76		CAP							
20.42	23.46	3.04	573638	SOX	WRDR	3	2340	0.16	0.004	0.07	
23.46	25.60	2.14	573639	SOX	WRDR	3	3180	0.44	0.004	0.10	
25.60	29.57	3.97	573640	SOX	WRDR	3	6240	0.46	0.006	0.07	
29.57	33.22	3.65	573641	SOX	WRDR	3	5260	0.51	0.003	0.21	
33.22	35.66	2.44	573642	SOX	WRDR	3	4350	0.22	0.004	0.07	
35.66	38.71	3.05	573643	SOX	QMFX	5	6480	0.17	0.011	0.07	
38.71	40.54	1.83	573644	SUS	QMFX	5	4440	0.16	0.003	0.07	
40.54	44.81	4.27	573645	SUS	QMFX	5	13150	0.29	0.003	0.21	
44.81	47.85	3.04	573646	HYP	QMFX	5	9200	0.34	0.013	0.21	
47.85	50.90	3.05	573647	HYP	QMFX	5	10840	0.30	0.007	0.17	
50.90	53.95	3.05	573648	HYP	QMFX	5	9780	0.31	0.007	0.10	
53.95	57.00	3.05	573649	HYP	QMFX	5	9380	0.34	0.009	0.10	
57.00	60.05	3.05	573650	HYP	QMFX	5	10900	0.19	0.003	0.14	
60.05	63.09	3.04	573651	HYP	YMGN	7/5	9950	0.17	0.005	0.10	
63.09	65.84	2.75	573652	HYP	YMGN	7/5	4780	0.19	0.002	0.34	
65.84	67.67	1.83	573653	HYP	YMGN	7/5	6000	0.10	0.001	0.07	
67.67	71.32	3.65	573654	HYP	YMGN	7/5	11560	0.19	0.003	0.10	
71.32	74.37	3.05	573655	HYP	YMGN	7/5	9000	0.34	0.004	0.34	
74.37	78.33	3.96	573656	HYP	YMGN	7/5	9600	0.22	0.004	0.34	
78.33	81.38	3.05	573657	HYP	YMGN	7/5	10200	0.13	0.002	0.10	
81.38	83.52	2.14	573658	HYP	WRDR	7/5	6760	0.18	0.002	0.17	
83.52	87.48	3.96	573659	HYP	WRDR	7/5	14250	0.18	0.007	0.17	
87.48	90.53	3.05	573660	HYP	WRDR	7/5	11700	0.13	0.003	0.14	
90.53	91.75	1.22	573661	HYP	WRDR	7/5	4180	0.17	0.002	0.14	
91.75	94.79	3.04	573662	HYP	WRDR	7/5	11300	0.20	0.003	0.24	
94.79	97.54	2.75	573663	HYP	WRDR	7/5	8000	0.18	0.002	0.14	
97.54	99.67	2.13	573664	HYP	WRDR	7/5	7960	0.11	0.001	0.10	
99.67	103.33	3.66	573665	HYP	WRDR	7/5	10920	0.10	0.002	0.07	
103.33	105.46	2.13	573666	HYP	WRDR	7/5	7540	0.10	0.002	0.10	
105.46	107.90	2.44	573667	HYP	WRDR	7/5	9280	0.10	0.004	0.10	
107.90	112.17	4.27	573668	HYP	WRDR	7	14520	0.08	0.002	0.10	
112.17	116.73	4.56	573669	HYP	WRDR	7	10320	0.14	0.002	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
116.73	119.79	3.06	573670	HYP	WRDR	7	11420	0.41	0.004	2.54	
119.79	123.44	3.65	573671	HYP	WRDR	7	11000	0.09	0.002	0.10	
123.44	125.58	2.14	573672	HYP	WRDR	7	7760	0.11	0.005	0.14	
125.58	128.32	2.74	573673	HYP	WRDR	7	5680	0.27	0.001	0.34	
128.32	131.06	2.74	573674	HYP	WRDR	7/5	6950	0.16	0.008	0.21	
131.06	135.33	4.27	573675	HYP	WRDR	7	1575	0.13	0.001	0.17	
135.33	138.38	3.05	573676	HYP	WRDR	7/5	11520	0.28	0.004	0.38	
138.38	140.82	2.44	573677	HYP	WRDR	7/5	5160	0.16	0.065	0.55	
140.82	142.34	1.52	573678	HYP	WRDR	7/5	5520	0.09	0.030	0.58	
142.34	145.39	3.05	573679	HYP	WRDR	7/5	10500	0.25	0.014	0.34	
145.39	148.44	3.05	573680	HYP	WRDR	7/5	11760	0.25	0.010	0.31	
148.44	151.49	3.05	573681	HYP	WRGD	5/7	11940	0.19	0.011	0.21	
151.49	154.53	3.04	573682	HYP	WRGD	5/7	11640	0.21	0.007	0.31	
154.53	157.58	3.05	573683	HYP	QMFX	5/7	12200	0.21	0.006	0.24	
157.58	160.63	3.05	573684	HYP	QMFX	5/7	12060	0.15	0.003	0.14	
160.63	163.68	3.05	573685	HYP	WRDR	7	12280	0.13	0.003	0.14	
163.68	166.12	2.44	573686	HYP	WRDR	7	11320	0.16	0.005	0.21	
166.12	169.16	3.04	573687	HYP	WRDR	7/5	11540	0.17	0.006	0.24	
169.16	172.21	3.05	573688	HYP	WRDR	5/7	9660	0.15	0.018	0.14	
172.21	175.87	3.66	573689	HYP	WRDR	7/5	13540	0.13	0.002	0.17	
175.87	178.92	3.05	573690	HYP	WRDR	7	11980	0.15	0.001	0.14	
178.92	181.97	3.05	573691	HYP	WRDR	7/5	14500	0.20	0.002	0.21	
181.97	185.01	3.04	573692	HYP	WRDR	7	13500	0.15	0.003	0.10	
185.01	188.06	3.05	573693	HYP	WRDR	7/5	12820	0.19	0.010	0.21	
188.06	191.11	3.05	573694	HYP	WRDR	7/5	13340	0.26	0.005	0.31	
191.11	194.16	3.05	573695	HYP	WRDR	7/5	12600	0.25	0.003	0.24	
194.16	197.21	3.05	573696	HYP	WRDR	7/5	13740	0.43	0.003	0.55	
197.21	200.25	3.04	573697	HYP	WRDR	7/5	15000	0.33	0.005	0.21	
200.25	203.30	3.05	573698	HYP	WRGD	7/5	14220	0.14	0.014	0.17	
203.30	206.35	3.05	573699	HYP	WRGD	6	13480	0.21	0.008	0.17	
206.35	209.40	3.05	573700	HYP	WRGD	6	13200	0.26	0.009	0.21	
209.40	212.45	3.05	573701	HYP	WRGD	6	13540	0.27	0.004	0.31	
212.45	215.49	3.04	573702	HYP	WRGD	6	13820	0.16	0.018	0.17	
215.49	218.54	3.05	573703	HYP	WRGD	7/1	13580	0.11	0.002	0.10	
218.54	221.59	3.05	573704	HYP	WRGD	5/7	12620	0.13	0.009	0.14	
221.59	224.64	3.05	573705	HYP	WRGD	5/7	13240	0.15	0.004	0.17	
224.64	227.69	3.05	573706	HYP	WRGD	5/7	12580	0.11	0.015	0.14	
227.69	230.73	3.04	573707	HYP	WRGD	5/7	12600	0.22	0.006	0.21	
230.73	233.78	3.05	573708	HYP	WRGD	5/7	12660	0.13	0.012	0.14	
233.78	236.83	3.05	573709	HYP	WRGD	5/7	13740	0.15	0.015	0.17	
236.83	239.88	3.05	573710	HYP	WRGD	5/7	13240	0.14	0.006	0.14	
239.88	242.93	3.05	573711	HYP	WRGD	5/7	13200	0.22	0.009	0.17	
242.93	245.97	3.04	573712	HYP	WRGD	5/7	13080	0.15	0.004	0.17	
245.97	249.02	3.05	573713	HYP	WRGD	5/7	12760	0.19	0.006	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
249.02	252.07	3.05	573714	HYP	WRGD	5/7	13360	0.09	0.009	0.10	
252.07	255.12	3.05	573715	HYP	WRGD	5/7	13060	0.21	0.007	0.24	
255.12	258.17	3.05	573716	HYP	WRGD	5/7	13160	0.19	0.016	0.21	
258.17	261.21	3.04	573717	HYP	WRGD	5/7	13640	0.19	0.114	0.14	
261.21	264.26	3.05	573718	HYP	WRGD	5/7	14040	0.15	0.008	0.17	
264.26	267.31	3.05	573719	HYP	QMFX	5/7	13080	0.38	0.009	0.31	
267.31	270.36	3.05	573720	HYP	QMFX	5/7	13420	0.36	0.008	0.27	
270.36	273.41	3.05	573721	HYP	QMFX	5/7	13300	0.13	0.004	0.14	
273.41	276.45	3.04	573722	HYP	WRGD	5/7	13380	0.21	0.024	0.24	
276.45	279.50	3.05	573723	HYP	WRGD	5/7	12580	0.13	0.023	0.14	
279.50	282.55	3.05	573724	HYP	WRGD	5/7	13080	0.21	0.009	0.17	
282.55	285.60	3.05	573725	HYP	WRGD	5/7	13660	0.16	0.003	0.10	
285.60	288.65	3.05	573726	HYP	WRGD	5/7	11720	0.14	0.009	0.10	
288.65	291.69	3.04	573727	HYP	WRGD	5/7	12600	0.19	0.006	0.17	
291.69	294.74	3.05	573728	HYP	WRGD	5/7	13180	0.22	0.010	0.17	
294.74	297.79	3.05	573729	HYP	WRGD	7/5	13120	0.12	0.002	0.10	
297.79	300.84	3.05	573730	HYP	WRGD	7/5	12940	0.08	0.007	0.07	
300.84	303.89	3.05	573731	HYP	QMFX	7	13300	0.05	0.001	0.03	
303.89	306.93	3.04	573732	HYP	WRDR	7	13540	0.29	0.005	0.17	
306.93	310.59	3.66	573733	HYP	WRDR	7	14960	0.24	0.024	0.69	
310.59	313.03	2.44	573734	HYP	WRDR	7	7320	0.13	0.004	0.10	
313.03	315.77	2.74	573735	HYP	WRDR	7	11620	0.11	0.002	0.10	
315.77	318.82	3.05	573736	HYP	WRDR	7/1	14640	0.16	0.009	0.10	
318.82	320.95	2.13	573737	HYP	WRDR	7/1	9860	0.11	0.015	0.10	
320.95	324.00	3.05	573738	HYP	WRDR	7/1	13380	0.07	0.003	0.07	
324.00	328.27	4.27	573739	HYP	WRDR	7/1	17460	0.12	0.004	0.03	
328.27	331.32	3.05	573740	HYP	WRDR	7/1	14220	0.15	0.002	0.07	
331.32	334.37	3.05	573741	HYP	WRDR	7/1	14320	0.07	0.006	<0.03	
334.37	337.41	3.04	573742	HYP	WRDR	7	12260	0.08	0.006	0.07	
337.41	340.46	3.05	573743	HYP	WRDR	7	13180	0.12	0.005	0.31	
340.46	343.51	3.05	573744	HYP	WRDR	7/5	13580	0.40	0.004	0.89	
343.51	346.56	3.05	573745	HYP	WRDR	7/5	13600	0.22	0.006	0.24	
346.56	349.61	3.05	573746	HYP	QMFX	5/7	12560	0.07	0.006	0.14	
349.61	352.65	3.04	573747	HYP	QMFX	5/7	12980	0.09	0.006	0.10	
352.65	355.70	3.05	573748	HYP	QMFX	5/7	12120	0.14	0.008	0.27	
355.70	358.75	3.05	573749	HYP	QMFX	5/7	11880	0.12	0.004	0.14	
358.75	361.80	3.05	573750	HYP	QMFX	5/7	14260	0.14	0.006	0.21	
361.80	364.85	3.05	573751	HYP	WRDR	7	13440	0.37	0.007	0.38	
364.85	367.89	3.04	573752	HYP	WRDR	7	14140	0.20	0.002	0.17	
367.89	370.94	3.05	573753	HYP	WRDR	7	12360	0.31	0.003	0.34	
370.94	373.99	3.05	573754	HYP	QMFX	7	13860	0.34	0.004	0.31	
373.99	377.04	3.05	573755	HYP	WRDR	7	12720	0.14	0.006	0.10	
377.04	379.93	2.89	573756	HYP	WRDR	7	14080	0.23	0.001	0.17	
379.93	382.98	3.05	573757	HYP	WRDR	7	13420	0.13	0.008	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
382.98	386.18	3.20	573758	HYP	WRDR	7	14100	0.11	0.003	0.07	
386.18	389.23	3.05	573759	HYP	WRDR	7	13500	0.36	0.003	0.27	
389.23	392.28	3.05	573760	HYP	WRDR	7	12880	0.17	0.005	0.31	
392.28	395.33	3.05	573761	HYP	WRDR	7	13400	0.19	0.003	0.07	
395.33	398.37	3.04	573762	HYP	WRDR	7	12700	0.12	0.005	0.07	
398.37	401.42	3.05	573763	HYP	WRDR	7	14360	0.11	0.005	0.07	
401.42	404.47	3.05	573764	HYP	WRDR	7	13320	0.12	0.018	0.07	
404.47	407.51	3.04	573765	HYP	WRDR	7	13640	0.15	0.003	0.10	
407.51	410.57	3.06	573766	HYP	WRDR	7	13360	0.10	0.001	0.03	
410.57	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-181	Total Depth	186.12 m		
Northing	254,800.37	Casing Depth	10.67 m		Left In
Easting	111,363.93	Survey Data	Azimuth	Dip	Instrument
Elevation	1260.92 m	Collar		-90.0°	
Core Size	HQ				
Drilling Started	June 22, 1993				
Drilling Finished	July 27, 1993				
Logged by	M. Dittrick				
Purpose/Target:	Delineation drill hole.				
Comments:	Hole shut down prematurely due to rods stuck.				

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	6.10	3.05	575021	SOX	MBFH	4	8880	0.01	0.059	1.30	
6.10	9.14	3.04	575022	SOX	MBFH	4	8560	0.01	0.122	0.96	
9.14	12.19	3.05	575023	SOX	MBFH	4	10660	0.01	0.119	1.85	
12.19	15.24	3.05	575024	SOX	MBFH	4	7030	0.01	0.084	0.27	
15.24	18.29	3.05	575025	SOX	MBFH	4	9260	<0.01	0.054	0.14	
18.29	21.34	3.05	575026	SOX	MBFH	4	8520	<0.01	0.080	0.27	
21.34	24.23	2.89	575027	SOX	MBFH	4	8020	<0.01	0.057	0.41	
24.23	27.43	3.20	575028	SOX	MBFH	4	10020	<0.01	0.024	0.10	
27.43	30.48	3.05	575029	SOX	MBFH	4	4500	<0.01	0.020	0.14	
30.48	33.53	3.05	575030	SOX	MBFH	4	920	<0.01	0.004	0.10	
33.53	36.58	3.05	575031	SOX	MBFH	4	4020	<0.01	0.007	0.10	
36.58	39.62	3.04	575032	SOX	MBFH	4	5880	<0.01	0.008	0.14	
39.62	42.67	3.05	575033	SOX	MBFH	4	7260	<0.01	0.011	0.79	
42.67	45.72	3.05	575034	SOX	MBFH	4	9180	<0.01	0.020	0.17	
45.72	48.77	3.05	575035	SOX	MBFH	4	10760	<0.01	0.046	0.14	
48.77	51.82	3.05	575036	SOX	MBFH	4	10260	<0.01	0.120	0.21	
51.82	54.86	3.04	575037	SOX	MBFH	4	12000	<0.01	0.048	0.07	
54.86	57.91	3.05	575038	SOX	MBFH	4	11240	<0.01	0.082	0.10	
57.91	60.96	3.05	575039	SOX	MBFH	4	11060	<0.01	0.102	0.14	
60.96	64.01	3.05	575040	SOX	MBFH	4	9440	0.01	0.242	0.17	
64.01	67.06	3.05	575041	SOX	MBFH	4	10340	0.01	0.215	0.14	
67.06	70.10	3.04	575042	SOX	MBFH	4	10140	0.02	0.135	0.45	
70.10	73.15	3.05	575043	SOX	MBFH	4	10060	0.02	0.102	0.38	
73.15	76.20	3.05	575044	SOX	MBFH	4	10580	0.01	0.132	0.17	
76.20	79.25	3.05	575045	SOX	MBFH	4	9700	0.01	0.057	0.21	
79.25	82.30	3.05	575046	SOX	MBFH	4	12700	0.01	0.077	0.48	
82.30	85.34	3.04	575047	SOX	MBFH	4	7740	0.01	0.044	0.17	
85.34	88.39	3.05	575048	SOX	MBFH	4	10760	0.10	0.073	0.62	
88.39	91.44	3.05	575049	SOX	MBFH	4	10500	0.01	0.191	0.24	
91.44	94.49	3.05	575050	SOX	MBFH	4	10560	0.04	0.156	0.34	
94.49	97.54	3.05	575051	SUS	MBFH	4	11680	0.22	0.208	0.31	
97.54	100.58	3.04	575052	SUS	MBFH	4	11160	0.88	0.174	0.48	
100.58	103.63	3.05	575053	SUS	MBFH	4	10480	0.41	0.137	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-181

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
103.63	106.68	3.05	575054	SUS	MBFH	4	12000	0.45	0.159	0.31	
106.68	109.73	3.05	575055	SUS	MBFH	4	12420	0.76	0.151	0.41	
109.73	112.78	3.05	575056	SUS	MBFH	4	10560	0.71	0.257	0.41	
112.78	115.82	3.04	575057	SUS	MBFH	4	10000	0.47	0.160	0.34	
115.82	118.87	3.05	575058	SUS	MBFH	4	9700	0.35	0.243	0.21	
118.87	121.92	3.05	575059	SUS	MBFH	4	10280	0.46	0.180	0.38	
121.92	124.97	3.05	575060	SUS	MBFH	4	3760	0.36	0.120	0.31	
124.97	128.02	3.05	575061	SUS	MBFH	4	10520	0.48	0.161	0.24	
128.02	131.06	3.04	575062	SUS	MBFH	4	11400	1.19	0.310	0.93	
131.06	134.11	3.05	575063	SUS	MBFH	4	13100	0.31	0.185	0.17	
134.11	137.16	3.05	575064	SUS	MBFH	4	12200	0.36	0.189	0.21	
137.16	140.21	3.05	575065	SUS	MBFH	4	11520	0.34	0.175	0.17	
140.21	143.26	3.05	575066	SUS	MBFH	4	11700	0.47	0.361	0.31	
143.26	146.30	3.04	575067	SUS	MBFH	4	12240	0.45	0.340	0.41	
146.30	149.35	3.05	575068	SUS	MBFH	4	11860	1.25	0.213	0.86	
149.35	152.40	3.05	575069	SUS	MBFH	4	11020	0.92	0.616	2.88	
152.40	155.45	3.05	575070	SUS	MBFH	4	12440	1.35	0.655	1.27	
155.45	158.50	3.05	575071	SUS	MBFH	4	11860	1.85	0.725	1.54	
158.50	161.54	3.04	575072	SUS	MBFH	4	10920	1.85	1.280	1.03	
161.54	164.59	3.05	575073	SUS	MBFH	4	11760	1.13	0.802	0.99	
164.59	167.64	3.05	575074	SUS	MBFH	4	12180	1.80	1.240	1.75	
167.64	170.69	3.05	575075	SUS	MBFH	4	11360	0.31	0.749	0.31	
170.69	173.74	3.05	575076	SUS	MBFH	4	10540	1.97	0.806	1.54	
173.74	176.78	3.04	575077	SUS	MBFH	4	10520	0.45	1.490	0.45	
176.78	179.83	3.05	575078	SUS	MBFH	4	11860	0.25	1.200	1.58	
179.83	182.88	3.05	575079	SUS	MBFH	4	10980	0.12	0.594	0.24	
182.88	186.12	3.24	575080	SUS	MBFH	4	12760	0.55	0.554	0.48	
186.12	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-182	Total Depth	422.76 m		
Northing	254,300.59	Casing Depth	9.75 m		Left Out
Easting	110,799.07	Survey Data	Azimuth	Dip	Instrument
Elevation	1386.40 m	Collar			
Core Size	HQ	154.53 m	330°	-89.3°	Sperry Sun
Drilling Started	July 25, 1993	306.93 m	300°	-89.0°	Sperry Sun
Drilling Finished	July 30, 1993	422.76 m	310°	-89.5°	Sperry Sun
Logged by	W. Mann				

Purpose/Target: To test southwest side of zone below gold-rich trench.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	6.40	2.74	571111	CAP	WRGD	3	7760	<0.01	0.003	0.21	
6.40	9.75	3.35	571112	CAP	WRGD	3	2120	<0.01	0.003	0.34	
9.75	12.65	2.90	571113	CAP	WRGD	3	8620	<0.01	0.003	0.31	
12.65	15.24	2.59	571114	CAP	WRGD	3	8660	<0.01	0.002	0.24	
15.24	17.37	2.13	571115	CAP	WRGD	3	7880	<0.01	0.002	0.24	
17.37	20.11	2.74	571116	CAP	WRGD	3	9980	<0.01	0.004	0.34	
20.11	23.16	3.05	571117	CAP	WRGD	3	11160	<0.01	0.002	0.27	
23.16	26.21	3.05	571118	CAP	WRGD	3	11360	<0.01	0.002	0.14	
26.21	28.04	1.83	571119	CAP	WRGD	3	7220	<0.01	0.002	0.27	
28.04	30.63	2.59	571120	CAP	WRGD	3	8700	<0.01	0.006	0.41	
30.63	33.83	3.20	571121	CAP	WRGD	3	11500	<0.01	0.009	0.48	
33.83	36.88	3.05	571122	CAP	WRGD	3	9820	<0.01	0.006	0.45	
36.88	39.62	2.74	571123	CAP	WRGD	3	8940	<0.01	0.005	0.48	
39.62	43.28	3.66	571124	CAP	WRGD	3	12060	<0.01	0.006	0.62	
43.28	46.33	3.05	571125	CAP	WRGD	3	11060	<0.01	0.005	0.45	
46.33	49.38	3.05	571126	CAP	WRGD	3	9660	<0.01	0.008	0.89	
49.38	51.97	2.59	571127	CAP	MBFX	3	9800	<0.01	0.010	0.65	
51.97	55.02	3.05	571128	CAP	MBFX	3	10160	<0.01	0.005	0.55	
55.02	58.52	3.50	571129	CAP	WRGD	3	10120	<0.01	0.007	0.72	
58.52	61.57	3.05	571130	CAP	WRGD	3	10220	<0.01	0.011	0.34	
61.57	64.62	3.05	571131	CAP	WRGD	3	10900	<0.01	0.010	0.38	
64.62	67.67	3.05	571132	CAP	WRGD	3	10380	<0.01	0.008	0.51	
67.67	70.71	3.04	571133	CAP	WRGD	3	94200	<0.01	0.007	0.38	
70.71	73.46	2.75	571134	CAP	WRGD	3	94600	<0.01	0.011	0.38	
73.46	76.20	2.74	571135	CAP	WRGD	3	93600	<0.01	0.011	0.45	
76.20	79.25	3.05	571136	CAP	WRGD	3	10120	<0.01	0.008	0.65	
79.25	82.45	3.20	571137	CAP	WRGD	3	10800	<0.01	0.009	0.99	
82.45	85.65	3.20	571138	CAP	WRGD	3	10700	<0.01	0.006	0.38	
85.65	88.70	3.05	571139	CAP	WRGD	3/5	10320	0.01	0.004	0.38	
88.70	91.74	3.04	571140	CAP	WRGD	3/5	12320	0.01	0.003	0.31	
91.74	94.18	2.44	571141	CAP	WRGD	3/5	12320	0.01	0.004	0.24	
94.18	97.54	3.36	571142	CAP	WRGD	3	9320	0.01	0.004	0.34	
97.54	100.58	3.04	571143	CAP	WRGD	3	11560	0.01	0.004	1.23	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
100.58	103.78	3.20	571144	CAP	WRGD	3	11560	<0.01	0.010	0.31	
103.78	105.77	1.99	571145	CAP	WRGD	3	10920	<0.01	0.008	0.34	
105.77	108.81	3.04	571146	CAP	WRGD	3	10760	<0.01	0.007	0.82	
108.81	111.86	3.05	571147	CAP	WRGD	3	10080	<0.01	0.007	0.24	
111.86	114.91	3.05	571148	CAP	WRGD	3	11220	0.01	0.006	0.21	
114.91	116.13	1.22	571149	CAP	WRGD	3	4200	0.01	0.005	0.24	
116.13	119.33	3.20	571150	CAP	WRGD	3	12320	0.01	0.005	0.14	
119.33	122.53	3.20	571151	CAP	WRGD	3	11780	<0.01	0.005	0.17	
122.53	125.88	3.35	571152	CAP	WRGD	3	11040	<0.01	0.009	0.21	
125.88	127.10	1.22	571153	TRN	WRGD	5/3	4180	<0.01	0.010	0.31	
127.10	130.15	3.05	571154	TRN	WRGD	5/3	12540	<0.01	0.006	0.27	
130.15	132.28	2.13	571155	TRN	WRGD	5/3	7560	<0.01	0.006	0.27	
132.28	135.33	3.05	571156	TRN	WRGD	5/3	11000	<0.01	0.010	0.27	
135.33	138.53	3.20	571157	TRN	WRGD	5/3	9840	<0.01	0.006	0.24	
138.53	141.58	3.05	571158	TRN	WRGD	5/3	11220	0.01	0.016	0.34	
141.58	142.34	0.76	571159	TRN	WRGD	5/3	3620	0.01	0.020	0.34	
142.34	145.39	3.05	571160	TRN	WRGD	5/3	11120	0.01	0.022	0.48	
145.39	148.44	3.05	571161	TRN	WRGD	5/3	11320	<0.01	0.011	0.38	
148.44	151.49	3.05	571162	SOX	WRGD	5	12340	<0.01	0.017	0.34	
151.49	154.53	3.04	571163	SOX	WRGD	5	11180	<0.01	0.019	0.41	
154.53	157.58	3.05	571164	SOX	WRGD	5	12180	0.01	0.010	0.14	
157.58	160.63	3.05	571165	SOX	WRGD	5	11260	0.02	0.005	0.24	
160.63	163.37	2.74	571166	SUS	WRGD	5	9540	0.02	0.004	0.21	
163.37	166.73	3.36	571167	SUS	WRGD	5	12440	0.05	0.003	0.24	
166.73	169.77	3.04	571168	SUS	WRGD	5	11760	0.06	0.005	0.10	
169.77	172.82	3.05	571169	SUS	WRGD	5	11780	0.12	0.005	0.17	
172.82	175.87	3.05	571170	SUS	WRGD	5	11580	0.11	0.006	0.31	
175.87	178.92	3.05	571171	SUS	WRGD	5	11240	0.22	0.010	0.21	
178.92	181.97	3.05	571172	SUS	WRGD	5	11080	0.22	0.014	0.24	
181.97	185.01	3.04	571173	SUS	WRGD	5	12180	0.22	0.006	0.27	
185.01	187.47	2.46	571174	SUS	WRGD	5	8940	0.15	0.003	0.21	
187.47	190.50	3.03	571175	SUS	WRGD	5	12820	0.12	0.005	0.10	
190.50	194.16	3.66	571176	SUS	WRGD	5	15100	0.16	0.014	0.31	
194.16	197.21	3.05	571177	SUS	WRGD	5	1180	0.04	0.004	0.10	
197.21	200.25	3.04	571178	SUS	WRGD	5	13920	0.12	0.005	0.21	
200.25	203.30	3.05	571179	SUS	WRGD	5	11680	0.15	0.003	0.14	
203.30	206.35	3.05	571180	SUS	WRGD	5	13200	0.13	0.005	0.21	
206.35	208.79	2.44	571181	SUS	WRGD	5	10720	0.05	0.005	0.14	
208.79	211.84	3.05	571182	SUS	WRGD	5	12380	0.10	0.007	0.17	
211.84	215.04	3.20	571183	SUS	WRGD	5	12720	0.15	0.006	0.27	
215.04	217.78	2.74	571184	SUS	WRGD	5	10460	0.12	0.005	0.21	
217.78	219.00	1.22	571185	SUS	WRGD	5	4440	0.10	0.006	0.17	
219.00	221.59	2.59	571186	SUS	WRGD	5	11520	0.12	0.010	0.38	
221.59	223.73	2.14	571187	SUS	WRGD	5	8840	0.09	0.006	0.69	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
223.73	226.77	3.04	571188	SUS	WRGD	5	13060	0.11	0.006	0.17	
226.77	230.12	3.35	571189	SUS	WRGD	5	14480	0.13	0.005	0.21	
230.12	233.17	3.05	571190	SUS	WRGD	5	14320	0.14	0.011	0.17	
233.17	236.22	3.05	571191	SUS	WRGD	5	12800	0.13	0.078	0.34	
236.22	238.35	2.13	571192	SUS	WRGD	5	8000	0.24	0.016	0.65	
238.35	241.40	3.05	571193	SUS	WRGD	5	13440	0.05	0.007	0.24	
241.40	244.45	3.05	571194	SUS	WRGD	5	13480	0.09	0.004	0.41	
244.45	247.50	3.05	571195	SUS	WRGD	5	12800	0.21	0.004	0.21	
247.50	249.02	1.52	571196	SUS	WRGD	5	6540	0.13	0.015	0.34	
249.02	252.07	3.05	571197	SUS	WRGD	5	13160	0.12	0.005	0.31	
252.07	255.12	3.05	571198	SUS	WRGD	5	12340	0.10	0.009	0.21	
255.12	256.95	1.83	571199	SUS	WRGD	5	7660	0.11	0.009	0.21	
256.95	259.99	3.04	571200	SUS	WRGD	5	12940	0.12	0.009	0.21	
259.99	261.21	1.22	571201	SUS	WRGD	5	5100	0.09	0.005	0.17	
261.21	264.26	3.05	571202	SUS	WRGD	5	13000	0.09	0.004	0.14	
264.26	267.31	3.05	571203	SUS	WRGD	5	12080	0.08	0.009	0.21	
267.31	270.36	3.05	571204	SUS	WRGD	5	13400	0.05	0.007	0.21	
270.36	272.64	2.28	571205	SUS	WRGD	5	9340	0.02	0.002	0.24	
272.64	275.84	3.20	571206	SUS	WRGD	5	12260	0.05	0.007	0.21	
275.84	279.50	3.66	571207	TRN	WRGD	5	14360	0.04	0.001	0.14	
279.50	282.55	3.05	571208	TRN	WRGD	5	12500	0.05	0.001	0.17	
282.55	285.60	3.05	571209	TRN	WRGD	5	12480	0.04	0.001	0.14	
285.60	288.49	2.89	571210	TRN	WRGD	5	11580	0.10	0.002	0.24	
288.49	291.69	3.20	571211	HYP	LPXX	5/3	10600	0.08	0.002	0.14	
291.69	293.83	2.14	571212	HYP	WRGD	5	9180	0.09	0.003	0.24	
293.83	295.96	2.13	571213	HYP	WRGD	5	9600	0.08	0.004	0.17	
295.96	298.09	2.13	571214	HYP	WRGD	5	9520	0.10	0.002	0.24	
298.09	300.84	2.75	571215	HYP	LPXX	5/3	11980	0.05	0.002	0.21	
300.84	303.58	2.74	571216	HYP	LPXX	5/3	10940	0.06	0.002	0.17	
303.58	306.93	3.35	571217	HYP	WRGD	5	12000	0.09	0.005	0.14	
306.93	309.37	2.44	571218	HYP	WRGD	5	10180	0.09	0.002	0.17	
309.37	311.66	2.29	571219	HYP	WRGD	5	8280	0.10	0.004	0.17	
311.66	314.71	3.05	571220	HYP	WRGD	5	12640	0.08	0.002	0.21	
314.71	316.53	1.82	571221	HYP	WRGD	5	7020	0.11	0.002	0.10	
316.53	319.13	2.60	571222	HYP	WRGD	5	11140	0.14	0.001	0.14	
319.13	322.17	3.04	571223	HYP	WRGD	5	11580	0.11	0.001	0.24	
322.17	325.53	3.36	571224	HYP	WRGD	5	12120	0.08	0.003	0.07	
325.53	328.27	2.74	571225	HYP	WRGD	5	12020	0.08	0.016	0.07	
328.27	331.32	3.05	571226	HYP	WRGD	5	12960	0.07	0.003	0.10	
331.32	334.21	2.89	571227	HYP	WRGD	5	12040	0.11	0.003	0.14	
334.21	337.41	3.20	571228	HYP	WRGD	5	13080	0.09	0.004	0.07	
337.41	339.85	2.44	571229	HYP	WRGD	5	9900	0.07	0.001	<0.01	
339.85	342.60	2.75	571230	HYP	WRGD	5	11920	0.04	0.001	<0.01	
342.60	345.80	3.20	571231	HYP	WRGD	5	14660	0.04	0.003	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
345.80	349.00	3.20	571232	HYP	WRGD	5	12680	0.09	0.002	<0.01	
349.00	351.74	2.74	571233	HYP	WRGD	5	12700	0.04	0.002	<0.01	
351.74	354.18	2.44	571234	HYP	WRGD	5	9280	0.16	0.002	0.21	
354.18	357.23	3.05	571235	HYP	WRGD	5	12820	0.14	0.002	0.10	
357.23	360.27	3.04	571236	HYP	WRGD	5	13600	0.04	0.002	<0.01	
360.27	363.32	3.05	571237	HYP	WRGD	5	12940	0.03	0.000	<0.01	
363.32	366.37	3.05	571238	HYP	WRGD	5	12680	0.08	0.013	<0.01	
366.37	368.50	2.13	571239	HYP	WRGD	5	7580	0.02	0.000	<0.01	
368.50	370.94	2.44	571240	HYP	WRGD	5	10220	0.02	0.007	<0.01	
370.94	373.99	3.05	571241	HYP	WRGD	5	12640	0.04	0.001	<0.01	
373.99	377.04	3.05	571242	HYP	WRGD	5	11760	0.05	0.001	<0.01	
377.04	380.54	3.50	571243	HYP	WRGD	5	12600	0.04	0.002	<0.01	
380.54	383.74	3.20	571244	HYP	WRGD	5	13040	0.06	0.004	0.21	
383.74	386.18	2.44	571245	HYP	WRGD	5	12520	0.04	0.003	0.27	
386.18	389.23	3.05	571246	HYP	WRGD	5	12240	0.03	0.002	0.10	
389.23	392.28	3.05	571247	HYP	WRGD	5	12500	0.10	0.001	<0.01	
392.28	395.33	3.05	571248	HYP	WRGD	5	11560	0.04	0.001	<0.01	
395.33	398.37	3.04	571249	HYP	WRGD	5	12880	0.04	0.000	<0.01	
398.37	401.42	3.05	571250	HYP	WRGD	5	11980	0.04	0.001	<0.01	
401.42	404.47	3.05	571251	HYP	WRGD	5	11720	0.04	0.002	<0.01	
404.47	407.52	3.05	571252	HYP	WRGD	5	11000	0.04	0.001	<0.01	
407.52	409.35	1.83	571253	HYP	WRGD	5	7520	0.07	0.015	<0.01	
409.35	411.18	1.83	571254	HYP	WRGD	5	6660	0.06	0.015	<0.01	
411.18	414.22	3.04	571255	HYP	WRGD	5	12620	0.03	0.003	0.03	
414.22	416.66	2.44	571256	HYP	WRGD	5	9480	0.05	0.003	<0.01	
416.66	419.71	3.05	571257	HYP	WRGD	5	11420	0.07	0.002	<0.01	
419.71	422.76	3.05	571258	HYP	WRGD	5	11660	0.05	0.002	<0.01	
422.76	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-183	Total Depth	651.36 m
Northing	254,450.25	Casing Depth	3.05 m Left Out
Easting	111,000.74	Survey Data	Azimuth Dip Instrument
Elevation	1397.85 m	Collar	-90.0°
Core Size	HQ	306.9 m	035° -88.5°
Drilling Started	July 26, 1993		
Drilling Finished	August 6, 1993		
Logged by	C. DeLong		

Purpose/Target: Delineation drilling.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	6.10	3.05	569519	CAP	WRGD	3/5	7120	<0.01	0.007	0.10	
6.10	8.23	2.13	569520	CAP	WRGD	3/5	5600	<0.01	0.004	0.14	
8.23	11.89	3.66	569521	CAP	WRGD	3/5	2940	<0.01	0.006	0.07	
11.89	14.33	2.44	569522	CAP	WRGD	3/5	7460	<0.01	0.006	0.14	
14.33	17.07	2.74	569523	CAP	WRGD	3/5	7460	<0.01	0.003	0.21	
17.07	20.73	3.66	569524	CAP	WRGD	3/5	13020	<0.01	0.003	0.07	
20.73	24.38	3.65	569525	CAP	WRGD	3/5	10540	<0.01	0.005	<0.03	
24.38	27.43	3.05	569526	CAP	WRGD	3/5	12600	<0.01	0.006	0.17	
27.43	29.87	2.44	569527	CAP	WRGD	3/5	7950	<0.01	0.004	<0.03	
29.87	32.61	2.74	569528	CAP	WRGD	3/5	9120	<0.01	0.004	<0.03	
32.61	35.66	3.05	569529	CAP	WRGD	3/5	9660	<0.01	0.007	<0.03	
35.66	38.71	3.05	569530	CAP	WRGD	3/5	11600	<0.01	0.004	<0.03	
38.71	41.76	3.05	569531	CAP	WRGD	3/5	11040	<0.01	0.005	0.10	
41.76	44.81	3.05	569532	CAP	WRGD	3/5	11920	0.01	0.005	0.17	
44.81	47.85	3.04	569533	CAP	WRGD	3/5	11060	<0.01	0.006	0.10	
47.85	50.90	3.05	569534	CAP	WRGD	3/5	11600	<0.01	0.010	0.17	
50.90	53.95	3.05	569535	CAP	WRGD	3/5	11520	<0.01	0.008	0.27	
53.95	57.00	3.05	569536	CAP	WRGD	3/5	11740	0.02	0.003	0.14	
57.00	60.05	3.05	569537	CAP	WRGD	3/5	13560	0.01	0.006	0.31	
60.05	63.09	3.04	569538	CAP	WRGD	3/5	9600	0.01	0.006	0.21	
63.09	66.14	3.05	569539	CAP	WRGD	3/5	1500	0.01	0.005	0.10	
66.14	69.19	3.05	569540	CAP	WRGD	3/5	11860	0.01	0.004	0.17	
69.19	72.24	3.05	569541	CAP	WRGD	3/5	11280	0.01	0.009	0.27	
72.24	75.29	3.05	569542	CAP	WRGD	3/5	12480	0.03	0.005	0.21	
75.29	78.33	3.04	569543	CAP	WRGD	3/5	10980	0.01	0.002	0.24	
78.33	81.38	3.05	569544	CAP	WRGD	3/5	12380	0.01	0.005	0.21	
81.38	84.43	3.05	569545	CAP	WRGD	3/5	10000	0.01	0.005	0.24	
84.43	87.48	3.05	569546	CAP	WRGD	3/5	12400	0.02	0.006	0.14	
87.48	90.53	3.05	569547	CAP	WRGD	3/5	11000	0.01	0.013	0.14	
90.53	93.57	3.04	569548	CAP	WRGD	5/3	11960	0.02	0.007	0.07	
93.57	96.62	3.05	569549	CAP	WRGD	5/3	11780	0.02	0.010	0.24	
96.62	99.67	3.05	569550	CAP	WRGD	5/3	12480	0.02	0.009	0.17	
99.67	102.72	3.05	569551	CAP	WRGD	5/3	11500	0.03	0.011	0.21	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.72	105.77	3.05	569552	CAP	WRGD	5/3	11900	0.05	0.005	0.17	
105.77	108.81	3.04	569553	CAP	WRGD	5/3	11980	0.04	0.009	0.21	
108.81	111.86	3.05	569554	CAP	WRGD	5/3	12060	0.04	0.011	0.14	
111.86	114.91	3.05	569555	CAP	WRGD	5/3	12960	0.04	0.010	0.31	
114.91	117.96	3.05	569556	CAP	WRGD	5/3	13020	0.06	0.009	0.27	
117.96	121.01	3.05	569557	CAP	WRGD	5/3	11540	0.08	0.006	0.24	
121.01	124.05	3.04	569558	CAP	WRGD	5/3	12380	0.12	0.004	0.17	
124.05	127.10	3.05	569559	CAP	WRGD	5/3	13060	0.26	0.029	0.34	
127.10	130.15	3.05	569560	SUS	WRGD	5/3	12800	0.26	0.016	0.21	
130.15	133.20	3.05	569561	SUS	WRGD	6/7	11920	0.11	0.010	0.17	
133.20	136.25	3.05	569562	SUS	WRGD	3/6	13280	0.22	0.009	0.24	
136.25	139.29	3.04	569563	SUS	WRGD	3/6	13300	0.15	0.005	0.17	
139.29	142.34	3.05	569564	SUS	WRGD	6	12340	0.14	0.005	0.24	
142.34	145.39	3.05	569565	SUS	WRGD	6	12400	0.25	0.007	0.27	
145.39	148.44	3.05	569566	SUS	WRGD	6/2	13620	0.17	0.010	0.34	
148.44	151.49	3.05	569567	HYP	WRGD	6	14580	0.33	0.014	0.31	
151.49	154.53	3.04	569568	HYP	WRGD	6	13860	0.19	0.020	0.21	
154.53	157.58	3.05	569569	HYP	WRGD	7	14220	0.11	0.010	0.14	
157.58	160.32	2.74	569570	HYP	WRGD	7	10540	0.21	0.019	0.27	
160.32	163.68	3.36	569571	HYP	WRGD	6	13760	0.14	0.006	0.21	
163.68	166.73	3.05	569572	HYP	WRGD	6	13540	0.22	0.030	0.27	
166.73	169.77	3.04	569573	HYP	WRGD	6	13720	0.15	0.007	0.27	
169.77	172.82	3.05	569574	HYP	WRGD	6	13920	0.16	0.011	0.24	
172.82	175.87	3.05	569575	HYP	WRGD	6	13320	0.10	0.006	0.21	
175.87	178.92	3.05	569576	HYP	WRGD	6	13020	0.14	0.009	0.21	
178.92	181.97	3.05	569577	HYP	WRGD	6	12040	0.16	0.043	0.24	
181.97	185.01	3.04	569578	HYP	WRGD	6	14480	0.25	0.010	0.34	
185.01	188.06	3.05	569579	HYP	WRGD	6	12920	0.13	0.006	0.17	
188.06	191.11	3.05	569580	HYP	WRGD	6	13680	0.14	0.012	0.27	
191.11	194.16	3.05	569581	HYP	WRGD	6	12080	0.18	0.030	0.34	
194.16	197.21	3.05	569582	HYP	WRGD	6	13200	0.20	0.042	0.31	
197.21	200.25	3.04	569583	HYP	WRAP	6	13240	0.17	0.014	0.31	
200.25	203.30	3.05	569584	HYP	WRGD	7/5	13620	0.11	0.007	0.21	
203.30	206.35	3.05	569585	HYP	WRGD	7/5	12380	0.11	0.011	0.14	
206.35	209.40	3.05	569586	HYP	WRGD	5/7	13300	0.15	0.030	0.17	
209.40	212.45	3.05	569587	HYP	WRGD	5/7	13120	0.17	0.035	0.24	
212.45	215.49	3.04	569588	HYP	WRGD	5/7	13100	0.19	0.018	0.21	
215.49	218.54	3.05	569589	HYP	WRGD	5/7	12500	0.19	0.030	0.24	
218.54	221.59	3.05	569590	HYP	WRGD	5/7	13320	0.21	0.014	0.24	
221.59	224.64	3.05	569591	HYP	WRGD	5/7	13200	0.18	0.019	0.21	
224.64	227.69	3.05	569592	HYP	WRGD	7	12680	0.21	0.013	0.31	
227.69	230.73	3.04	569593	HYP	WRGD	7/5	13720	0.16	0.018	0.14	
230.73	233.78	3.05	569594	HYP	WRGD	7/5	12820	0.17	0.015	0.14	
233.78	236.83	3.05	569595	HYP	WRGD	7/5	12500	0.22	0.072	0.24	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	569596	HYP	WRGD	6	12650	0.16	0.042	0.17	
239.88	242.93	3.05	569597	HYP	WRGD	6	12780	0.20	0.017	0.17	
242.93	245.97	3.04	569598	HYP	PPDP	6	13480	0.11	0.008	0.14	
245.97	248.41	2.44	569599	HYP	WRGD	7	8860	0.16	0.014	0.21	
248.41	251.76	3.35	569600	HYP	WRGD	7	13060	0.18	0.011	0.34	
251.76	254.81	3.05	569601	HYP	WRGD	7	13100	0.20	0.026	0.34	
254.81	257.56	2.75	569602	HYP	WRGD	7	11060	0.21	0.025	0.38	
257.56	260.60	3.04	569603	HYP	WRGD	7	12160	0.29	0.028	0.48	
260.60	263.65	3.05	569604	HYP	WRGD	7	13420	0.30	0.031	0.48	
263.65	267.31	3.66	569605	HYP	WRGD	7	16280	0.23	0.024	0.21	
267.31	270.36	3.05	569606	HYP	WRGD	7	12540	0.18	0.032	0.27	
270.36	273.41	3.05	569607	HYP	WRGD	7	12620	0.18	0.013	0.51	
273.41	276.45	3.04	569608	HYP	WRGD	7	13340	0.16	0.014	0.24	
276.45	279.50	3.05	569609	HYP	WRGD	7	13160	0.18	0.012	0.21	
279.50	282.55	3.05	569610	HYP	WRGD	5/7	12860	0.17	0.025	0.21	
282.55	285.60	3.05	569611	HYP	WRGD	5/7	13220	0.14	0.024	0.17	
285.60	288.65	3.05	569612	HYP	WRGD	7	13440	0.12	0.022	0.17	
288.65	291.69	3.04	569613	HYP	WRGD	7	12760	0.09	0.016	0.14	
291.69	294.74	3.05	569614	HYP	WRGD	7	13160	0.12	0.021	0.21	
294.74	297.79	3.05	569615	HYP	WRGD	7	12760	0.11	0.010	0.14	
297.79	300.84	3.05	569616	HYP	WRGD	7	12940	0.16	0.027	0.17	
300.84	303.89	3.05	569617	HYP	WRGD	2	13320	0.14	0.016	0.14	
303.89	306.93	3.04	569618	HYP	WRGD	3	12380	0.20	0.044	0.27	
306.93	309.98	3.05	569619	HYP	WRGD	2	12340	0.22	0.040	0.17	
309.98	313.03	3.05	569620	HYP	PPDP	5/7	13040	0.18	0.024	0.21	
313.03	316.07	3.04	569621	HYP	PPDP	5/7	12600	0.30	0.066	0.41	
316.07	319.12	3.05	569622	HYP	MBFW	7	12560	0.18	0.014	0.21	
319.12	322.17	3.05	569623	HYP	MBFW	7	11660	0.13	0.053	0.14	
322.17	325.22	3.05	569624	HYP	MBFW	7	12100	0.15	0.102	0.14	
325.22	328.27	3.05	569625	HYP	MBFW	7	12560	0.20	0.035	0.24	
328.27	331.32	3.05	569626	HYP	WRGD	7	12940	0.15	0.011	0.27	
331.32	334.37	3.05	569627	HYP	WRGD	7	13100	0.19	0.012	0.34	
334.37	337.41	3.04	569628	HYP	WRGD	7	12540	0.22	0.019	0.34	
337.41	340.46	3.05	569629	HYP	WRGD	5/7	12982	0.12	0.030	0.14	
340.46	343.51	3.05	569630	HYP	WRGD	5/7	12520	0.14	0.097	0.17	
343.51	346.25	2.74	569631	HYP	WRGD	5/7	10960	0.18	0.024	0.21	
346.25	349.30	3.05	569632	HYP	WRGD	5/7	11750	0.21	0.043	0.34	
349.30	352.65	3.35	569633	HYP	WRGD	5/7	13480	0.21	0.030	0.17	
352.65	355.70	3.05	569634	HYP	WRGD	5/7	12500	0.19	0.034	0.24	
355.70	358.14	2.44	569635	HYP	WRGD	5/7	15600	0.14	0.011	0.21	
358.14	361.80	3.66	569636	HYP	PPDP	5/3	11200	0.19	0.065	0.17	
361.80	364.85	3.05	569637	HYP	WRGD	7/5	11700	0.17	0.021	0.24	
364.85	367.90	3.05	569638	HYP	WRGD	7/5	13300	0.18	0.031	0.21	
367.90	370.94	3.04	569639	HYP	WRGD	7/5	12700	0.15	0.039	0.21	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.38	2.44	569640	HYP	WRGD	7/5	9260	0.17	0.020	0.27	
373.38	377.04	3.66	569641	HYP	PPDP	5/7	13700	0.16	0.034	0.24	
377.04	380.09	3.05	569642	HYP	WRGD	7/5	11480	0.23	0.025	0.27	
380.09	383.13	3.04	569643	HYP	WRGD	7/5	12240	0.12	0.026	0.10	
383.13	384.96	1.83	569644	HYP	WRGD	7/5	7780	0.19	0.085	0.27	
384.96	388.01	3.05	569645	HYP	WRGD	7/5	12560	0.16	0.010	0.24	
388.01	392.28	4.27	569646	HYP	MBFW	7	18700	0.24	0.043	0.27	
392.28	395.33	3.05	569647	HYP	MBFW	7/5	11760	0.17	0.066	0.10	
395.33	398.37	3.04	569648	HYP	MBCW	7/5	12200	0.22	0.042	0.24	
398.37	401.42	3.05	569649	HYP	MBCW	7/5	11480	0.13	0.048	0.21	
401.42	404.47	3.05	569650	HYP	MBCW	7/5	12460	0.43	0.118	0.58	
404.47	407.52	3.05	569651	HYP	MBCW	7/5	13100	0.28	0.062	0.38	
407.52	410.57	3.05	569652	HYP	MBNW	7/5	13480	0.24	0.017	0.38	
410.57	413.61	3.04	569653	HYP	MBNW	7/5	12860	0.20	0.016	0.27	
413.61	416.66	3.05	569654	HYP	MBNW	7/5	12760	0.32	0.010	0.38	
416.66	419.71	3.05	569655	HYP	MBNW	7/5	12680	0.28	0.013	0.45	
419.71	422.75	3.04	569656	HYP	MBNW	7/5	12680	0.28	0.024	0.51	
422.75	425.80	3.05	569657	HYP	MBNW	7/5	13460	0.18	0.024	0.27	
425.80	428.85	3.05	569658	HYP	MBNW	7/5	11960	0.24	0.068	0.31	
428.85	431.90	3.05	569659	HYP	MBNW	7/5	12280	0.13	0.014	0.21	
431.90	434.95	3.05	569660	HYP	MBNW	7/5	12840	0.24	0.017	0.31	
434.95	438.00	3.05	569661	HYP	MBNW	7/5	14980	0.22	0.033	0.34	
438.00	441.04	3.04	569662	HYP	MBNW	7/5	12940	0.15	0.025	0.34	
441.04	444.09	3.05	569663	HYP	MBNW	7/5	13400	0.10	0.019	0.24	
444.09	447.14	3.05	569664	HYP	MBNW	7/5	14340	0.13	0.014	0.24	
447.14	450.19	3.05	569665	HYP	MBNW	7/5	14520	0.16	0.019	0.21	
450.19	453.24	3.05	569666	HYP	MBNW	7/5	13180	0.21	0.033	0.31	
453.24	456.29	3.05	569667	HYP	MBNW	7/5	12720	0.19	0.044	0.24	
456.29	459.33	3.04	569668	HYP	MBFW	7/5	12720	0.17	0.015	0.24	
459.33	462.38	3.05	569669	HYP	MBFW	7/5	12300	0.14	0.075	0.24	
462.38	465.43	3.05	569670	HYP	MBFW	7/5	13740	0.12	0.023	0.24	
465.43	468.48	3.05	569671	HYP	MBFW	7/5	12520	0.12	0.031	0.17	
468.48	471.53	3.05	569672	HYP	MBFW	7/5	12840	0.17	0.032	0.21	
471.53	474.57	3.04	569673	HYP	MBNW	7/5	13140	0.29	0.032	0.27	
474.57	477.62	3.05	569674	HYP	MBNW	7/5	13500	0.22	0.023	0.31	
477.62	480.67	3.05	569675	HYP	MBNW	7/5	13700	0.20	0.033	0.34	
480.67	483.72	3.05	569676	HYP	MBNW	7/5	12720	0.14	0.017	0.27	
483.72	486.77	3.05	569677	HYP	MBNW	7/5	13540	0.19	0.022	0.31	
486.77	489.81	3.04	569678	HYP	MBNW	7/5	13660	0.18	0.021	0.62	
489.81	492.86	3.05	569679	HYP	MBFH	7/5	13840	0.25	0.015	0.31	
492.86	495.91	3.05	569680	HYP	MBFH	7/5	13400	0.28	0.024	0.41	
495.91	498.96	3.05	569681	HYP	MBFH	7/5	14600	0.23	0.022	0.38	
498.96	502.01	3.05	569682	HYP	MBFH	7/5	13560	0.19	0.013	0.34	
502.01	505.05	3.04	569683	HYP	MBFH	7/5	12400	0.23	0.020	0.27	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
505.05	508.10	3.05	569684	HYP	MBFH	7/5	13660	0.20	0.007	0.45	
508.10	511.15	3.05	569685	HYP	MBFH	7/5	12420	0.14	0.029	0.89	
511.15	514.20	3.05	569686	HYP	MBFH	7/5	14020	0.14	0.020	0.14	
514.20	517.25	3.05	569687	HYP	PPDP	6	12760	0.08	0.013	0.21	
517.25	520.29	3.04	569688	HYP	PPDP	6	12850	0.08	0.012	0.27	
520.29	523.34	3.05	569689	HYP	PPDP	6	13700	0.21	0.007	0.45	
523.34	526.39	3.05	569690	HYP	MBFH	5/7	13140	0.24	0.011	0.14	
526.39	528.52	2.13	569691	HYP	MBFH	5/7	9520	0.25	0.006	0.27	
528.52	531.57	3.05	569692	HYP	MBFH	5/7	13300	0.24	0.015	0.31	
531.57	533.71	2.14	569693	HYP	MBFH	7/5	9080	0.23	0.011	0.34	
533.71	535.53	1.82	569694	HYP	MBFH	7/5	7840	0.30	0.012	0.27	
535.53	538.58	3.05	569695	HYP	MBFW	7/5	13960	0.32	0.017	0.41	
538.58	541.63	3.05	569696	HYP	MBFW	7/5	13880	0.21	0.014	0.17	
541.63	544.68	3.05	569697	HYP	MBFW	7/5	14060	0.18	0.012	0.24	
544.68	547.73	3.05	569698	HYP	MBFW	7/5	13180	0.19	0.010	0.24	
547.73	550.77	3.04	569699	HYP	MBFW	7/5	13660	0.12	0.011	0.10	
550.77	553.82	3.05	569700	HYP	MBFW	7/5	14440	0.19	0.009	0.10	
553.82	556.87	3.05	569701	HYP	MBFW	7/5	14140	0.18	0.009	0.10	
556.87	559.92	3.05	569702	HYP	MBFW	7/5	13040	0.16	0.013	0.14	
559.92	562.97	3.05	569703	HYP	MBFW	7/5	13340	0.11	0.009	0.03	
562.97	566.01	3.04	569704	HYP	MBFW	7/5	13160	0.14	0.014	0.10	
566.01	569.06	3.05	569705	HYP	MBFW	7/5	13760	0.15	0.011	0.07	
569.06	572.11	3.05	569706	HYP	MBFW	7/5	11060	0.12	0.064	<0.03	
572.11	575.16	3.05	569707	HYP	MBFH	7/5	13660	0.10	0.017	<0.03	
575.16	578.21	3.05	569708	HYP	MBCW	7/5	13360	0.18	0.011	0.10	
578.21	581.25	3.04	569709	HYP	MBCW	7/5	13240	0.12	0.008	0.03	
581.25	584.30	3.05	569710	HYP	MBCW	7/5	10620	0.12	0.009	0.00	
584.30	587.35	3.05	569711	HYP	MBCW	7/5	13960	0.19	0.012	0.31	
587.35	590.40	3.05	569712	HYP	MBCW	7/5	13380	0.14	0.006	0.07	
590.40	593.45	3.05	569713	HYP	MBCW	7/5	14160	0.14	0.006	0.10	
593.45	596.49	3.04	569714	HYP	MBCW	7/5	13600	0.23	0.011	0.14	
596.49	599.54	3.05	569715	HYP	MBCW	7/5	14680	0.15	0.011	0.21	
599.54	602.59	3.05	569716	HYP	MBCW	7/5	12840	0.10	0.005	<0.03	
602.59	605.64	3.05	569717	HYP	MBCW	7/5	14320	0.14	0.004	<0.03	
605.64	608.69	3.05	569718	HYP	MBCW	7/5	13700	0.24	0.010	0.21	
608.69	611.73	3.04	569719	HYP	MBCW	7/5	14450	0.16	0.010	0.31	
611.73	614.48	2.75	569720	HYP	MBCW	7/5	13660	0.14	0.005	0.07	
614.48	617.52	3.04	569721	HYP	MBCW	7/5	14780	0.10	0.005	<0.03	
617.52	620.88	3.36	569722	HYP	MBCW	7/5	14100	0.10	0.009	0.14	
620.88	623.93	3.05	569723	HYP	WRGD	7/5	13560	0.12	0.001	<0.03	
623.93	626.97	3.04	569724	HYP	WRGD	7/5	13640	0.06	<0.001	<0.03	
626.97	630.02	3.05	569725	HYP	WRGD	7/5	14060	0.07	0.002	0.14	
630.02	633.07	3.05	569726	HYP	WRGD	7/5	13620	0.06	0.002	<0.03	
633.07	636.12	3.05	569727	HYP	WRGD	7/5	13500	0.04	<0.001	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
636.12	639.17	3.05	569728	HYP	WRGD	7/5	13160	0.09	<0.001	<0.03	
639.17	642.21	3.04	569729	HYP	WRGD	7/5	14360	0.10	0.001	<0.03	
642.21	645.26	3.05	569730	HYP	WRGD	7/5	13100	0.06	0.002	<0.03	
645.26	648.31	3.05	569731	HYP	WRGD	7/5	13240	0.05	<0.001	<0.03	
648.31	651.36	3.05	569732	HYP	WRGD	7/5	12780	0.05	0.003	<0.03	
651.36	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-184	Total Depth	447.14 m
Northing	255,135.11	Casing Depth	18.3 m Left Out
Easting	111,098.95	Survey Data	Azimuth / Dip / Instrument
Elevation	1237.59 m	Collar	-90.0°
Core Size	HQ to 328.3 m; NQ to end	154.53 m	060° / -89.7° / Sperry Sun
Drilling Started	July 25, 1993	304.80 m	080° / -89.3° / Sperry Sun
Drilling Finished	August 5, 1993	447.14 m	050° / -89.3° / Sperry Sun
Logged by	P. Fischl		

Purpose/Target: This hole tested the northern margin of the deposit for mineralization encountered in adjacent holes (93-145, R-25 and R-29).

Comments: This hole intersected a weakly to moderately mineralized section of heterolithic intrusion breccia (IXAX), with smaller sections of fine-grained quartz monzonite (QMFX), fine-grained diorite (WRDR) and medium-grained granodiorite (WRGD).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	5.33	2.89	566133	CAP	QMFX	2/7	7640	0.07	0.056	0.27	
5.33	8.08	2.75	566134	CAP	QMFX	2/7	9280	0.06	0.035	<0.03	
8.08	10.67	2.59	566135	CAP	PPDP	2/7	7940	0.07	0.023	<0.03	
10.67	13.11	2.44	566136	CAP	PPDP	2/7	3860	0.20	0.042	<0.03	
13.11	15.85	2.74	566137	CAP	PPDP	2/7	7200	0.15	0.050	<0.03	
15.85	18.29	2.44	566138	CAP	PPDP	2/7	5980	0.20	0.029	0.21	
18.29	20.42	2.13	566139	CAP	PPDP	2/7	7620	0.31	0.028	0.07	
20.42	23.62	3.20	566140	CAP	PPDP	2/7	8980	0.97	0.031	0.27	
23.62	26.52	2.90	566141	CAP	PPDP	2/7	5520	0.17	0.019	0.10	
26.52	29.57	3.05	566142	CAP	PPDP	2/7	12060	0.11	0.027	0.17	
29.57	32.61	3.04	566143	CAP	PPDP	2/7	8840	0.11	0.043	0.31	
32.61	35.66	3.05	566144	CAP	PPDP	2/7	9860	0.13	0.020	0.21	
35.66	38.71	3.05	566145	CAP	PPDP	2/7	9680	0.10	0.016	0.17	
38.71	41.45	2.74	566146	CAP	IXAX	3/5	6740	0.25	0.042	0.27	
41.45	44.50	3.05	566147	CAP	IXAX	3/5	8300	0.18	0.078	0.69	
44.50	47.85	3.35	566148	CAP	IXAX	3/5	10440	0.20	0.115	0.89	
47.85	50.90	3.05	566149	SUS	IXAX	5	10660	0.35	0.038	0.48	
50.90	53.95	3.05	566150	SUS	QMFX	5	11120	0.19	0.032	0.27	
53.95	57.00	3.05	566151	SUS	QMFX	5	10100	0.18	0.063	0.27	
57.00	60.04	3.04	566152	SUS	QMFX	5	11140	0.24	0.117	0.99	
60.04	63.09	3.05	566153	SUS	QMFX	5	10340	0.36	0.172	1.27	
63.09	66.14	3.05	566154	SUS	QMFX	5	11450	0.37	0.093	0.69	
66.14	69.19	3.05	566155	SUS	QMFX	5	10650	0.17	0.102	0.48	
69.19	72.23	3.04	566156	SUS	QMFX	5	10220	0.11	0.097	0.89	
72.23	75.29	3.06	566157	SUS	PPDP	5	10240	0.19	0.043	0.14	
75.29	78.03	2.74	566158	SUS	QMFX	5	10200	0.68	0.099	0.72	
78.03	81.38	3.35	566159	SUS	WRDR	5	9480	0.42	0.034	0.34	
81.38	84.12	2.74	566160	SUS	WRDR	5	5340	1.00	0.049	0.75	
84.12	87.48	3.36	566161	SUS	WRDR	5	3740	0.58	0.050	0.51	
87.48	90.83	3.35	566162	SUS	QMFX	5	6200	0.43	0.050	0.31	
90.83	93.88	3.05	566163	SUS	IXAX	7	7200	0.50	0.046	0.45	
93.88	96.32	2.44	566164	HYP	IXAX	7	6400	1.07	0.084	0.86	
96.32	98.91	2.59	566165	HYP	PPDP	7	6000	0.90	0.067	0.96	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.91	102.41	3.50	566166	HYP	WRDR	6	11000	0.50	0.039	0.45	
102.41	104.24	1.83	566167	HYP	WRDR	6	6120	0.73	0.039	0.62	
104.24	107.29	3.05	566168	HYP	WRGD	6	9900	0.41	0.070	0.38	
107.29	110.19	2.90	566169	HYP	WRGD	6	8560	0.41	0.040	0.51	
110.19	113.08	2.89	566170	HYP	WRGD	6	9960	0.18	0.113	0.21	
113.08	114.60	1.52	566171	HYP	WRGD	6	4800	0.21	0.029	0.17	
114.60	117.04	2.44	566172	HYP	WRGD	6	6120	0.25	0.143	0.38	
117.04	120.55	3.51	566173	HYP	WRDR	7	11640	0.26	0.093	0.48	
120.55	123.29	2.74	566174	HYP	WRGD	6	6740	0.35	0.195	0.45	
123.29	126.49	3.20	566175	HYP	WRGD	6	3940	0.28	0.149	0.41	
126.49	129.54	3.05	566176	HYP	WRGD	6	7020	0.23	0.023	0.34	
129.54	131.98	2.44	566177	HYP	WRGD	6	3740	0.23	0.022	0.34	
131.98	135.03	3.05	566178	HYP	WRGD	6	11380	0.30	0.026	0.38	
135.03	138.23	3.20	566179	HYP	WRGD	6	9200	0.27	0.047	0.38	
138.23	140.51	2.28	566180	HYP	WRGD	6	7000	0.38	0.038	0.51	
140.51	141.73	1.22	566181	HYP	WRGD	6	2960	0.22	0.049	0.34	
141.73	144.78	3.05	566182	HYP	WRGD	6	4400	0.30	0.051	0.45	
144.78	147.37	2.59	566183	HYP	WRGD	6	6520	0.31	0.055	0.55	
147.37	150.27	2.90	566184	HYP	WRGD	6	6700	0.34	0.049	0.45	
150.27	153.92	3.65	566185	HYP	QMFX	5	8220	0.22	0.083	0.41	
153.92	157.28	3.36	566186	HYP	QMFX	5	9520	0.27	0.094	0.51	
157.28	160.48	3.20	566187	HYP	QMFX	5	6300	0.21	0.061	0.27	
160.48	163.68	3.20	566188	HYP	QMFX	5	8380	0.17	0.042	0.27	
163.68	165.96	2.28	566189	HYP	QMFX	5	6520	0.21	0.097	0.34	
165.96	169.47	3.51	566190	HYP	QMFX	5	10140	0.18	0.051	0.27	
169.47	172.82	3.35	566191	HYP	QMFX	5	11400	0.12	0.092	0.21	
172.82	174.96	2.14	566192	HYP	IXAX	5	6400	0.10	0.081	0.24	
174.96	176.78	1.82	566193	HYP	IXAX	5	6380	0.13	0.129	0.27	
176.78	178.92	2.14	566194	HYP	IXAX	6	7940	0.19	0.050	0.41	
178.92	182.27	3.35	566195	HYP	IXAX	7	11620	0.20	0.088	0.45	
182.27	185.17	2.90	566196	HYP	IXAX	7	7000	0.18	0.046	0.62	
185.17	188.06	2.89	566197	HYP	WRGD	5	13580	0.28	0.166	0.48	
188.06	191.11	3.05	566198	HYP	WRGD	5	13320	0.26	0.108	0.58	
191.11	194.16	3.05	566199	HYP	WRGD	7	13300	0.10	0.054	0.21	
194.16	197.21	3.05	566200	HYP	PPDP	7	13140	0.06	0.009	0.14	
197.21	200.25	3.04	566201	HYP	PPDP	7	12420	0.11	0.009	0.14	
200.25	203.30	3.05	566202	HYP	PPDP	7	14000	0.05	0.005	0.07	
203.30	206.35	3.05	566203	HYP	PPDP	7	11860	0.08	0.012	0.10	
206.35	209.40	3.05	566204	HYP	PPDP	7	15480	0.07	0.010	0.14	
209.40	212.45	3.05	566205	HYP	PPDP	7	12700	0.07	0.016	0.10	
212.45	215.49	3.04	566206	HYP	IXAX	7	13020	0.13	0.055	0.27	
215.49	218.54	3.05	566207	HYP	IXAX	7	13120	0.15	0.060	0.21	
218.54	221.59	3.05	566208	HYP	IXAX	7	13100	0.11	0.094	0.17	
221.59	224.64	3.05	566209	HYP	IXAX	7	12980	0.11	0.093	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
224.64	227.69	3.05	566210	HYP	IXAX	7	12960	0.11	0.166	0.21	
227.69	230.73	3.04	566211	HYP	IXAX	7	11860	0.22	0.070	0.48	
230.73	233.78	3.05	566212	HYP	IXAX	7	12940	0.20	0.095	0.45	
233.78	236.83	3.05	566213	HYP	IXAX	7	13560	0.23	0.119	0.45	
236.83	239.88	3.05	566214	HYP	WRDR	7	13240	0.34	0.078	0.51	
239.88	242.93	3.05	566215	HYP	WRDR	7	13060	0.24	0.035	0.41	
242.93	245.97	3.04	566216	HYP	IXAX	7	12860	0.27	0.066	0.34	
245.97	249.02	3.05	566217	HYP	IXAX	7	13360	0.16	0.100	0.34	
249.02	252.07	3.05	566218	HYP	IXAX	7	13700	0.17	0.083	0.41	
252.07	255.12	3.05	566219	HYP	IXAX	7	13500	0.09	0.163	0.17	
255.12	258.17	3.05	566220	HYP	IXAX	7	13800	0.09	0.120	0.24	
258.17	261.21	3.04	566221	HYP	IXAX	7	13240	0.13	0.081	0.21	
261.21	264.26	3.05	566222	HYP	IXAX	7	13460	0.12	0.052	0.27	
264.26	267.31	3.05	566223	HYP	IXAX	7	13360	0.08	0.063	0.21	
267.31	270.36	3.05	566224	HYP	IXAX	7	12620	0.11	0.086	0.24	
270.36	273.41	3.05	566225	HYP	IXAX	7	12360	0.11	0.062	0.21	
273.41	276.45	3.04	566226	HYP	IXAX	7	13180	0.16	0.050	0.27	
276.45	279.50	3.05	566227	HYP	IXAX	7	13040	0.22	0.059	0.34	
279.50	282.55	3.05	566228	HYP	IXAX	7	14180	0.13	0.048	0.17	
282.55	285.60	3.05	566229	HYP	IXAX	6	12620	0.13	0.081	0.27	
285.60	288.65	3.05	566230	HYP	IXAX	5	13500	0.11	0.111	0.24	
288.65	291.69	3.04	566231	HYP	IXAX	7	13520	0.11	0.042	0.24	
291.69	294.74	3.05	566232	HYP	IXAX	7	12350	0.14	0.137	0.24	
294.74	297.79	3.05	566233	HYP	IXAX	7	13560	0.10	0.092	0.21	
297.79	300.84	3.05	566234	HYP	IXAX	7	13100	0.12	0.084	0.21	
300.84	303.89	3.05	566235	HYP	QMFX	7	12940	0.11	0.052	0.17	
303.89	306.93	3.04	566236	HYP	IXAX	7	11760	0.11	0.133	0.24	
306.93	309.98	3.05	566237	HYP	IXAX	6/7	13100	0.17	0.072	0.24	
309.98	313.03	3.05	566238	HYP	IXAX	6/7	13300	0.11	0.075	0.21	
313.03	316.08	3.05	566239	HYP	IXAX	6/7	12960	0.14	0.030	0.27	
316.08	319.13	3.05	566240	HYP	IXAX	6/7	12080	0.14	0.073	0.31	
319.13	322.17	3.04	566241	HYP	IXAX	6/7	10890	0.12	0.076	0.27	
322.17	325.22	3.05	566242	HYP	IXAX	6/7	10560	0.09	0.136	0.14	
325.22	328.27	3.05	566243	HYP	IXAX	6/7	15680	0.10	0.093	0.21	
328.27	331.32	3.05	566244	HYP	IXAX	3	6240	0.10	0.106	0.24	
331.32	334.37	3.05	566245	HYP	IXAX	3	6540	0.07	0.089	0.21	
334.37	337.41	3.04	566246	HYP	IXAX	7	7320	0.10	0.111	0.17	
337.41	340.46	3.05	566247	HYP	IXAX	7	7480	0.10	0.173	0.24	
340.46	343.51	3.05	566248	HYP	IXAX	7	7020	0.08	0.202	0.21	
343.51	346.56	3.05	566249	HYP	IXAX	7	7040	0.13	0.081	0.21	
346.56	349.61	3.05	566250	HYP	IXAX	7	7640	0.11	0.094	0.17	
349.61	352.65	3.04	566251	HYP	IXAX	7	7080	0.12	0.103	0.27	
352.65	355.70	3.05	566252	HYP	IXAX	7	7420	0.19	0.055	0.27	
355.70	358.75	3.05	566253	HYP	IXAX	7	7380	0.08	0.085	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
358.75	361.80	3.05	566254	HYP	IXAX	7	7760	0.10	0.087	0.17	
361.80	364.85	3.05	566255	HYP	IXAX	7	7660	0.11	0.060	0.34	
364.85	367.89	3.04	566256	HYP	IXAX	7	7420	0.06	0.163	0.07	
367.89	370.94	3.05	566257	HYP	IXAX	7	7040	0.09	0.120	0.17	
370.94	373.99	3.05	566258	HYP	IXAX	7	7100	0.08	0.071	0.24	
373.99	377.04	3.05	566259	HYP	PPDP	7	8080	0.11	0.036	0.21	
377.04	380.09	3.05	566260	HYP	PPDP	7	7260	0.03	0.028	0.07	
380.09	383.13	3.04	566261	HYP	IXAX	7	7240	0.08	0.046	0.21	
383.13	386.18	3.05	566262	HYP	IXAX	7	7880	0.08	0.049	0.14	
386.18	389.23	3.05	566263	HYP	IXAX	7	7540	0.09	0.107	0.17	
389.23	392.28	3.05	566264	HYP	IXAX	7	7800	0.07	0.100	0.14	
392.28	395.33	3.05	566265	HYP	IXAX	7	6900	0.05	0.116	0.07	
395.33	398.37	3.04	566266	HYP	IXAX	7	7460	0.08	0.086	0.21	
398.37	401.42	3.05	566267	HYP	IXAX	7	7120	0.13	0.066	0.21	
401.42	404.47	3.05	566268	HYP	IXAX	7	6900	0.13	0.120	0.34	
404.47	407.52	3.05	566269	HYP	IXAX	7	7080	0.09	0.057	0.17	
407.52	410.57	3.05	566270	HYP	IXAX	7	7220	0.06	0.022	0.10	
410.57	413.61	3.04	566271	HYP	IXAX	7	7500	0.07	0.090	0.14	
413.61	416.66	3.05	566272	HYP	IXAX	7	7420	0.05	0.112	0.10	
416.66	419.71	3.05	566273	HYP	IXAX	7	7240	0.07	0.041	0.14	
419.71	422.76	3.05	566274	HYP	IXAX	7	7460	0.07	0.038	0.14	
422.76	425.81	3.05	566275	HYP	IXAX	7	7420	0.06	0.061	0.07	
425.81	428.85	3.04	566276	HYP	IXAX	7	7740	0.06	0.046	0.07	
428.85	431.90	3.05	566277	HYP	IXAX	7	7640	0.07	0.033	0.14	
431.90	434.95	3.05	566278	HYP	IXAX	7	7140	0.08	0.028	0.10	
434.95	438.00	3.05	566279	HYP	IXAX	7	7240	0.06	0.019	0.07	
438.00	441.05	3.05	566280	HYP	IXAX	7	7160	0.06	0.043	0.07	
441.05	444.10	3.05	566281	HYP	IXAX	7	7340	0.08	0.032	0.10	
444.10	447.14	3.04	566282	HYP	IXAX	7	7580	0.04	0.024	0.07	
447.14	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-185	Total Depth	810.77 m		
Northing	254,802.61	Casing Depth	10.67 m		Left Out
Easting	111,362.67	Survey Data	Azimuth	Dip	Instrument
Elevation	1261.12 m	Collar			
Core Size	HQ to 338.63 m; NQ to end	152.4 m	247°	-88.5°	Sperry Sun
Drilling Started	July 26, 1993	304.8 m	200°	-89.0°	Sperry Sun
Drilling Finished	August 13, 1993	457.2 m	228°	-88.0°	Sperry Sun
Logged by	M. Dittrick	807.7 m	312°	-88.0°	Sperry Sun

Purpose/Target: Redrill 93-181 (hole aborted at 185.9 m due to stuck rods) - drill moved 3 m and redrill (93-185).

Comments: Collared in supergene oxide.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	9.14	9.14		OVB							
9.14	12.19	3.05	575081	SOX	MBFH	4	8320	0.01	0.073	0.21	
12.19	15.24	3.05	575082	SOX	MBFH	4	11980	<0.01	0.106	0.14	
15.24	18.29	3.05	575083	SOX	MBFH	4	10360	<0.01	0.090	0.03	
18.29	21.34	3.05	575084	SOX	MBFH	4	10400	<0.01	0.062	0.03	
21.34	24.38	3.04	575085	SOX	MBFH	4	9320	<0.01	0.027	0.07	
24.38	27.43	3.05	575086	SOX	MBFH	4	6360	<0.01	0.027	0.03	
27.43	30.48	3.05	575087	SOX	MBFH	4	4900	<0.01	0.018	0.14	
30.48	33.53	3.05	575088	SOX	MBFH	4	3900	<0.01	0.009	0.03	
33.53	36.58	3.05	575089	SOX	MBFH	4	7420	<0.01	0.021	0.03	
36.58	39.62	3.04	575090	SOX	MBFH	4	8720	<0.01	0.055	0.14	
39.62	42.67	3.05	575091	SOX	MBFH	4	1880	<0.01	0.096	0.51	
42.67	45.72	3.05	575092	SOX	MBFH	4	6840	<0.01	0.064	0.07	
45.72	48.77	3.05	575093	SOX	MBFH	4	7860	<0.01	0.105	0.17	
48.77	51.82	3.05	575094	SOX	MBFH	4	10140	<0.01	0.138	0.07	
51.82	54.86	3.04	575095	SOX	MBFH	4	11440	<0.01	0.116	0.21	
54.86	57.91	3.05	575096	SOX	MBFH	4	11280	<0.01	0.095	0.17	
57.91	60.96	3.05	575097	SOX	MBFH	4	10120	0.01	0.086	0.21	
60.96	64.01	3.05	575098	SOX	MBFH	4	9740	0.01	0.135	0.14	
64.01	66.75	2.74	575099	SOX	MBFH	4	8420	0.01	0.183	0.14	
66.75	69.80	3.05	575100	SOX	MBFH	4	10920	0.02	0.170	0.10	
69.80	73.00	3.20	575101	SOX	MBFH	4	11420	0.03	0.133	0.14	
73.00	76.05	3.05	575102	SOX	MBFH	4	11240	0.01	0.105	0.17	
76.05	79.25	3.20	575103	SOX	MBFH	4	10240	<0.01	0.078	0.10	
79.25	82.30	3.05	575104	SOX	MBFH	4	10260	0.01	0.085	0.48	
82.30	85.34	3.04	575105	SOX	MBFH	4	10620	0.01	0.073	0.17	
85.34	88.39	3.05	575106	SOX	MBFH	4	10920	0.01	0.106	0.51	
88.39	91.44	3.05	575107	SOX	MBFH	4	9920	0.02	0.212	0.72	
91.44	94.49	3.05	575108	SOX	MBFH	4	10600	0.01	0.107	0.21	
94.49	97.23	2.74	575109	SOX	MBFH	4	8840	0.10	0.118	0.31	
97.23	100.58	3.35	575110	SUS	MBFH	4	12000	0.87	0.109	0.62	
100.58	103.63	3.05	575111	SUS	MBFH	4	10900	0.36	0.057	0.27	
103.63	106.68	3.05	575112	SUS	MBFH	4	13120	0.52	0.055	0.62	
106.68	109.73	3.05	575113	SUS	MBFH	4	10840	0.39	0.117	0.21	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
109.73	112.78	3.05	575114	SUS	MBFH	4	12240	0.25	0.117	0.14	
112.78	115.82	3.04	575115	SUS	MBFH	4	11000	0.13	0.107	0.10	
115.82	118.87	3.05	575116	SUS	MBFH	4	11660	0.18	0.183	0.14	
118.87	121.92	3.05	575117	SUS	MBFH	4	8440	0.33	0.165	0.17	
121.92	124.97	3.05	575118	SUS	MBFH	4	13240	0.42	0.311	0.31	
124.97	128.01	3.04	575119	SUS	MBFH	4	12940	1.16	0.169	0.72	
128.01	131.06	3.05	575120	SUS	MBFH	4	10720	0.74	0.394	0.62	
131.06	134.11	3.05	575121	SUS	MBFH	4	10900	1.43	0.513	1.61	
134.11	137.16	3.05	575122	SUS	MBFH	4	9720	1.01	1.110	0.79	
137.16	140.21	3.05	575123	SUS	MBFH	4	10220	0.98	0.053	0.69	
140.21	143.26	3.05	575124	SUS	MBFH	4	11840	1.02	0.571	0.69	
143.26	146.30	3.04	575125	SUS	MBFH	4	12020	1.13	0.332	1.03	
146.30	149.35	3.05	575126	SUS	MBFH	4	11550	1.39	0.827	5.11	
149.35	152.09	2.74	575127	SUS	MBFH	4	9100	1.22	1.140	2.67	
152.09	155.14	3.05	575128	SUS	MBFH	4	11800	0.93	0.740	1.61	
155.14	158.50	3.36	575129	SUS	MBFH	4	11260	1.41	0.480	1.82	
158.50	161.54	3.04	575130	SUS	MBFH	4	11750	1.80	0.741	1.95	
161.54	164.59	3.05	575131	SUS	MBFH	4	11460	1.52	0.920	18.79	
164.59	167.64	3.05	575132	SUS	MBFH	4	10700	0.49	0.820	2.78	
167.64	170.69	3.05	575133	SUS	MBFH	4	19720	1.44	1.060	3.09	
170.69	173.74	3.05	575134	SUS	MBFH	4	12000	1.54	0.753	1.30	
173.74	176.78	3.04	575135	SUS	MBFH	4	8540	0.33	0.862	0.48	
176.78	179.83	3.05	575136	SUS	MBFH	4	6420	0.15	0.494	0.17	
179.83	182.88	3.05	575137	SUS	MBFH	4	10760	0.76	0.591	0.48	
182.88	185.93	3.05	575138	SUS	MBFH	4	9620	0.76	0.411	0.24	
185.93	188.98	3.05	575139	SUS	LTXD	4	10840	0.17	0.540	0.07	
188.98	191.72	2.74	575140	SUS	LTXD	4	9180	0.54	0.534	0.24	
191.72	194.77	3.05	575141	SUS	LTXD	4	12240	0.31	0.632	0.27	
194.77	197.82	3.05	575142	SUS	LTXD	4	13000	0.15	0.350	0.10	
197.82	201.02	3.20	575143	SUS	LTXD	4	12620	0.26	0.265	0.17	
201.02	204.22	3.20	575144	SUS	LTXD	4	12640	0.25	0.481	0.31	
204.22	207.26	3.04	575145	SUS	LTXD	4	12820	0.40	0.728	0.24	
207.26	210.31	3.05	575146	SUS	LTXD	4	11240	0.65	0.590	0.65	
210.31	213.36	3.05	575147	SUS	WRGD	4	13080	0.73	0.156	0.41	
213.36	216.41	3.05	575148	SUS	WRGD	4	13800	1.00	0.100	0.55	
216.41	219.46	3.05	575149	HYP	WRGD	4	13100	1.01	0.085	1.41	
219.46	222.50	3.04	575150	HYP	WRGD	4	12960	0.66	0.054	0.75	
222.50	225.55	3.05	575151	HYP	WRGD	4	13180	0.43	0.023	0.58	
225.55	228.60	3.05	575152	HYP	WRGD	7	13200	0.21	0.008	0.38	
228.60	231.65	3.05	575153	HYP	WRGD	7	12060	0.22	0.007	0.38	
231.65	234.70	3.05	575154	HYP	WRGD	7	12680	0.23	0.004	0.24	
234.70	237.74	3.04	575155	HYP	WRGD	7/4	10020	0.22	0.004	0.31	
237.74	240.79	3.05	575156	HYP	WRGD	4/7	11660	1.82	0.008	2.40	
240.79	243.84	3.05	575157	HYP	WRGD	4/7	14620	0.41	0.010	0.51	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
243.84	246.89	3.05	575158	HYP	WRGD	4/7	12740	0.23	0.004	0.45	
246.89	249.94	3.05	575159	HYP	WRGD	7/4	12560	0.23	0.019	0.31	
249.94	252.98	3.04	575160	HYP	WRGD	7/4	13060	0.35	0.008	0.69	
252.98	256.03	3.05	575161	HYP	WRGD	7/4	12900	0.30	0.010	0.48	
256.03	259.08	3.05	575162	HYP	WRGD	6	13260	0.35	0.008	0.45	
259.08	262.13	3.05	575163	HYP	WRGD	6	12500	0.31	0.005	0.41	
262.13	265.18	3.05	575164	HYP	WRGD	4/7	12420	0.27	0.015	0.34	
265.18	268.22	3.04	575165	HYP	WRGD	7/4	11500	0.22	0.004	0.31	
268.22	271.27	3.05	575166	HYP	WRGD	7	12360	0.22	0.004	0.45	
271.27	274.32	3.05	575167	HYP	WRGD	4/7	12320	0.27	0.038	0.45	
274.32	277.37	3.05	575168	HYP	WRGD	4/7	12300	0.29	0.017	0.34	
277.37	280.42	3.05	575169	HYP	WRGD	4/7	11900	0.10	0.013	0.17	
280.42	283.46	3.04	575170	HYP	WRGD	4/7	11420	0.19	0.005	0.24	
283.46	286.51	3.05	575171	HYP	WRGD	4/7	11720	0.29	0.015	0.41	
286.51	289.56	3.05	575172	HYP	WRGD	4	13160	0.21	0.010	0.31	
289.56	292.61	3.05	575173	HYP	WRGD	4	12200	0.64	0.022	0.72	
292.61	295.66	3.05	575174	HYP	WRGD	4	13260	0.17	0.019	0.27	
295.66	298.70	3.04	575175	HYP	WRGD	4	12600	0.30	0.030	0.31	
298.70	301.75	3.05	575176	HYP	WRGD	4	11020	0.24	0.007	0.27	
301.75	304.80	3.05	575177	HYP	WRGD	4	12760	0.30	0.009	0.34	
304.80	307.85	3.05	575178	HYP	WRGD	4	13000	0.32	0.015	0.31	
307.85	310.90	3.05	575179	HYP	WRGD	4	12960	0.27	0.015	0.27	
310.90	313.94	3.04	575180	HYP	WRGD	4/7	12700	0.31	0.015	0.31	
313.94	316.99	3.05	575181	HYP	WRGD	7/4	12100	0.21	0.007	0.31	
316.99	320.04	3.05	575182	HYP	WRGD	6	11000	0.12	0.005	0.38	
320.04	323.09	3.05	575183	HYP	WRGD	6	12760	0.28	0.042	0.34	
323.09	326.14	3.05	575184	HYP	WRGD	7	11160	0.32	0.035	0.45	
326.14	329.18	3.04	575185	HYP	WRGD	7/6	11600	0.14	0.009	0.14	
329.18	332.23	3.05	575186	HYP	WRGD	4/7	13360	0.17	0.012	0.17	
332.23	335.28	3.05	575187	HYP	WRGD	7/6	12600	0.22	0.010	0.14	
335.28	338.63	3.35	575188	HYP	WRGD	6/7	12520	0.42	0.013	0.38	
338.63	341.38	2.75	575189	HYP	WRGD	6/7	5600	0.24	0.015	0.21	
341.38	344.42	3.04	575190	HYP	WRGD	7/6	6740	0.30	0.010	0.24	
344.42	347.47	3.05	575191	HYP	WRGD	7/6	7160	0.43	0.023	0.31	
347.47	350.52	3.05	575192	HYP	WRGD	7/6	6340	0.25	0.010	0.31	
350.52	353.57	3.05	575193	HYP	WRGD	7/4	6640	0.26	0.005	0.24	
353.57	356.62	3.05	575194	HYP	WRGD	7/4	6500	0.19	0.015	0.24	
356.62	359.66	3.04	575195	HYP	WRGD	7/4	7200	0.24	0.011	0.17	
359.66	362.71	3.05	575196	HYP	WRGD	7/4	6840	0.27	0.022	0.27	
362.71	365.76	3.05	575197	HYP	WRGD	7/4	6760	0.16	0.005	0.14	
365.76	368.81	3.05	575198	HYP	WRGD	7	6800	0.29	0.006	0.55	
368.81	371.86	3.05	575199	HYP	WRGD	7	7660	0.23	0.010	0.24	
371.86	374.90	3.04	575200	HYP	WRGD	7	6740	0.17	0.006	0.17	
374.90	377.95	3.05	575201	HYP	WRGD	7/3	6900	0.30	0.026	0.31	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.95	381.00	3.05	575202	HYP	WRGD	7/3	6700	0.18	0.008	0.17	
381.00	384.05	3.05	575203	HYP	WRGD	7/3	6740	0.19	0.007	0.21	
384.05	387.10	3.05	575204	HYP	WRGD	3/7	7000	0.22	0.013	0.14	
387.10	390.14	3.04	575205	HYP	WRGD	3/7	7020	0.19	0.019	0.17	
390.14	393.19	3.05	575206	HYP	WRGD	3/7	6700	0.32	0.011	0.27	
393.19	396.24	3.05	575207	HYP	WRGD	3/7	7460	0.43	0.010	0.34	
396.24	399.29	3.05	575208	HYP	WRGD	3/7	6300	0.37	0.019	0.31	
399.29	402.34	3.05	575209	HYP	WRGD	3/7	6920	0.67	0.045	0.55	
402.34	405.38	3.04	575210	HYP	WRGD	3/7	5900	0.47	0.008	0.48	
405.38	408.43	3.05	575211	HYP	WRGD	3/7	5700	0.52	0.015	0.41	
408.43	411.48	3.05	575212	HYP	WRGD	3/7	6530	0.19	0.011	0.21	
411.48	414.53	3.05	575213	HYP	WRGD	7/3	5460	0.41	0.016	0.34	
414.53	417.58	3.05	575214	HYP	WRGD	7	7260	0.26	0.015	0.41	
417.58	420.62	3.04	575215	HYP	WRGD	7	6700	0.20	0.008	0.27	
420.62	423.67	3.05	575216	HYP	WRGD	7	6760	0.26	0.007	0.21	
423.67	426.72	3.05	575217	HYP	WRGD	7	6500	0.24	0.004	0.27	
426.72	429.77	3.05	575218	HYP	WRGD	7	6900	0.44	0.011	0.38	
429.77	432.82	3.05	575219	HYP	WRGD	7	6440	0.22	0.015	0.21	
432.82	435.86	3.04	575220	HYP	WRGD	7	7060	0.25	0.006	0.31	
435.86	438.91	3.05	575221	HYP	WRGD	7	7080	0.25	0.010	0.31	
438.91	441.96	3.05	575222	HYP	WRGD	7	6780	0.22	0.015	0.24	
441.96	445.01	3.05	575223	HYP	WRGD	7	6300	0.17	0.016	0.14	
445.01	448.06	3.05	575224	HYP	WRGD	7	6460	0.18	0.007	0.10	
448.06	451.10	3.04	575225	HYP	WRGD	7	6780	0.17	0.005	0.21	
451.10	454.15	3.05	575226	HYP	WRGD	7	7260	0.25	0.003	0.31	
454.15	457.20	3.05	575227	HYP	WRGD	7	7080	0.09	0.004	0.14	
457.20	460.25	3.05	575228	HYP	WRGD	7	7120	0.11	0.006	0.24	
460.25	463.30	3.05	575229	HYP	WRGD	7	7100	0.11	0.002	0.14	
463.30	466.35	3.05	575230	HYP	WRGD	7	6560	0.23	0.012	0.34	
466.35	469.39	3.04	575231	HYP	WRGD	7	6350	0.30	0.008	0.45	
469.39	472.44	3.05	575232	HYP	WRGD	7	6160	0.23	0.010	0.21	
472.44	475.49	3.05	575233	HYP	WRGD	7/6	6800	0.20	0.030	0.24	
475.49	478.54	3.05	575234	HYP	WRGD	7/6	6700	0.12	0.003	0.24	
478.54	481.58	3.04	575235	HYP	WRGD	7	7000	0.19	0.003	0.27	
481.58	484.63	3.05	575236	HYP	WRGD	7	6880	0.35	0.014	0.27	
484.63	487.68	3.05	575237	HYP	WRGD	7	6360	0.22	0.006	0.17	
487.68	490.73	3.05	575238	HYP	WRGD	7	6620	0.16	0.012	0.17	
490.73	493.78	3.05	575239	HYP	WRGD	7	6660	0.18	0.021	0.21	
493.78	496.82	3.04	575240	HYP	WRGD	7	6740	0.20	0.007	0.14	
496.82	499.87	3.05	575241	HYP	WRGD	7	6720	0.22	0.046	0.17	
499.87	502.92	3.05	575242	HYP	WRGD	7	6220	0.34	0.020	0.27	
502.92	505.97	3.05	575243	HYP	WRGD	7	6140	0.37	0.022	0.38	
505.97	509.02	3.05	575244	HYP	WRGD	7	6940	0.44	0.015	0.38	
509.02	512.06	3.04	575245	HYP	WRGD	7	7340	0.35	0.011	0.21	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
512.06	515.11	3.05	575246	HYP	WRGD	7	6560	0.37	0.017	0.34	
515.11	518.16	3.05	575247	HYP	WRGD	7	6480	0.39	0.026	0.31	
518.16	521.21	3.05	575248	HYP	WRGD	7	6800	0.27	0.009	0.17	
521.21	524.26	3.05	575249	HYP	WRGD	7	6540	0.30	0.024	0.24	
524.26	527.30	3.04	575250	HYP	WRGD	7	6060	0.27	0.008	0.34	
527.30	530.35	3.05	575251	HYP	WRGD	7	5540	0.24	0.012	0.38	
530.35	533.40	3.05	575252	HYP	WRGD	7	6520	0.32	0.030	0.55	
533.40	536.45	3.05	575253	HYP	WRGD	7	6780	0.21	0.006	0.24	
536.45	539.50	3.05	575254	HYP	WRGD	7	6520	0.21	0.021	0.17	
539.50	542.54	3.04	575255	HYP	WRGD	7	7120	0.23	0.023	0.24	
542.54	545.59	3.05	575256	HYP	WRGD	7	6760	0.25	0.007	0.27	
545.59	548.64	3.05	575257	HYP	WRGD	7	6620	0.25	0.008	0.24	
548.64	551.69	3.05	575258	HYP	WRGD	7	7060	0.37	0.020	0.31	
551.69	554.74	3.05	575259	HYP	WRGD	7	6620	0.24	0.016	0.34	
554.74	557.78	3.04	575260	HYP	WRGD	7	7080	0.19	0.013	0.17	
557.78	560.83	3.05	575261	HYP	WRGD	7	6700	0.40	0.012	0.51	
560.83	563.88	3.05	575262	HYP	WRGD	7	6660	0.38	0.006	0.38	
563.88	566.93	3.05	575263	HYP	WRGD	7	7120	0.42	0.010	0.34	
566.93	569.98	3.05	575264	HYP	WRGD	7	6620	0.27	0.022	0.21	
569.98	573.02	3.04	575265	HYP	WRGD	7	7020	0.41	0.012	0.51	
573.02	576.07	3.05	575266	HYP	WRGD	7	7260	0.24	0.016	0.24	
576.07	579.12	3.05	575267	HYP	WRGD	7	6900	0.38	0.012	0.31	
579.12	582.17	3.05	575268	HYP	WRGD	7	6940	0.48	0.014	0.41	
582.17	585.22	3.05	575269	HYP	WRGD	7	6920	0.33	0.015	0.24	
585.22	588.26	3.04	575270	HYP	WRGD	7	5620	0.30	0.043	0.31	
588.26	591.31	3.05	575271	HYP	WRGD	7	8120	0.36	0.016	0.31	
591.31	594.36	3.05	575272	HYP	WRGD	7	7080	0.24	0.007	0.17	
594.36	597.41	3.05	575273	HYP	WRGD	7	6220	0.26	0.008	0.27	
597.41	600.46	3.05	575274	HYP	WRGD	7	7700	0.34	0.010	0.24	
600.46	603.50	3.04	575275	HYP	WRGD	7	7180	0.24	0.010	0.31	
603.50	606.55	3.05	575276	HYP	WRGD	7	7400	0.31	0.004	0.41	
606.55	609.60	3.05	575277	HYP	WRGD	7	6900	0.23	0.006	0.21	
609.60	612.65	3.05	575278	HYP	WRGD	7	6680	0.19	0.007	0.14	
612.65	615.70	3.05	575279	HYP	WRGD	7	6860	0.32	0.004	0.38	
615.70	618.74	3.04	575280	HYP	WRGD	7	7200	0.22	0.007	0.17	
618.74	621.79	3.05	575281	HYP	WRGD	7	7160	0.18	0.004	0.14	
621.79	624.84	3.05	575282	HYP	WRGD	7	6900	0.24	0.007	0.27	
624.84	627.89	3.05	575283	HYP	WRGD	7	7180	0.34	0.008	0.38	
627.89	630.94	3.05	575284	HYP	WRGD	7	6820	0.25	0.007	0.45	
630.94	633.98	3.04	575285	HYP	WRGD	7/6	7000	0.23	0.008	0.24	
633.98	637.03	3.05	575286	HYP	WRGD	6	6900	0.27	0.012	0.31	
637.03	640.08	3.05	575287	HYP	WRGD	6	7320	0.29	0.026	0.24	
640.08	643.13	3.05	575288	HYP	WRGD	6/7	7060	0.32	0.005	0.17	
643.13	646.18	3.05	575289	HYP	F/ZN	6/7	5540	0.36	0.015	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
646.18	649.22	3.04	575290	HYP	F/ZN	6/7	5900	0.14	0.008	0.14	
649.22	652.27	3.05	575291	HYP	F/ZN	6/7	6400	0.29	0.007	0.14	
652.27	655.32	3.05	575292	HYP	F/ZN	7/6	7100	0.21	0.015	0.10	
655.32	658.37	3.05	575293	HYP	F/ZN	7	6660	0.16	0.005	0.10	
658.37	661.42	3.05	575294	HYP	F/ZN	7	6460	0.18	0.010	0.17	
661.42	664.46	3.04	575295	HYP	F/ZN	5/7	6680	0.15	0.008	0.07	
664.46	667.51	3.05	575296	HYP	F/ZN	5/7	6660	0.23	0.017	0.21	
667.51	670.56	3.05	575297	HYP	F/ZN	5/7	5540	0.21	0.017	0.14	
670.56	673.61	3.05	575298	HYP	WRGD	5/7	7560	0.28	0.008	0.17	
673.61	676.66	3.05	575299	HYP	WRGD	5/7	6450	0.28	0.011	0.31	
676.66	679.70	3.04	575300	HYP	WRGD	5/7	6750	0.20	0.015	0.21	
679.70	682.75	3.05	575301	HYP	WRGD	7	7200	0.18	0.004	0.17	
682.75	685.80	3.05	575302	HYP	WRGD	7	7120	0.19	0.007	0.21	
685.80	688.85	3.05	575303	HYP	WRGD	7	7350	0.16	0.005	0.14	
688.85	691.90	3.05	575304	HYP	WRGD	7	6780	0.17	0.006	0.14	
691.90	694.94	3.04	575305	HYP	WRGD	7	7100	0.28	0.010	0.34	
694.94	697.99	3.05	575306	HYP	WRGD	7	6980	0.25	0.007	0.27	
697.99	701.04	3.05	575307	HYP	WRGD	7	7100	0.17	0.005	0.14	
701.04	704.09	3.05	575308	HYP	WRGD	7	7250	0.10	0.006	0.10	
704.09	707.14	3.05	575309	HYP	WRGD	7	6840	0.22	0.007	0.41	
707.14	710.18	3.04	575310	HYP	WRGD	7	7040	0.29	0.033	0.48	
710.18	713.23	3.05	575311	HYP	WRGD	7	6820	0.17	0.006	0.14	
713.23	716.28	3.05	575312	HYP	WRGD	7	6880	0.17	0.009	0.14	
716.28	719.33	3.05	575313	HYP	WRGD	7	6760	0.36	0.006	0.41	
719.33	722.38	3.05	575314	HYP	WRGD	7	7000	0.16	0.004	0.21	
722.38	725.42	3.04	575315	HYP	WRGD	7	6360	0.25	0.004	0.24	
725.42	728.47	3.05	575316	HYP	WRGD	7	6840	0.23	0.003	0.10	
728.47	731.52	3.05	575317	HYP	WRGD	7	6380	0.18	0.003	0.66	
731.52	734.57	3.05	575318	HYP	WRGD	7	6960	0.29	0.011	0.45	
734.57	737.62	3.05	575319	HYP	WRGD	7	7280	0.23	0.004	0.21	
737.62	740.66	3.04	575320	HYP	WRGD	7	7000	0.14	0.010	0.24	
740.66	743.71	3.05	575321	HYP	WRAP	7	6980	0.13	0.008	0.10	
743.71	746.76	3.05	575322	HYP	WRAP	7	7160	0.28	0.012	0.31	
746.76	749.81	3.05	575323	HYP	WRGD	7	7020	0.15	0.006	0.48	
749.81	752.86	3.05	575324	HYP	WRGD	7	6600	0.32	0.008	0.45	
752.86	755.90	3.04	575325	HYP	WRGD	7	7000	0.23	0.008	0.27	
755.90	758.95	3.05	575326	HYP	WRGD	7	6860	0.13	0.008	0.10	
758.95	762.00	3.05	575327	HYP	WRGD	7	6400	0.23	0.016	0.17	
762.00	765.05	3.05	575328	HYP	WRGD	7	7120	0.18	0.008	0.21	
765.05	768.10	3.05	575329	HYP	WRGD	7	6640	0.13	0.005	0.17	
768.10	771.14	3.04	575330	HYP	WRGD	7	6940	0.14	0.010	0.14	
771.14	774.19	3.05	575331	HYP	WRGD	7	7060	0.12	0.019	0.17	
774.19	777.24	3.05	575332	HYP	WRGD	7	6780	0.14	0.004	0.21	
777.24	780.29	3.05	575333	HYP	WRGD	7	7060	0.06	0.004	0.10	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
780.29	783.34	3.05	575334	HYP	WRGD	7	7300	0.09	0.005	0.10	
783.34	786.38	3.04	575335	HYP	WRGD	7	6960	0.10	0.008	0.14	
786.38	789.43	3.05	575336	HYP	WRGD	7	7180	0.26	0.008	0.17	
789.43	792.48	3.05	575337	HYP	WRGD	7	6700	0.08	0.008	0.10	
792.48	795.53	3.05	575338	HYP	WRGD	7	7120	0.06	0.003	0.07	
795.53	798.58	3.05	575339	HYP	WRGD	7	6800	0.18	0.009	0.07	
798.58	801.62	3.04	575340	HYP	WRGD	7	6600	0.11	0.011	0.10	
801.62	804.67	3.05	575341	HYP	WRGD	7	6100	0.22	0.010	0.27	
804.67	807.72	3.05	575342	HYP	WRGD	7	6780	0.20	0.006	0.34	
807.72	810.77	3.05	575343	HYP	WRGD	7	7240	0.21	0.013	0.14	
810.77	END OF HOLE										

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Hole Number	93-186	Total Depth	670.56 m		
Northing	254,796.45	Casing Depth	3.66 m		Left Out
Easting	111,616.81	Survey Data	Azimuth	Dip	Instrument
Elevation	1148.42 m	Collar		-90.00°	
Core Size	HQ to 422.76 m; NQ to end	163.68 m	360°	-89.50°	Sperry Sun
Drilling Started	July 30, 1993	297.79 m	337°	-89.25°	Sperry Sun
Drilling Finished	August 14, 1993	459.33 m	Cannot read		Sperry Sun
Logged by	L. Brommeland/T. Case	620.88 m	291°	-89.70°	Sperry Sun

Purpose/Target: To test southwestern extent of mineralization in the northeast extension zone.

Comments: Chalcopyrite mineralization is very good in bottom of hypogene. Hole ended in grade due to depth.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	14.33	14.33		OVB							
14.33	17.37	3.04	573767	CAP	QMFX	3	4220	0.10	0.006	0.10	
17.37	19.81	2.44	573768	CAP	QMFX	3	5460	0.07	0.010	0.07	
19.81	23.47	3.66	573769	SUS	QMFX	3	6940	0.18	0.006	0.14	
23.47	24.99	1.52	573770	SUS	QMFX	3	3000	0.29	0.008	0.14	
24.99	27.43	2.44	573771	SUS	QMFX	3	7880	0.19	0.017	0.07	
27.43	29.57	2.14	573772	SUS	QMFX	3	6560	0.26	0.018	0.14	
29.57	32.61	3.04	573773	SUS	QMFX	3	10280	0.25	0.010	0.10	
32.61	35.66	3.05	573774	SUS	QMFX	3	10660	0.56	0.014	0.24	
35.66	38.71	3.05	573775	TRN	QMFX	3	9480	0.35	0.016	0.10	
38.71	41.76	3.05	573776	TRN	YMGN	3	9680	0.16	0.002	0.07	
41.76	44.81	3.05	573777	TRN	YMGN	7	9140	0.09	0.003	0.00	
44.81	46.94	2.13	573778	TRN	YMGN	7	5000	0.11	0.002	0.07	
46.94	49.68	2.74	573779	TRN	YMGN	7	9800	0.24	0.004	0.27	
49.68	53.34	3.66	573780	TRN	WRDR	7	9180	0.20	0.003	0.21	
53.34	57.00	3.66	573781	TRN	WRDR	7	6200	0.24	0.005	0.21	
57.00	59.13	2.13	573782	TRN	QMFX	7/3	6800	0.10	0.003	0.07	
59.13	62.18	3.05	573783	HYP	WRDR	7/3	11260	0.08	0.002	0.07	
62.18	64.92	2.74	573784	HYP	WRDR	7	6760	0.11	0.001	0.07	
64.92	67.97	3.05	573785	HYP	WRDR	7/5	11920	0.06	0.001	0.03	
67.97	71.02	3.05	573786	HYP	WRDR	5/3	8640	0.06	0.004	0.00	
71.02	73.76	2.74	573787	HYP	WRDR	5	8880	0.16	0.003	0.21	
73.76	77.72	3.96	573788	HYP	QMFX	5	13600	0.23	0.005	0.17	
77.72	80.77	3.05	573789	HYP	QMFX	5	11760	0.12	0.002	0.10	
80.77	83.82	3.05	573790	HYP	QMFX	5	12420	0.11	0.001	0.14	
83.82	86.56	2.74	573791	HYP	QMFX	5	8840	0.11	0.004	0.10	
86.56	88.70	2.14	573792	HYP	QMFX	5	6580	0.14	0.003	0.14	
88.70	90.53	1.83	573793	HYP	WRGD	5	6940	0.10	0.004	0.07	
90.53	93.57	3.04	573794	HYP	WRGD	5	11940	0.06	0.001	0.03	
93.57	96.62	3.05	573795	HYP	WRGD	5	11180	0.25	0.006	0.14	
96.62	99.67	3.05	573796	HYP	WRGD	5	11780	0.11	0.005	0.07	
99.67	102.72	3.05	573797	HYP	WRGD	5/7	12300	0.14	0.002	0.10	
102.72	105.77	3.05	573798	HYP	QMFX	5/7	10020	0.09	0.001	0.03	
105.77	108.20	2.43	573799	HYP	QMFX	5/7	9480	0.12	0.006	0.07	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.20	111.25	3.05	573800	HYP	QMFX	5/7	12100	0.12	0.015	0.10	
111.25	114.30	3.05	573801	HYP	QMFX	5/7	12200	0.16	0.021	0.14	
114.30	117.35	3.05	573802	HYP	QMFX	5/7	12160	0.13	0.018	0.07	
117.35	121.01	3.66	573803	HYP	QMFX	5/7	10260	0.25	0.018	0.07	
121.01	124.05	3.04	573804	HYP	QMFX	5/7	11920	0.23	0.043	0.14	
124.05	127.10	3.05	573805	HYP	WRDR	5/7	11900	0.22	0.002	0.21	
127.10	130.15	3.05	573806	HYP	WRDR	7/1	13320	0.12	0.002	0.07	
130.15	133.20	3.05	573807	HYP	WRDR	5/7	12540	0.17	0.007	0.14	
133.20	136.25	3.05	573808	HYP	WRDR	5/7	11800	0.24	0.008	0.14	
136.25	139.29	3.04	573809	HYP	WRDR	5/7	12820	0.13	0.001	0.14	
139.29	142.34	3.05	573810	HYP	WRDR	7/1	11420	0.14	0.001	0.14	
142.34	144.78	2.44	573811	HYP	WRDR	7/1	8340	0.14	0.002	0.10	
144.78	147.22	2.44	573812	HYP	WRDR	7/1	7640	0.22	0.003	0.27	
147.22	150.27	3.05	573813	HYP	WRGD	7	15520	0.17	0.010	0.17	
150.27	153.62	3.35	573814	HYP	WRGD	7	9880	0.11	0.004	0.10	
153.62	156.67	3.05	573815	HYP	WRGD	7	10980	0.13	0.003	0.14	
156.67	159.72	3.05	573816	HYP	WRGD	7	11780	0.18	0.009	0.17	
159.72	162.15	2.43	573817	HYP	WRGD	7/1	10480	0.11	0.004	0.10	
162.15	165.20	3.05	573818	HYP	WRGD	7/1	12440	0.16	0.007	0.17	
165.20	168.25	3.05	573819	HYP	WRGD	7/1	11720	0.17	0.004	0.17	
168.25	171.30	3.05	573820	HYP	WRGD	7/1/5	12100	0.15	0.087	0.21	
171.30	174.35	3.05	573821	HYP	WRGD	7/5	12240	0.14	0.023	0.10	
174.35	177.70	3.35	573822	HYP	WRGD	7	12780	0.14	0.010	0.17	
177.70	180.75	3.05	573823	HYP	WRGD	7	12260	0.19	0.018	0.21	
180.75	183.49	2.74	573824	HYP	WRGD	7	9920	0.14	0.013	0.14	
183.49	185.01	1.52	573825	HYP	WRGD	7	6760	0.13	0.006	0.14	
185.01	188.06	3.05	573826	HYP	WRGD	7	12600	0.12	0.002	0.14	
188.06	190.80	2.74	573827	HYP	WRGD	7	9680	0.20	0.027	0.17	
190.80	193.85	3.05	573828	HYP	QMFX	7/5	12300	0.12	0.019	0.07	
193.85	197.21	3.36	573829	HYP	QMFX	7/5	13920	0.15	0.004	0.10	
197.21	200.25	3.04	573830	HYP	WRGD	7/1	13500	0.16	0.006	0.17	
200.25	203.30	3.05	573831	HYP	WRGD	7/1	12520	0.16	0.007	0.14	
203.30	206.35	3.05	573832	HYP	QMFX	5/7	11840	0.10	0.004	0.07	
206.35	209.40	3.05	573833	HYP	QMFX	5/7	11760	0.13	0.004	0.10	
209.40	212.45	3.05	573834	HYP	QMFX	5/7	11920	0.21	0.011	0.21	
212.45	215.49	3.04	573835	HYP	QMFX	5/7	11960	0.12	0.070	0.10	
215.49	218.54	3.05	573836	HYP	QMFX	5/7	11920	0.27	0.003	0.17	
218.54	221.59	3.05	573837	HYP	QMFX	5/7	11780	0.17	0.011	0.14	
221.59	224.64	3.05	573838	HYP	WRGD	5/7	11140	0.17	0.012	0.10	
224.64	227.69	3.05	573839	HYP	WRGD	5/7	10340	0.18	0.016	0.07	
227.69	230.73	3.04	573840	HYP	QMFX	5/7	11080	0.10	0.011	0.03	
230.73	233.78	3.05	573841	HYP	QMFX	5/7	10560	0.24	0.024	0.17	
233.78	236.83	3.05	573842	HYP	QMFX	5/7	9920	0.16	0.016	0.14	
236.83	239.88	3.05	573843	HYP	WRDR	5/7	12140	0.23	0.028	0.17	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	573844	HYP	WRDR	5/7	10880	0.22	0.011	0.17	
242.93	245.97	3.04	573845	HYP	WRDR	5/7	11060	0.35	0.018	0.34	
245.97	249.02	3.05	573846	HYP	WRDR	5/7	11740	0.59	0.008	0.58	
249.02	252.07	3.05	573847	HYP	WRDR	5/7	11760	0.25	0.008	0.14	
252.07	254.66	2.59	573848	HYP	WRDR	5/7	9520	0.14	0.009	0.07	
254.66	257.25	2.59	573849	HYP	WRDR	5/7	9600	0.27	0.018	0.17	
257.25	259.69	2.44	573850	HYP	WRDR	5/7	7940	0.20	0.016	0.27	
259.69	262.74	3.05	573851	HYP	WRDR	5/7	12280	0.26	0.015	0.24	
262.74	265.79	3.05	573852	HYP	WRDR	5/7	12800	0.10	0.089	0.03	
265.79	268.83	3.04	573853	HYP	WRDR	7/1	12260	0.28	0.018	0.21	
268.83	271.88	3.05	573854	HYP	WRDR	7/1	10920	0.20	0.022	0.17	
271.88	274.93	3.05	573855	HYP	WRDR	7	11200	0.22	0.060	0.21	
274.93	278.28	3.35	573856	HYP	QMIE	7	13500	0.12	0.014	0.10	
278.28	279.50	1.22	573857	HYP	QMIE	7/5	4480	0.04	0.015	<0.03	
279.50	282.55	3.05	573858	HYP	QMIE	7/5	12100	0.07	0.034	<0.03	
282.55	285.60	3.05	573859	HYP	QMIE	7/5	12860	0.09	0.059	0.07	
285.60	288.65	3.05	573860	HYP	QMIE	7/5	12400	0.10	0.024	0.03	
288.65	291.69	3.04	573861	HYP	QMIE	7	11980	0.13	0.136	0.21	
291.69	294.74	3.05	573862	HYP	QMIE	7	12220	0.17	0.066	0.21	
294.74	297.79	3.05	573863	HYP	QMIE	7	12220	0.10	0.033	0.07	
297.79	300.84	3.05	573864	HYP	QMIE	7	12660	0.08	0.049	0.03	
300.84	303.89	3.05	573865	HYP	QMIE	7	11840	0.09	0.023	0.07	
303.89	306.93	3.04	573866	HYP	QMIE	5/7	11560	0.11	0.026	0.14	
306.93	309.98	3.05	573867	HYP	QMIE	5/7	13020	0.15	0.041	0.21	
309.98	313.03	3.05	573868	HYP	QMIE	5/7	12080	0.19	0.029	0.14	
313.03	316.08	3.05	573869	HYP	QMIE	5/4/7	12000	0.12	0.075	0.10	
316.08	319.13	3.05	573870	HYP	QMIE	5/4/7	11900	0.11	0.010	0.10	
319.13	322.17	3.04	573871	HYP	QMIE	5/4/7	12080	0.08	0.047	0.07	
322.17	325.22	3.05	573872	HYP	QMIE	5/4/7	11680	0.15	0.054	0.14	
325.22	328.27	3.05	573873	HYP	QMIE	5/4/7	11620	0.18	0.012	0.17	
328.27	331.32	3.05	573874	HYP	QMIE	5/4/7	12680	0.13	0.015	0.10	
331.32	334.37	3.05	573875	HYP	QMIE	5/4/7	12520	0.13	0.014	0.10	
334.37	337.41	3.04	573876	HYP	QMIE	5/4/7	11860	0.15	0.037	0.14	
337.41	340.46	3.05	573877	HYP	QMIE	5/4/7	13340	0.09	0.013	0.07	
340.46	343.51	3.05	573878	HYP	QMIE	5/4/7	13060	0.18	0.048	0.14	
343.51	346.56	3.05	573879	HYP	QMIE	5/7	14120	0.13	0.034	0.14	
346.56	349.61	3.05	573880	HYP	QMIE	7/5	13000	0.08	0.060	0.03	
349.61	352.65	3.04	573881	HYP	QMIE	7/5	14280	0.07	0.032	0.07	
352.65	355.70	3.05	573882	HYP	QMIE	7/5	13660	0.17	0.083	0.07	
355.70	358.75	3.05	573883	HYP	QMIE	7	13840	0.21	0.063	0.10	
358.75	361.80	3.05	573884	HYP	QMIE	7	13160	0.08	0.022	0.07	
361.80	364.85	3.05	573885	HYP	QMIE	7	13020	0.12	0.016	0.10	
364.85	367.89	3.04	573886	HYP	QMIE	7	12820	0.22	0.027	0.24	
367.89	370.94	3.05	573887	HYP	QMIE	7	12200	0.16	0.023	0.14	

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CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.99	3.05	573888	HYP	QMIE	7	13120	0.18	0.011	0.14	
373.99	377.04	3.05	573889	HYP	QMIE	7	12280	0.29	0.033	0.34	
377.04	380.09	3.05	573890	HYP	WRGD	7	12340	0.23	0.024	0.17	
380.09	383.13	3.04	573891	HYP	WRGD	7	12960	0.29	0.016	0.34	
383.13	386.18	3.05	573892	HYP	WRGD	7	12640	0.30	0.012	0.27	
386.18	389.23	3.05	573893	HYP	WRGD	7	13220	0.37	0.027	0.38	
389.23	392.28	3.05	573894	HYP	WRGD	7	13300	0.23	0.020	0.31	
392.28	395.33	3.05	573895	HYP	WRGD	7	13600	0.15	0.016	0.21	
395.33	398.37	3.04	573896	HYP	WRGD	7	13320	0.15	0.013	0.14	
398.37	401.42	3.05	573897	HYP	WRGD	7	13620	0.14	0.020	0.10	
401.42	404.47	3.05	573898	HYP	WRGD	7	13620	0.16	0.043	0.10	
404.47	407.52	3.05	573899	HYP	WRGD	7	13840	0.22	0.013	0.17	
407.52	410.57	3.05	573900	HYP	WRGD	7	13480	0.31	0.081	0.31	
410.57	413.61	3.04	573901	HYP	WRGD	7	14280	0.98	0.005	1.06	
413.61	416.66	3.05	573902	HYP	WRGD	7	12220	0.27	0.024	0.24	
416.66	419.71	3.05	573903	HYP	WRGD	7	14020	0.21	0.012	0.21	
419.71	422.76	3.05	573904	HYP	WRGD	7	12540	0.15	0.013	0.14	
422.76	425.81	3.05	573905	HYP	WRGD	7	7560	0.17	0.018	0.17	
425.81	428.85	3.04	573906	HYP	WRGD	7	7560	0.16	0.024	0.17	
428.85	431.90	3.05	573907	HYP	WRGD	7	7600	0.22	0.014	0.21	
431.90	434.95	3.05	573908	HYP	WRGD	7	7620	0.22	0.009	0.21	
434.95	438.00	3.05	573909	HYP	WRGD	7	7020	0.30	0.024	0.27	
438.00	441.05	3.05	573910	HYP	WRGD	7	6820	0.24	0.008	0.17	
441.05	444.09	3.04	573911	HYP	WRGD	7	8020	0.32	0.019	0.24	
444.09	447.14	3.05	573912	HYP	WRGD	7	7420	0.16	0.012	0.14	
447.14	450.19	3.05	573913	HYP	WRGD	7	7260	0.15	0.010	0.10	
450.19	453.24	3.05	573914	HYP	WRGD	7	7080	0.31	0.025	0.27	
453.24	456.29	3.05	573915	HYP	WRGD	7	7340	0.50	0.026	0.27	
456.29	459.33	3.04	573916	HYP	WRGD	7	7320	0.24	0.015	0.17	
459.33	462.38	3.05	573917	HYP	WRGD	7	7880	0.21	0.014	0.27	
462.38	465.43	3.05	573918	HYP	WRGD	7	7720	0.26	0.016	0.21	
465.43	468.48	3.05	573919	HYP	WRGD	7	7820	0.27	0.007	0.10	
468.48	471.53	3.05	573920	HYP	WRGD	7	7840	0.17	0.017	0.14	
471.53	474.57	3.04	573921	HYP	WRGD	7	7500	0.19	0.013	0.17	
474.57	477.62	3.05	573922	HYP	WRGD	7	7020	0.31	0.026	0.24	
477.62	480.67	3.05	573923	HYP	WRGD	7	7560	0.28	0.016	0.27	
480.67	483.72	3.05	573924	HYP	WRGD	7	7740	0.16	0.032	0.21	
483.72	486.77	3.05	573925	HYP	WRGD	7	7100	0.25	0.016	0.21	
486.77	489.81	3.04	573926	HYP	WRGD	7	7140	0.19	0.082	0.17	
489.81	492.86	3.05	573927	HYP	WRGD	7	7700	0.14	0.041	0.10	
492.86	495.91	3.05	573928	HYP	WRGD	7	3920	0.19	0.110	0.21	
495.91	498.96	3.05	573929	HYP	WRGD	7	7400	0.28	0.052	0.27	
498.96	502.01	3.05	573930	HYP	WRGD	7	7360	0.37	0.025	0.45	
502.01	505.05	3.04	573931	HYP	WRGD	7	7600	0.49	0.029	0.41	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
505.05	508.10	3.05	573932	HYP	WRGD	7	7440	0.22	0.017	0.21	
508.10	511.15	3.05	573933	HYP	WRGD	7	7060	0.21	0.016	0.24	
511.15	514.20	3.05	573934	HYP	WRGD	7	7880	0.26	0.027	0.24	
514.20	517.25	3.05	573935	HYP	WRGD	7	6580	0.28	0.014	0.21	
517.25	520.29	3.04	573936	HYP	WRGD	7	8280	0.33	0.010	0.31	
520.29	523.34	3.05	573937	HYP	WRGD	7	7180	0.38	0.031	0.45	
523.34	526.39	3.05	573938	HYP	WRGD	7	7840	0.24	0.013	0.27	
526.39	529.44	3.05	573939	HYP	WRGD	7	7420	0.22	0.026	0.14	
529.44	532.49	3.05	573940	HYP	WRGD	7	7120	0.20	0.008	0.14	
532.49	535.53	3.04	573941	HYP	WRGD	7	7860	0.21	0.008	0.21	
535.53	538.58	3.05	573942	HYP	WRGD	7	7320	0.19	0.012	0.21	
538.58	541.63	3.05	573943	HYP	WRGD	7	7200	0.13	0.007	0.14	
541.63	544.68	3.05	573944	HYP	WRGD	7	6700	0.11	0.019	0.07	
544.68	547.73	3.05	573945	HYP	WRGD	6	6400	0.13	0.017	0.10	
547.73	550.77	3.04	573946	HYP	WRGD	6	7280	0.17	0.037	0.10	
550.77	553.82	3.05	573947	HYP	WRGD	7	7880	0.27	0.029	0.14	
553.82	556.87	3.05	573948	HYP	WRGD	7	7180	0.44	0.044	0.27	
556.87	559.92	3.05	573949	HYP	WRGD	7	7460	0.43	0.042	0.48	
559.92	562.97	3.05	573950	HYP	WRGD	7	7880	0.58	0.048	0.38	
562.97	565.40	2.43	573951	HYP	WRGD	7	5180	0.65	0.080	0.51	
565.40	568.45	3.05	573952	HYP	WRGD	7	7120	0.29	0.010	0.21	
568.45	571.50	3.05	573953	HYP	WRGD	7	7940	0.30	0.039	0.24	
571.50	574.55	3.05	573954	HYP	WRGD	7	7840	0.30	0.014	0.34	
574.55	578.21	3.66	573955	HYP	WRGD	7	9240	0.38	0.046	0.27	
578.21	581.25	3.04	573956	HYP	WRGD	7	7760	0.41	0.016	0.31	
581.25	584.30	3.05	573957	HYP	WRGD	7	6600	0.34	0.032	0.24	
584.30	587.35	3.05	573958	HYP	WRGD	7	7740	0.31	0.049	0.27	
587.35	590.40	3.05	573959	HYP	WRGD	7	7700	0.43	0.020	0.34	
590.40	593.45	3.05	573960	HYP	WRGD	7	7880	0.42	0.039	0.45	
593.45	596.49	3.04	573961	HYP	WRGD	7	7800	0.36	0.057	1.27	
596.49	599.54	3.05	573962	HYP	WRGD	7	6860	0.23	0.036	0.38	
599.54	602.59	3.05	573963	HYP	WRGD	7	7000	0.35	0.079	0.34	
602.59	605.64	3.05	573964	HYP	WRGD	7	6960	0.37	0.018	0.48	
605.64	608.69	3.05	573965	HYP	WRGD	7	6980	0.25	0.067	0.34	
608.69	611.73	3.04	573966	HYP	WRGD	7	6860	0.23	0.096	0.24	
611.73	614.78	3.05	573967	HYP	WRGD	7	7600	0.18	0.012	0.21	
614.78	617.83	3.05	573968	HYP	WRGD	7/5	7380	0.12	0.015	0.24	
617.83	620.88	3.05	573969	HYP	WRGD	7	7340	0.12	0.022	0.10	
620.88	623.93	3.05	573970	HYP	WRGD	7/5/4	7080	0.52	0.022	0.27	
623.93	626.97	3.04	573971	HYP	WRGD	7	7640	0.30	0.011	0.27	
626.97	630.02	3.05	573972	HYP	WRGD	7	7300	0.30	0.012	0.27	
630.02	633.07	3.05	573973	HYP	WRGD	7	6740	0.17	0.026	0.14	
633.07	636.12	3.05	573974	HYP	WRGD	7	6960	0.17	0.007	0.14	
636.12	639.17	3.05	573975	HYP	WRGD	7	6840	0.12	0.013	0.14	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
639.17	642.21	3.04	573976	HYP	WRGD	7	6500	0.11	0.024	0.10	
642.21	645.26	3.05	573977	HYP	WRGD	7	6880	0.18	0.100	0.14	
645.26	648.31	3.05	573978	HYP	WRGD	7	7060	0.24	0.032	0.14	
648.31	651.36	3.05	573979	HYP	WRGD	7	7720	0.10	0.010	0.07	
651.36	654.41	3.05	573980	HYP	WRGD	7	7120	0.18	0.011	0.17	
654.41	657.45	3.04	573981	HYP	WRGD	7	7080	0.22	0.014	0.27	
657.45	660.50	3.05	573982	HYP	WRGD	7	7120	0.15	0.016	0.17	
660.50	663.55	3.05	573983	HYP	WRGD	7	7120	0.17	0.009	0.17	
663.55	666.60	3.05	573984	HYP	WRGD	7	7140	0.18	0.017	0.17	
666.60	670.56	3.96	573985	HYP	WRGD	7	9680	0.15	0.010	0.14	
670.56	END OF HOLE										

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Hole Number	93-187	Total Depth	319.73 m		
Northing	254,199.36	Casing Depth	3.66 m		Left Out
Easting	110,699.75	Survey Data	Azimuth	Dip	Instrument
Elevation	1391.22 m	Collar			
Core Size	HQ	154.23 m	326°	-88.8°	Sperry Sun
Drilling Started	July 30, 1993	306.93 m	332°	-89.2°	Sperry Sun
Drilling Finished	August 4, 1993				
Logged by	W.D. Mann				

Purpose/Target: Step-out to southwest exploration.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	5.18	2.74	571259	CAP	WRGD	3	7000	<0.01	<0.001	0.10	
5.18	7.92	2.74	571260	CAP	WRGD	3	8390	<0.01	<0.001	0.14	
7.92	9.75	1.83	571261	CAP	WRGD	3/5	7380	<0.01	<0.001	0.14	
9.75	12.80	3.05	571262	CAP	WRGD	3/5	9580	<0.01	<0.001	0.14	
12.80	14.78	1.98	571263	CAP	WRGD	3/5	7300	<0.01	<0.001	0.10	
14.78	17.83	3.05	571264	CAP	WRGD	3/5	10690	<0.01	<0.001	0.17	
17.83	20.27	2.44	571265	CAP	WRGD	3/5	8860	<0.01	<0.001	0.10	
20.27	23.47	3.20	571266	CAP	WRGD	3/5	1080	<0.01	<0.001	0.41	
23.47	26.82	3.35	571267	CAP	WRGD	3/5	9880	<0.01	<0.001	0.34	
26.82	28.04	1.22	571268	CAP	WRGD	3/5	3860	<0.01	<0.001	0.10	
28.04	31.09	3.05	571269	CAP	WRGD	3/5	10520	<0.01	<0.001	0.14	
31.09	34.14	3.05	571270	CAP	WRGD	3/5	10100	<0.01	<0.001	0.17	
34.14	37.19	3.05	571271	CAP	WRGD	3/5	11080	<0.01	<0.001	0.10	
37.19	40.84	3.65	571272	CAP	WRGD	3/5	12200	<0.01	<0.001	0.14	
40.84	43.43	2.59	571273	CAP	WRGD	3/5	8880	<0.01	<0.001	0.17	
43.43	46.33	2.90	571274	CAP	WRGD	3/5	9760	<0.01	0.001	0.14	
46.33	49.38	3.05	571275	CAP	WRGD	3/5	10620	<0.01	<0.001	0.31	
49.38	52.43	3.05	571276	CAP	WRGD	3/5	9590	<0.01	<0.001	0.17	
52.43	55.47	3.04	571277	CAP	WRGD	3/5	9070	<0.01	<0.001	0.31	
55.47	58.52	3.05	571278	CAP	WRGD	3/5	10040	<0.01	<0.001	0.17	
58.52	61.57	3.05	571279	CAP	WRGD	3/5	10860	<0.01	<0.001	0.21	
61.57	64.62	3.05	571280	CAP	WRGD	3/5	9160	<0.01	<0.001	0.55	
64.62	67.06	2.44	571281	SOX	WRGD	5/3	8190	<0.01	<0.001	0.17	
67.06	70.10	3.04	571282	SOX	WRGD	5/3	11360	0.02	<0.001	0.24	
70.10	73.76	3.66	571283	SOX	WRGD	5/3	14160	0.03	<0.001	0.21	
73.76	76.50	2.74	571284	SUS	WRGD	5	9380	0.03	<0.001	0.24	
76.50	79.25	2.75	571285	SUS	WRGD	5	10160	<0.01	<0.001	0.10	
79.25	82.75	3.50	571286	SUS	WRGD	5	12080	0.04	<0.001	0.17	
82.75	85.65	2.90	571287	SUS	WRGD	5	10780	0.03	<0.001	0.17	
85.65	88.70	3.05	571288	SUS	WRGD	5	11720	0.04	<0.001	0.24	
88.70	90.53	1.83	571289	SUS	WRGD	5	8200	0.04	<0.001	0.34	
90.53	92.51	1.98	571290	SUS	WRGD	5	7200	0.02	<0.001	0.10	
92.51	95.40	2.89	571291	SUS	WRGD	5	13760	0.04	<0.001	0.17	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
95.40	97.69	2.29	571292	TRN	LTDA	5	4300	0.06	<0.001	0.17	
97.69	100.74	3.05	571293	TRN	WRGD	5/1	13060	0.03	<0.001	0.21	
100.74	103.94	3.20	571294	TRN	WRGD	5/1	13700	0.02	<0.001	0.07	
103.94	105.77	1.83	571295	TRN	WRGD	5/1	6560	0.06	<0.001	0.14	
105.77	108.81	3.04	571296	TRN	WRGD	5/1	12820	0.02	<0.001	0.10	
108.81	111.86	3.05	571297	TRN	WRGD	5/1	12500	0.03	0.001	0.17	
111.86	114.91	3.05	571298	TRN	WRGD	5	13000	0.03	<0.001	0.58	
114.91	117.96	3.05	571299	TRN	WRGD	5	12880	0.05	<0.001	0.21	
117.96	121.01	3.05	571300	TRN	WRGD	5	1190	0.02	<0.001	0.10	
121.01	124.05	3.04	571301	TRN	WRGD	5	13320	0.03	<0.001	0.10	
124.05	127.10	3.05	571302	TRN	WRGD	5	14140	0.02	<0.001	0.14	
127.10	130.15	3.05	571303	TRN	WRGD	5	13070	0.03	<0.001	0.17	
130.15	133.20	3.05	571304	TRN	WRGD	5	14280	0.03	<0.001	0.14	
133.20	136.25	3.05	571305	TRN	WRGD	5	13440	0.07	<0.001	0.14	
136.25	139.29	3.04	571306	TRN	WRGD	5	12860	0.04	<0.001	0.10	
139.29	142.34	3.05	571307	HYP	WRGD	1/5	13150	0.03	<0.001	0.10	
142.34	144.78	2.44	571308	HYP	WRGD	1/5	11340	0.03	<0.001	0.14	
144.78	147.98	3.20	571309	HYP	WRGD	5	13380	0.04	<0.001	0.17	
147.98	151.18	3.20	571310	HYP	WRGD	5	12820	0.02	<0.001	0.07	
151.18	154.23	3.05	571311	HYP	WRGD	5	13260	0.02	<0.001	0.24	
154.23	157.28	3.05	571312	HYP	WRGD	5	13800	0.03	<0.001	0.10	
157.28	160.32	3.04	571313	HYP	WRGD	5	14660	0.03	0.001	0.17	
160.32	163.68	3.36	571314	HYP	WRGD	5	15000	0.01	0.001	0.14	
163.68	166.73	3.05	571315	HYP	WRGD	5	14160	0.04	<0.001	0.27	
166.73	169.77	3.04	571316	HYP	WRGD	5	14360	0.02	<0.001	0.07	
169.77	172.82	3.05	571317	HYP	WRGD	5	13300	0.01	<0.001	<0.03	
172.82	175.87	3.05	571318	HYP	WRGD	5	14360	0.03	<0.001	0.03	
175.87	178.92	3.05	571319	HYP	WRGD	5	13880	0.03	<0.001	0.07	
178.92	181.97	3.05	571320	HYP	WRGD	1/5	12700	0.03	<0.001	<0.03	
181.97	185.01	3.04	571321	HYP	WRGD	5	13340	0.02	<0.001	0.03	
185.01	188.06	3.05	571322	HYP	WRGD	5	13040	0.02	<0.001	<0.03	
188.06	191.11	3.05	571323	HYP	WRGD	5	13740	0.04	<0.001	0.17	
191.11	194.16	3.05	571324	HYP	WRGD	5	13630	0.03	<0.001	0.10	
194.16	197.21	3.05	571325	HYP	WRGD	5	13320	0.01	<0.001	<0.03	
197.21	200.25	3.04	571326	HYP	WRGD	5	13540	0.02	<0.001	0.10	
200.25	203.30	3.05	571327	HYP	WRGD	5	13780	0.03	<0.001	0.07	
203.30	206.35	3.05	571328	HYP	WRGD	5	13560	0.02	<0.001	<0.03	
206.35	209.40	3.05	571329	HYP	WRGD	5	12600	0.02	<0.001	0.10	
209.40	212.45	3.05	571330	HYP	WRGD	5	14140	0.02	0.001	0.07	
212.45	215.49	3.04	571331	HYP	WRGD	5	13220	0.04	<0.001	0.17	
215.49	218.54	3.05	571332	HYP	WRGD	5	12340	0.02	<0.001	0.21	
218.54	221.59	3.05	571333	HYP	WRGD	5	13060	0.02	<0.001	0.03	
221.59	224.64	3.05	571334	HYP	WRGD	5	12660	0.03	<0.001	0.10	
224.64	227.69	3.05	571335	HYP	WRGD	5	13700	0.02	<0.001	0.10	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
227.69	230.73	3.04	571336	HYP	WRGD	5	12980	0.02	<0.001	0.07	
230.73	233.78	3.05	571337	HYP	WRGD	5	13080	0.02	<0.001	0.07	
233.78	236.83	3.05	571338	HYP	WRGD	5	12540	0.04	<0.001	0.41	
236.83	239.88	3.05	571339	HYP	WRGD	5	13200	0.01	0.001	0.10	
239.88	242.93	3.05	571340	HYP	WRGD	5	12760	0.02	<0.001	<0.03	
242.93	245.97	3.04	571341	HYP	WRGD	5	13020	0.03	0.001	0.10	
245.97	249.02	3.05	571342	HYP	WRGD	5	12360	0.03	0.001	0.03	
249.02	252.07	3.05	571343	HYP	WRGD	5	13700	0.02	0.001	0.07	
252.07	255.12	3.05	571344	HYP	WRGD	5	12360	0.03	0.001	0.14	
255.12	258.17	3.05	571345	HYP	WRGD	5	12420	0.02	0.001	0.10	
258.17	261.21	3.04	571346	HYP	WRGD	5	13160	0.02	<0.001	0.10	
261.21	264.26	3.05	571347	HYP	WRGD	5	13200	0.03	<0.001	0.14	
264.26	267.31	3.05	571348	HYP	WRGD	5	12520	0.02	<0.001	0.07	
267.31	270.36	3.05	571349	HYP	WRGD	5	12700	0.03	<0.001	0.10	
270.36	273.41	3.05	571350	HYP	WRGD	5	12660	0.04	<0.001	0.10	
273.41	276.45	3.04	571351	HYP	WRGD	5	12700	0.02	0.002	0.14	
276.45	279.50	3.05	571352	HYP	WRGD	5	11820	0.03	<0.001	0.07	
279.50	282.55	3.05	571353	HYP	WRGD	5	13300	0.02	<0.001	<0.03	
282.55	285.60	3.05	571354	HYP	WRGD	5	9920	0.02	<0.001	<0.03	
285.60	288.65	3.05	571355	HYP	WRGD	5	10680	0.01	<0.001	<0.03	
288.65	291.69	3.04	571356	HYP	WRGD	5	12320	0.01	0.001	<0.03	
291.69	294.44	2.75	571357	HYP	WRGD	5	9920	0.01	0.001	<0.03	
294.44	297.48	3.04	571358	HYP	WRGD	5	12600	0.02	0.000	<0.03	
297.48	299.01	1.53	571359	HYP	WRGD	5	5920	0.03	<0.001	<0.03	
299.01	301.75	2.74	571360	HYP	WRGD	5	10400	0.02	0.001	<0.03	
301.75	303.89	2.14	571361	HYP	WRGD	5	9060	0.02	<0.001	<0.03	
303.89	306.93	3.04	571362	HYP	WRGD	5	12020	0.01	<0.001	0.07	
306.93	309.98	3.05	571363	HYP	WRGD	5	13920	0.02	<0.001	0.03	
309.98	313.03	3.05	571364	HYP	WRGD	5	12900	0.03	<0.001	<0.03	
313.03	316.08	3.05	571365	HYP	WRGD	5	12940	0.02	0.001	<0.03	
316.08	319.73	3.65	571366	HYP	WRGD	5	14620	0.02	<0.001	0.07	
319.73	END OF HOLE										

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Hole Number	93-188	Total Depth	434.95 m		
Northing	254,399.75	Casing Depth	7.31 m		Left Out
Easting	110,398.97	Survey Data	Azimuth	Dip	Instrument
Elevation	1322.50 m	Collar		-90°	Brunton
Core Size	HQ to 315.47 m; NQ to end	304.8 m	345°	-89°	Sperry Sun
Drilling Started	August 4, 1993				
Drilling Finished	August 14, 1993				
Logged by	M.P. Phillips				

Purpose/Target: Routine grid drilling.

Comments: The drill hole intersected granodiorite and bottomed in a 22 m wide dyke of porphyritic latite (unit 6/5a).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	9.75	9.75		OVB							
9.75	11.25	1.50	564946	CAP	WRGD	3/5	4660	<0.01	0.019	0.24	
11.25	14.33	3.08	564947	CAP	WRGD	3/5	10440	<0.01	0.020	0.24	
14.33	16.46	2.13	564948	CAP	WRGD	3/5	8120	<0.01	0.016	0.27	
16.46	19.51	3.05	564949	CAP	WRGD	3/5	12280	<0.01	0.022	0.24	
19.51	21.64	2.13	564950	CAP	WRGD	3/5	5740	<0.01	0.023	0.14	
21.64	24.99	3.35	564951	CAP	WRGD	3/5	13760	<0.01	0.015	0.24	
24.99	26.52	1.53	564952	CAP	WRGD	3/5	4740	<0.01	0.009	0.24	
26.52	28.96	2.44	564953	CAP	WRGD	3/5	8600	<0.01	0.012	0.17	
28.96	32.61	3.65	564954	CAP	WRGD	3/5	12920	<0.01	0.014	0.21	
32.61	35.66	3.05	564955	CAP	WRGD	3/5	10240	<0.01	0.013	0.21	
35.66	38.71	3.05	564956	CAP	WRGD	3/5	12180	<0.01	0.017	0.17	
38.71	41.45	2.74	564957	CAP	WRGD	3/5	10980	0.01	0.017	0.21	
41.45	44.50	3.05	564958	CAP	WRGD	3/5	13000	<0.01	0.026	0.21	
44.50	47.85	3.35	564959	CAP	WRGD	3/5	12420	0.01	0.040	0.27	
47.85	50.90	3.05	564960	CAP	WRGD	3/5	12600	0.01	0.020	0.17	
50.90	53.94	3.04	564961	CAP	WRGD	3/5	10040	0.01	0.025	0.27	
53.94	57.09	3.15	564962	CAP	WRGD	3/5	12280	<0.01	0.024	0.24	
57.09	60.05	2.96	564963	CAP	WRGD	3/5	12620	<0.01	0.034	0.21	
60.05	63.09	3.04	564964	CAP	WRGD	3/5	13500	<0.01	0.022	0.17	
63.09	66.14	3.05	564965	CAP	WRGD	3/5	12240	0.01	0.024	0.24	
66.14	69.19	3.05	564966	CAP	WRGD	3/5	12500	0.01	0.025	0.27	
69.19	72.24	3.05	564967	CAP	WRGD	3/5	11300	<0.01	0.016	0.21	
72.24	75.29	3.05	564968	CAP	WRGD	3/5	10120	<0.01	0.018	0.31	
75.29	78.33	3.04	564969	CAP	WRGD	3/5	10550	<0.01	0.023	0.34	
78.33	81.38	3.05	564970	CAP	WRGD	3/5	11640	<0.01	0.028	1.64	
81.38	84.43	3.05	564971	CAP	WRGD	3/5	11880	0.01	0.024	0.34	
84.43	87.48	3.05	564972	CAP	WRGD	3/5	11060	0.01	0.019	0.27	
87.48	90.53	3.05	564973	CAP	WRGD	3/5	11320	0.01	0.020	0.17	
90.53	93.57	3.04	564974	CAP	WRGD	3/5	12260	0.01	0.041	0.21	
93.57	96.62	3.05	564975	CAP	WRGD	3/5	11520	0.01	0.039	0.27	
96.62	99.67	3.05	564976	CAP	WRGD	3/5	10760	0.01	0.022	0.21	
99.67	102.72	3.05	564977	CAP	WRGD	3/5	11560	0.01	0.022	0.27	
102.72	105.77	3.05	564978	CAP	WRGD	3/5	11420	0.01	0.024	0.38	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	564979	CAP	WRGD	3/5	12080	0.01	0.027	0.41	
108.81	111.86	3.05	564980	CAP	WRGD	3/5	10000	<0.01	0.015	0.24	
111.86	114.91	3.05	564981	CAP	WRGD	3/5	10280	0.01	0.013	0.21	
114.91	117.96	3.05	564982	CAP	WRGD	3/5	10760	0.01	0.017	0.38	
117.96	121.01	3.05	564983	SUS	WRGD	5	11980	0.01	0.013	0.21	
121.01	124.05	3.04	564984	SUS	WRGD	5	11560	0.18	0.022	0.34	
124.05	127.10	3.05	564985	SUS	WRGD	5	11460	0.26	0.028	0.24	
127.10	129.84	2.74	564986	SUS	WRGD	5	11000	0.22	0.013	0.31	
129.84	132.28	2.44	564987	SUS	WRGD	5	9020	0.28	0.019	0.21	
132.28	135.94	3.66	564988	SUS	WRGD	5	12780	0.21	0.017	0.34	
135.94	138.99	3.05	564989	SUS	WRGD	5	11820	0.33	0.027	0.38	
138.99	142.34	3.35	564990	SUS	WRGD	5	11100	0.42	0.044	0.58	
142.34	145.39	3.05	564991	SUS	WRGD	5	12040	0.37	0.095	0.51	
145.39	148.44	3.05	564992	SUS	WRGD	5	11140	0.22	0.050	0.27	
148.44	151.49	3.05	564993	SUS	WRGD	5	10540	0.26	0.068	0.24	
151.49	154.53	3.04	564994	SUS	WRGD	5	12760	0.21	0.143	0.27	
154.53	157.58	3.05	564995	SUS	WRGD	5	12260	0.24	0.218	0.48	
157.58	160.63	3.05	564996	SUS	WRGD	5	12460	0.17	0.015	0.10	
160.63	163.68	3.05	564997	SUS	WRGD	5	12500	0.16	0.018	0.14	
163.68	166.73	3.05	564998	SUS	WRGD	5	12180	0.24	0.017	0.21	
166.73	169.77	3.04	564999	SUS	WRGD	5	11500	0.26	0.036	0.27	
169.77	172.82	3.05	565000	SUS	WRGD	5	12580	0.15	0.009	0.14	
172.82	175.87	3.05	565001	SUS	WRGD	5	12280	0.12	0.017	0.14	
175.87	178.92	3.05	565002	SUS	WRGD	5	12120	0.06	0.022	0.21	
178.92	181.97	3.05	565003	SUS	WRGD	5	12000	0.19	0.030	0.17	
181.97	185.01	3.04	565004	SUS	WRGD	5	13380	0.17	0.042	0.17	
185.01	188.06	3.05	565005	SUS	WRGD	5	11860	0.14	0.032	0.17	
188.06	191.11	3.05	565006	SUS	WRGD	6	12000	0.21	0.031	0.41	
191.11	194.16	3.05	565007	SUS	WRGD	6	11860	0.23	0.028	0.17	
194.16	197.21	3.05	565008	HYP	WRGD	6	11680	0.29	0.031	0.31	
197.21	200.25	3.04	565009	HYP	WRGD	7/2	12300	0.16	0.028	0.24	
200.25	203.30	3.05	565010	HYP	WRGD	7/2	13000	0.15	0.022	0.21	
203.30	206.35	3.05	565011	HYP	WRGD	7/2	13100	0.17	0.014	0.41	
206.35	209.40	3.05	565012	HYP	WRGD	7/4	13140	0.16	0.031	0.14	
209.40	212.44	3.04	565013	HYP	WRGD	7/4	13040	0.13	0.018	0.07	
212.44	215.49	3.05	565014	HYP	WRGD	7/4	11700	0.24	0.015	0.21	
215.49	218.54	3.05	565015	SUS	WRGD	5/4	10240	0.37	0.050	0.34	
218.54	221.59	3.05	565016	HYP	WRGD	7/2	11920	0.20	0.009	0.21	
221.59	224.64	3.05	565017	HYP	WRGD	7/2	12240	0.20	0.022	0.24	
224.64	227.68	3.04	565018	HYP	WRGD	4/7	12700	0.22	0.017	0.24	
227.68	230.73	3.05	565019	HYP	WRGD	7/4	10760	0.15	0.013	0.17	
230.73	233.17	2.44	565020	HYP	WRGD	7/1	15300	0.19	0.019	0.17	
233.17	236.83	3.66	565021	HYP	WRGD	7/1	12120	0.13	0.015	0.17	
236.83	239.88	3.05	565022	HYP	WRGD	7/1	11380	0.18	0.011	0.21	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	565023	HYP	WRGD	4/7	12700	0.21	0.017	0.24	
242.93	245.97	3.04	565024	SUS	WRGD	7/4	12000	0.14	0.034	0.10	
245.97	249.02	3.05	565025	SUS	WRGD	4/7	11360	0.28	0.024	0.27	
249.02	251.46	2.44	565026	SUS	WRGD	4	9880	0.31	0.038	0.34	
251.46	254.51	3.05	565027	SUS	WRGD	4/1	11740	0.16	0.019	0.21	
254.51	257.25	2.74	565028	HYP	WRGD	3/4	9460	0.14	0.028	0.14	
257.25	259.69	2.44	565029	HYP	WRGD	4/3	9160	0.14	0.107	0.10	
259.69	262.74	3.05	565030	HYP	WRGD	4/3	12520	0.16	0.052	0.10	
262.74	265.79	3.05	565031	HYP	WRGD	4/3	12160	0.17	0.042	0.17	
265.79	267.31	1.52	565032	SUS	WRGD	4/7	5580	0.18	0.049	0.14	
267.31	270.36	3.05	565033	SUS	WRGD	4/7	11580	0.13	0.038	0.14	
270.36	272.80	2.44	565034	SUS	WRGD	4/7	8900	0.24	0.053	0.17	
272.80	275.84	3.04	565035	SUS	WRGD	5/4	11840	0.11	0.064	0.14	
275.84	278.89	3.05	565036	HYP	WRGD	3/7	11640	0.14	0.030	0.10	
278.89	281.94	3.05	565037	SUS	WRGD	5/3	11140	0.21	0.034	0.21	
281.94	285.60	3.66	565038	SUS	WRGD	5/4	12820	0.25	0.046	0.21	
285.60	288.65	3.05	565039	HYP	WRGD	4/3	11780	0.21	0.020	0.24	
288.65	291.69	3.04	565040	HYP	WRGD	4/5	12260	0.22	0.044	0.21	
291.69	294.74	3.05	565041	HYP	WRGD	3/7	10760	0.19	0.032	0.24	
294.74	297.79	3.05	565042	HYP	WRGD	7/1	12800	0.19	0.018	0.38	
297.79	300.84	3.05	565043	HYP	WRGD	4/3	12220	0.19	0.044	0.24	
300.84	303.89	3.05	565044	HYP	WRGD	4/7	12780	0.16	0.022	0.17	
303.89	306.93	3.04	565045	HYP	WRGD	7/1	12100	0.24	0.026	0.27	
306.93	309.98	3.05	565046	HYP	WRGD	7/1	12000	0.19	0.017	0.21	
309.98	313.03	3.05	565047	HYP	WRGD	7/2	11430	0.14	0.199	0.14	
313.03	315.47	2.44	565048	HYP	WRGD	7/3	10000	0.18	0.019	0.17	
315.47	319.12	3.65	565049	HYP	WRGD	7/1	7040	0.14	0.025	0.17	
319.12	322.17	3.05	565050	HYP	WRGD	7/1	6560	0.26	0.029	0.27	
322.17	325.22	3.05	565051	HYP	WRGD	7/1	6700	0.18	0.017	0.24	
325.22	328.27	3.05	565052	HYP	WRGD	7/1	6800	0.29	0.094	0.27	
328.27	331.32	3.05	565053	HYP	WRGD	7/1	6560	0.22	0.171	0.21	
331.32	334.36	3.04	565054	HYP	WRGD	7/1	6400	0.17	0.077	0.24	
334.36	337.41	3.05	565055	HYP	WRGD	7/1	6200	0.17	0.043	0.17	
337.41	340.46	3.05	565056	HYP	WRGD	7/1	7100	0.21	0.184	0.17	
340.46	343.51	3.05	565057	HYP	WRGD	7/1	7040	0.25	0.034	0.14	
343.51	346.56	3.05	565058	HYP	WRGD	7/3	7280	0.25	0.035	0.31	
346.56	349.61	3.05	565059	HYP	WRGD	5/4	6450	0.29	0.050	0.24	
349.61	352.65	3.04	565060	HYP	WRGD	4/5	6820	0.42	0.035	0.41	
352.65	355.70	3.05	565061	HYP	WRGD	5/4	7010	0.32	0.049	0.21	
355.70	358.75	3.05	565062	HYP	WRGD	6	6720	0.45	0.078	0.45	
358.75	361.80	3.05	565063	HYP	WRGD	6	6340	0.27	0.032	0.27	
361.80	364.85	3.05	565064	HYP	WRGD	6	6700	0.31	0.050	0.31	
364.85	367.89	3.04	565065	HYP	WRGD	6/5	6720	0.34	0.061	0.34	
367.89	370.94	3.05	565066	HYP	WRGD	5/6	7280	0.31	0.043	0.27	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.99	3.05	565067	HYP	WRGD	6/5	7100	0.38	0.052	0.41	
373.99	377.04	3.05	565068	HYP	WRGD	6/4	6340	0.24	0.077	0.21	
377.04	380.09	3.05	565069	HYP	WRGD	5	6560	0.23	0.052	0.14	
380.09	383.13	3.04	565070	HYP	WRGD	5	7400	0.36	0.045	0.27	
383.13	386.18	3.05	565071	HYP	WRGD	4/5	6820	0.31	0.059	0.27	
386.18	389.23	3.05	565072	HYP	WRGD	4/5	6480	0.38	0.180	0.17	
389.23	392.28	3.05	565073	HYP	WRGD	4/3	6920	0.28	0.044	0.14	
392.28	395.33	3.05	565074	HYP	WRGD	3/7	6840	0.29	0.058	0.17	
395.33	398.37	3.04	565075	HYP	WRGD	5/3	6880	0.18	0.087	0.17	
398.37	401.42	3.05	565076	HYP	WRGD	7/1	7120	0.17	0.058	0.10	
401.42	404.47	3.05	565077	HYP	WRGD	7/1	6740	0.23	0.057	0.17	
404.47	407.52	3.05	565078	HYP	WRGD	7/1	6640	0.21	0.074	0.14	
407.52	410.57	3.05	565079	HYP	WRGD	7/1	7100	0.21	0.084	0.10	
410.57	413.61	3.04	565080	HYP	WRGD	7/1	6700	0.22	0.025	0.14	
413.61	416.66	3.05	565081	HYP	WRGD	7/1	7100	0.13	0.002	0.07	
416.66	419.71	3.05	565082	HYP	LPXX	2	7180	0.19	0.002	0.14	
419.71	422.76	3.05	565083	HYP	LPXX	2	6980	0.12	0.002	0.07	
422.76	425.81	3.05	565084	HYP	LPXX	2	6720	0.08	0.002	0.10	
425.81	428.85	3.04	565085	HYP	LPXX	2	7200	0.08	0.002	0.10	
428.85	431.90	3.05	565086	HYP	LPXX	2	7160	0.09	0.002	0.10	
431.90	434.95	3.05	565087	HYP	LPXX	2	7040	0.08	0.008	0.07	
434.95	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-189	Total Depth	328.27 m		
Northing	254,200.14	Casing Depth	6.10 m		Left In
Easting	110,500.16	Survey Data	Azimuth	Dip	Instrument
Elevation	1388.28 m	Collar			
Core Size	HQ	157.58 m		-90.0°	Sperry Sun
Drilling Started	August 4, 1993	309.68 m	290°	-89.5°	Sperry Sun
Drilling Finished	August 9, 1993				
Logged by	W.D. Mann				

Purpose/Target: Test southwest limit of deposit.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	3.65	1.21	571367	CAP	WRGD	3/5	2020	<0.01	<0.001	0.17	
3.65	6.71	3.06	571368	CAP	WRGD	3/5	9820	<0.01	<0.001	0.51	
6.71	9.60	2.89	571369	CAP	WRGD	3/5	8640	<0.01	<0.001	0.17	
9.60	12.19	2.59	571370	CAP	WRGD	3/5	8240	<0.01	<0.001	0.21	
12.19	15.09	2.90	571371	CAP	WRGD	3/5	9360	<0.01	<0.001	0.31	
15.09	18.75	3.66	571372	CAP	WRGD	3/5	10780	<0.01	<0.001	0.34	
18.75	21.64	2.89	571373	CAP	WRGD	3/5	9440	<0.01	<0.001	0.14	
21.64	24.99	3.35	571374	CAP	WRGD	3/5	10500	<0.01	<0.001	0.17	
24.99	28.04	3.05	571375	CAP	WRGD	3/5	9820	<0.01	<0.001	0.10	
28.04	31.09	3.05	571376	CAP	WRGD	5/3	8940	<0.01	<0.001	0.14	
31.09	34.29	3.20	571377	CAP	WRGD	5/3	9680	<0.01	<0.001	0.07	
34.29	37.95	3.66	571378	CAP	WRGD	5/3	11720	<0.01	<0.001	0.10	
37.95	40.84	2.89	571379	SOX	WRGD	5/3	6580	<0.01	<0.001	0.34	
40.84	43.28	2.44	571380	SOX	WRGD	5/3	8180	<0.01	<0.001	0.21	
43.28	45.87	2.59	571381	TRN	WRGD	5/3	11400	<0.01	<0.001	0.07	
45.87	49.07	3.20	571382	TRN	WRGD	5/3	13180	0.01	<0.001	0.21	
49.07	51.97	2.90	571383	TRN	WRGD	5/3	12280	0.04	<0.001	0.17	
51.97	53.95	1.98	571384	TRN	WRGD	5/3	8400	0.07	<0.001	0.31	
53.95	57.00	3.05	571385	SUS	WRGD	5/3	11740	0.04	0.001	0.21	
57.00	60.05	3.05	571386	SUS	WRGD	5/3	12940	0.03	0.001	0.17	
60.05	62.33	2.28	571387	SUS	WRGD	5/3	10080	0.08	<0.001	0.17	
62.33	65.38	3.05	571388	SUS	WRGD	5/3	14480	0.04	<0.001	0.21	
65.38	68.58	3.20	571389	SUS	WRGD	5/1	15060	0.05	0.006	0.17	
68.58	71.63	3.05	571390	SUS	WRGD	5/1	14240	0.04	<0.001	0.14	
71.63	74.68	3.05	571391	SUS	WRGD	5/1	13660	0.10	0.001	0.14	
74.68	77.72	3.04	571392	SUS	LTDA	5/1	14340	0.03	<0.001	0.17	
77.72	80.77	3.05	571393	SUS	WRGD	5/1	14020	0.02	0.001	0.10	
80.77	83.97	3.20	571394	SUS	WRGD	5/1	14200	0.03	<0.001	0.10	
83.97	87.17	3.20	571395	SUS	WRGD	5/1	14760	0.07	<0.001	0.21	
87.17	90.37	3.20	571396	SUS	WRGD	5/1	13200	0.04	<0.001	0.14	
90.37	93.42	3.05	571397	SUS	WRGD	5/1	14120	0.13	<0.001	0.24	
93.42	95.40	1.98	571398	SUS	WRGD	5	7720	0.04	<0.001	0.14	
95.40	98.45	3.05	571399	SUS	WRGD	5	14920	0.03	<0.001	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.45	101.50	3.05	571400	SUS	WRGD	5	13460	0.06	<0.001	0.14	
101.50	104.55	3.05	571401	SUS	WRGD	5	12800	0.05	0.001	0.17	
104.55	106.38	1.83	571402	SUS	WRGD	5	7520	0.02	<0.001	0.07	
106.38	108.81	2.43	571403	SUS	WRGD	5	9760	0.03	<0.001	0.10	
108.81	111.86	3.05	571404	SUS	WRGD	5	11380	0.04	<0.001	0.17	
111.86	113.69	1.83	571405	SUS	WRGD	5	7000	0.11	0.008	0.24	
113.69	116.13	2.44	571406	SUS	WRGD	5	9520	0.05	0.004	0.17	
116.13	119.18	3.05	571407	SUS	WRGD	5/1	12580	0.05	<0.001	0.41	
119.18	121.62	2.44	571408	SUS	WRGD	5/1	9320	0.02	<0.001	0.10	
121.62	124.05	2.43	571409	SUS	WRGD	5/1	10660	0.03	<0.001	0.07	
124.05	127.10	3.05	571410	SUS	WRGD	5/1	10960	0.08	<0.001	0.14	
127.10	130.15	3.05	571411	SUS	WRGD	5/1	11700	0.04	<0.001	0.10	
130.15	133.20	3.05	571412	HYP	WRGD	5/1	12620	0.02	<0.001	0.10	
133.20	136.25	3.05	571413	HYP	WRGD	5/1	11360	0.02	<0.001	0.07	
136.25	139.29	3.04	571414	HYP	WRGD	5/1	12820	0.02	<0.001	0.14	
139.29	142.34	3.05	571415	HYP	WRGD	5/1	12320	0.03	<0.001	0.17	
142.34	145.39	3.05	571416	HYP	WRGD	5/1	11940	0.02	0.001	0.07	
145.39	148.44	3.05	571417	HYP	WRGD	5/1	11580	0.02	<0.001	0.10	
148.44	151.49	3.05	571418	HYP	WRGD	5/1	11900	0.03	<0.001	0.14	
151.49	154.53	3.04	571419	HYP	WRGD	5/1	11700	0.02	0.001	0.14	
154.53	157.58	3.05	571420	HYP	WRGD	5/1	12880	0.02	<0.001	0.10	
157.58	160.63	3.05	571421	HYP	WRGD	5	12060	0.03	0.001	0.14	
160.63	163.68	3.05	571422	HYP	WRGD	5	12320	0.03	<0.001	0.10	
163.68	166.73	3.05	571423	HYP	WRGD	5	11820	0.03	<0.001	0.24	
166.73	169.77	3.04	571424	HYP	WRGD	5	12160	0.03	<0.001	0.17	
169.77	172.82	3.05	571425	HYP	WRGD	5	12720	0.01	<0.001	0.27	
172.82	175.87	3.05	571426	HYP	WRGD	5	11760	0.02	0.001	0.07	
175.87	178.92	3.05	571427	HYP	WRGD	5	12500	0.02	0.001	0.07	
178.92	181.97	3.05	571428	HYP	WRGD	5	12400	0.02	<0.001	0.10	
181.97	185.01	3.04	571429	HYP	WRGD	5/1	11660	0.03	<0.001	0.17	
185.01	188.06	3.05	571430	HYP	WRGD	5/1	11760	0.02	<0.001	0.24	
188.06	191.11	3.05	571431	HYP	WRGD	5/1	13060	0.03	<0.001	0.10	
191.11	194.16	3.05	571432	HYP	WRGD	5/1	12260	0.07	<0.001	0.27	
194.16	197.21	3.05	571433	HYP	WRGD	5	12880	0.02	<0.001	0.21	
197.21	199.80	2.59	571434	HYP	WRGD	5	10740	0.03	<0.001	0.10	
199.80	202.08	2.28	571435	HYP	WRGD	5	9320	0.02	<0.001	0.17	
202.08	203.61	1.53	571436	HYP	WRGD	5	4240	0.01	0.001	0.41	
203.61	206.35	2.74	571437	HYP	WRGD	5	9560	0.02	<0.001	0.31	
206.35	208.18	1.83	571438	HYP	WRGD	5	5900	0.01	<0.001	0.17	
208.18	210.92	2.74	571439	HYP	WRGD	5	10900	0.03	<0.001	0.21	
210.92	213.97	3.05	571440	HYP	WRGD	5	11880	0.04	<0.001	0.21	
213.97	217.02	3.05	571441	HYP	WRGD	5	12120	0.18	0.001	2.11	
217.02	219.76	2.74	571442	HYP	WRGD	5	11180	0.04	<0.001	0.17	
219.76	222.35	2.59	571443	HYP	WRGD	5	9100	0.04	<0.001	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
222.35	226.16	3.81	571444	HYP	WRGD	5/1	17000	0.03	<0.001	0.14	
226.16	229.21	3.05	571445	HYP	WRGD	5/1	11840	0.03	0.001	0.14	
229.21	232.41	3.20	571446	HYP	WRGD	5/1	12860	0.03	<0.001	0.17	
232.41	235.00	2.59	571447	HYP	WRGD	5/1	10980	0.04	<0.001	0.14	
235.00	238.05	3.05	571448	HYP	WRGD	5/1	13300	0.04	<0.001	0.21	
238.05	241.10	3.05	571449	HYP	WRGD	5/1	13840	0.06	<0.001	0.07	
241.10	244.14	3.04	571450	HYP	WRGD	5/1	12840	0.06	0.001	0.14	
244.14	246.58	2.44	571451	HYP	WRGD	5	9260	0.03	0.001	0.07	
246.58	250.55	3.97	571452	HYP	WRGD	5	16420	0.02	<0.001	0.00	
250.55	253.59	3.04	571453	HYP	WRGD	5	12420	0.03	<0.001	0.10	
253.59	255.12	1.53	571454	HYP	WRGD	5	5780	0.04	<0.001	0.14	
255.12	258.17	3.05	571455	HYP	WRGD	5	10140	0.01	<0.001	0.07	
258.17	261.21	3.04	571456	HYP	WRGD	5	12800	0.02	<0.001	0.14	
261.21	262.43	1.22	571457	HYP	WRGD	5	5520	0.01	<0.001	0.14	
262.43	265.48	3.05	571458	HYP	WRGD	5	12880	0.04	<0.001	0.14	
265.48	267.92	2.44	571459	HYP	WRGD	5	8900	0.03	<0.001	0.14	
267.92	269.90	1.98	571460	HYP	WRGD	5	7780	0.01	<0.001	0.07	
269.90	272.95	3.05	571461	HYP	WRGD	5	3200	0.03	<0.001	0.10	
272.95	275.84	2.89	571462	HYP	WRGD	5	10480	0.01	<0.001	0.03	
275.84	278.89	3.05	571463	HYP	WRGD	5	12920	0.03	<0.001	0.03	
278.89	281.94	3.05	571464	HYP	WRGD	5	12640	0.02	<0.001	0.14	
281.94	284.38	2.44	571465	HYP	WRGD	5	10520	0.03	<0.001	0.24	
284.38	287.12	2.74	571466	HYP	WRGD	5	9260	0.01	<0.001	0.17	
287.12	290.17	3.05	571467	HYP	WRGD	5	11800	0.04	<0.001	0.21	
290.17	291.69	1.52	571468	HYP	WRGD	5	6520	0.04	<0.001	0.10	
291.69	294.74	3.05	571469	HYP	WRGD	5	13440	0.03	<0.001	0.14	
294.74	297.79	3.05	571470	HYP	WRGD	5	13060	0.04	<0.001	0.17	
297.79	300.84	3.05	571471	HYP	WRGD	5	12120	0.03	<0.001	0.31	
300.84	303.27	2.43	571472	HYP	WRGD	5	17180	0.03	<0.001	0.45	
303.27	306.32	3.05	571473	HYP	F/ZN	2/5	12440	0.01	<0.001	0.38	
306.32	309.68	3.36	571474	HYP	F/ZN	2/5	12320	0.03	0.002	0.14	
309.68	312.42	2.74	571475	HYP	F/ZN	2/5	9600	0.01	0.001	0.14	
312.42	314.86	2.44	571476	HYP	F/ZN	2/5	9300	0.05	<0.001	0.24	
314.86	317.91	3.05	571477	HYP	WRGD	5	13900	0.05	<0.001	0.27	
317.91	320.95	3.04	571478	HYP	WRGD	5	12340	0.03	<0.001	0.38	
320.95	324.00	3.05	571479	HYP	WRGD	5	13120	0.03	<0.001	0.21	
324.00	328.27	4.27	571480	HYP	WRGD	5	1680	0.02	<0.001	0.21	
328.27	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-190	Total Depth	440.74 m			
Northing	254,967.96	Casing Depth	4.88 m			Left In
Easting	111,365.76	Survey Data		Azimuth	Dip	Instrument
Elevation	1200.64 m	Collar	12.2 m	178°	-46.0°	Sperry Sun
Core Size	HQ		120.7 m	182°	-46.0°	Sperry Sun
Drilling Started	August 6, 1993		170.7 m	182°	-45.0°	Sperry Sun
Drilling Finished	August 15, 1993		304.8 m	183°	-43.5°	Sperry Sun
Logged by	P. Fischl		440.7 m	184°	-42.0°	Sperry Sun

Purpose/Target: To test for the latite breccia body encountered in hole 93-163, 270 m south and 95 m west of hole 93-190.

Comments: This hole encountered quartz monzonite (QMIE), milled microbreccia (MBNQ) and granodiorite (WRGD). Supergene sulphide zone is moderately mineralized with copper while the hypogene zone is weak to locally moderately mineralized.

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.88	4.88		OVB							
4.88	8.23	3.35	566283	CAP	QMIE	3/5	8340	0.03	0.014	0.27	
8.23	11.43	3.20	566284	CAP	QMIE	3/5	9240	0.04	0.019	0.24	
11.43	14.02	2.59	566285	CAP	QMIE	5/3	10100	0.03	0.061	0.10	
14.02	17.07	3.05	566286	CAP	QMIE	5/3	11620	0.02	0.057	0.10	
17.07	20.12	3.05	566287	CAP	QMIE	5/3	10360	0.03	0.047	0.38	
20.12	23.16	3.04	566288	CAP	QMIE	5/3	11280	0.05	0.040	0.31	
23.16	26.21	3.05	566289	CAP	QMIE	5/3	9680	0.04	0.045	0.82	
26.21	29.26	3.05	566290	CAP	QMIE	3/5	11840	0.03	0.048	0.27	
29.26	32.31	3.05	566291	CAP	QMIE	3	9720	0.05	0.028	0.31	
32.31	35.36	3.05	566292	CAP	QMIE	3/5	9020	0.06	0.019	0.51	
35.36	38.40	3.04	566293	CAP	QMIE	3/5	11220	0.03	0.022	0.38	
38.40	41.45	3.05	566294	CAP	QMIE	3/5	12300	0.04	0.039	0.38	
41.45	44.50	3.05	566295	SUS	QMIE	3/5	12000	0.06	0.040	0.51	
44.50	47.55	3.05	566296	SUS	QMIE	3/5	11940	0.03	0.034	0.51	
47.55	50.60	3.05	566297	SUS	QMIE	3/5	12320	0.11	0.010	0.48	
50.60	53.64	3.04	566298	SUS	QMIE	3/5	10900	0.08	0.051	0.24	
53.64	56.69	3.05	566299	SUS	QMIE	3/5	10600	0.09	0.041	0.31	
56.69	59.74	3.05	566300	SUS	QMIE	5/3	12000	0.36	0.036	0.10	
59.74	62.79	3.05	566301	SUS	QMIE	5/3	10620	0.47	0.026	0.24	
62.79	65.84	3.05	566302	SUS	MBNQ	5/3	12100	0.82	0.014	0.45	
65.84	68.88	3.04	566303	SUS	MBNQ	7/3	10680	0.86	0.032	0.48	
68.88	71.93	3.05	566304	SUS	MBNQ	5/3	12800	0.38	0.018	0.27	
71.93	74.98	3.05	566305	SUS	MBNQ	5/3	14000	0.34	0.014	0.21	
74.98	78.03	3.05	566306	SUS	MBNQ	5/3	10840	0.41	0.034	0.10	
78.03	81.08	3.05	566307	SUS	MBNQ	7/3	11580	0.56	0.050	0.34	
81.08	84.12	3.04	566308	SUS	MBNQ	7/3	12400	0.98	0.250	0.58	
84.12	87.17	3.05	566309	SUS	MBNQ	7/3	9640	1.50	0.045	0.96	
87.17	89.61	2.44	566310	SUS	MBNQ	7/3	9880	0.98	0.009	0.55	
89.61	91.59	1.98	566311	SUS	PPDQ	3	7320	0.53	0.004	0.31	
91.59	94.49	2.90	566312	SUS	PPDQ	5/3	10320	0.57	0.019	0.27	
94.49	97.54	3.05	566313	SUS	MBNQ	5	12100	0.59	0.015	0.41	
97.54	99.36	1.82	566314	SUS	MBNQ	7/3	7100	0.37	0.012	0.27	
99.36	102.41	3.05	566315	SUS	MBNQ	7/5	12100	0.43	0.008	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.41	105.46	3.05	566316	SUS	MBNQ	7/5	11720	0.40	0.015	0.34	
105.46	108.51	3.05	566317	SUS	MBNQ	5	12640	0.16	0.012	0.10	
108.51	111.56	3.05	566318	SUS	MBNQ	5	12240	0.26	0.019	0.14	
111.56	113.54	1.98	566319	SUS	MBNQ	5	8640	0.09	0.017	0.14	
113.54	116.43	2.89	566320	SUS	MBNQ	5/3	10940	0.21	0.026	0.17	
116.43	118.57	2.14	566321	SUS	MBNQ	5/3	8760	0.28	0.011	0.17	
118.57	120.70	2.13	566322	SUS	MBNQ	5/3	8220	0.38	0.011	0.17	
120.70	122.99	2.29	566323	SUS	MBNQ	7/5	8700	0.14	0.034	0.07	
122.99	126.07	3.08	566324	SUS	MBNQ	7/5	12280	0.48	0.018	0.24	
126.07	128.63	2.56	566325	SUS	MBNQ	7/5	10580	0.21	0.013	0.14	
128.63	131.37	2.74	566326	SUS	MBNQ	7/5	11140	0.23	0.016	0.24	
131.37	134.42	3.05	566327	SUS	MBNQ	7/5	12180	0.37	0.028	0.10	
134.42	135.94	1.52	566328	SUS	MBNQ	7/5	5100	0.19	0.033	0.10	
135.94	138.99	3.05	566329	SUS	MBNQ	7/5	12300	0.19	0.037	0.14	
138.99	142.04	3.05	566330	SUS	MBNQ	7	12360	0.32	0.024	0.21	
142.04	144.48	2.44	566331	SUS	MBNQ	7	9400	0.53	0.019	0.34	
144.48	147.52	3.04	566332	SUS	MBNQ	7/5	13360	0.26	0.014	0.27	
147.52	150.72	3.20	566333	SUS	MBNQ	5/7	12840	0.23	0.033	0.17	
150.72	153.77	3.05	566334	SUS	MBNQ	5/7	12520	0.19	0.032	0.21	
153.77	157.28	3.51	566335	SUS	MBNQ	7	12980	0.43	0.021	0.27	
157.28	160.32	3.04	566336	SUS	MBNQ	7/5	12420	0.26	0.021	0.34	
160.32	163.37	3.05	566337	SUS	MBNQ	7/5	12460	0.49	0.047	0.24	
163.37	166.42	3.05	566338	SUS	MBNQ	7/5	11680	0.35	0.026	0.31	
166.42	169.47	3.05	566339	SUS	MBNQ	7/5	12960	0.31	0.038	0.27	
169.47	172.52	3.05	566340	SUS	MBNQ	7/5	11960	0.60	0.037	0.24	
172.52	175.56	3.04	566341	SUS	MBNQ	7/5	12380	0.27	0.017	0.24	
175.56	178.61	3.05	566342	SUS	MBNQ	7	12180	0.54	0.015	0.58	
178.61	181.66	3.05	566343	SUS	MBNQ	7	12660	0.44	0.012	0.51	
181.66	184.71	3.05	566344	SUS	WRGD	7/3	12160	0.45	0.025	0.58	
184.71	187.76	3.05	566345	SUS	WRGD	6	11580	0.54	0.036	0.58	
187.76	190.80	3.04	566346	SUS	WRGD	6	12880	0.97	0.016	0.48	
190.80	193.85	3.05	566347	SUS	WRGD	6	11080	0.68	0.036	0.65	
193.85	196.29	2.44	566348	SUS	WRGD	6/7	7900	0.75	0.009	0.48	
196.29	199.34	3.05	566349	SUS	WRGD	6/7	12680	0.63	0.010	0.75	
199.34	202.39	3.05	566350	SUS	WRGD	6/5	13060	0.51	0.069	0.55	
202.39	205.44	3.05	566351	SUS	WRGD	3	13000	0.43	0.021	0.34	
205.44	208.48	3.04	566352	SUS	WRGD	3	12360	0.82	0.023	0.69	
208.48	211.53	3.05	566353	SUS	WRGD	6/7	12400	0.57	0.034	0.55	
211.53	214.58	3.05	566354	SUS	WRGD	6/7	12460	0.41	0.011	0.38	
214.58	217.63	3.05	566355	SUS	WRGD	6	12960	0.38	0.042	0.41	
217.63	220.68	3.05	566356	SUS	WRGD	6	11560	0.46	0.010	0.48	
220.68	224.33	3.65	566357	SUS	WRGD	6/5/7	14360	0.28	0.030	0.34	
224.33	227.38	3.05	566358	SUS	WRGD	6/5/7	13220	0.21	0.033	0.27	
227.38	230.43	3.05	566359	SUS	WRGD	6/5/7	12840	0.51	0.078	0.62	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.43	233.48	3.05	566360	SUS	WRGD	6/5/7	13580	0.66	0.024	0.79	
233.48	236.52	3.04	566361	SUS	WRGD	6/7	11300	0.93	0.018	0.58	
236.52	239.57	3.05	566362	HYP	WRGD	6/5/7	12000	0.37	0.004	0.41	
239.57	242.62	3.05	566363	HYP	WRGD	6/5/7	12600	0.31	0.013	0.51	
242.62	245.67	3.05	566364	HYP	WRGD	6/5/7	13180	0.57	0.024	0.72	
245.67	248.72	3.05	566365	HYP	WRGD	6/5/7	13820	0.48	0.012	0.62	
248.72	251.76	3.04	566366	HYP	WRGD	3/5/7	12280	0.31	0.019	0.31	
251.76	254.81	3.05	566367	HYP	WRGD	6/7/5	12120	0.32	0.009	0.38	
254.81	257.86	3.05	566368	HYP	WRGD	6/7	12780	0.19	0.004	0.27	
257.86	260.30	2.44	566369	HYP	WRGD	3/7/5	9060	0.15	0.008	0.21	
260.30	263.35	3.05	566370	HYP	WRGD	7/3	13120	0.19	0.007	0.38	
263.35	266.40	3.05	566371	HYP	WRGD	7/5	13220	0.38	0.010	0.41	
266.40	269.60	3.20	566372	HYP	WRGD	5/7	13960	0.26	0.020	0.38	
269.60	272.49	2.89	566373	HYP	WRGD	6/5	12680	0.27	0.005	0.31	
272.49	275.69	3.20	566374	HYP	WRGD	6/7	13300	0.28	0.024	0.27	
275.69	278.89	3.20	566375	HYP	WRGD	6/5	13520	0.29	0.016	0.27	
278.89	281.94	3.05	566376	HYP	WRGD	6/7	12600	0.15	0.006	0.17	
281.94	285.14	3.20	566377	HYP	WRGD	6/7	12640	0.16	0.006	0.17	
285.14	288.19	3.05	566378	HYP	WRGD	6/5/7	12960	0.21	0.004	0.21	
288.19	291.24	3.05	566379	HYP	WRGD	6/5	13480	0.26	0.007	0.21	
291.24	294.74	3.50	566380	HYP	LTXH	6/7	13900	0.34	0.004	0.24	
294.74	297.48	2.74	566381	HYP	WRGD	6/5	11820	0.13	0.005	0.14	
297.48	300.53	3.05	566382	HYP	WRGD	6/7	13220	0.16	0.010	0.21	
300.53	303.58	3.05	566383	HYP	WRGD	6/5	13240	0.13	0.002	0.48	
303.58	306.62	3.04	566384	HYP	WRGD	6/5	13500	0.17	0.022	0.17	
306.62	309.68	3.06	566385	HYP	WRGD	6/7/5	11800	0.12	0.018	0.17	
309.68	312.72	3.04	566386	HYP	WRGD	6/7/5	12600	0.12	0.009	0.14	
312.72	315.77	3.05	566387	HYP	WRGD	6/7/5	11840	0.18	0.009	0.10	
315.77	318.82	3.05	566388	HYP	WRGD	6/7/5	12800	0.11	0.007	0.21	
318.82	321.87	3.05	566389	HYP	WRGD	6/7/5	13100	0.09	0.003	0.21	
321.87	324.92	3.05	566390	HYP	WRGD	6/7/5	12680	0.13	0.006	0.07	
324.92	327.96	3.04	566391	HYP	WRGD	6/7	13340	0.18	0.003	0.24	
327.96	331.01	3.05	566392	HYP	WRGD	5/7	13280	0.24	0.013	0.21	
331.01	334.06	3.05	566393	HYP	WRGD	5	12860	0.26	0.009	0.17	
334.06	337.11	3.05	566394	HYP	WRGD	5/7	13820	0.37	0.072	0.34	
337.11	340.16	3.05	566395	HYP	WRGD	5/7	13540	1.02	0.109	1.36	
340.16	343.20	3.04	566396	HYP	WRGD	6/7	12520	0.18	0.008	0.24	
343.20	346.25	3.05	566397	HYP	WRGD	6/7	13740	0.16	0.011	0.17	
346.25	349.30	3.05	566398	HYP	WRGD	5/6	13760	0.09	0.003	0.10	
349.30	352.35	3.05	566399	HYP	WRGD	6/7	13360	0.12	0.004	0.17	
352.35	355.40	3.05	566400	HYP	WRGD	6	12220	0.08	0.010	0.34	
355.40	358.44	3.04	566401	HYP	WRGD	6	11580	0.17	0.003	0.24	
358.44	361.49	3.05	566402	HYP	WRGD	6/5	12800	0.10	0.002	0.14	
361.49	364.54	3.05	566403	HYP	WRGD	6/5	12600	0.10	0.004	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
364.54	367.59	3.05	566404	HYP	WRGD	6	13120	0.12	0.002	0.14	
367.59	370.64	3.05	566405	HYP	WRGD	5/3	12600	0.10	0.002	0.27	
370.64	373.68	3.04	566406	HYP	WRGD	5/3	13300	0.04	0.002	0.14	
373.68	376.73	3.05	566407	HYP	WRGD	6	13120	0.04	0.002	0.10	
376.73	379.78	3.05	566408	HYP	WRGD	5/6	12620	0.10	0.003	0.14	
379.78	382.83	3.05	566409	HYP	WRGD	6/5	14140	0.06	0.002	0.07	
382.83	385.88	3.05	566410	HYP	WRGD	6/5	13120	0.06	0.003	0.34	
385.88	388.92	3.04	566411	HYP	WRGD	6/5	12760	0.07	0.005	0.14	
388.92	391.97	3.05	566412	HYP	WRGD	6/5	11820	0.07	0.003	0.17	
391.97	395.02	3.05	566413	HYP	WRGD	6/5	12000	0.04	0.003	0.07	
395.02	398.07	3.05	566414	HYP	WRGD	5/6	12460	0.08	0.003	0.00	
398.07	401.12	3.05	566415	HYP	WRGD	5	12780	0.07	0.004	0.03	
401.12	404.16	3.04	566416	HYP	WRGD	5	13840	0.09	0.003	0.03	
404.16	407.21	3.05	566417	HYP	WRGD	5	13100	0.05	0.003	0.17	
407.21	410.26	3.05	566418	HYP	WRGD	5/3	13600	0.04	0.002	0.10	
410.26	413.31	3.05	566419	HYP	WRGD	5	13780	0.03	0.004	0.07	
413.31	416.36	3.05	566420	HYP	WRGD	5	14120	0.04	0.003	0.14	
416.36	419.40	3.04	566421	HYP	WRGD	6/5	13620	0.03	0.003	<0.03	
419.40	422.45	3.05	566422	HYP	WRGD	6/5	13760	0.04	0.003	<0.03	
422.45	425.50	3.05	566423	HYP	WRGD	6/5	13960	0.03	0.003	<0.03	
425.50	428.55	3.05	566424	HYP	WRGD	6/5	13140	0.04	0.003	<0.03	
428.55	431.60	3.05	566425	HYP	WRGD	6/5	12520	0.04	0.003	<0.03	
431.60	434.64	3.04	566426	HYP	WRGD	6/5	13140	0.02	0.003	<0.03	
434.64	437.69	3.05	566427	HYP	WRGD	6/5	13200	0.03	0.003	<0.03	
437.69	440.74	3.05	566428	HYP	WRGD	6/5	13620	0.04	0.003	0.07	
440.74	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-191	**Total Depth**	493.47 m		
Northing	254,600.37	**Casing Depth**	9.14 m		Left Out
Easting	110,799.99	**Survey Data**	**Azimuth**	**Dip**	**Instrument**
Elevation	1318.21 m	**Collar**			
Core Size	HQ	157.58 m	088°	-89.3°	Sperry Sun
Drilling Started	August 9, 1993	306.93 m	040°	-89.4°	Sperry Sun
Drilling Finished	August 17, 1993	462.08 m	012°	-89.0°	Sperry Sun
Logged by	W.D. Mann				

Purpose/Target: Test western edge of deposit.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.88	4.88		OVB							
4.88	8.53	3.65	571481	CAP	MBCH	7/3	7460	0.02	0.012	0.27	
8.53	9.75	1.22	571482	CAP	MBCH	7/3	1660	0.02	0.023	0.21	
9.75	12.80	3.05	571483	CAP	MBCH	7/3	8820	0.03	0.005	0.14	
12.80	15.55	2.75	571484	CAP	PPDP	7/3	10620	0.03	0.017	0.27	
15.55	18.90	3.35	571485	CAP	PPDP	7/3	10880	0.04	0.003	0.17	
18.90	21.64	2.74	571486	CAP	PPDP	7/3	9040	0.04	0.010	0.14	
21.64	24.99	3.35	571487	CAP	PPDP	7/3	10660	0.03	0.002	0.10	
24.99	28.04	3.05	571488	CAP	PPDP	7/3	10300	0.05	0.003	0.45	
28.04	31.09	3.05	571489	CAP	PPDP	3	9000	0.03	0.008	0.99	
31.09	33.99	2.90	571490	CAP	PPDP	3	10680	0.04	0.003	0.10	
33.99	37.19	3.20	571491	SOX	PPDP	7/3	10920	0.07	0.003	0.14	
37.19	39.78	2.59	571492	SOX	PPDP	7/3	10540	0.09	0.005	0.14	
39.78	42.98	3.20	571493	SOX	MBCH	7/5	11660	0.19	0.008	0.27	
42.98	46.02	3.04	571494	SOX	MBCH	7/5	12100	0.16	0.014	0.38	
46.02	49.07	3.05	571495	SOX	MBCH	7/5	12920	0.15	0.011	0.27	
49.07	52.27	3.20	571496	SOX	MBCH	7	13440	0.14	0.006	0.27	
52.27	55.47	3.20	571497	SOX	MBCH	7	12800	0.17	0.011	0.34	
55.47	59.44	3.97	571498	SOX	MBCH	7	16100	0.32	0.034	0.38	
59.44	62.48	3.04	571499	TRN	MBCH	7/4	12960	0.11	0.039	0.21	
62.48	65.53	3.05	571500	TRN	MBCH	7/4	12880	0.13	0.017	0.24	
65.53	67.97	2.44	571501	TRN	MBCH	7/4	9340	0.13	0.012	0.21	
67.97	71.63	3.66	571502	TRN	MBCH	7/4	14520	0.13	0.006	0.21	
71.63	74.68	3.05	571503	TRN	MBCH	7/4	12780	0.20	0.017	0.38	
74.68	77.72	3.04	571504	TRN	MBCH	7/4	12000	0.18	0.074	0.21	
77.72	79.86	2.14	571505	TRN	PPDP	7/4	7060	0.18	0.021	0.21	
79.86	82.91	3.05	571506	TRN	PPDP	7/4	11520	0.10	0.020	0.17	
82.91	85.95	3.04	571507	TRN	MBCH	7/4	11980	0.20	0.045	0.27	
85.95	89.00	3.05	571508	TRN	MBCH	7/4	12160	0.18	0.018	0.17	
89.00	90.53	1.53	571509	TRN	MBCH	7/4	5540	0.21	0.007	0.27	
90.53	93.57	3.04	571510	TRN	MBCH	7/4	11320	0.18	0.004	0.27	
93.57	96.62	3.05	571511	TRN	MBCH	7/4	11740	0.17	0.004	0.27	
96.62	99.06	2.44	571512	SUS	MBCH	7/4	7980	0.18	0.008	0.17	
99.06	102.11	3.05	571513	SUS	MBCH	7/4	11400	0.19	0.010	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.11	105.16	3.05	571514	SUS	MBCH	7/4	12380	0.19	0.013	0.21	
105.16	108.20	3.04	571515	SUS	MBCH	7/4	11720	0.17	0.028	0.14	
108.20	111.40	3.20	571516	SUS	MBCH	7/4	11920	0.19	0.014	0.21	
111.40	114.60	3.20	571517	SUS	MBCH	7/4	12840	0.17	0.016	0.24	
114.60	117.96	3.36	571518	SUS	MBCH	7/4	12280	0.18	0.023	0.21	
117.96	120.55	2.59	571519	SUS	MBCH	7/4	10500	0.24	0.007	0.17	
120.55	123.44	2.89	571520	SUS	MBCH	7/4	10480	0.22	0.005	0.10	
123.44	125.27	1.83	571521	SUS	MBCH	7/4	6660	0.19	0.003	0.14	
125.27	128.32	3.05	571522	SUS	MBCH	7/4	10260	0.23	0.002	0.14	
128.32	131.67	3.35	571523	SUS	MBCH	7/4	12280	0.26	0.012	0.10	
131.67	134.72	3.05	571524	SUS	PPDP	7	9680	0.18	0.018	0.07	
134.72	137.47	2.75	571525	SUS	PPDP	7	10440	0.09	0.005	0.07	
137.47	140.97	3.50	571526	SUS	PPDP	7	12180	0.09	0.001	0.10	
140.97	145.39	4.42	571527	HYP	PPDP	7/5	17420	0.14	0.003	0.17	
145.39	148.44	3.05	571528	HYP	PPDP	7/5	13700	0.05	0.003	0.10	
148.44	150.88	2.44	571529	HYP	PPDP	7/5	9640	0.07	0.001	0.14	
150.88	153.31	2.43	571530	HYP	PPDP	7/5	10000	0.05	0.008	0.10	
153.31	155.45	2.14	571531	HYP	PPDP	7/5	8460	0.04	0.017	0.07	
155.45	157.28	1.83	571532	HYP	PPDP	7/5	6700	0.05	0.008	0.07	
157.28	160.32	3.04	571533	HYP	PPDP	7/5	12900	0.05	0.009	0.10	
160.32	163.37	3.05	571534	HYP	PPDP	7/5	14140	0.04	0.010	0.07	
163.37	166.27	2.90	571535	HYP	PPDP	7/5	12760	0.05	0.004	0.07	
166.27	168.55	2.28	571536	HYP	PPDP	7/5	10560	0.03	0.002	0.00	
168.55	171.30	2.75	571537	HYP	PPDP	7/5	9800	0.03	0.001	0.00	
171.30	175.11	3.81	571538	HYP	PPDP	7/5	15700	0.05	0.002	0.07	
175.11	178.31	3.20	571539	HYP	PPDP	7/5	13160	0.06	0.024	<0.03	
178.31	181.36	3.05	571540	HYP	PPDP	7/5	13260	0.09	0.044	0.10	
181.36	185.01	3.65	571541	HYP	PPDP	7/5	16500	0.04	0.003	<0.03	
185.01	188.06	3.05	571542	HYP	PPDP	7/5	13880	0.06	0.006	<0.03	
188.06	191.11	3.05	571543	HYP	PPDP	7/5	14120	0.04	0.001	<0.03	
191.11	194.16	3.05	571544	HYP	MBFW	7/5	12440	0.08	0.012	0.03	
194.16	197.21	3.05	571545	HYP	MBFW	7/5	13940	0.10	0.008	0.03	
197.21	200.25	3.04	571546	HYP	WRDR	7/5	13000	0.14	0.009	0.14	
200.25	203.00	2.75	571547	HYP	WRDR	7/5	11980	0.11	0.006	0.10	
203.00	206.04	3.04	571548	HYP	WRDR	7/5	14440	0.13	0.012	0.10	
206.04	209.25	3.21	571549	HYP	WRDR	7/5	13780	0.14	0.008	0.14	
209.25	212.29	3.04	571550	HYP	WRGD	7/5	12820	0.14	0.015	0.10	
212.29	215.34	3.05	571551	HYP	WRGD	7/5	12200	0.12	0.007	0.10	
215.34	218.54	3.20	571552	HYP	WRGD	7/5	13700	0.11	0.010	0.10	
218.54	221.59	3.05	571553	HYP	WRGD	7/5	13740	0.11	0.019	0.07	
221.59	224.64	3.05	571554	HYP	WRGD	7/5	12440	0.14	0.011	0.14	
224.64	227.69	3.05	571555	HYP	WRGD	7/5	13080	0.16	0.007	0.10	
227.69	230.73	3.04	571556	HYP	WRGD	7/5	13740	0.13	0.014	0.10	
230.73	233.78	3.05	571557	HYP	WRGD	7/5	13180	0.13	0.013	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	571558	HYP	WRGD	7/5	13840	0.10	0.016	0.14	
236.83	239.88	3.05	571559	HYP	WRGD	7/5	13660	0.13	0.004	0.17	
239.88	242.93	3.05	571560	HYP	WRGD	7/5	14400	0.09	0.007	0.10	
242.93	245.97	3.04	571561	HYP	WRGD	7/5	14200	0.12	0.014	0.10	
245.97	249.02	3.05	571562	HYP	WRGD	7/5	13180	0.12	0.011	0.10	
249.02	252.07	3.05	571563	HYP	WRGD	7/5	12820	0.11	0.007	0.10	
252.07	255.12	3.05	571564	HYP	WRGD	7/5	14000	0.19	0.013	0.21	
255.12	258.17	3.05	571565	HYP	WRGD	7/5	13140	0.14	0.007	0.14	
258.17	261.21	3.04	571566	HYP	WRGD	7/5	13900	0.09	0.009	0.10	
261.21	264.26	3.05	571567	HYP	WRGD	7/5	12860	0.11	0.009	0.10	
264.26	267.31	3.05	571568	HYP	WRGD	7/5	13680	0.10	0.007	0.07	
267.31	270.36	3.05	571569	HYP	WRGD	7/5	13660	0.09	0.005	0.10	
270.36	273.41	3.05	571570	HYP	WRGD	7/5	13420	0.09	0.005	0.07	
273.41	276.46	3.05	571571	HYP	WRGD	7/5	13080	0.13	0.005	0.14	
276.46	279.50	3.04	571572	HYP	WRGD	7/5	13720	0.14	0.010	0.14	
279.50	282.55	3.05	571573	HYP	WRGD	7/5	13420	0.12	0.005	0.14	
282.55	285.60	3.05	571574	HYP	WRGD	7/5	12960	0.10	0.006	0.10	
285.60	288.65	3.05	571575	HYP	WRDR	7/5	13260	0.09	0.009	0.07	
288.65	291.70	3.05	571576	HYP	WRDR	7/5	12380	0.13	0.006	0.07	
291.70	294.74	3.04	571577	HYP	MBNW	7/5	11660	0.13	0.016	0.07	
294.74	297.79	3.05	571578	HYP	MBNW	7/5	12740	0.14	0.009	0.14	
297.79	300.84	3.05	571579	HYP	MBNW	7/5	11600	0.07	0.006	<0.03	
300.84	303.89	3.05	571580	HYP	MBNW	7/5	11660	0.09	0.041	0.03	
303.89	306.93	3.04	571581	HYP	WRGD	7/5	12180	0.07	0.005	<0.03	
306.93	309.98	3.05	571582	HYP	WRGD	7/5	12920	0.08	0.007	0.07	
309.98	313.03	3.05	571583	HYP	WRGD	7/5	12880	0.09	0.012	0.07	
313.03	316.08	3.05	571584	HYP	WRGD	7/5	12840	0.08	0.006	0.07	
316.08	319.13	3.05	571585	HYP	WRGD	7/5	12420	0.11	0.009	0.03	
319.13	322.17	3.04	571586	HYP	WRGD	7/5	11940	0.10	0.012	0.07	
322.17	325.22	3.05	571587	HYP	WRGD	7/5	12860	0.07	0.026	<0.03	
325.22	328.27	3.05	571588	HYP	WRGD	7/5	12820	0.10	0.016	0.07	
328.27	331.32	3.05	571589	HYP	WRGD	7/5	12740	0.08	0.015	0.07	
331.32	334.37	3.05	571590	HYP	WRGD	7/5	12760	0.15	0.009	0.14	
334.37	337.41	3.04	571591	HYP	MBCW	7/5	12200	0.06	0.020	0.10	
337.41	340.46	3.05	571592	HYP	MBCW	7/5	12960	0.11	0.014	0.10	
340.46	343.51	3.05	571593	HYP	MBCW	7/5	12900	0.10	0.006	0.14	
343.51	346.56	3.05	571594	HYP	MBCW	5	13280	0.21	0.018	0.27	
346.56	349.61	3.05	571595	HYP	MBCW	7/5	13260	0.13	0.040	0.24	
349.61	352.65	3.04	571596	HYP	MBCW	7/5	13720	0.08	0.006	0.14	
352.65	355.70	3.05	571597	HYP	MBCW	7/5	12120	0.05	0.010	0.10	
355.70	358.75	3.05	571598	HYP	MBCW	7/5	12860	0.10	0.012	0.07	
358.75	361.80	3.05	571599	HYP	MBCW	7/5	12960	0.11	0.007	0.10	
361.80	364.85	3.05	571600	HYP	MBCW	7/5	12600	0.07	0.014	0.10	
364.85	367.89	3.04	571601	HYP	WRGD	7/5	12420	0.13	0.017	0.07	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	571602	HYP	WRGD	7/5	12600	0.09	0.018	0.03	
370.94	373.99	3.05	571603	HYP	WRGD	7/5	12360	0.11	0.009	0.07	
373.99	377.04	3.05	571604	HYP	WRGD	7/5	11060	0.07	0.016	<0.03	
377.04	380.09	3.05	571605	HYP	WRGD	7/5	11800	0.08	0.017	<0.03	
380.09	383.13	3.04	571606	HYP	WRGD	7/5	11120	0.06	0.029	<0.03	
383.13	386.18	3.05	571607	HYP	WRGD	7/5	12700	0.06	0.018	0.03	
386.18	388.01	1.83	571608	HYP	WRGD	7/5	6480	0.03	0.014	<0.03	
388.01	391.06	3.05	571609	HYP	WRGD	7/5	11540	0.05	0.012	<0.03	
391.06	392.28	1.22	571610	HYP	WRGD	7/5	5080	0.07	0.010	0.03	
392.28	395.33	3.05	571611	HYP	WRGD	7/5	12520	0.05	0.038	<0.03	
395.33	398.37	3.04	571612	HYP	WRGD	7/5	9600	0.04	0.013	0.07	
398.37	401.42	3.05	571613	HYP	WRGD	7/5	11560	0.06	0.025	<0.03	
401.42	404.47	3.05	571614	HYP	WRGD	7/5	11820	0.06	0.013	<0.03	
404.47	407.52	3.05	571615	HYP	WRGD	7/5	12480	0.09	0.034	0.07	
407.52	410.57	3.05	571616	HYP	WRGD	7/5	12560	0.03	0.014	<0.03	
410.57	413.61	3.04	571617	HYP	WRGD	7/5	12840	0.04	0.013	<0.03	
413.61	416.66	3.05	571618	HYP	WRGD	7/5	12220	0.06	0.012	<0.03	
416.66	419.71	3.05	571619	HYP	WRGD	7/5	12520	0.03	0.027	<0.03	
419.71	422.76	3.05	571620	HYP	WRGD	7/5	12400	0.05	0.020	<0.03	
422.76	425.81	3.05	571621	HYP	WRGD	7/5	12200	0.06	0.017	<0.03	
425.81	428.85	3.04	571622	HYP	WRGD	7/5	13340	0.07	0.014	<0.03	
428.85	431.90	3.05	571623	HYP	WRGD	7/5	12000	0.07	0.016	<0.03	
431.90	434.95	3.05	571624	HYP	WRGD	7/5	12960	0.06	0.025	<0.03	
434.95	436.63	1.68	571625	HYP	WRGD	7	6720	0.06	0.023	0.03	
436.63	439.67	3.04	571626	HYP	WRGD	7	12700	0.05	0.022	<0.03	
439.67	442.72	3.05	571627	HYP	WRGD	7	12760	0.05	0.034	0.24	
442.72	445.92	3.20	571628	HYP	WRGD	7	13020	0.04	0.035	<0.03	
445.92	448.97	3.05	571629	HYP	WRGD	7	11860	0.11	0.037	0.03	
448.97	452.63	3.66	571630	HYP	MBNW	7/5	15220	0.02	0.031	<0.03	
452.63	455.83	3.20	571631	HYP	MBNW	7/5	12600	0.02	0.035	<0.03	
455.83	458.88	3.05	571632	HYP	WRGD	7/5	12440	0.02	0.018	<0.03	
458.88	462.08	3.20	571633	HYP	WRGD	7/5	12740	0.05	0.037	<0.03	
462.08	465.28	3.20	571634	HYP	WRGD	7/5	13000	0.05	0.047	<0.03	
465.28	468.48	3.20	571635	HYP	WRGD	7/5	12920	0.06	0.018	<0.03	
468.48	471.53	3.05	571636	HYP	WRGD	7/5	12220	0.05	0.022	<0.03	
471.53	474.57	3.04	571637	HYP	WRGD	7/5	11960	0.04	0.023	<0.03	
474.57	477.62	3.05	571638	HYP	WRGD	7/5	12560	0.05	0.025	<0.03	
477.62	480.67	3.05	571639	HYP	WRGD	7/5	12240	0.05	0.022	<0.03	
480.67	483.72	3.05	571640	HYP	WRGD	7/5	13260	0.08	0.064	<0.03	
483.72	486.77	3.05	571641	HYP	WRGD	7/5	12240	0.06	0.022	0.10	
486.77	489.81	3.04	571642	HYP	WRGD	7/5	13320	0.05	0.019	<0.03	
489.81	493.47	3.66	571643	HYP	WRGD	7/5	15660	0.07	0.013	<0.03	
493.47	END OF HOLE										

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Hole Number	93-192	Total Depth	455.07 m		
Northing	254,863.91	Casing Depth	7.62 m		Left Out
Easting	111,367.67	Survey Data	Azimuth	Dip	Instrument
Elevation	1236.99 m	Collar	90°	-55.0°	Brunton Compass
Core Size	HQ	77.11 m	87°	-55.0°	Sperry Sun
Drilling Started	August 14, 1993	153.31 m	87°	-57.0°	Sperry Sun
Drilling Finished	August 26, 1993	228.60 m	87°	-59.0°	Sperry Sun
Logged by	M. Dittrick	320.04 m	87°	-60.5°	Sperry Sun
		395.63 m	88°	-61.5°	Sperry Sun
		453.54 m	87°	-62.0°	Sperry Sun

Purpose/Target: Hole 93-192 was drilled at an angle of -55° in order to locate the position and orientation of the Casino Creek Fault.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.10	6.10		OVB							
6.10	7.32	1.22	575344	SOX	MBFH	7/4	1860	0.04	0.008	0.41	
7.32	10.36	3.04	575345	SOX	MBFH	7/4	4700	0.02	0.013	0.31	
10.36	13.41	3.05	575346	SOX	MBFH	7/4	7500	0.01	0.025	0.14	
13.41	16.15	2.74	575347	SOX	MBFH	7/4	5360	0.01	0.028	0.34	
16.15	19.05	2.90	575348	SOX	MBFH	7/4	7260	0.02	0.017	0.10	
19.05	22.25	3.20	575349	SOX	MBFH	7/4	8420	0.01	0.024	0.34	
22.25	25.30	3.05	575350	SOX	MBFH	7/4	8460	0.01	0.018	0.17	
25.30	28.35	3.05	575351	SOX	MBFH	7/4	8260	0.01	0.017	0.31	
28.35	29.87	1.52	575352	SOX	MBFH	7/4	5500	0.02	0.019	0.24	
29.87	32.77	2.90	575353	SOX	MBFH	7/4	9280	0.03	0.016	0.34	
32.77	35.66	2.89	575354	SOX	MBFH	7/4	9260	0.02	0.048	0.48	
35.66	39.01	3.35	575355	SOX	MBFH	7/4	11300	0.02	0.016	0.21	
39.01	40.54	1.53	575356	SOX	MBFH	4/7	5740	0.05	0.015	0.38	
40.54	43.59	3.05	575357	SOX	MBFH	4/7	9600	0.01	0.016	0.21	
43.59	46.63	3.04	575358	SOX	MBFH	4/7	10640	0.01	0.014	0.10	
46.63	49.68	3.05	575359	SOX	MBFH	4/7	7820	0.01	0.024	0.17	
49.68	52.73	3.05	575360	SOX	MBFH	4/7	5660	0.02	0.041	0.10	
52.73	55.78	3.05	575361	SOX	MBFH	4/7	8480	0.03	0.014	0.21	
55.78	58.83	3.05	575362	SOX	MBFH	4/7	7600	0.01	0.021	0.21	
58.83	61.87	3.04	575363	SOX	MBFH	4/7	11280	0.08	0.007	0.14	
61.87	63.40	1.53	575364	SOX	MBFH	4/7	6400	0.03	0.011	0.17	
63.40	66.29	2.89	575365	SOX	MBFH	4/7	11200	0.03	0.012	0.14	
66.29	69.49	3.20	575366	SOX	MBFH	4/7	11900	0.09	0.017	0.21	
69.49	71.02	1.53	575367	SOX	MBFH	4/7	5800	0.02	0.028	0.14	
71.02	74.07	3.05	575368	SOX	MBFH	4/7	10980	0.04	0.048	0.17	
74.07	77.11	3.04	575369	SOX	MBFH	4/7	12880	0.03	0.031	0.14	
77.11	80.16	3.05	575370	SOX	MBFH	4/7	12200	0.03	0.012	0.10	
80.16	83.21	3.05	575371	SOX	MBFH	4/7	11540	0.08	0.006	0.21	
83.21	86.26	3.05	575372	SOX	MBFH	4/7	10880	0.06	0.009	0.27	
86.26	89.31	3.05	575373	SOX	MBFH	4/7	11020	0.04	0.014	0.14	
89.31	92.35	3.04	575374	SOX	MBFH	4/7	13000	0.04	0.011	0.17	
92.35	95.40	3.05	575375	SOX	MBFH	4/7	10200	0.07	0.011	0.27	
95.40	98.45	3.05	575376	SOX	MBFH	4/7	10740	0.17	0.034	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.45	101.50	3.05	575377	SOX	MBFH	4/7	10460	0.13	0.008	0.17	
101.50	104.55	3.05	575378	SUS	F/ZN	4	8560	0.21	0.012	0.10	
104.55	107.59	3.04	575379	SUS	QXAX	4	10320	0.23	0.004	0.07	
107.59	110.64	3.05	575380	SUS	QXAX	4	11400	0.15	0.008	<0.03	
110.64	113.69	3.05	575381	SUS	QXAX	4	12920	0.18	0.005	0.03	
113.69	116.74	3.05	575382	SUS	QXAX	4	12000	0.27	0.010	0.10	
116.74	119.79	3.05	575383	SUS	QXAX	4	11520	0.09	0.003	<0.03	
119.79	122.83	3.04	575384	SUS	QXAX	4	12620	0.15	0.002	<0.03	
122.83	125.88	3.05	575385	SUS	QXAX	4	8020	0.15	0.006	0.07	
125.88	127.41	1.53	575386	SUS	QXAX	4	6100	0.28	0.004	0.14	
127.41	130.45	3.04	575387	SUS	QXAX	5	12660	0.89	0.006	0.24	
130.45	133.50	3.05	575388	SUS	QXAX	5	12100	1.36	0.014	0.72	
133.50	136.55	3.05	575389	SUS	QXAX	5	12920	0.22	0.006	0.14	
136.55	139.60	3.05	575390	SUS	QXAX	5	9260	0.40	0.005	0.27	
139.60	142.65	3.05	575391	SUS	QXAX	5	9100	0.53	0.003	0.14	
142.65	145.69	3.04	575392	SUS	QXAX	4/3	10460	0.38	0.003	0.21	
145.69	148.13	2.44	575393	SUS	QXAX	4/3	6560	0.51	0.003	0.17	
148.13	151.79	3.66	575394	SUS	QXAX	4/3	10460	0.32	0.005	0.10	
151.79	154.84	3.05	575395	SUS	QXAX	4/3	11700	0.39	0.007	0.10	
154.84	157.87	3.03	575396	SUS	QXAX	5/3	10520	0.26	0.014	0.17	
157.87	160.93	3.06	575397	SUS	QXAX	5	11200	0.43	0.006	0.14	
160.93	163.98	3.05	575398	SUS	QXAX	3	10260	0.17	0.005	0.10	
163.98	167.03	3.05	575399	SUS	QXAX	3	11120	0.20	0.005	0.17	
167.03	170.07	3.04	575400	SUS	QXAX	3	9760	0.14	0.003	0.17	
170.07	173.12	3.05	575401	SUS	F/ZN	3	10200	0.19	0.005	0.21	
173.12	176.17	3.05	575402	SUS	F/ZN	3	10900	0.00	0.001	<0.03	
176.17	179.22	3.05	575403	SUS	F/ZN	3	9760	0.11	0.008	0.14	
179.22	182.27	3.05	575404	SUS	F/ZN	3	10760	0.08	0.007	<0.03	
182.27	185.62	3.35	575405	SUS	F/ZN	3	7160	0.29	0.011	0.21	
185.62	188.37	2.75	575406	SUS	F/ZN	3	7800	0.31	0.005	0.27	
188.37	191.41	3.04	575407	SUS	F/ZN	3	9520	0.28	0.008	0.21	
191.41	194.46	3.05	575408	SUS	F/ZN	3	9200	0.57	0.065	0.55	
194.46	197.51	3.05	575409	SUS	F/ZN	3	7220	0.39	0.032	0.38	
197.51	200.56	3.05	575410	SUS	F/ZN	3	8200	0.55	0.033	0.55	
200.56	203.61	3.05	575411	SUS	F/ZN	3	6700	0.49	0.037	0.38	
203.61	206.65	3.04	575412	SUS	F/ZN	3	7420	0.30	0.006	0.21	
206.65	209.70	3.05	575413	SUS	F/ZN	3	6760	0.43	0.006	0.17	
209.70	212.45	2.75	575414	SUS	F/ZN	3	7120	0.81	0.025	0.55	
212.45	215.49	3.04	575415	SUS	F/ZN	3	9320	0.23	0.008	0.10	
215.49	218.39	2.90	575416	SUS	F/ZN	3	7760	0.47	0.012	0.31	
218.39	221.59	3.20	575417	SUS	F/ZN	3	8500	0.45	0.024	0.24	
221.59	224.94	3.35	575418	SUS	F/ZN	3	7020	0.31	0.020	0.21	
224.94	227.99	3.05	575419	HYP	QMFX	4/3	12500	0.21	0.014	0.17	
227.99	231.04	3.05	575420	HYP	QMFX	4/3	9520	0.19	0.020	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
231.04	234.09	3.05	575421	HYP	QMFX	4/3	10400	0.18	0.007	0.10	
234.09	236.83	2.74	575422	HYP	LTDE	3	9700	0.01	0.001	<0.03	
236.83	240.18	3.35	575423	HYP	LTDE	3	12300	0.01	0.001	<0.03	
240.18	243.23	3.05	575424	HYP	QMFX	5	11400	0.26	0.021	0.34	
243.23	246.28	3.05	575425	HYP	WRGD	4/3	9740	0.18	0.023	0.17	
246.28	247.80	1.52	575426	HYP	WRGD	4/3	5620	0.20	0.020	0.17	
247.80	250.55	2.75	575427	HYP	WRGD	4/3	8560	0.21	0.017	0.24	
250.55	252.37	1.82	575428	HYP	WRGD	4/3	7500	0.20	0.025	0.27	
252.37	255.42	3.05	575429	HYP	WRGD	4/3	11220	0.13	0.052	0.17	
255.42	258.47	3.05	575430	HYP	QXBX	4/3	9900	0.07	0.147	0.03	
258.47	261.52	3.05	575431	HYP	QXBX	4/3	11600	0.22	0.070	0.24	
261.52	264.57	3.05	575432	HYP	QXBX	4/3	10220	0.16	0.071	0.14	
264.57	267.61	3.04	575433	HYP	QXBX	4/3	13100	0.12	0.037	0.10	
267.61	270.66	3.05	575434	HYP	QXBX	4/3	11180	0.11	0.054	0.10	
270.66	273.71	3.05	575435	HYP	QXBX	4/3	9100	0.11	0.078	0.17	
273.71	276.76	3.05	575436	HYP	F/ZN	3	2760	0.01	0.004	<0.03	
276.76	279.81	3.05	575437	HYP	QXBX	4/3	8740	0.21	0.097	0.34	
279.81	282.09	2.28	575438	HYP	QXBX	4/3	14620	0.20	0.044	0.24	
282.09	285.90	3.81	575439	HYP	QXBX	4/3	11420	0.16	0.038	0.14	
285.90	288.95	3.05	575440	HYP	QXBX	4/3	12620	0.29	0.074	0.31	
288.95	292.00	3.05	575441	HYP	QXBX	4/3	13530	0.16	0.023	0.17	
292.00	295.05	3.05	575442	HYP	QXBX	4/3	10520	0.20	0.021	0.55	
295.05	298.09	3.04	575443	HYP	QXBX	4/3	12780	0.31	0.059	0.27	
298.09	301.14	3.05	575444	HYP	IXPA	4/3	13600	0.41	0.049	0.48	
301.14	304.19	3.05	575445	HYP	IXPA	4/3	11240	0.34	0.065	0.34	
304.19	307.24	3.05	575446	HYP	IXPA	4/3	11560	0.28	0.085	0.34	
307.24	310.29	3.05	575447	HYP	IXPA	4/3	12480	0.41	0.232	0.58	
310.29	313.33	3.04	575448	HYP	IXPA	4/3	13360	0.51	0.232	0.69	
313.33	316.38	3.05	575449	HYP	IXPA	4/3	13400	0.47	0.088	0.79	
316.38	319.43	3.05	575450	HYP	IXPA	4/3	12380	0.72	0.126	1.20	
319.43	322.48	3.05	575501	HYP	IXPA	6	12680	0.73	0.124	1.06	
322.48	325.53	3.05	575502	HYP	IXPA	6	12560	0.63	0.054	0.86	
325.53	328.57	3.04	575503	HYP	IXPA	6	11000	0.45	0.060	0.51	
328.57	330.10	1.53	575504	HYP	IXPA	6	5000	0.57	0.024	0.69	
330.10	332.84	2.74	575505	HYP	IXPA	6	11450	0.48	0.031	0.55	
332.84	334.67	1.83	575506	HYP	PPDX	6	7250	0.12	0.002	0.10	
334.67	338.33	3.66	575507	HYP	PPDX	6	11350	0.21	0.003	0.21	
338.33	340.77	2.44	575508	HYP	IXPA	6	9650	0.39	0.030	0.48	
340.77	343.81	3.04	575509	HYP	IXPA	6	14000	0.30	0.033	0.41	
343.81	346.86	3.05	575510	HYP	PPDX	6	11950	0.15	0.023	0.21	
346.86	349.91	3.05	575511	HYP	PPDX	6	12650	0.09	0.010	0.14	
349.91	352.96	3.05	575512	HYP	IXPA	6/7	11750	0.43	0.122	0.62	
352.96	356.01	3.05	575513	HYP	IXPA	6/7	11600	0.49	0.081	0.62	
356.01	359.05	3.04	575514	HYP	IXPA	6/7	12240	0.31	0.085	0.34	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
359.05	362.10	3.05	575515	HYP	IXPA	6/7	12260	0.46	0.065	0.38	
362.10	365.15	3.05	575516	HYP	IXPA	6/7	11000	0.16	0.033	0.24	
365.15	368.20	3.05	575517	HYP	IXPA	6/7	10680	0.15	0.038	0.21	
368.20	371.25	3.05	575518	HYP	IXPA	6/7	12000	0.41	0.083	0.48	
371.25	374.29	3.04	575519	HYP	IXPA	6/7	13560	0.26	0.058	0.24	
374.29	377.34	3.05	575520	HYP	IXPA	6/7	12280	0.32	0.110	0.34	
377.34	380.39	3.05	575521	HYP	IXPA	6/7	12500	0.34	0.081	0.41	
380.39	383.44	3.05	575522	HYP	IXPA	6/7	11200	0.27	0.050	0.41	
383.44	386.49	3.05	575523	HYP	IXPA	6/7	11600	0.24	0.037	0.48	
386.49	389.53	3.04	575524	HYP	IXPA	6/7	11940	0.20	0.107	0.27	
389.53	392.58	3.05	575525	HYP	IXPA	7	12660	0.28	0.120	0.31	
392.58	395.63	3.05	575526	HYP	IXPA	7	11840	0.17	0.087	0.21	
395.63	398.68	3.05	575527	HYP	IXPA	7	12280	0.30	0.109	0.38	
398.68	401.73	3.05	575528	HYP	IXPA	7	10600	0.34	0.078	0.48	
401.73	404.77	3.04	575529	HYP	IXPA	7	11460	0.42	0.116	0.75	
404.77	407.82	3.05	575530	HYP	IXPA	7	9600	0.33	0.099	0.41	
407.82	410.87	3.05	575531	HYP	IXPA	7	10920	0.34	0.133	0.45	
410.87	413.92	3.05	575532	HYP	IXPA	7	11560	0.40	0.148	1.23	
413.92	416.97	3.05	575533	HYP	IXPA	7	11260	0.27	0.182	0.34	
416.97	420.01	3.04	575534	HYP	IXPA	7	11380	0.31	0.106	0.34	
420.01	423.06	3.05	575535	HYP	IXPA	7	10820	0.41	0.096	0.38	
423.06	426.11	3.05	575536	HYP	IXPA	7	10440	0.26	0.055	0.27	
426.11	429.16	3.05	575537	HYP	IXPA	7	10480	0.18	0.107	0.14	
429.16	432.21	3.05	575538	HYP	IXPA	7	9080	0.18	0.130	0.24	
432.21	434.95	2.74	575539	HYP	IXPA	7	6260	0.12	0.190	0.14	
434.95	438.00	3.05	575540	HYP	IXPA	7	13680	0.14	0.192	0.24	
438.00	441.20	3.20	575541	HYP	IXPA	7	13000	0.15	0.087	0.14	
441.20	444.25	3.05	575542	HYP	IXPA	7	12280	0.10	0.233	0.14	
444.25	447.29	3.04	575543	HYP	IXPA	7	12900	0.16	0.212	0.24	
447.29	450.49	3.20	575544	HYP	IXPA	7	12480	0.09	0.141	0.14	
450.49	453.54	3.05	575545	HYP	IXPA	7	13060	0.07	0.225	0.07	
453.54	455.07	1.53	575546	HYP	IXPA	7	6300	0.04	0.089	0.03	
455.07	END OF HOLE										

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Hole Number	93-193	Total Depth	649.83 m		
Northing	254,480.37	Casing Depth	19.5 m		Left In
Easting	110,900.12	Survey Data	Azimuth	Dip	Instrument
Elevation	1366.80 m	Collar		-90.00°	
Core Size	HQ to 372.47 m; NQ to end	154.5 m	024°	-89.25°	Sperry Sun
Drilling Started	August 15, 1993	306.9 m	038°	-88.75°	Sperry Sun
Drilling Finished	August 28, 1993	607.6 m	038°	-87.50°	Sperry Sun
Logged by	T. Case				

Purpose/Target: To test for ore grade mineralization encountered in adjacent holes (93-151, 93-178 and 93-183) near the southern margin of the deposit.

Comments: Encountered weakly to locally moderately mineralized granodiorite (WRGD) and granodiorite breccia (WRGX). Hole abandoned at 649.83 m due to sand (i.e. no recovery of core).

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	7.32	3.66	573986	CAP	WRGD	3	8000	0.08	0.015	0.27	
7.32	11.28	3.96	573987	CAP	WRGD	3	5000	0.06	0.010	0.27	
11.28	14.63	3.35	573988	CAP	WRGD	3	5900	0.04	0.008	0.17	
14.63	18.29	3.66	573989	CAP	WRGD	3	12200	0.06	0.015	0.27	
18.29	21.95	3.66	573990	CAP	WRGD	3	9000	0.07	0.021	0.24	
21.95	24.99	3.04	573991	SOX	PPDP	3/5/7	12260	0.17	0.025	0.21	
24.99	29.57	4.58	573992	SOX	WRGD	3/5/7	15540	0.11	0.020	0.27	
29.57	33.22	3.65	573993	SOX	WRGD	5/3/7	15020	0.23	0.016	0.24	
33.22	35.66	2.44	573994	SOX	WRGD	5/3/7	9250	0.22	0.021	0.34	
35.66	38.71	3.05	573995	SOX	WRGD	5/3/7	10900	0.16	0.014	1.17	
38.71	41.76	3.05	573996	SOX	WRGD	5/3/7	12700	0.24	0.030	0.34	
41.76	44.81	3.05	573997	SOX	WRGD	5/3/7	12000	0.20	0.019	0.24	
44.81	47.85	3.04	573998	SOX	WRGD	5/3/7	11600	0.21	0.020	0.31	
47.85	50.90	3.05	573999	SUS	WRGD	4/5/7	11980	0.25	0.041	0.27	
50.90	53.95	3.05	574000	SUS	WRGD	4/5/7	12100	0.22	0.027	0.41	
53.95	57.00	3.05	574001	SUS	WRGD	4/5/7	10880	0.23	0.075	0.38	
57.00	60.05	3.05	574002	SUS	WRGD	4/5/7	11460	0.32	0.074	0.27	
60.05	63.09	3.04	574003	SUS	WRGD	4/5/7	11680	0.15	0.019	0.17	
63.09	66.14	3.05	574004	TRN	WRGD	5/4/7	11700	0.26	0.028	0.21	
66.14	69.19	3.05	574005	TRN	WRGD	5/4/7	11240	0.18	0.022	0.24	
69.19	72.24	3.05	574006	TRN	WRGD	5/4/7	12380	0.21	0.020	0.34	
72.24	75.29	3.05	574007	TRN	WRGD	5/4/7	12600	0.15	0.028	0.14	
75.29	78.33	3.04	574008	TRN	WRGD	5/4/7	12280	0.19	0.030	0.27	
78.33	81.38	3.05	574009	TRN	WRGD	5/4/7	12640	0.19	0.017	0.45	
81.38	84.43	3.05	574010	TRN	WRGD	5/4/7	11660	0.18	0.017	0.27	
84.43	87.48	3.05	574011	TRN	WRGD	5/4/7	13060	0.19	0.017	0.38	
87.48	90.53	3.05	574012	TRN	WRGD	5/4/7	13160	0.24	0.018	0.34	
90.53	93.57	3.04	574013	TRN	WRGD	4/5/7	12880	0.25	0.023	0.38	
93.57	96.62	3.05	574014	TRN	WRGD	4/5/7	13200	0.36	0.024	0.41	
96.62	99.67	3.05	574015	SUS	WRGD	4/5/7	12340	0.25	0.029	0.21	
99.67	102.72	3.05	574016	SUS	WRGD	4/5/7	13180	0.37	0.041	0.41	
102.72	105.77	3.05	574017	SUS	WRGD	4/5/7	13220	0.40	0.042	0.41	
105.77	108.81	3.04	574018	SUS	WRGD	5/4/7	13080	0.18	0.021	0.17	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.81	111.86	3.05	574019	SUS	WRGD	5/4/7	13240	0.49	0.052	0.58	
111.86	114.91	3.05	574020	SUS	WRGD	5/4/7	13280	0.41	0.030	0.41	
114.91	117.96	3.05	574021	SUS	WRGD	3/5/4	13780	0.28	0.060	0.38	
117.96	121.01	3.05	574022	SUS	WRGD	3/5/4	12340	0.21	0.046	0.27	
121.01	124.05	3.04	574023	SUS	WRGD	3/5/4	12000	0.11	0.069	0.31	
124.05	127.10	3.05	574024	SUS	WRGD	3/5/4	12500	0.06	0.030	0.21	
127.10	130.15	3.05	574025	SUS	WRGD	5/4/7	13520	0.32	0.023	0.31	
130.15	133.20	3.05	574026	SUS	WRGD	5/4/7	12460	0.53	0.031	0.79	
133.20	136.25	3.05	574027	SUS	WRGD	6/5/7	11880	0.50	0.018	0.58	
136.25	139.29	3.04	574028	SUS	WRGD	6/5/7	11520	0.33	0.032	0.34	
139.29	142.34	3.05	574029	SUS	WRGD	6/5/7	11600	0.42	0.033	0.41	
142.34	145.39	3.05	574030	SUS	WRGD	6/5/7	12420	0.33	0.081	0.31	
145.39	148.44	3.05	574031	SUS	WRGD	6/5/7	12940	0.39	0.034	0.27	
148.44	151.49	3.05	574032	SUS	WRGD	6/5/7	12000	0.29	0.041	0.27	
151.49	154.53	3.04	574033	SUS	WRGD	6/5/7	13340	0.13	0.012	0.14	
154.53	157.58	3.05	574034	SUS	WRGD	6/5/7	10900	0.23	0.017	0.17	
157.58	160.63	3.05	574035	SUS	WRGD	6/5/7	11600	0.22	0.017	0.24	
160.63	163.68	3.05	574036	SUS	PPDP	7/5	13100	0.24	0.033	0.41	
163.68	166.42	2.74	574037	SUS	PPDP	7/5	10200	0.23	0.025	0.17	
166.42	169.62	3.20	574038	TRN	WRGD	4/5/7	10900	0.33	0.027	0.21	
169.62	172.82	3.20	574039	TRN	WRGD	4/5/7	11780	0.26	0.010	0.17	
172.82	175.87	3.05	574040	TRN	WRGD	4/5/7	12920	0.25	0.013	0.17	
175.87	178.92	3.05	574041	TRN	WRGD	4/5/7	13300	0.22	0.015	0.31	
178.92	181.97	3.05	574042	TRN	WRGD	4/5/7	12780	0.26	0.032	0.31	
181.97	185.01	3.04	574043	TRN	WRGD	4/5/7	12820	0.33	0.027	0.51	
185.01	188.06	3.05	574044	HYP	WRGD	4/5/7	11940	0.29	0.019	0.41	
188.06	191.11	3.05	574045	HYP	WRGD	4/5/7	13000	0.26	0.017	0.34	
191.11	194.16	3.05	574046	HYP	WRGD	4/5/7	10860	0.25	0.063	0.31	
194.16	197.21	3.05	574047	HYP	PPDP	4/5/7	12520	0.35	0.031	0.45	
197.21	200.25	3.04	574048	HYP	WRGD	4/5/7	12840	0.13	0.019	0.14	
200.25	203.30	3.05	574049	HYP	WRGD	5/7	11580	0.17	0.019	0.21	
203.30	206.35	3.05	574050	HYP	WRGD	5/7	12460	0.21	0.013	0.24	
206.35	209.40	3.05	574051	HYP	WRGD	5/7	13200	0.20	0.021	0.24	
209.40	212.45	3.05	574052	HYP	WRGD	5/7	13280	0.19	0.009	0.27	
212.45	215.49	3.04	574053	HYP	WRGD	4/5/7	12120	0.25	0.053	0.24	
215.49	218.54	3.05	574054	HYP	WRGD	4/5/7	13780	0.20	0.011	0.27	
218.54	221.59	3.05	574055	HYP	WRGD	4/5/7	11400	0.38	0.034	0.27	
221.59	224.64	3.05	574056	HYP	WRGD	4/5/7	12720	0.25	0.042	0.17	
224.64	227.69	3.05	574057	HYP	WRGD	4/5/7	12720	0.22	0.015	0.17	
227.69	230.73	3.04	574058	HYP	WRGD	4/5/7	12980	0.11	0.011	0.10	
230.73	233.78	3.05	574059	HYP	WRGD	4/5/7	12500	0.13	0.025	0.17	
233.78	236.83	3.05	574060	HYP	WRGD	4/5/7	11820	0.15	0.017	0.21	
236.83	239.88	3.05	574061	HYP	WRGD	4/5/7	12060	0.12	0.015	0.10	
239.88	242.93	3.05	574062	HYP	WRGD	4/5/7	12860	0.20	0.036	0.21	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
242.93	245.97	3.04	574063	HYP	WRGD	4/5/7	12100	0.26	0.045	0.21	
245.97	249.02	3.05	574064	HYP	WRGD	4/5/7	12520	0.22	0.088	0.14	
249.02	252.07	3.05	574065	HYP	WRGD	4/5/7	12760	0.20	0.035	0.21	
252.07	255.12	3.05	574066	HYP	WRGD	4/5/7	11920	0.17	0.012	0.24	
255.12	258.17	3.05	574067	HYP	WRGD	4/5/7	12400	0.26	0.055	0.21	
258.17	261.21	3.04	574068	HYP	WRGD	4/5/7	12160	0.15	0.015	0.14	
261.21	264.26	3.05	574069	HYP	WRGD	4/5/7	12160	0.17	0.014	0.17	
264.26	267.31	3.05	574070	HYP	WRGD	4/5/7	13280	0.15	0.028	0.10	
267.31	270.36	3.05	574071	HYP	WRGD	4/5/7	11650	0.26	0.058	0.24	
270.36	273.41	3.05	574072	HYP	WRGD	4/5/7	11900	0.12	0.021	0.14	
273.41	276.45	3.04	574073	HYP	WRGD	4/5/7	13080	0.15	0.061	0.14	
276.45	279.50	3.05	574074	HYP	WRGD	4/5/7	12280	0.24	0.052	0.31	
279.50	282.55	3.05	574075	HYP	WRGD	4/5/7	12580	0.23	0.027	0.24	
282.55	285.60	3.05	574076	HYP	WRGD	4/5/7	12850	0.24	0.024	0.24	
285.60	288.65	3.05	574077	HYP	WRGD	4/5/7	11800	0.26	0.053	0.17	
288.65	291.69	3.04	574078	HYP	WRGD	4/5/7	11850	0.37	0.030	0.31	
291.69	294.74	3.05	574079	HYP	WRGD	4/5/7	11550	0.31	0.022	0.27	
294.74	297.79	3.05	574080	HYP	WRGD	4/5/7	12560	0.25	0.029	0.24	
297.79	300.84	3.05	574081	HYP	WRGD	4/5/7	11980	0.27	0.048	0.31	
300.84	303.89	3.05	574082	HYP	WRGD	4/5/7	11780	0.26	0.030	0.21	
303.89	306.93	3.04	574083	HYP	WRGD	4/5/7	12300	0.23	0.033	0.27	
306.93	309.98	3.05	574084	HYP	WRGD	4/5/7	11840	0.16	0.025	0.17	
309.98	313.03	3.05	574085	HYP	WRGD	4/5/7	12340	0.18	0.067	0.17	
313.03	316.08	3.05	574086	HYP	WRGD	4/5/7	12140	0.19	0.021	0.14	
316.08	319.13	3.05	574087	HYP	WRGD	4/5/7	12180	0.17	0.025	0.14	
319.13	322.17	3.04	574088	HYP	WRGD	4/5/7	12260	0.17	0.027	0.14	
322.17	325.22	3.05	574089	HYP	WRGD	4/5/7	11700	0.25	0.024	0.24	
325.22	328.27	3.05	574090	HYP	WRGD	4/5/7	12660	0.17	0.060	0.21	
328.27	331.32	3.05	574091	HYP	WRGD	4/5/7	12100	0.20	0.045	0.21	
331.32	334.37	3.05	574092	HYP	WRGD	4/5/7	12740	0.22	0.030	0.17	
334.37	337.41	3.04	574093	HYP	WRGD	4/5/7	12820	0.17	0.070	0.17	
337.41	340.46	3.05	574094	HYP	WRGD	4/5/7	12240	0.28	0.124	0.17	
340.46	343.51	3.05	574095	HYP	WRGD	4/5/7	12820	0.18	0.044	0.14	
343.51	346.56	3.05	574096	HYP	WRGD	4/5/7	11620	0.28	0.043	0.24	
346.56	349.61	3.05	574097	HYP	WRGD	4/5/7	12640	0.14	0.037	0.21	
349.61	352.65	3.04	574098	HYP	WRGD	4/5/7	12120	0.25	0.043	0.21	
352.65	355.70	3.05	574099	HYP	WRGD	4/5/7	13120	0.26	0.021	0.21	
355.70	358.75	3.05	574100	HYP	WRGD	4/5/7	11820	0.23	0.022	0.17	
358.75	361.80	3.05	574101	HYP	WRGD	4/5/7	11300	0.17	0.016	0.17	
361.80	364.85	3.05	574102	HYP	WRGD	4/5/7	12080	0.23	0.051	0.24	
364.85	367.89	3.04	574103	HYP	WRGD	4/5/7	12580	0.13	0.032	0.14	
367.89	370.94	3.05	574104	HYP	WRGD	7/4/5	13060	0.20	0.062	0.17	
370.94	372.47	1.53	574105	HYP	WRGD	7/4/5	6660	0.25	0.015	0.21	
372.47	373.99	1.52	574106	HYP	WRGD	7/4/5	2720	0.16	0.042	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
373.99	377.04	3.05	574107	HYP	WRGD	7/4/5	7300	0.18	0.020	0.27	
377.04	380.09	3.05	574108	HYP	WRGD	7/4/5	6700	0.20	0.037	0.14	
380.09	383.13	3.04	574109	HYP	WRGD	7/4/5	6720	0.18	0.015	0.17	
383.13	386.18	3.05	574110	HYP	WRGD	4/5/7	7280	0.17	0.065	0.21	
386.18	389.23	3.05	574111	HYP	WRGD	4/5/7	6400	0.25	0.027	0.24	
389.23	392.28	3.05	574112	HYP	WRGD	4/5/7	7020	0.29	0.040	0.38	
392.28	395.33	3.05	574113	HYP	WRGD	4/5/7	6920	0.25	0.059	0.41	
395.33	398.37	3.04	574114	HYP	WRGD	7/4/5	6620	0.21	0.021	0.31	
398.37	401.42	3.05	574115	HYP	WRGD	7/4/5	7780	0.18	0.020	0.21	
401.42	404.47	3.05	574116	HYP	WRGD	7/4/5	7260	0.16	0.081	0.24	
404.47	407.52	3.05	574117	HYP	WRGD	7/4/5	7900	0.22	0.023	0.34	
407.52	410.57	3.05	574118	HYP	WRGD	7/4/5	7520	0.17	0.046	0.27	
410.57	413.61	3.04	574119	HYP	WRGD	7/4/5	7800	0.16	0.011	0.24	
413.61	416.66	3.05	574120	HYP	WRGD	7/4/5	6900	0.20	0.026	0.24	
416.66	419.71	3.05	574121	HYP	WRGD	7/4/5	6620	0.23	0.033	0.31	
419.71	422.76	3.05	574122	HYP	WRGD	7/4/5	6960	0.28	0.055	0.31	
422.76	425.81	3.05	574123	HYP	WRGD	4/5/7	7520	0.21	0.033	0.31	
425.81	428.85	3.04	574124	HYP	WRGD	4/5/7	7100	0.22	0.054	0.34	
428.85	431.90	3.05	574125	HYP	WRGD	4/5/7	7280	0.28	0.085	0.34	
431.90	434.95	3.05	574126	HYP	WRGD	4/5/7	6560	0.18	0.033	0.27	
434.95	438.00	3.05	574127	HYP	WRGD	4/5/7	6900	0.24	0.025	0.24	
438.00	441.05	3.05	574128	HYP	WRGD	4/5/7	7180	0.24	0.028	0.34	
441.05	444.09	3.04	574129	HYP	WRGD	4/5/7	7500	0.14	0.139	0.17	
444.09	447.14	3.05	574130	HYP	WRGD	4/5/7	7160	0.30	0.045	0.31	
447.14	450.19	3.05	574131	HYP	WRGD	4/5/7	7200	0.27	0.013	0.34	
450.19	453.24	3.05	574132	HYP	WRGD	4/5/7	7120	0.38	0.031	0.41	
453.24	456.29	3.05	574133	HYP	WRGD	7/5	7000	0.23	0.026	0.38	
456.29	459.33	3.04	574134	HYP	WRGD	7/5	7120	0.24	0.017	0.31	
459.33	462.38	3.05	574135	HYP	WRGD	7/5	6460	0.19	0.013	0.27	
462.38	465.43	3.05	574136	HYP	WRGD	7/5	7200	0.19	0.005	0.21	
465.43	468.48	3.05	574137	HYP	WRGD	7/5	7100	0.16	0.024	0.21	
468.48	471.53	3.05	574138	HYP	WRGD	4/5/7	7360	0.18	0.013	0.24	
471.53	474.57	3.04	574139	HYP	WRGD	4/5/7	7240	0.20	0.016	0.27	
474.57	477.62	3.05	574140	HYP	WRGD	4/5/7	7420	0.16	0.010	0.14	
477.62	480.67	3.05	574141	HYP	WRGD	4/5/7	6780	0.20	0.019	0.27	
480.67	483.72	3.05	574142	HYP	WRGD	4/5/7	7360	0.31	0.016	0.31	
483.72	486.77	3.05	574143	HYP	WRGD	4/5/7	7020	0.24	0.022	0.24	
486.77	489.81	3.04	574144	HYP	WRGD	4/5/7	7080	0.21	0.058	0.17	
489.81	492.86	3.05	574145	HYP	WRGD	4/5/7	6700	0.21	0.018	0.17	
492.86	495.91	3.05	574146	HYP	WRGD	4/5/7	7050	0.23	0.026	0.31	
495.91	498.96	3.05	574147	HYP	WRGD	4/5/7	7500	0.15	0.046	0.14	
498.96	502.01	3.05	574148	HYP	WRGD	4/5/7	7060	0.25	0.020	0.27	
502.01	505.05	3.04	574149	HYP	WRGD	4/5/7	6800	0.32	0.024	0.41	
505.05	508.10	3.05	574150	HYP	WRGX	4/5/7	6940	0.26	0.014	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
508.10	511.15	3.05	574151	HYP	WRGX	4/5/7	7420	0.16	0.017	0.10	
511.15	514.20	3.05	574152	HYP	WRGX	4/5/7	7680	0.16	0.007	0.21	
514.20	517.25	3.05	574153	HYP	WRGX	4/5/7	7040	0.14	0.014	0.10	
517.25	520.29	3.04	574154	HYP	WRGX	4/5/7	7240	0.24	0.020	0.24	
520.29	523.34	3.05	574155	HYP	WRGX	4/5/7	7580	0.15	0.019	0.14	
523.34	526.39	3.05	574156	HYP	WRGX	4/5/7	7860	0.28	0.034	0.21	
526.39	529.44	3.05	574157	HYP	WRGX	4/5/7	6920	0.40	0.030	0.41	
529.44	532.49	3.05	574158	HYP	WRGX	4/5/7	6950	0.32	0.041	0.31	
532.49	535.53	3.04	574159	HYP	WRGX	4/5/7	7120	0.23	0.022	0.27	
535.53	538.58	3.05	574160	HYP	WRGX	4/5/7	7000	0.20	0.018	0.17	
538.58	541.63	3.05	574161	HYP	WRGX	4/5/7	6620	0.16	0.020	0.14	
541.63	544.68	3.05	574162	HYP	WRGX	4/5/7	5220	0.18	0.010	0.17	
544.68	547.73	3.05	574163	HYP	WRGX	4/5/7	5860	0.15	0.096	0.21	
547.73	550.77	3.04	574164	HYP	WRGX	4/5/7	5100	0.29	0.039	0.34	
550.77	553.82	3.05	574165	HYP	WRGX	4/5/7	5600	0.16	0.011	0.21	
553.82	556.87	3.05	574166	HYP	WRGX	4/5/7	5760	0.21	0.033	0.21	
556.87	559.92	3.05	574167	HYP	WRGX	4/5/7	5560	0.23	0.042	0.24	
559.92	562.97	3.05	574168	HYP	WRGX	4/5/7	5460	0.21	0.033	0.27	
562.97	566.01	3.04	574169	HYP	WRGX	7/4/5	5720	0.19	0.008	0.21	
566.01	569.06	3.05	574170	HYP	WRGX	7/4/5	6920	0.19	0.023	0.24	
569.06	572.11	3.05	574171	HYP	WRGX	7/4/5	7020	0.15	0.021	0.24	
572.11	575.16	3.05	574172	HYP	WRGX	7/4/5	6920	0.19	0.014	0.17	
575.16	578.21	3.05	574173	HYP	WRGX	4/5/7	7460	0.14	0.032	0.14	
578.21	581.25	3.04	574174	HYP	WRGX	4/5/7	7740	0.23	0.023	0.21	
581.25	584.30	3.05	574175	HYP	WRGX	4/5/7	6280	0.36	0.057	0.34	
584.30	587.35	3.05	574176	HYP	WRGX	7/5/4	7520	0.25	0.054	0.24	
587.35	590.40	3.05	574177	HYP	WRGX	7/5/4	7140	0.27	0.042	0.27	
590.40	593.45	3.05	574178	HYP	WRGX	7/5/4	7240	0.19	0.010	0.24	
593.45	596.49	3.04	574179	HYP	WRGX	7/5/4	6780	0.21	0.025	0.24	
596.49	599.54	3.05	574180	HYP	WRGX	7/5/4	6960	0.18	0.013	0.14	
599.54	602.59	3.05	574181	HYP	WRGX	7/5/4	6540	0.11	0.011	0.10	
602.59	605.64	3.05	574182	HYP	WRGX	7/5/4	7200	0.12	0.006	0.10	
605.64	608.69	3.05	574183	HYP	WRGX	4/5/7	6620	0.11	0.009	0.10	
608.69	611.73	3.04	574184	HYP	WRGX	4/5/7	7000	0.16	0.010	0.14	
611.73	614.78	3.05	574185	HYP	WRGX	4/5/7	6960	0.26	0.012	0.31	
614.78	617.83	3.05	574186	HYP	WRGX	4/5/7	7260	0.30	0.086	0.34	
617.83	620.88	3.05	574187	HYP	WRGX	7/4/5	6500	0.23	0.023	0.27	
620.88	623.93	3.05	574188	HYP	WRGX	7/4/5	7280	0.16	0.007	0.24	
623.93	626.97	3.04	574189	HYP	WRGX	7/4/5	6800	0.28	0.010	0.24	
626.97	630.02	3.05	574190	HYP	WRGD	7/5	7120	0.21	0.017	0.17	
630.02	633.07	3.05	574191	HYP	WRGD	7/5	7320	0.27	0.012	0.24	
633.07	636.12	3.05	574192	HYP	WRGD	7/5	6500	0.18	0.016	0.17	
636.12	639.17	3.05	574193	HYP	LTDA	7/5	7660	0.18	0.013	0.21	
639.17	642.21	3.04	574194	HYP	WRGD	7/5	7420	0.17	0.011	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
642.21	645.26	3.05	574195	HYP	WRGD	7/5	7500	0.21	0.013	1.14	
645.26	648.31	3.05	574196	HYP	WRGD	7/5	7220	0.16	0.023	0.14	
648.31	649.83	1.52	574197	HYP	WRGD	7/5	3600	0.17	0.016	0.24	
649.83	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-194	Total Depth	447.14 m		
Northing	254,810.33	Casing Depth	4.3 m		Left Out
Easting	111,022.60	Survey Data	Azimuth	Dip	Instrument
Elevation	1349.79 m	Collar		-90.00°	
Core Size	HQ	154.5 m	168°	-88.90°	Sperry Sun
Drilling Started	August 15, 1993	306.9 m	214°	-88.63°	Sperry Sun
Drilling Finished	August 22, 1993				
Logged by	C. DeLong				

Purpose/Target: Delineation drilling.

Comments: Some well developed supergene oxide 85 - 100 m.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.63	4.63		OVB							
4.63	7.32	2.69	569849	CAP	MBFP	7	9580	0.05	0.028	0.34	
7.32	10.36	3.04	569850	CAP	MBFP	7	13000	0.06	0.022	0.69	
10.36	14.02	3.66	569851	CAP	MBFP	7	14800	0.05	0.017	0.62	
14.02	17.37	3.35	569852	CAP	MBFP	7	17600	0.06	0.013	0.34	
17.37	20.42	3.05	569853	CAP	MBFP	7	8460	0.05	0.021	0.65	
20.42	23.47	3.05	569854	CAP	MBFP	7	11000	0.07	0.025	0.38	
23.47	26.52	3.05	569855	CAP	MBFP	7	12660	0.07	0.012	0.99	
26.52	29.57	3.05	569856	CAP	MBFP	7	11920	0.10	0.017	0.51	
29.57	32.61	3.04	569857	CAP	MBFP	7	10160	0.15	0.021	0.48	
32.61	35.66	3.05	569858	CAP	MBFP	7	11760	0.08	0.019	0.75	
35.66	38.71	3.05	569859	CAP	MBFP	7	12080	0.12	0.014	0.62	
38.71	41.76	3.05	569860	CAP	MBFP	7	10860	0.13	0.017	0.24	
41.76	44.80	3.04	569861	CAP	MBFP	7	10520	0.15	0.016	0.72	
44.80	47.85	3.05	569862	CAP	MBFP	7	10660	0.20	0.016	0.82	
47.85	50.90	3.05	569863	CAP	MBFP	7	12020	0.16	0.009	1.34	
50.90	53.95	3.05	569864	CAP	MBFP	7	10060	0.13	0.009	0.96	
53.95	57.00	3.05	569865	CAP	MBFP	7	12900	0.11	0.011	0.99	
57.00	60.05	3.05	569866	SOX	MBFP	7	14160	0.12	0.009	0.93	
60.05	63.09	3.04	569867	SOX	MBFP	7	11960	0.18	0.012	1.23	
63.09	66.14	3.05	569868	SOX	MBFP	7	13400	0.16	0.017	1.06	
66.14	69.19	3.05	569869	SOX	MBFP	7	13320	0.12	0.010	0.65	
69.19	72.24	3.05	569870	SOX	MBFP	7	12560	0.17	0.018	1.10	
72.24	75.58	3.34	569871	SOX	MBFP	7	12860	0.16	0.011	0.69	
75.58	78.33	2.75	569872	SOX	MBFP	7	11900	0.19	0.034	2.13	
78.33	81.38	3.05	569873	SOX	MBFP	7	12060	0.12	0.014	0.93	
81.38	83.82	2.44	569874	SOX	MBFP	7	9260	0.22	0.015	1.06	
83.82	86.87	3.05	569875	SOX	MBFP	7	11600	0.23	0.013	0.65	
86.87	89.92	3.05	569876	SOX	MBFP	7	11820	0.27	0.012	0.58	
89.92	92.96	3.04	569877	SOX	MBFP	7	13160	0.26	0.016	0.34	
92.96	96.32	3.36	569878	SOX	MBFP	7	13100	0.32	0.017	0.38	
96.32	99.36	3.04	569879	SOX	MBFP	7	13160	0.57	0.017	0.41	
99.36	102.41	3.05	569880	SOX	MBFP	7	11500	0.24	0.016	0.45	
102.41	105.46	3.05	569881	SOX	MBFP	7	13760	0.35	0.018	0.58	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.46	108.51	3.05	569882	SOX	MBCP	7	12020	0.44	0.016	0.45	
108.51	111.86	3.35	569883	SOX	MBCP	7	14100	0.40	0.014	0.21	
111.86	114.91	3.05	569884	SOX	MBCP	7	14460	0.28	0.012	0.24	
114.91	117.96	3.05	569885	SOX	PPDP	7	13500	0.27	0.011	0.38	
117.96	121.01	3.05	569886	SOX	PPDP	7	13660	0.20	0.010	0.20	
121.01	124.05	3.04	569887	TRN	MBCP	7	12200	0.60	0.024	0.69	
124.05	127.10	3.05	569888	TRN	MBCP	7	12960	0.40	0.020	0.65	
127.10	130.15	3.05	569889	SUS	MBCP	7	12740	0.68	0.025	0.65	
130.15	133.19	3.04	569890	SUS	MBCP	7	12480	0.21	0.011	0.45	
133.19	136.24	3.05	569891	SUS	MBCP	7	13120	0.23	0.011	0.41	
136.24	139.29	3.05	569892	SUS	MBCP	7	13500	0.31	0.018	0.45	
139.29	142.34	3.05	569893	SUS	MBCP	6	12500	0.25	0.019	0.41	
142.34	145.39	3.05	569894	SUS	MBCH	6	13660	0.20	0.013	0.34	
145.39	148.44	3.05	569895	SUS	MBCH	7/5	13960	0.19	0.011	0.31	
148.44	151.49	3.05	569896	SUS	MBCH	7/5	12960	0.24	0.011	0.31	
151.49	154.53	3.04	569897	SUS	MBCH	7/5	13520	0.19	0.013	0.27	
154.53	157.58	3.05	569898	SUS	MBCH	7/5	13060	0.30	0.018	0.38	
157.58	160.63	3.05	569899	SUS	MBCH	7/5	13040	0.33	0.008	0.31	
160.63	163.67	3.04	569900	SUS	MBCH	7/5	12600	0.48	0.033	0.55	
163.67	166.72	3.05	569901	SUS	MBCH	7/5	12660	0.50	0.020	0.62	
166.72	169.77	3.05	569902	SUS	MBCH	7/5	11940	0.32	0.015	0.21	
169.77	172.82	3.05	569903	SUS	MBCH	7/5	12080	0.31	0.022	0.17	
172.82	175.87	3.05	569904	SUS	MBCH	7/5	13300	0.24	0.038	0.31	
175.87	178.92	3.05	569905	TRN	MBCH	7/5	13180	0.20	0.017	0.14	
178.92	181.97	3.05	569906	TRN	MBCH	7/5	11180	0.42	0.019	0.21	
181.97	185.01	3.04	569907	TRN	MBCH	7/5	13640	0.23	0.015	0.34	
185.01	187.76	2.75	569908	TRN	MBCH	7/5	10560	0.22	0.022	0.31	
187.76	191.72	3.96	569909	TRN	MBCH	7/5	14580	0.19	0.009	0.17	
191.72	194.16	2.44	569910	TRN	MBFP	7	8960	0.14	0.015	0.14	
194.16	197.82	3.66	569911	TRN	MBFP	7	12580	0.28	0.020	0.38	
197.82	199.97	2.15	569912	TRN	MBFP	7	7640	0.22	0.015	0.14	
199.97	204.52	4.55	569913	TRN	PPDP	7	16400	0.18	0.044	0.14	
204.52	207.56	3.04	569914	HYP	PPDP	7	10860	0.19	0.026	0.10	
207.56	210.31	2.75	569915	HYP	PPDP	7	10220	0.19	0.008	0.17	
210.31	214.27	3.96	569916	HYP	MBCP	7	13400	0.26	0.008	0.24	
214.27	216.41	2.14	569917	HYP	MBCP	7	6500	0.29	0.026	0.31	
216.41	218.54	2.13	569918	HYP	MBCP	7	8560	0.13	0.010	0.07	
218.54	221.59	3.05	569919	HYP	MBCP	7	13480	0.12	0.012	0.10	
221.59	224.64	3.05	569920	HYP	MBCP	7	12860	0.11	0.010	0.10	
224.64	227.69	3.05	569921	HYP	MBCP	7	13020	0.07	0.021	0.14	
227.69	230.73	3.04	569922	HYP	MBCP	7	13280	0.09	0.025	0.03	
230.73	233.78	3.05	569923	HYP	MBCP	7	12400	0.07	0.008	0.03	
233.78	236.83	3.05	569924	HYP	MBCP	7	13940	0.10	0.013	0.07	
236.83	239.88	3.05	569925	HYP	MBCP	7	13160	0.38	0.022	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	569926	HYP	MBCP	7	12500	0.11	0.008	0.21	
242.93	245.97	3.04	569927	HYP	MBCP	7	13360	0.06	0.006	0.07	
245.97	249.02	3.05	569928	HYP	PPDP	7	12940	0.13	0.020	0.17	
249.02	252.07	3.05	569929	HYP	PPDP	7	12620	0.16	0.016	0.17	
252.07	255.12	3.05	569930	HYP	PPDP	7	10980	0.09	0.014	0.07	
255.12	257.56	2.44	569931	HYP	PPDP	7	12520	0.11	0.027	0.10	
257.56	260.91	3.35	569932	HYP	PPDP	7	13120	0.09	0.015	0.10	
260.91	263.95	3.04	569933	HYP	PPDP	7/5	12120	0.20	0.019	0.17	
263.95	267.00	3.05	569934	HYP	PPDP	7/5	12760	0.19	0.113	0.21	
267.00	270.05	3.05	569935	HYP	PPDP	7	13320	0.13	0.024	0.17	
270.05	273.10	3.05	569936	HYP	PPDP	7	12960	0.17	0.023	0.21	
273.10	276.15	3.05	569937	HYP	PPDP	7	12860	0.12	0.026	0.17	
276.15	277.67	1.52	569938	HYP	PPDP	7	5980	0.12	0.013	0.14	
277.67	279.20	1.53	569939	HYP	PPDP	7	7120	0.11	0.009	0.14	
279.20	282.55	3.35	569940	HYP	PPDP	7	13260	0.13	0.014	0.24	
282.55	285.60	3.05	569941	HYP	PPDP	7	13120	0.10	0.016	0.14	
285.60	288.64	3.04	569942	HYP	PPDP	7	12440	0.15	0.024	0.31	
288.64	291.69	3.05	569943	HYP	PPDP	7	12180	0.12	0.017	0.14	
291.69	294.74	3.05	569944	HYP	PPDP	7	13240	0.10	0.018	0.21	
294.74	297.57	2.83	569945	HYP	PPDP	7	13360	0.19	0.034	0.21	
297.57	300.84	3.27	569946	HYP	PPDP	7	13370	0.16	0.014	0.21	
300.84	303.88	3.04	569947	HYP	PPDP	7	13280	0.11	0.055	0.17	
303.88	306.02	2.14	569948	HYP	PPDP	7	73600	0.11	0.013	0.14	
306.02	309.07	3.05	569949	HYP	PPDP	7	11860	0.14	0.015	0.24	
309.07	313.03	3.96	569950	HYP	PPDP	7	15600	0.18	0.013	0.24	
313.03	315.47	2.44	569951	HYP	PPDP	7	81800	0.18	0.013	0.27	
315.47	318.52	3.05	569952	HYP	PPDP	7	11100	0.11	0.022	0.17	
318.52	320.04	1.52	569953	HYP	PPDP	7	66400	0.09	0.027	0.10	
320.04	322.17	2.13	569954	HYP	PPDP	7	80400	0.10	0.010	0.10	
322.17	325.22	3.05	569955	HYP	PPDP	7	11860	0.09	0.018	0.14	
325.22	328.27	3.05	569956	HYP	PPDP	7	11940	0.06	0.011	0.07	
328.27	331.32	3.05	569957	HYP	PPDP	7	10060	0.11	0.037	0.10	
331.32	334.37	3.05	569958	HYP	PPDP	7	14700	0.08	0.013	0.10	
334.37	337.41	3.04	569959	HYP	PPDP	7	13080	0.03	0.004	0.07	
337.41	340.46	3.05	569960	HYP	PPDP	7	12740	0.03	0.014	0.07	
340.46	343.51	3.05	569961	HYP	PPDP	7	13000	0.10	0.010	0.14	
343.51	346.56	3.05	569962	HYP	MBCP	6/7	12600	0.14	0.056	0.17	
346.56	349.61	3.05	569963	HYP	MBCP	7	12160	0.11	0.038	0.17	
349.61	352.65	3.04	569964	HYP	MBCP	7	12460	0.02	0.011	0.10	
352.65	355.70	3.05	569965	HYP	MBCP	7	13860	0.24	0.023	0.24	
355.70	358.75	3.05	569966	HYP	MBCP	7	12640	0.10	0.019	0.21	
358.75	361.80	3.05	569967	HYP	MBCP	7	13560	0.15	0.052	0.14	
361.80	364.85	3.05	569968	HYP	MBCP	7	56000	0.37	0.028	0.24	
364.85	367.89	3.04	569969	HYP	MBCP	7	13500	0.21	0.052	0.17	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	569970	HYP	PPDP	7	13280	0.14	0.025	0.14	
370.94	373.99	3.05	569971	HYP	PPDP	7	12860	0.14	0.044	0.10	
373.99	377.04	3.05	569972	HYP	PPDP	7	11300	0.14	0.014	0.14	
377.04	379.48	2.44	569973	HYP	PPDP	7	11560	0.09	0.010	0.10	
379.48	382.55	3.07	569974	HYP	PPDP	7	12200	0.07	0.008	0.10	
382.55	385.57	3.02	569975	HYP	PPDP	7	13400	0.04	0.012	0.07	
385.57	388.62	3.05	569976	HYP	PPDP	7	13100	0.05	0.020	0.07	
388.62	391.67	3.05	569977	HYP	PPDP	7	12200	0.05	0.008	0.10	
391.67	394.72	3.05	569978	HYP	PPDP	7	10480	0.04	0.006	0.03	
394.72	397.76	3.04	569979	HYP	PPDP	7	12400	0.09	0.037	0.14	
397.76	401.12	3.36	569980	HYP	PPDP	7	14850	0.07	0.012	0.07	
401.12	404.16	3.04	569981	HYP	PPDP	7	13650	0.09	0.014	0.10	
404.16	407.21	3.05	569982	HYP	PPDP	7	13100	0.02	0.005	0.03	
407.21	410.26	3.05	569983	HYP	PPDP	7	12800	0.06	0.018	0.07	
410.26	413.31	3.05	569984	HYP	PPDP	7	12560	0.03	0.008	0.07	
413.31	416.36	3.05	569985	HYP	PPDP	7	13880	0.02	0.005	0.03	
416.36	419.40	3.04	569986	HYP	PPDP	7	13100	0.05	0.004	0.07	
419.40	422.45	3.05	569987	HYP	PPDP	7	13460	0.04	0.008	<0.03	
422.45	425.50	3.05	569988	HYP	PPDP	7	13580	0.03	0.005	0.10	
425.50	428.85	3.35	569989	HYP	PPDP	7	13620	0.03	0.004	<0.03	
428.85	431.90	3.05	569990	HYP	PPDP	7	14400	0.02	0.004	0.03	
431.90	434.95	3.05	569991	HYP	PPDP	7	12720	0.04	0.005	0.07	
434.95	438.00	3.05	569992	HYP	PPDP	7	11060	0.21	0.022	0.21	
438.00	441.05	3.05	569993	HYP	PPDP	7	11960	0.13	0.022	0.14	
441.05	444.09	3.04	569994	HYP	PPDP	7	12260	0.09	0.017	0.07	
444.09	447.14	3.05	569995	HYP	PPDP	7	12800	0.11	0.013	0.10	
447.14	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-195	Total Depth	380.39 m
Northing	254,299.79	Casing Depth	11.58 m Left Out
Easting	110,299.78	Survey Data	Azimuth / Dip / Instrument
Elevation	1355.01 m	Collar	-90.00°
Core Size	HQ	154.53 m	095° / -88.30° / Sperry Sun
Drilling Started	August 15, 1993	380.39 m	080° / -88.00° / Sperry Sun
Drilling Finished	August 24, 1993		
Logged by	T. Becker		

Purpose/Target: Delineation driling of the southeast boundary of the deposit.

Comments: Hole intersected Dawson Range granodiorite with moderate to strong phyllic alteration and a high pyrite content.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	10.97	10.97		OVB							
10.97	14.33	3.36	565088	CAP	WRGD	3	10400	0.01	0.001	0.14	
14.33	17.68	3.35	565089	CAP	WRGD	3	11980	0.01	0.003	0.21	
17.68	20.43	2.75	565090	CAP	WRGD	3	10350	<0.01	0.003	0.21	
20.43	23.47	3.04	565091	CAP	WRGD	3	10580	<0.01	0.002	0.21	
23.47	25.91	2.44	565092	CAP	WRGD	3	9450	<0.01	0.001	0.31	
25.91	28.96	3.05	565093	CAP	WRGD	3	12040	<0.01	0.002	0.17	
28.96	31.39	2.43	565094	CAP	WRGD	3	9600	<0.01	0.003	0.10	
31.39	35.66	4.27	565095	CAP	WRGD	3	14160	<0.01	0.002	0.07	
35.66	38.10	2.44	565096	CAP	WRGD	3	8500	<0.01	0.002	0.17	
38.10	41.15	3.05	565097	CAP	WRGD	3	12540	<0.01	0.007	0.34	
41.15	44.20	3.05	565098	CAP	WRGD	3	10080	<0.01	0.001	0.21	
44.20	46.33	2.13	565099	CAP	WRGD	3	8300	<0.01	0.001	0.17	
46.33	49.68	3.35	565100	CAP	WRGD	3	11320	<0.01	0.002	0.07	
49.68	53.34	3.66	565101	CAP	WRGD	3	11950	<0.01	0.001	0.10	
53.34	55.47	2.13	565102	CAP	WRGD	3	7850	<0.01	0.002	0.17	
55.47	59.44	3.97	565103	CAP	WRGD	3	8880	<0.01	0.002	0.07	
59.44	61.57	2.13	565104	CAP	WRGD	3	8660	<0.01	0.001	0.17	
61.57	65.23	3.66	565105	CAP	WRGD	3	12500	<0.01	0.001	0.10	
65.23	69.19	3.96	565106	CAP	WRGD	3	14160	<0.01	0.001	0.10	
69.19	72.24	3.05	565107	CAP	WRGD	3	11320	<0.01	0.001	0.21	
72.24	74.06	1.82	565108	CAP	WRGD	3	6750	<0.01	0.001	0.14	
74.06	77.11	3.05	565109	CAP	WRGD	3	11020	<0.01	0.001	0.14	
77.11	78.63	1.52	565110	CAP	WRGD	3	5180	<0.01	0.002	0.03	
78.63	81.38	2.75	565111	CAP	WRGD	3	7920	<0.01	0.001	0.07	
81.38	84.43	3.05	565112	CAP	WRGD	3	10980	<0.01	0.001	0.07	
84.43	88.39	3.96	565113	CAP	WRGD	3	13120	<0.01	0.001	0.17	
88.39	91.14	2.75	565114	CAP	WRGD	3	8520	<0.01	0.001	0.21	
91.14	94.18	3.04	565115	CAP	WRGD	3	10100	<0.01	0.001	0.17	
94.18	97.23	3.05	565116	CAP	WRGD	3	10160	<0.01	0.001	0.07	
97.23	99.06	1.83	565117	CAP	WRGD	3	56000	<0.01	0.002	0.14	
99.06	102.72	3.66	565118	CAP	WRGD	3	10240	<0.01	0.001	0.07	
102.72	105.77	3.05	565119	CAP	WRGD	3	10800	<0.01	0.001	0.10	
105.77	108.97	3.20	565120	CAP	WRGD	3	8560	<0.01	0.002	0.27	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.97	111.40	2.43	565121	CAP	WRGD	3	6160	<0.01	0.002	0.21	
111.40	114.45	3.05	565122	CAP	WRGD	3	10440	<0.01	0.002	0.21	
114.45	117.65	3.20	565123	CAP	WRGD	3	10620	<0.01	0.001	0.10	
117.65	121.01	3.36	565124	CAP	WRGD	3	10000	<0.01	<0.001	0.21	
121.01	122.84	1.83	565125	CAP	WRGD	5	7000	<0.01	<0.001	0.31	
122.84	127.10	4.26	565126	CAP	WRGD	5	14220	<0.01	<0.001	0.21	
127.10	130.15	3.05	565127	CAP	WRGD	5	13380	<0.01	<0.001	0.14	
130.15	133.20	3.05	565128	SOX	WRGD	5	11980	<0.01	0.002	0.21	
133.20	136.25	3.05	565129	SOX	WRGD	5	11640	<0.01	0.002	0.27	
136.25	139.29	3.04	565130	SUS	WRGD	5	11260	<0.01	0.002	0.21	
139.29	142.34	3.05	565131	SUS	WRGD	5	10860	0.01	0.001	0.62	
142.34	147.08	4.74	565132	SUS	WRGD	5	12360	0.01	0.001	0.14	
147.08	149.66	2.58	565133	SUS	WRGD	5	13780	0.06	0.002	0.14	
149.66	152.70	3.04	565134	SUS	WRGD	5	12100	0.05	0.002	0.14	
152.70	156.06	3.36	565135	SUS	WRGD	5	11960	0.10	0.007	0.17	
156.06	157.89	1.83	565136	SUS	WRGD	5	6600	0.03	0.001	0.10	
157.89	160.48	2.59	565137	SUS	WRGD	5	9320	0.04	0.002	0.14	
160.48	163.53	3.05	565138	SUS	WRGD	5	12260	0.06	0.004	0.07	
163.53	166.72	3.19	565139	SUS	WRGD	5	12680	0.02	0.001	0.07	
166.72	168.59	1.87	565140	SUS	WRGD	5	7900	0.03	0.001	0.10	
168.59	171.75	3.16	565141	SUS	WRGD	5	11060	0.10	0.001	0.17	
171.75	173.43	1.68	565142	SUS	WRGD	5	8260	0.05	0.003	0.10	
173.43	175.87	2.44	565143	SUS	WRGD	5	9560	0.02	0.002	0.10	
175.87	178.61	2.74	565144	SUS	WRGD	5	10900	0.03	0.002	0.10	
178.61	181.96	3.35	565145	SUS	WRGD	5	12500	0.04	0.002	0.14	
181.96	184.71	2.75	565146	SUS	WRGD	5	12460	0.03	0.002	0.17	
184.71	187.76	3.05	565147	SUS	WRGD	5	11720	0.05	0.002	0.21	
187.76	191.72	3.96	565148	SUS	WRGD	5	16760	0.09	0.001	0.24	
191.72	194.16	2.44	565149	SUS	WRGD	5	8320	0.04	0.003	0.21	
194.16	197.21	3.05	565150	SUS	WRGD	5	12660	0.06	0.001	0.17	
197.21	200.25	3.04	565151	SUS	WRGD	5	12600	0.09	0.002	0.07	
200.25	203.30	3.05	565152	TRN	WRGD	5	12800	0.03	0.002	0.10	
203.30	206.35	3.05	565153	TRN	WRGD	5	11900	0.04	0.003	0.14	
206.35	209.40	3.05	565154	TRN	WRGD	5	13220	0.05	0.001	0.17	
209.40	212.45	3.05	565155	TRN	WRGD	5	12760	0.03	0.001	0.17	
212.45	215.49	3.04	565156	TRN	WRGD	5	13520	0.07	0.001	0.21	
215.49	218.54	3.05	565157	TRN	WRGD	5	12600	0.06	0.002	0.24	
218.54	221.59	3.05	565158	TRN	WRGD	5	12360	0.14	0.005	0.24	
221.59	224.64	3.05	565159	TRN	WRGD	5	14300	0.05	0.002	0.21	
224.64	227.69	3.05	565160	TRN	WRGD	5	12700	0.03	0.003	0.14	
227.69	230.73	3.04	565161	TRN	WRGD	5	12760	0.05	0.001	0.14	
230.73	233.78	3.05	565162	TRN	WRGD	5	13000	0.05	0.008	0.24	
233.78	236.83	3.05	565163	TRN	WRGD	5	11160	0.09	0.002	0.24	
236.83	239.88	3.05	565164	TRN	WRGD	5	12560	0.07	0.002	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	565165	TRN	WRGD	5	12480	0.08	0.001	0.14	
242.93	245.97	3.04	565166	TRN	WRGD	5	12700	0.07	0.002	0.34	
245.97	248.41	2.44	565167	TRN	WRGD	5	11080	0.06	0.002	0.14	
248.41	251.46	3.05	565168	TRN	WRGD	5	12320	0.04	0.001	0.24	
251.46	253.59	2.13	565169	TRN	WRGD	5	8380	0.09	0.001	0.17	
253.59	256.64	3.05	565170	TRN	WRGD	5	13900	0.04	0.001	0.10	
256.64	258.17	1.53	565171	TRN	WRGD	5	7100	0.01	0.005	0.07	
258.17	261.21	3.04	565172	TRN	WRGD	5	12560	0.03	0.001	0.31	
261.21	264.26	3.05	565173	TRN	WRGD	5	13860	0.02	0.001	0.41	
264.26	267.31	3.05	565174	TRN	WRGD	5	13680	0.04	0.001	1.23	
267.31	271.42	4.11	565175	TRN	WRGD	5	18340	0.02	0.002	0.24	
271.42	274.62	3.20	565176	TRN	WRGD	5	14220	0.04	0.002	0.14	
274.62	278.28	3.66	565177	TRN	WRGD	5	15740	0.02	0.001	0.10	
278.28	281.94	3.66	565178	TRN	WRGD	5	17220	0.06	0.002	0.07	
281.94	284.38	2.44	565179	TRN	WRGD	5	11200	0.05	0.001	0.10	
284.38	287.43	3.05	565180	TRN	WRGD	5	12480	0.04	0.002	<0.03	
287.43	289.41	1.98	565181	HYP	WRGD	5	8240	0.03	0.002	<0.03	
289.41	291.69	2.28	565182	HYP	WRGD	5	10140	0.04	0.004	<0.03	
291.69	294.74	3.05	565183	HYP	WRGD	5	13240	0.02	0.004	0.07	
294.74	298.40	3.66	565184	HYP	WRGD	5	15060	0.01	0.002	<0.03	
298.40	300.84	2.44	565185	HYP	WRGD	5	10220	0.02	0.002	0.07	
300.84	303.58	2.74	565186	HYP	WRGD	5	13560	0.03	0.003	0.07	
303.58	306.32	2.74	565187	HYP	WRGD	5	10520	0.02	0.001	0.10	
306.32	309.37	3.05	565188	HYP	WRGD	5	14800	0.02	0.002	0.21	
309.37	313.03	3.66	565189	HYP	WRGD	5	15940	0.05	0.006	0.17	
313.03	316.08	3.05	565190	HYP	WRGD	5	13240	0.04	0.004	0.27	
316.08	319.13	3.05	565191	HYP	WRGD	5	13560	0.04	0.003	0.07	
319.13	322.17	3.04	565192	HYP	WRGD	5	10980	0.06	0.003	0.21	
322.17	325.22	3.05	565193	HYP	WRGD	5	11640	0.14	0.003	0.17	
325.22	328.27	3.05	565194	HYP	WRGD	5	11840	0.06	0.004	0.14	
328.27	331.32	3.05	565195	HYP	WRGD	5	13320	0.02	0.003	0.27	
331.32	334.96	3.64	565196	HYP	WRGD	5	11440	0.06	0.002	0.14	
334.96	337.42	2.46	565197	HYP	WRGD	5	12080	0.06	0.003	0.14	
337.42	340.00	2.58	565198	HYP	WRGD	5	10940	0.05	0.006	0.21	
340.00	343.05	3.05	565199	HYP	WRGD	5	13020	0.07	0.010	0.10	
343.05	346.10	3.05	565200	HYP	WRGD	5	12700	0.06	0.002	0.10	
346.10	349.18	3.08	565201	HYP	WRGD	5	12760	0.06	0.006	0.14	
349.18	352.20	3.02	565202	HYP	WRGD	5	12320	0.07	0.016	0.14	
352.20	355.09	2.89	565203	HYP	WRGD	5	11660	0.08	0.011	0.14	
355.09	358.75	3.66	565204	HYP	WRGD	5	14600	0.05	0.002	0.10	
358.75	361.80	3.05	565205	HYP	WRGD	5	13340	0.11	0.008	0.24	
361.80	364.85	3.05	565206	HYP	WRGD	5	12540	0.06	0.003	0.10	
364.85	367.89	3.04	565207	HYP	WRGD	5	13980	0.06	0.002	0.14	
367.89	370.94	3.05	565208	HYP	WRGD	5	13060	0.06	0.002	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
370.94	373.99	3.05	565209	HYP	WRGD	5	13300	0.09	0.004	0.27	
373.99	377.34	3.35	565210	HYP	WRGD	5	10800	0.05	0.003	0.14	
377.34	380.39	3.05	565211	HYP	WRGD	5	11240	0.07	0.004	0.14	
380.39	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-196	Total Depth	483.72 m		
Northing	254,299.21	Casing Depth	4.27 m		Left Out
Easting	110,699.43	Survey Data	Azimuth	Dip	Instrument
Elevation	1404.20 m	Collar		-90.0°	
Core Size	HQ	157.58 m	083°	-89.3°	Sperry Sun
Drilling Started	August 17, 1993	306.93 m	108°	-88.9°	Sperry Sun
Drilling Finished	August 25, 1993	462.38 m	072°	-88.6°	Sperry Sun
Logged by	W. Mann/M. Sze				

Purpose/Target: To delineate southern extent of mineralization.

Comments: Hole intersected Dawson Range granodiorite and a small latite dyke.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	5.94	2.89	571644	CAP	WRGD	3/5	6200	<0.01	0.002	0.24	
5.94	8.38	2.44	571645	CAP	WRGD	3/5	7360	<0.01	0.001	0.51	
8.38	10.52	2.14	571646	CAP	WRGD	3/5	6860	<0.01	0.001	0.31	
10.52	12.80	2.28	571647	CAP	WRGD	3/5	9120	<0.01	0.006	0.51	
12.80	14.94	2.14	571648	CAP	WRGD	3/5	5520	<0.01	0.002	0.41	
14.94	17.07	2.13	571649	CAP	WRGD	3/5	6980	<0.01	0.002	0.55	
17.07	20.42	3.35	571650	CAP	WRGD	3/5	11880	<0.01	0.003	0.34	
20.42	23.47	3.05	571651	CAP	WRGD	3/5	11040	<0.01	0.003	0.96	
23.47	26.52	3.05	571652	CAP	WRGD	3/5	10200	0.04	0.002	0.48	
26.52	29.41	2.89	571653	CAP	WRGD	3/5	8760	0.01	0.002	0.62	
29.41	32.46	3.05	571654	CAP	WRGD	3/5	9940	<0.01	0.002	0.38	
32.46	35.66	3.20	571655	CAP	WRGD	5/3	10640	0.01	0.001	2.47	
35.66	38.71	3.05	571656	CAP	WRGD	5/3	9080	<0.01	0.002	0.41	
38.71	41.45	2.74	571657	CAP	WRGD	5/3	8280	<0.01	0.001	0.27	
41.45	44.50	3.05	571658	CAP	WRGD	5/3	8140	<0.01	0.001	0.31	
44.50	47.55	3.05	571659	CAP	WRGD	5/3	9380	0.02	0.001	0.41	
47.55	50.29	2.74	571660	CAP	WRGD	5/3	8620	<0.01	0.002	0.41	
50.29	52.43	2.14	571661	CAP	WRGD	5/3	6180	<0.01	0.001	0.31	
52.43	55.47	3.04	571662	CAP	WRGD	5/3	7560	0.01	0.001	0.34	
55.47	58.22	2.75	571663	CAP	WRGD	5/3	8220	<0.01	0.003	0.62	
58.22	61.26	3.04	571664	CAP	WRGD	5/3	6200	<0.01	0.001	0.79	
61.26	64.31	3.05	571665	CAP	WRGD	5/3	5540	<0.01	0.001	0.45	
64.31	67.67	3.36	571666	CAP	WRGD	5/3	9500	<0.01	0.003	0.24	
67.67	69.19	1.52	571667	CAP	WRGD	5/3	3820	0.01	0.005	0.41	
69.19	72.09	2.90	571668	CAP	WRGD	5/3	8660	0.02	0.005	0.31	
72.09	74.83	2.74	571669	CAP	WRGD	5/3	7200	0.01	0.003	0.31	
74.83	76.96	2.13	571670	CAP	WRGD	5/3	5560	0.01	0.006	0.27	
76.96	79.86	2.90	571671	CAP	WRGD	5/3	5760	0.01	0.012	0.24	
79.86	83.36	3.50	571672	CAP	WRGD	5/3	8460	0.01	0.007	0.24	
83.36	86.26	2.90	571673	CAP	WRGD	5/3	10280	0.04	0.005	0.24	
86.26	90.53	4.27	571674	CAP	WRGD	5/3	14580	0.02	0.004	0.24	
90.53	93.57	3.04	571675	CAP	WRGD	5/3	10680	0.01	0.006	0.24	
93.57	96.62	3.05	571676	CAP	WRGD	5/3	10000	0.01	0.008	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
96.62	99.52	2.90	571677	CAP	WRGD	5/3	8880	0.01	0.004	0.27	
99.52	102.57	3.05	571678	CAP	WRGD	5/3	9380	0.01	0.006	0.38	
102.57	105.77	3.20	571679	CAP	WRGD	5/3	8100	0.01	0.006	0.34	
105.77	109.12	3.35	571680	CAP	WRGD	3/5	8440	0.01	0.005	0.27	
109.12	112.78	3.66	571681	CAP	WRGD	3/5	11240	0.01	0.009	0.38	
112.78	116.43	3.65	571682	CAP	WRGD	3/5	11920	0.02	0.007	0.38	
116.43	120.09	3.66	571683	CAP	WRGD	3/5	13600	0.01	0.004	0.34	
120.09	123.44	3.35	571684	CAP	WRGD	3/5	10580	0.01	0.005	0.38	
123.44	125.88	2.44	571685	CAP	WRGD	3/5	7820	0.01	0.009	0.41	
125.88	128.32	2.44	571686	SOX	WRGD	5/3	7980	0.01	0.013	1.17	
128.32	130.15	1.83	571687	SOX	WRGD	5/3	5800	0.01	0.009	0.31	
130.15	133.20	3.05	571688	SOX	WRGD	5/3	12020	0.02	0.011	0.45	
133.20	136.86	3.66	571689	SOX	WRGD	5/3	12920	0.01	0.007	0.34	
136.86	139.29	2.43	571690	SOX	WRGD	5/3	10480	0.01	0.006	0.24	
139.29	142.65	3.36	571691	SOX	WRGD	5/3	12950	0.01	0.006	0.24	
142.65	145.37	2.72	571692	SOX	WRGD	5/3	11360	0.02	0.007	0.38	
145.37	148.44	3.07	571693	SOX	WRGD	5/3	12180	0.02	0.003	0.21	
148.44	151.49	3.05	571694	SOX	WRGD	5/3	11180	0.07	0.003	0.21	
151.49	154.53	3.04	571695	SOX	WRGD	5/3	11080	0.05	0.004	0.31	
154.53	157.58	3.05	571696	SUS	WRGD	5/3	12560	0.10	0.004	0.38	
157.58	160.63	3.05	571697	SUS	LTDA	1/5	12000	0.25	0.001	0.51	
160.63	163.68	3.05	571698	SUS	LTDA	1/5	12480	0.17	0.001	0.27	
163.68	166.73	3.05	571699	SUS	LTDA	1/5	13450	0.11	0.003	0.31	
166.73	169.01	2.28	571700	SUS	WRGD	5/7	8460	0.08	0.002	0.24	
169.01	172.06	3.05	571701	SUS	WRGD	5/7	12960	0.14	0.003	0.21	
172.06	174.65	2.59	571702	SUS	WRGD	5/7	13300	0.15	0.006	0.31	
174.65	177.70	3.05	571703	SUS	WRGD	5/7	13180	0.12	0.003	0.21	
177.70	180.14	2.44	571704	SUS	WRGD	5/7	10000	0.18	0.004	0.31	
180.14	182.88	2.74	571705	SUS	WRGD	5/7	10650	0.12	0.001	0.21	
182.88	184.86	1.98	571706	SUS	WRGD	5/7	7600	0.22	0.005	0.17	
184.86	187.76	2.90	571707	SUS	WRGD	5/7	11500	0.16	0.004	0.17	
187.76	190.80	3.04	571708	SUS	WRGD	5/7	12200	0.15	0.002	0.17	
190.80	193.85	3.05	571709	SUS	WRGD	5/7	12160	0.18	0.021	0.21	
193.85	196.90	3.05	571710	SUS	WRGD	5/7	13200	0.12	0.002	0.27	
196.90	199.95	3.05	571711	SUS	WRGD	5/7	13500	0.14	0.005	0.10	
199.95	201.78	1.83	571712	SUS	WRGD	5/7	7600	0.09	0.006	0.14	
201.78	204.83	3.05	571713	SUS	WRGD	5/7	11200	0.15	0.002	0.17	
204.83	207.87	3.04	571714	SUS	WRGD	5/7	11900	0.26	0.004	0.21	
207.87	209.40	1.53	571715	SUS	WRGD	5/7	7000	0.16	0.004	0.21	
209.40	212.45	3.05	571716	SUS	WRGD	5/7	12000	0.15	0.010	0.14	
212.45	215.49	3.04	571717	SUS	WRGD	5/7	8700	0.11	0.004	0.17	
215.49	218.54	3.05	571718	SUS	WRGD	5/7	12300	0.11	0.004	0.14	
218.54	221.59	3.05	571719	SUS	WRGD	5/7	11000	0.18	0.002	0.17	
221.59	223.88	2.29	571720	SUS	WRGD	5/7	9250	0.10	0.001	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
223.88	227.08	3.20	571721	SUS	WRGD	5/7	11700	0.10	0.002	0.17	
227.08	230.12	3.04	571722	SUS	WRGD	5/7	11400	0.12	0.002	0.21	
230.12	233.17	3.05	571723	SUS	WRGD	5/7	13950	0.11	0.007	0.21	
233.17	235.92	2.75	571724	SUS	WRGD	5/7	11320	0.07	0.002	0.45	
235.92	238.96	3.04	571725	TRN	WRGD	5/7	12100	0.10	0.002	0.75	
238.96	242.93	3.97	571726	TRN	WRGD	5/7	16880	0.07	0.004	0.14	
242.93	244.75	1.82	571727	TRN	WRGD	5/7	7360	0.11	0.004	0.21	
244.75	247.65	2.90	571728	TRN	WRGD	5/7	10640	0.17	0.020	0.24	
247.65	250.70	3.05	571729	TRN	WRGD	5	12800	0.10	0.003	0.17	
250.70	253.90	3.20	571730	TRN	WRGD	5	12200	0.08	0.003	0.17	
253.90	257.56	3.66	571731	TRN	WRGD	5	14800	0.05	0.002	0.17	
257.56	260.60	3.04	571732	TRN	WRGD	5	12200	0.06	0.001	0.10	
260.60	263.80	3.20	571733	TRN	WRGD	5	11960	0.09	0.002	0.10	
263.80	267.31	3.51	571734	TRN	WRGD	5	13560	0.06	0.004	0.14	
267.31	269.75	2.44	571735	TRN	WRGD	5	9120	0.05	0.002	0.17	
269.75	272.80	3.05	571736	TRN	WRGD	3/5	12560	0.10	0.002	0.21	
272.80	276.00	3.20	571737	TRN	WRGD	5/7	12580	0.10	0.017	0.17	
276.00	280.11	4.11	571738	TRN	WRGD	5/7	14720	0.11	0.007	0.27	
280.11	282.55	2.44	571739	TRN	WRGD	5/7	9360	0.07	0.002	0.17	
282.55	285.29	2.74	571740	TRN	WRGD	5/7	10800	0.07	0.005	0.14	
285.29	288.34	3.05	571741	TRN	WRGD	3/5	12320	0.09	0.004	0.17	
288.34	290.78	2.44	571742	TRN	WRGD	5	9760	0.08	0.005	0.10	
290.78	293.37	2.59	571743	TRN	WRGD	5	9600	0.09	0.011	0.10	
293.37	296.42	3.05	571744	TRN	WRGD	3/5	11460	0.08	0.008	0.14	
296.42	299.47	3.05	571745	TRN	WRGD	5	11220	0.08	0.013	0.14	
299.47	300.84	1.37	571746	TRN	WRGD	5	5600	0.10	0.005	0.10	
300.84	303.89	3.05	571747	TRN	WRGD	5	11200	0.09	0.010	0.17	
303.89	306.93	3.04	571748	TRN	WRGD	5	11260	0.09	0.009	0.17	
306.93	309.98	3.05	571749	TRN	WRGD	3/5	11320	0.06	0.001	0.14	
309.98	313.03	3.05	571750	TRN	WRGD	3/5	11760	0.06	0.003	0.10	
313.03	315.77	2.74	571751	TRN	WRGD	5/7	11520	0.06	0.016	0.07	
315.77	318.82	3.05	571752	TRN	WRGD	5/7	10600	0.07	0.035	0.10	
318.82	321.56	2.74	571753	TRN	WRGD	5/7	10660	0.16	0.004	0.24	
321.56	324.61	3.05	571754	TRN	WRGD	5/7	10120	0.06	0.009	0.10	
324.61	327.36	2.75	571755	TRN	WRGD	5/7	10000	0.09	0.013	0.10	
327.36	331.32	3.96	571756	TRN	WRGD	5/7	15700	0.07	0.014	0.07	
331.32	334.37	3.05	571757	TRN	WRGD	5/7	12060	0.10	0.009	0.17	
334.37	337.41	3.04	571758	TRN	WRGD	5/7	12560	0.07	0.004	0.10	
337.41	340.46	3.05	571759	TRN	WRGD	5/7	13500	0.07	0.009	0.10	
340.46	343.51	3.05	571760	TRN	WRGD	5/7	12700	0.07	0.004	0.07	
343.51	346.56	3.05	571761	TRN	WRGD	5/7	13620	0.08	0.002	0.10	
346.56	349.61	3.05	571762	TRN	WRGD	5/7	13300	0.08	0.004	0.10	
349.61	352.65	3.04	571763	TRN	WRGD	5/7	12560	0.05	0.009	0.07	
352.65	355.70	3.05	571764	TRN	WRGD	5/7	13060	0.05	0.006	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
355.70	358.75	3.05	571765	TRN	WRGD	5	13180	0.07	0.010	0.24	
358.75	361.80	3.05	571766	HYP	WRGD	5	13020	0.09	0.007	0.14	
361.80	364.85	3.05	571767	HYP	WRGD	5	12580	0.17	0.018	0.90	
364.85	367.13	2.28	571768	HYP	WRGD	5	9820	0.07	0.004	0.07	
367.13	370.03	2.90	571769	HYP	WRGD	5	12300	0.07	0.006	0.07	
370.03	373.08	3.05	571770	HYP	WRGD	5	12400	0.06	0.007	0.03	
373.08	376.12	3.04	571771	HYP	WRGD	5/7	10340	0.07	0.006	0.10	
376.12	379.02	2.90	571772	HYP	WRGD	5/7	11020	0.08	0.016	0.14	
379.02	383.13	4.11	571773	HYP	WRGD	5/7	15640	0.11	0.003	0.24	
383.13	386.18	3.05	571774	HYP	WRGD	5/7	12520	0.05	0.003	0.07	
386.18	389.23	3.05	571775	HYP	WRGD	5/7	11900	0.09	0.003	0.10	
389.23	392.28	3.05	571776	HYP	WRGD	5/7	11920	0.08	0.002	0.10	
392.28	395.33	3.05	571777	HYP	WRGD	5/7	12520	0.10	0.003	0.07	
395.33	398.37	3.04	571778	HYP	WRGD	5/7	12700	0.15	0.005	0.07	
398.37	401.42	3.05	571779	HYP	WRGD	5/7	14040	0.07	0.004	0.07	
401.42	404.47	3.05	571780	HYP	WRGD	5/7	12760	0.06	0.002	0.10	
404.47	407.52	3.05	571781	HYP	WRGD	5/7	13640	0.06	0.005	0.03	
407.52	410.57	3.05	571782	HYP	WRGD	5/7	13540	0.02	0.002	0.03	
410.57	413.46	2.89	571783	HYP	WRGD	5/7	13340	0.03	0.004	0.07	
413.46	416.66	3.20	571784	HYP	WRGD	5/7	13840	0.07	0.006	0.07	
416.66	419.71	3.05	571785	HYP	WRGD	5/7	12560	0.05	0.002	0.10	
419.71	421.69	1.98	571786	HYP	WRGD	5/7	8280	0.04	0.002	0.10	
421.69	423.67	1.98	571787	HYP	WRGD	5/7	8900	0.04	0.003	0.10	
423.67	425.81	2.14	571788	HYP	WRGD	5/7	9280	0.06	0.009	0.10	
425.81	428.85	3.04	571789	HYP	WRGD	5/7	13580	0.05	0.002	0.07	
428.85	431.90	3.05	571790	HYP	WRGD	5/7	13380	0.13	0.003	0.07	
431.90	434.95	3.05	571791	HYP	WRGD	5/7	13060	0.04	0.003	<0.03	
434.95	438.00	3.05	571792	HYP	WRGD	5/7	13120	0.02	0.001	<0.03	
438.00	440.05	2.05	571793	HYP	WRGD	5/7	13060	0.03	0.001	0.07	
440.05	444.09	4.04	571794	HYP	WRGD	5/7	12400	0.06	0.002	0.03	
444.09	447.14	3.05	571795	HYP	WRGD	5/7	11780	0.11	0.007	0.10	
447.14	450.19	3.05	571796	HYP	WRGD	5/7	11360	0.06	0.002	0.07	
450.19	452.93	2.74	571797	HYP	WRGD	5/7	10960	0.05	0.004	<0.03	
452.93	456.13	3.20	571798	HYP	WRGD	5/7	12160	0.08	0.002	0.07	
456.13	459.18	3.05	571799	HYP	WRGD	5/7	12660	0.14	0.007	0.17	
459.18	462.23	3.05	571800	HYP	WRGD	5/7	12200	0.04	0.002	0.10	
462.23	465.43	3.20	571801	HYP	WRGD	5/7	12700	0.12	0.005	0.21	
465.43	468.48	3.05	571802	HYP	WRGD	5/7	12320	0.06	0.007	0.10	
468.48	471.37	2.89	571803	HYP	WRGD	5/7	10620	0.17	0.005	0.75	
471.37	474.42	3.05	571804	HYP	WRGD	5/7	11900	0.06	0.003	0.07	
474.42	477.62	3.20	571805	HYP	WRGD	5	11760	0.07	0.002	0.14	
477.62	480.67	3.05	571806	HYP	WRGD	5	11700	0.07	0.004	0.10	
480.67	483.72	3.05	571807	HYP	WRGD	5	12100	0.03	0.002	0.10	
483.72	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-197	Total Depth	398.37 m		
Northing	255,141.28	Casing Depth	14.02 m		Left Out
Easting	111,023.01	Survey Data	Azimuth	Dip	Instrument
Elevation	1242.14 m	Collar			
Core Size	HQ	154.53 m	069°	-89.5°	Sperry Sun
Drilling Started	August 23, 1993	303.89 m	115°	-89.5°	Sperry Sun
Drilling Finished	September 1, 1993				
Logged by	C. DeLong				

Purpose/Target: Delineation drilling.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.10	6.10		OVB							
6.10	8.23	2.13	569996	TRN	YMDR	7	1400	0.34	0.045	0.41	
8.23	12.19	3.96	569997	TRN	YMDR	7	7720	0.42	0.049	0.69	
12.19	15.85	3.66	569998	TRN	IXAC	7	8500	0.20	0.037	0.55	
15.85	17.37	1.52	569999	TRN	IXAC	7	5900	0.08	0.041	0.24	
17.37	20.42	3.05	570000	TRN	IXAC	7	11060	0.13	0.047	0.14	
20.42	22.56	2.14	587501	TRN	IXAC	7	8000	0.15	0.092	0.27	
22.56	25.60	3.04	587502	TRN	IXAC	7	11280	0.15	0.033	0.34	
25.60	28.65	3.05	587503	TRN	IXAC	7	10980	0.22	0.048	0.34	
28.65	31.70	3.05	587504	TRN	IXAC	7	9220	0.11	0.025	0.14	
31.70	34.44	2.74	587505	TRN	IXAC	7	10700	0.08	0.031	0.21	
34.44	37.49	3.05	587506	TRN	IXAC	7	10200	0.19	0.041	0.21	
37.49	40.54	3.05	587507	TRN	IXAC	7	10480	0.24	0.071	0.48	
40.54	41.76	1.22	587508	TRN	IXAC	7	4140	0.36	0.053	0.51	
41.76	44.81	3.05	587509	TRN	IXAC	7	11300	0.23	0.064	0.75	
44.81	47.85	3.04	587510	TRN	IXAC	7	10100	0.09	0.017	0.17	
47.85	50.90	3.05	587511	TRN	QMIE	7	12240	0.07	0.033	0.14	
50.90	53.64	2.74	587512	TRN	QMIE	7	10980	0.07	0.041	0.14	
53.64	55.47	1.83	587513	TRN	QMIE	7	6260	0.17	0.045	0.14	
55.47	58.52	3.05	587514	TRN	QMIE	7	11440	0.05	0.016	0.10	
58.52	61.56	3.04	587515	TRN	QMIE	7	12360	0.17	0.031	0.14	
61.56	64.61	3.05	587516	TRN	QMIE	7	9420	0.12	0.025	0.14	
64.61	66.14	1.53	587517	TRN	QMIE	7	2400	0.18	0.037	0.14	
66.14	69.19	3.05	587518	TRN	QMIE	7	10260	0.09	0.020	0.10	
69.19	72.85	3.66	587519	TRN	IXAF	7	11800	0.25	0.025	0.10	
72.85	76.20	3.35	587520	TRN	F/ZN	3	12940	0.39	0.068	0.41	
76.20	79.25	3.05	587521	TRN	F/ZN	3	6880	0.29	0.042	0.31	
79.25	82.30	3.05	587522	TRN	F/ZN	3	10800	0.38	0.049	0.34	
82.30	84.14	1.84	587523	TRN	F/ZN	3	3460	0.35	0.070	0.65	
84.14	87.48	3.34	587524	TRN	IXAC	7	9400	0.43	0.041	0.99	
87.48	90.53	3.05	587525	SUS	IXAC	7	13740	0.56	0.061	0.82	
90.53	93.57	3.04	587526	SUS	IXAC	7	11280	0.22	0.112	0.45	
93.57	96.62	3.05	587527	SUS	IXAC	7	10800	0.17	0.037	0.34	
96.62	99.67	3.05	587528	SUS	IXAC	7	10700	0.23	0.044	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.67	102.72	3.05	587529	SUS	IXAC	7	9820	0.25	0.041	0.27	
102.72	105.77	3.05	587530	SUS	IXAC	7	8800	0.22	0.044	0.31	
105.77	108.81	3.04	587531	SUS	IXAC	7	8700	0.40	0.082	0.62	
108.81	111.86	3.05	587532	SUS	IXAC	7	9800	0.17	0.041	0.27	
111.86	115.21	3.35	587533	SUS	IXAC	7	9880	0.24	0.021	0.34	
115.21	118.57	3.36	587534	SUS	IXAC	7	9980	0.16	0.021	0.24	
118.57	121.92	3.35	587535	SUS	IXAC	7	10060	0.18	0.014	0.14	
121.92	124.05	2.13	587536	SUS	IXAC	7	5400	0.22	0.023	0.24	
124.05	127.10	3.05	587537	SUS	IXAC	7	9480	0.18	0.052	0.17	
127.10	130.15	3.05	587538	SUS	IXAC	7	8940	0.20	0.040	0.21	
130.15	133.20	3.05	587539	SUS	IXAC	7	10300	0.13	0.033	0.14	
133.20	136.25	3.05	587540	SUS	IXAC	7	11540	0.20	0.032	0.21	
136.25	139.29	3.04	587541	SUS	IXAC	7	10740	0.20	0.039	0.17	
139.29	142.34	3.05	587542	SUS	IXAC	7	9060	0.20	0.096	0.31	
142.34	145.39	3.05	587543	SUS	IXAC	7	9620	0.20	0.051	0.34	
145.39	148.44	3.05	587544	SUS	IXAC	7	7140	0.23	0.075	0.38	
148.44	150.57	2.13	587545	SUS	IXAC	7	5980	0.16	0.037	0.31	
150.57	153.01	2.44	587546	SUS	IXAC	7	7100	0.15	0.026	0.17	
153.01	154.53	1.52	587547	SUS	IXAC	7	5200	0.14	0.029	0.14	
154.53	157.28	2.75	587548	SUS	IXAC	7	6400	0.23	0.049	0.21	
157.28	160.63	3.35	587549	SUS	IXAC	7	8000	0.14	0.034	0.17	
160.63	163.68	3.05	587550	SUS	IXAC	7	4480	0.09	0.023	0.14	
163.68	166.73	3.05	587551	SUS	IXAC	7	7480	0.10	0.026	0.14	
166.73	169.77	3.04	587552	SUS	IXAC	7	8560	0.19	0.031	0.27	
169.77	172.82	3.05	587553	SUS	IXAC	7	7640	0.17	0.079	0.24	
172.82	174.65	1.83	587554	SUS	IXAC	7	3780	0.08	0.071	0.14	
174.65	178.00	3.35	587555	SUS	IXAC	7	11000	0.09	0.031	0.10	
178.00	181.05	3.05	587556	SUS	IXAC	7	9000	0.11	0.041	0.14	
181.05	184.71	3.66	587557	SUS	IXAC	7	8640	0.14	0.121	0.21	
184.71	188.06	3.35	587558	SUS	IXAC	7	8820	0.15	0.053	0.34	
188.06	190.80	2.74	587559	SUS	IXAC	7	5720	0.13	0.045	0.24	
190.80	193.55	2.75	587560	SUS	IXAC	7	8560	0.10	0.232	0.24	
193.55	196.60	3.05	587561	HYP	IXAC	7	12320	0.19	0.116	0.24	
196.60	200.25	3.65	587562	HYP	IXAC	7	16180	0.27	0.054	0.31	
200.25	203.30	3.05	587563	HYP	IXAC	7	13360	0.16	0.068	0.24	
203.30	206.35	3.05	587564	HYP	IXAC	7	12240	0.14	0.065	0.24	
206.35	209.40	3.05	587565	HYP	IXAC	7	11860	0.15	0.087	0.17	
209.40	212.45	3.05	587566	HYP	IXAC	7	13040	0.13	0.101	0.21	
212.45	215.49	3.04	587567	HYP	IXAC	7	12400	0.14	0.099	0.24	
215.49	218.54	3.05	587568	HYP	IXAC	7	12540	0.10	0.111	0.14	
218.54	221.59	3.05	587569	HYP	IXAC	7	12220	0.15	0.089	0.24	
221.59	224.64	3.05	587570	HYP	IXAC	7	12560	0.22	0.080	0.38	
224.64	227.69	3.05	587571	HYP	IXAC	7	12740	0.15	0.052	0.34	
227.69	230.73	3.04	587572	HYP	IXAC	7	12260	0.23	0.097	0.65	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.73	233.78	3.05	587573	HYP	IXAC	7	12920	0.14	0.116	0.24	
233.78	236.83	3.05	587574	HYP	IXAF	7	12140	0.10	0.085	0.38	
236.83	239.88	3.05	587575	HYP	IXAF	7	12040	0.10	0.080	0.24	
239.88	242.93	3.05	587576	HYP	IXAF	7	11880	0.11	0.096	0.17	
242.93	245.97	3.04	587577	HYP	IXAF	7	10760	0.11	0.047	0.17	
245.97	249.02	3.05	587578	HYP	IXAC	7	17100	0.10	0.195	0.17	
249.02	252.07	3.05	587579	HYP	IXAC	7	9000	0.10	0.104	0.55	
252.07	255.12	3.05	587580	HYP	IXAC	7	11800	0.11	0.044	0.21	
255.12	258.17	3.05	587581	HYP	IXAC	7	12120	0.28	0.054	0.38	
258.17	261.21	3.04	587582	HYP	QMFZ	7	12060	0.13	0.122	0.24	
261.21	264.26	3.05	587583	HYP	QMFZ	7	10240	0.10	0.078	0.14	
264.26	267.31	3.05	587584	HYP	QMFZ	7	11900	0.10	0.025	0.21	
267.31	270.36	3.05	587585	HYP	QMFZ	7	11560	0.07	0.084	0.69	
270.36	273.41	3.05	587586	HYP	IXAC	7	13840	0.10	0.196	0.17	
273.41	276.45	3.04	587587	HYP	IXAC	7	12480	0.12	0.126	0.34	
276.45	279.50	3.05	587588	HYP	IXAC	7	12800	0.08	0.061	0.17	
279.50	282.55	3.05	587589	HYP	IXAC	7	12160	0.15	0.053	0.31	
282.55	285.60	3.05	587590	HYP	IXAC	7	13060	0.07	0.065	0.17	
285.60	288.65	3.05	587591	HYP	IXAC	7	12120	0.05	0.028	0.14	
288.65	291.69	3.04	587592	HYP	IXAC	7	11560	0.08	0.039	0.21	
291.69	294.74	3.05	587593	HYP	IXAC	7	13040	0.46	0.062	0.21	
294.74	297.79	3.05	587594	HYP	IXAC	7	12560	0.22	0.051	0.21	
297.79	300.93	3.14	587595	HYP	IXAC	7	12800	0.13	0.144	0.17	
300.93	303.88	2.95	587596	HYP	IXAC	7	11900	0.10	0.063	0.10	
303.88	306.93	3.05	587597	HYP	IXAC	7	11560	0.22	0.113	0.21	
306.93	309.98	3.05	587598	HYP	IXAC	7	12820	0.15	0.052	0.21	
309.98	313.03	3.05	587599	HYP	IXAC	7	9100	0.11	0.088	0.21	
313.03	316.08	3.05	587600	HYP	IXAC	7	11620	0.09	0.080	0.10	
316.08	318.52	2.44	587601	HYP	IXAC	7	12500	0.14	0.091	0.17	
318.52	321.56	3.04	587602	HYP	IXAC	7	10660	0.14	0.043	0.17	
321.56	324.61	3.05	587603	HYP	IXAC	7	10080	0.11	0.058	0.10	
324.61	327.66	3.05	587604	HYP	IXAC	7	13600	0.18	0.065	0.48	
327.66	331.32	3.66	587605	HYP	IXAC	7	11360	0.08	0.106	0.17	
331.32	334.06	2.74	587606	HYP	IXAC	7	11700	0.07	0.044	0.14	
334.06	337.11	3.05	587607	HYP	IXAC	5/7	11380	0.17	0.065	0.07	
337.11	340.16	3.05	587608	HYP	IXAC	5/7	11800	0.79	0.048	0.31	
340.16	343.20	3.04	587609	HYP	IXAC	5/7	12920	0.42	0.019	0.41	
343.20	346.25	3.05	587610	HYP	IXAC	5/7	11400	0.18	0.028	0.17	
346.25	349.61	3.36	587611	HYP	IXAC	7	14560	0.12	0.041	0.14	
349.61	352.65	3.04	587612	HYP	IXAC	7	14020	0.20	0.145	0.07	
352.65	355.70	3.05	587613	HYP	IXAC	7	13520	0.08	0.019	0.14	
355.70	358.75	3.05	587614	HYP	IXAC	7	13360	0.12	0.026	0.17	
358.75	361.80	3.05	587615	HYP	IXAC	7	13900	0.18	0.050	0.45	
361.80	364.85	3.05	587616	HYP	IXAC	7	14300	0.10	0.039	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
364.85	367.89	3.04	587617	HYP	IXAC	7	13740	0.07	0.041	0.17	
367.89	370.94	3.05	587618	HYP	IXAC	7	13920	0.06	0.061	0.21	
370.94	373.99	3.05	587619	HYP	IXAC	7	13200	0.09	0.052	0.27	
373.99	377.04	3.05	587620	HYP	IXAC	7	13800	0.11	0.081	0.21	
377.04	380.09	3.05	587621	HYP	IXAC	7	13500	0.04	0.053	0.10	
380.09	383.13	3.04	587622	HYP	IXAC	7	13460	0.08	0.032	0.17	
383.13	386.18	3.05	587623	HYP	IXAC	7	12480	0.09	0.094	0.14	
386.18	389.23	3.05	587624	HYP	PPDP	7	13030	0.05	0.022	0.14	
389.23	392.28	3.05	587625	HYP	PPDP	7	13360	0.03	0.023	0.07	
392.28	395.33	3.05	587626	HYP	IXAC	7	12800	0.04	0.013	0.10	
395.33	398.37	3.04	587627	HYP	IXAC	7	12260	0.05	0.013	0.10	
398.37	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-198	Total Depth	392.28 m		
Northing	255,000.65	Casing Depth	4.88 m		Left Out
Easting	110,899.97	Survey Data	Azimuth	Dip	Instrument
Elevation	1292.35 m	Collar		-90.00°	
Core Size	HQ	157.58 m	140°	-89.50°	Sperry Sun
Drilling Started	August 24, 1993	306.63 m	203°	-89.15°	Sperry Sun
Drilling Finished	September 1, 1993				
Logged by	T. Becker/S. de Witt				

Purpose/Target: Delineating hole.

Comments: The hole intersected milled breccia (MBFH, MBCH, MBNX, MBCP) and heterolithic intrusion breccia (IXPA) cut by a Patton Porphyry Dyke.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.88	4.88		OVB							
4.88	8.23	3.35	565212	CAP	MBFH	7/3/5	8060	0.07	0.012	0.21	
8.23	11.28	3.05	565213	CAP	MBFH	7/3/5	8080	0.08	0.011	0.31	
11.28	15.24	3.96	565214	CAP	MBFH	7/3/5	10840	0.09	0.016	0.34	
15.24	17.98	2.74	565215	CAP	MBFH	7/3/5	7420	0.05	0.035	0.48	
17.98	20.75	2.77	565216	CAP	MBFH	7/3/5	9460	0.05	0.020	0.31	
20.75	23.77	3.02	565217	CAP	MBFH	7/3/5	10860	0.05	0.026	0.41	
23.77	27.43	3.66	565218	CAP	MBFH	7/3/5	10240	0.05	0.018	0.31	
27.43	31.39	3.96	565219	CAP	MBFH	7/3/5	12120	0.06	0.025	0.48	
31.39	34.75	3.36	565220	CAP	MBFH	7/3/5	8760	0.06	0.033	0.62	
34.75	37.49	2.74	565221	CAP	MBFH	7/3/5	10760	0.07	0.048	0.58	
37.49	38.71	1.22	565222	CAP	F/ZN	3	3160	0.07	0.018	0.41	
38.71	41.76	3.05	565223	CAP	F/ZN	3	9100	0.12	0.054	0.41	
41.76	44.81	3.05	565224	CAP	MBFH	7/3	9890	0.15	0.055	0.48	
44.81	47.85	3.04	565225	CAP	MBFH	7/3/5	11600	0.11	0.061	0.38	
47.85	50.90	3.05	565226	CAP	MBFH	7/3/5	11400	0.10	0.019	0.55	
50.90	53.95	3.05	565227	CAP	MBFH	7/3/5	10160	0.07	0.074	0.51	
53.95	57.00	3.05	565228	CAP	MBFH	7/3/5	6100	0.06	0.034	0.65	
57.00	60.05	3.05	565229	CAP	MBFH	7/3/5	8020	0.08	0.059	0.38	
60.05	61.87	1.82	565230	CAP	MBFH	7/3/5	13320	0.07	0.041	0.21	
61.87	64.92	3.05	565231	CAP	MBFH	7/3/5	9500	0.07	0.035	0.34	
64.92	67.66	2.74	565232	CAP	MBFH	7/3/5	9100	0.08	0.037	0.62	
67.66	70.41	2.75	565233	CAP	MBFH	7/3/5	9820	0.07	0.038	0.55	
70.41	71.93	1.52	565234	CAP	MBFH	7/3/5	8500	0.07	0.018	0.24	
71.93	74.98	3.05	565235	CAP	MBFH	7/3/5	11700	0.11	0.041	0.45	
74.98	78.03	3.05	565236	CAP	MBFH	7/3/5	12080	0.44	0.051	0.55	
78.03	81.08	3.05	565237	CAP	MBFH	7/3/5	11200	0.22	0.053	0.51	
81.08	83.97	2.89	565238	CAP	MBFH	7/3/5	10020	0.25	0.032	0.48	
83.97	87.02	3.05	565239	CAP	MBFH	7/3/5	9920	0.33	0.042	0.65	
87.02	89.92	2.90	565240	CAP	MBFH	7/3/5	11000	0.64	0.034	1.30	
89.92	92.96	3.04	565241	SUS	MBFH	7/3/5	10580	0.57	0.036	0.69	
92.96	96.32	3.36	565242	SUS	MBFH	7/3/5	10380	0.89	0.016	0.58	
96.32	99.36	3.04	565243	SUS	MBFH	7/5	11560	0.44	0.015	0.31	
99.36	102.41	3.05	565244	SUS	MBFH	7/5	11650	0.38	0.014	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.41	105.77	3.36	565245	SUS	MBFH	7/5	13020	0.56	0.016	0.62	
105.77	109.73	3.96	565246	SUS	MBCH	7/5	10870	0.42	0.011	0.24	
109.73	111.88	2.15	565247	SUS	MBCH	7/5	7000	0.32	0.015	0.10	
111.88	114.91	3.03	565248	SUS	MBCH	7/5	10920	0.53	0.018	0.45	
114.91	117.35	2.44	565249	SUS	MBCH	7/5	9180	0.34	0.042	0.21	
117.35	120.40	3.05	565250	SUS	MBCH	7/5	10300	0.31	0.019	0.27	
120.40	123.44	3.04	565251	SUS	MBCH	7/5	10260	0.41	0.012	0.27	
123.44	126.49	3.05	565252	SUS	MBCH	7/5	9780	0.18	0.017	0.21	
126.49	129.24	2.75	565253	SUS	MBCH	7/5	5460	0.22	0.009	0.31	
129.24	131.67	2.43	565254	SUS	MBCH	7/5	13920	0.23	0.011	0.17	
131.67	135.33	3.66	565255	SUS	MBCH	7/5	7100	0.26	0.015	0.41	
135.33	138.38	3.05	565256	SUS	MBCH	7/2	14420	0.19	0.034	0.21	
138.38	141.43	3.05	565257	SUS	MBCH	7/2	7920	0.13	0.025	0.24	
141.43	143.56	2.13	565258	TRN	MBCH	7/2	11800	0.11	0.016	0.14	
143.56	146.61	3.05	565259	TRN	MBCH	7/2	11360	0.07	0.015	0.10	
146.61	149.66	3.05	565260	TRN	MBCH	7/2	10420	0.14	0.015	0.24	
149.66	152.70	3.04	565261	TRN	MBCH	7/2	11520	0.09	0.016	0.17	
152.70	154.53	1.83	565262	TRN	MBCH	7/2	5800	0.07	0.008	0.14	
154.53	156.88	2.35	565263	TRN	MBCH	7/5	10840	0.23	0.029	0.14	
156.88	160.63	3.75	565264	TRN	MBCH	7/5	11360	0.17	0.028	0.14	
160.63	163.68	3.05	565265	TRN	MBCH	7/5	9640	0.11	0.019	0.24	
163.68	166.73	3.05	565266	TRN	MBCH	7/5	12400	0.12	0.016	0.21	
166.73	169.77	3.04	565267	HYP	MBCH	7/5	10360	0.11	0.032	0.14	
169.77	172.82	3.05	565268	HYP	MBCH	7/5	11900	0.16	0.017	0.21	
172.82	175.87	3.05	565269	HYP	MBCH	7/6/5	10860	0.08	0.012	0.14	
175.87	178.92	3.05	565270	HYP	MBCH	7/6/5	10880	0.11	0.009	0.21	
178.92	181.96	3.04	565271	HYP	MBCH	7/6/5	12020	0.05	0.021	0.07	
181.96	185.01	3.05	565272	HYP	MBCH	7/6/5	11460	0.12	0.019	0.17	
185.01	188.06	3.05	565273	HYP	IXPA	7/5	8840	0.13	0.028	0.27	
188.06	190.19	2.13	565274	HYP	IXPA	7/5	6960	0.15	0.023	0.27	
190.19	192.63	2.44	565275	HYP	IXPA	7/5	8580	0.05	0.035	0.10	
192.63	196.29	3.66	565276	HYP	IXPA	7/5	12500	0.11	0.014	0.14	
196.29	199.34	3.05	565277	HYP	IXPA	7/5	11000	0.10	0.011	0.17	
199.34	201.47	2.13	565278	HYP	IXPA	7/5	8340	0.08	0.013	0.10	
201.47	203.30	1.83	565279	HYP	IXPA	7/5	5740	0.10	0.011	0.10	
203.30	206.35	3.05	565280	HYP	IXPA	7/5	10060	0.08	0.014	0.14	
206.35	209.40	3.05	565281	HYP	IXPA	7/6/5	11840	0.10	0.017	0.14	
209.40	212.44	3.04	565282	HYP	IXPA	7	11180	0.06	0.012	0.10	
212.44	215.49	3.05	565283	HYP	IXPA	7	9620	0.10	0.036	0.14	
215.49	218.54	3.05	565284	HYP	IXPA	7/5	11020	0.12	0.044	0.24	
218.54	221.59	3.05	565285	HYP	IXPA	7/5	7080	0.09	0.018	0.10	
221.59	224.64	3.05	565286	HYP	IXPA	7/5	13380	0.09	0.017	0.17	
224.64	227.69	3.05	565287	HYP	IXPA	7/5	14520	0.13	0.014	0.86	
227.69	230.76	3.07	565288	HYP	IXPA	7/5	11180	0.15	0.055	1.47	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.76	233.78	3.02	565289	HYP	IXPA	7/5	11240	0.22	0.085	0.51	
233.78	236.83	3.05	565290	HYP	IXPA	7/5	11000	0.51	0.130	1.03	
236.83	239.88	3.05	565291	HYP	IXPA	7/5	11740	0.10	0.088	0.24	
239.88	242.93	3.05	565292	HYP	IXPA	7/5	11000	0.06	0.017	0.14	
242.93	245.97	3.04	565293	HYP	IXPA	7/5	11180	0.12	0.048	0.17	
245.97	249.02	3.05	565294	HYP	IXPA	7/5	11380	0.06	0.134	0.07	
249.02	252.06	3.04	565295	HYP	IXPA	7/5	11920	0.06	0.137	0.10	
252.06	255.12	3.06	565296	HYP	IXPA	7/5	11300	0.11	0.063	0.21	
255.12	258.17	3.05	565297	HYP	IXPA	7/5	11080	0.08	0.014	0.10	
258.17	261.21	3.04	565298	HYP	IXPA	7/5	10560	0.04	0.016	0.07	
261.21	264.26	3.05	565299	HYP	IXPA	7	11540	0.02	0.041	0.07	
264.26	267.31	3.05	565300	HYP	IXPA	7	11760	0.03	0.057	0.07	
267.31	270.36	3.05	565301	HYP	IXPA	7	11020	0.04	0.026	0.10	
270.36	273.41	3.05	565302	HYP	IXPA	7	11200	0.04	0.024	0.07	
273.41	276.45	3.04	565303	HYP	IXPA	7	11340	0.11	0.021	0.21	
276.45	279.50	3.05	565304	HYP	IXPA	7/5	11680	0.09	0.054	0.14	
279.50	282.55	3.05	565305	HYP	IXPA	7/5	11060	0.06	0.113	0.10	
282.55	285.60	3.05	565306	HYP	IXPA	7/5	10400	0.09	0.026	0.21	
285.60	288.65	3.05	565307	HYP	IXPA	7/5	12300	0.02	0.013	0.14	
288.65	291.69	3.04	565308	HYP	IXPA	7/5	11040	0.10	0.025	0.17	
291.69	294.74	3.05	565309	HYP	IXPA	7/5	10500	0.08	0.024	0.10	
294.74	297.79	3.05	565310	HYP	IXPA	7/5	11650	0.03	0.012	0.21	
297.79	300.84	3.05	565311	HYP	IXPA	7/5	12250	0.10	0.029	0.10	
300.84	303.89	3.05	565312	HYP	IXPA	7/5	9820	0.11	0.021	0.17	
303.89	306.63	2.74	565313	HYP	IXPA	7/5	12000	0.07	0.017	0.10	
306.63	309.07	2.44	565314	HYP	IXPA	7/5	9500	0.05	0.009	0.10	
309.07	311.20	2.13	565315	HYP	IXPA	7/5	8760	0.11	0.019	0.14	
311.20	314.25	3.05	565316	HYP	IXPA	7/5	11780	0.08	0.019	0.17	
314.25	317.30	3.05	565317	HYP	IXPA	7/5	12740	0.06	0.022	0.10	
317.30	320.34	3.04	565318	HYP	MBXC	7/5	12400	0.16	0.209	0.31	
320.34	323.39	3.05	565319	HYP	MBXC	7/5	11840	0.19	0.243	0.31	
323.39	326.44	3.05	565320	HYP	MBXC	7/5	13080	0.11	0.199	0.24	
326.44	329.49	3.05	565321	HYP	MBXC	7/5	12840	0.21	0.119	0.27	
329.49	332.54	3.05	565322	HYP	MBXC	7/5	12240	0.50	0.157	0.62	
332.54	335.58	3.04	565323	HYP	MBXC	7/5	11540	0.20	0.146	0.24	
335.58	338.63	3.05	565324	HYP	MBCP	7/5	12540	0.06	0.038	0.27	
338.63	340.46	1.83	565325	HYP	MBCP	7/5	7180	0.03	0.052	0.07	
340.46	343.51	3.05	565326	HYP	MBNX	7/5	12820	0.02	0.021	0.07	
343.51	346.56	3.05	565327	HYP	MBNX	7/5	12360	0.09	0.035	0.10	
346.56	349.61	3.05	565328	HYP	MBCP	7/5	12100	0.13	0.041	0.14	
349.61	352.65	3.04	565329	HYP	MBCP	7/5	12840	0.06	0.019	0.07	
352.65	355.70	3.05	565330	HYP	MBCP	7/5	11480	0.10	0.015	0.17	
355.70	358.75	3.05	565331	HYP	MBCP	7/5	11700	0.50	0.042	0.93	
358.75	361.80	3.05	565332	HYP	MBCP	7/5	12450	0.09	0.010	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-198

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
361.80	364.85	3.05	565333	HYP	MBCP	7/5	12870	0.04	0.016	0.07	
364.85	367.89	3.04	565334	HYP	MBCP	7/5	12520	0.09	0.019	0.07	
367.89	370.94	3.05	565335	HYP	MBCP	7/5	12440	0.04	0.015	0.07	
370.94	373.99	3.05	565336	HYP	PPXX	5	13360	0.08	0.032	0.10	
373.99	377.04	3.05	565337	HYP	MBFH	7/5	14380	0.10	0.042	0.10	
377.04	380.09	3.05	565338	HYP	MBFH	7/5	13580	0.10	0.066	0.17	
380.09	383.13	3.04	565339	HYP	MBFH	7/5	13100	0.04	0.055	0.07	
383.13	386.18	3.05	565340	HYP	MBFH	7/5	13920	0.05	0.071	0.07	
386.18	389.23	3.05	565341	HYP	MBFH	7/5	13820	0.04	0.044	0.07	
389.23	392.28	3.05	565342	HYP	MBFH	7/5	13280	0.06	0.041	0.07	
392.28	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-199	Total Depth	449.58 m		
Northing	255,040.17	Casing Depth	26.21 m		Left Out
Easting	111,701.78	Survey Data	Azimuth	Dip	Instrument
Elevation	1168.49 m	Collar			
Core Size	HQ	154.50 m	54°	-89.0°	Sperry Sun
Drilling Started	August 27, 1993	309.98 m	75°	-89.0°	Sperry Sun
Drilling Finished	September 5, 1993	449.58 m	183°	-89.5°	Sperry Sun
Logged by	B. Thurston				

Purpose/Target: Delineate north-east boundary of deposit.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	10.67	10.67		OVB							
10.67	14.32	3.65	571808	CAP	WRGF	3	2030	0.08	0.003	0.10	
14.32	17.37	3.05	571809	CAP	WRGF	3	1920	0.08	0.004	0.14	
17.37	20.73	3.36	571810	CAP	WRGF	3	5400	0.08	0.005	<0.03	
20.73	24.08	3.35	571811	CAP	WRGF	7/3	4480	0.08	0.002	0.14	
24.08	27.13	3.05	571812	CAP	WRGF	7/3	7920	0.10	0.002	0.10	
27.13	30.48	3.35	571813	CAP	WRGF	7/3	9200	0.10	0.002	0.21	
30.48	34.14	3.66	571814	CAP	WRGF	7/3	10700	0.08	0.002	0.24	
34.14	37.03	2.89	571815	SOX	WRGF	7/3	7700	0.07	0.001	0.07	
37.03	39.93	2.90	571816	SUS	WRGF	7/3	9080	0.23	0.003	0.14	
39.93	43.28	3.35	571817	SUS	WRGF	7/5/3	6800	0.62	0.013	0.27	
43.28	46.17	2.89	571818	SUS	WRGF	7/3	8200	0.33	0.003	0.17	
46.17	49.07	2.90	571819	SUS	WRGF	7/3	8960	0.37	0.006	0.17	
49.07	51.97	2.90	571820	HYP	WRGF	4/7/5	9460	0.40	0.010	0.34	
51.97	55.47	3.50	571821	HYP	WRGF	7/5	10560	0.20	0.003	0.10	
55.47	58.52	3.05	571822	HYP	WRGF	7/5	10800	0.34	0.005	0.24	
58.52	61.87	3.35	571823	HYP	WRGF	7/5	10660	0.31	0.003	0.17	
61.87	64.62	2.75	571824	HYP	WRGF	7/5	9480	0.32	0.004	0.31	
64.62	67.36	2.74	571825	HYP	WRGF	7/5	9600	0.42	0.005	0.34	
67.36	70.41	3.05	571826	HYP	WRGF	7/4/5	11240	0.39	0.009	0.45	
70.41	73.46	3.05	571827	HYP	WRGF	7/4/5	11600	0.21	0.003	0.21	
73.46	76.20	2.74	571828	HYP	WRGF	6/7	10780	0.20	0.003	0.17	
76.20	79.25	3.05	571829	HYP	WRGF	6/7	11260	0.24	0.010	0.24	
79.25	82.14	2.89	571830	HYP	WRGF	6/7	9160	0.26	0.006	0.27	
82.14	85.65	3.51	571831	HYP	WRGF	6/7	9500	0.20	0.005	0.14	
85.65	89.15	3.50	571832	HYP	WRGF	1/7	13180	0.32	0.005	0.41	
89.15	92.20	3.05	571833	HYP	WRGF	1/7	11680	0.19	0.004	0.17	
92.20	95.10	2.90	571834	HYP	WRGF	1/7	11140	0.13	0.004	0.14	
95.10	97.23	2.13	571835	HYP	WRGF	1/7	8320	0.17	0.016	0.14	
97.23	99.67	2.44	571836	HYP	WRGF	5/1/7	7380	0.21	0.016	0.17	
99.67	102.41	2.74	571837	HYP	WRGF	1/7	10900	0.27	0.008	0.31	
102.41	105.77	3.36	571838	HYP	QMFX	7/5	11740	0.23	0.006	0.21	
105.77	108.51	2.74	571839	HYP	QMFX	7/5	9880	0.10	0.012	0.07	
108.51	111.56	3.05	571840	HYP	QMFX	7/5	12920	0.10	0.006	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
111.56	114.76	3.20	571841	HYP	QMFX	7/5	12360	0.14	0.010	0.14	
114.76	117.35	2.59	571842	HYP	QMFX	7/5	9400	0.09	0.012	0.03	
117.35	120.40	3.05	571843	HYP	QMFX	7/5	11640	0.11	0.020	0.10	
120.40	124.51	4.11	571844	HYP	QMFX	7/5	16700	0.08	0.007	0.10	
124.51	127.25	2.74	571845	HYP	WRDF	7/1	12860	0.17	0.006	0.14	
127.25	130.15	2.90	571846	HYP	WRDF	7/1	12720	0.28	0.008	0.31	
130.15	133.20	3.05	571847	HYP	WRDF	7/1	12760	0.09	0.003	0.07	
133.20	136.86	3.66	571848	HYP	WRDF	7/1	17300	0.11	0.004	0.14	
136.86	139.29	2.43	571849	HYP	WRDF	7/1/5	11620	0.13	0.002	0.10	
139.29	142.34	3.05	571850	HYP	WRDF	7/1/5	13660	0.15	0.005	0.14	
142.34	145.39	3.05	571851	HYP	WRDF	7/1	14800	0.10	0.004	0.03	
145.39	148.44	3.05	571852	HYP	WRDF	7/1	13100	0.12	0.002	0.10	
148.44	151.49	3.05	571853	HYP	WRDF	7/1	13080	0.10	0.004	0.31	
151.49	154.53	3.04	571854	HYP	WRDF	7/1	14120	0.15	0.012	0.14	
154.53	157.58	3.05	571855	HYP	WRGD	7/1	14300	0.13	0.008	0.10	
157.58	160.63	3.05	571856	HYP	WRGD	7/1	12460	0.16	0.013	0.10	
160.63	163.68	3.05	571857	HYP	WRGD	7/1/5	13860	0.22	0.005	0.21	
163.68	166.73	3.05	571858	HYP	WRGD	7/5/1	12340	0.22	0.019	0.17	
166.73	169.77	3.04	571859	HYP	WRGD	7/5/1	12320	0.29	0.009	0.21	
169.77	172.82	3.05	571860	HYP	WRGD	7/1	11700	0.43	0.006	0.38	
172.82	175.87	3.05	571861	HYP	WRGD	7/1	12520	0.22	0.009	0.17	
175.87	178.92	3.05	571862	HYP	WRGD	7/1	13700	0.17	0.014	0.14	
178.92	181.97	3.05	571863	HYP	WRDR	7/1	12320	0.26	0.014	0.24	
181.97	185.01	3.04	571864	HYP	WRDR	7/1	12240	0.25	0.007	0.24	
185.01	188.06	3.05	571865	HYP	WRDR	7/1	13260	0.12	0.012	0.10	
188.06	191.11	3.05	571866	HYP	WRDR	7/1	13060	0.26	0.015	0.21	
191.11	194.16	3.05	571867	HYP	WRDR	7/1	13120	0.16	0.009	0.07	
194.16	197.21	3.05	571868	HYP	WRDR	7/1	14400	0.17	0.007	0.10	
197.21	200.25	3.04	571869	HYP	WRDR	7/1	14260	0.19	0.014	0.21	
200.25	203.30	3.05	571870	HYP	WRDR	7/1	13560	0.18	0.039	0.14	
203.30	206.35	3.05	571871	HYP	WRDR	7/1	14540	0.19	0.012	0.14	
206.35	209.40	3.05	571872	HYP	WRDR	7/1	13260	0.16	0.008	0.17	
209.40	212.45	3.05	571873	HYP	WRDR	7/1	13420	0.13	0.012	0.10	
212.45	215.49	3.04	571874	HYP	WRDR	7/1	13260	0.19	0.026	0.27	
215.49	218.54	3.05	571875	HYP	WRDR	7/1	14080	0.24	0.019	0.31	
218.54	221.59	3.05	571876	HYP	WRGD	7/1	13420	0.18	0.006	0.17	
221.59	224.64	3.05	571877	HYP	WRGD	7/1	13760	0.14	0.011	0.10	
224.64	227.69	3.05	571878	HYP	WRGD	7/1	14360	0.20	0.011	0.17	
227.69	230.73	3.04	571879	HYP	WRDR	7/1	14020	0.32	0.004	0.24	
230.73	233.78	3.05	571880	HYP	WRDR	7/1/5	13900	0.20	0.019	0.17	
233.78	236.83	3.05	571881	HYP	WRDR	7/1	12960	0.12	0.026	0.17	
236.83	239.88	3.05	571882	HYP	WRDR	7/1	14260	0.11	0.001	0.10	
239.88	242.93	3.05	571883	HYP	WRDR	7/1	14200	0.30	0.005	0.24	
242.93	245.97	3.04	571884	HYP	QMFX	7	11440	0.12	0.012	0.10	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
245.97	249.02	3.05	571885	HYP	QMFX	7	12760	0.08	0.009	0.07	
249.02	252.07	3.05	571886	HYP	QMFX	7/5	12320	0.05	0.009	0.07	
252.07	255.12	3.05	571887	HYP	QMFX	7	13260	0.11	0.014	0.03	
255.12	258.17	3.05	571888	HYP	WRDR	7	12640	0.18	0.013	0.14	
258.17	261.21	3.04	571889	HYP	QMFX	7/6	12040	0.34	0.028	0.96	
261.21	264.26	3.05	571890	HYP	QMFX	7/6	11900	0.11	0.023	0.07	
264.26	267.31	3.05	571891	HYP	QMFX	7/6	13400	0.12	0.015	0.10	
267.31	270.36	3.05	571892	HYP	QMFX	7/6	10860	0.10	0.016	0.10	
270.36	273.41	3.05	571893	HYP	QMFX	7/6	12500	0.09	0.026	0.10	
273.41	276.45	3.04	571894	HYP	QMFX	7/6	12260	0.09	0.010	0.14	
276.45	279.50	3.05	571895	HYP	QMFX	7/6	12380	0.17	0.012	0.21	
279.50	282.55	3.05	571896	HYP	QMFX	7/6	11100	0.14	0.032	0.10	
282.55	285.60	3.05	571897	HYP	QMFX	7/6	11500	0.16	0.011	0.17	
285.60	288.65	3.05	571898	HYP	WRDR	7/1	12700	0.24	0.039	0.17	
288.65	291.69	3.04	571899	HYP	WRDR	7/1	11500	0.28	0.038	0.34	
291.69	294.74	3.05	571900	HYP	WRDR	7/1	13860	0.22	0.018	0.21	
294.74	297.79	3.05	571901	HYP	WRDR	7/1	13700	0.32	0.026	0.21	
297.79	300.84	3.05	571902	HYP	WRDR	7/1	13600	0.24	0.017	0.24	
300.84	303.89	3.05	571903	HYP	WRDR	7/1/5	13460	0.11	0.010	0.07	
303.89	306.93	3.04	571904	HYP	WRDR	7/1	13800	0.34	0.017	0.27	
306.93	309.98	3.05	571905	HYP	WRDR	7/1	12400	0.22	0.015	0.14	
309.98	313.03	3.05	571906	HYP	WRDR	7/1	13980	0.30	0.007	0.17	
313.03	316.08	3.05	571907	HYP	WRDR	7/1	12860	0.16	0.010	0.14	
316.08	319.13	3.05	571908	HYP	WRDR	7/1/5	12720	0.19	0.033	0.14	
319.13	322.17	3.04	571909	HYP	WRDR	7/1	13600	0.35	0.073	0.27	
322.17	325.22	3.05	571910	HYP	WRDR	7/1/5	13900	0.08	0.004	0.07	
325.22	328.27	3.05	571911	HYP	WRDR	7/1/5	13540	0.08	0.109	0.07	
328.27	331.32	3.05	571912	HYP	WRDR	7	12780	0.12	0.003	0.03	
331.32	334.37	3.05	571913	HYP	QMFX	7/6	12000	0.07	0.010	0.10	
334.37	337.41	3.04	571914	HYP	QMFX	7/6/5	12760	0.11	0.007	0.14	
337.41	340.46	3.05	571915	HYP	QMFX	7/6	11040	0.09	0.007	0.10	
340.46	343.51	3.05	571916	HYP	QMFX	7/6	11080	0.07	0.017	0.07	
343.51	346.56	3.05	571917	HYP	QMFX	7/6	12040	0.07	0.004	0.07	
346.56	349.61	3.05	571918	HYP	QMFX	7/6/5	12600	0.10	0.004	0.10	
349.61	352.65	3.04	571919	HYP	QMFX	7/5	12300	0.09	0.009	0.17	
352.65	355.70	3.05	571920	HYP	IXAF	7/5	13100	0.16	0.003	0.14	
355.70	358.75	3.05	571921	HYP	IXAF	7/5	11940	0.22	0.004	0.24	
358.75	361.80	3.05	571922	HYP	IXAF	7	12400	0.14	0.076	0.14	
361.80	365.46	3.66	571923	HYP	WRDR	7/1	16280	0.10	0.009	0.10	
365.46	367.89	2.43	571924	HYP	WRDR	7/1	10400	0.15	0.002	0.07	
367.89	369.72	1.83	571925	HYP	WRDR	7/1	7300	0.18	0.003	0.17	
369.72	373.08	3.36	571926	HYP	WRDR	7/1	12980	0.12	0.015	0.10	
373.08	375.82	2.74	571927	HYP	WRDR	7/1	10400	0.09	0.003	0.10	
375.82	378.71	2.89	571928	HYP	WRDR	7/1	11540	0.35	0.009	0.27	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
378.71	380.09	1.38	571929	HYP	WRDR	7/1	6200	0.26	0.003	0.24	
380.09	383.13	3.04	571930	HYP	WRDR	7/1	12460	0.29	0.021	0.24	
383.13	385.88	2.75	571931	HYP	WRDR	7/1	11640	0.17	0.007	0.14	
385.88	389.08	3.20	571932	HYP	QMFX	7/6	12840	0.08	0.007	0.07	
389.08	392.13	3.05	571933	HYP	QMFX	7/6	8320	0.14	0.012	0.14	
392.13	395.17	3.04	571934	HYP	QMFX	7/6	12400	0.09	0.006	0.10	
395.17	398.37	3.20	571935	HYP	QMFX	7/6	12080	0.12	0.014	0.10	
398.37	401.42	3.05	571936	HYP	QMFX	7/6	11440	0.12	0.012	0.14	
401.42	404.47	3.05	571937	HYP	QMFX	7/6	12740	0.10	0.008	0.07	
404.47	407.52	3.05	571938	HYP	IXAF	7/6	12280	0.05	0.010	0.03	
407.52	410.57	3.05	571939	HYP	IXAF	7/6	12560	0.05	0.012	0.07	
410.57	412.39	1.82	571940	HYP	IXAF	7/6	4740	0.08	0.009	0.07	
412.39	415.59	3.20	571941	HYP	IXAF	7/6	12720	0.04	0.046	<0.03	
415.59	418.64	3.05	571942	HYP	IXAF	7/6	12460	0.07	0.014	0.14	
418.64	421.84	3.20	571943	HYP	IXAF	7/6/5	12480	0.15	0.014	0.21	
421.84	424.89	3.05	571944	HYP	IXAF	7/6/5	12360	0.08	0.011	0.10	
424.89	428.09	3.20	571945	HYP	QMFX	7/5	12460	0.05	0.006	0.10	
428.09	431.14	3.05	571946	HYP	QMFX	7/5	12600	0.04	0.007	0.07	
431.14	434.19	3.05	571947	HYP	QMFX	7/5	13460	0.04	0.010	0.03	
434.19	437.24	3.05	571948	HYP	QMFX	7/5	12920	0.05	0.013	0.07	
437.24	440.44	3.20	571949	HYP	QMFX	7/5	12760	0.05	0.039	0.03	
440.44	443.64	3.20	571950	HYP	QMFX	7/5	13240	0.05	0.099	0.07	
443.64	446.84	3.20	571951	HYP	QMFX	7/5	11460	0.12	0.008	0.17	
446.84	449.58	2.74	571952	HYP	IXAF	7/6	11760	0.09	0.012	0.10	
449.58	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-200	Total Depth	522.12 m		
Northing	254,873.86	Casing Depth	24.38 m		Left Out
Easting	111,448.32	Survey Data	Azimuth	Dip	Instrument
Elevation	1191.11 m	Collar		-90.00°	Brunton Compass
Core Size	NQ	304.8 m	010°	-88.75°	Sperry Sun
Drilling Started	August 26, 1993	484.7 m	020°	-88.50°	Sperry Sun
Drilling Finished	September 6, 1993				
Logged by	M.P. Phillips				

Purpose/Target: To test the area a short distance west of the Casino Creek fault zone and east of 93-174.

Comments: Decreasing copper grade below about 355 m is due to increasing distance with depth from the microbreccia cut in 93-174.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	9.45	9.45		OVB							
9.45	12.50	3.05	575547	SOX	QMFZ	3	7560	0.02	0.005	0.17	
12.50	15.85	3.35	575548	SOX	QMFZ	3	9440	0.02	0.009	0.10	
15.85	18.29	2.44	575549	SOX	QMFZ	3	8720	0.04	0.005	0.07	
18.29	21.34	3.05	575550	SOX	QMFZ	3	7420	0.05	0.005	0.07	
21.34	24.38	3.04	575551	SOX	QMFZ	3	10700	0.02	0.006	0.14	
24.38	27.43	3.05	575552	TRN	QMFZ	3/5	11140	0.02	0.013	0.00	
27.43	30.48	3.05	575553	TRN	QMFX	5/3	10240	0.06	0.008	0.21	
30.48	33.53	3.05	575554	TRN	QMFX	7/4	12860	0.03	0.009	0.07	
33.53	36.58	3.05	575555	SUS	QMFX	5/7	11660	0.08	0.011	0.51	
36.58	39.62	3.04	575556	SUS	QMFX	5/7	13000	0.09	0.022	0.10	
39.62	42.67	3.05	575557	SUS	QMFX	5/3	10120	0.09	0.018	0.03	
42.67	45.72	3.05	575558	SUS	QMFX	5/3	14600	0.08	0.009	0.07	
45.72	48.77	3.05	575559	SUS	QMFX	5/4	13060	0.10	0.007	0.00	
48.77	51.82	3.05	575560	SUS	QMFX	4/5	11680	0.11	0.011	0.07	
51.82	54.86	3.04	575561	SUS	QMFX	4/5	11500	0.07	0.009	0.10	
54.86	57.91	3.05	575562	SUS	QMFX	5/3	11260	0.20	0.007	0.10	
57.91	60.96	3.05	575563	SUS	QMFX	5/3	10440	0.38	0.008	0.10	
60.96	64.01	3.05	575564	SUS	QMFX	5/3	6380	0.33	0.010	0.14	
64.01	67.37	3.36	575565	SUS	QMFX	5	6820	0.61	0.006	0.17	
67.37	70.26	2.89	575566	SUS	QMFX	5/7	6100	0.89	0.003	0.27	
70.26	73.15	2.89	575567	SUS	QMFX	5	8640	0.86	0.013	0.21	
73.15	76.81	3.66	575568	SUS	QMFX	5	12700	0.27	0.009	0.14	
76.81	79.25	2.44	575569	SUS	QMFX	5	8760	0.31	0.006	0.21	
79.25	82.30	3.05	575570	SUS	QMFX	5	12700	0.36	0.003	0.38	
82.30	85.34	3.04	575571	SUS	QMFX	5	12760	0.42	0.009	0.27	
85.34	88.39	3.05	575572	SUS	QXBX	7/4	12000	0.52	0.009	0.58	
88.39	91.44	3.05	575573	SUS	QXBX	7/5	11300	0.38	0.009	0.58	
91.44	94.49	3.05	575574	SUS	QXBX	7/5	13220	0.34	0.010	0.31	
94.49	97.54	3.05	575575	SUS	QXBX	7/4	10940	1.26	0.020	1.35	
97.54	100.58	3.04	575576	SUS	QXBX	7/4	10400	0.22	0.008	0.31	
100.58	103.63	3.05	575577	SUS	QXBX	5	8720	0.46	0.007	0.31	
103.63	106.68	3.05	575578	SUS	QXBX	5	9920	0.31	0.006	0.17	
106.68	109.73	3.05	575579	SUS	QXBX	5	5680	0.28	0.005	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
109.73	112.78	3.05	575580	SUS	QXBX	5	11180	0.47	0.008	0.07	
112.78	115.82	3.04	575581	SUS	QXBX	5	10500	0.35	0.007	0.10	
115.82	118.87	3.05	575582	SUS	QXBX	5	8100	0.16	0.008	0.07	
118.87	121.92	3.05	575583	SUS	QXBX	5	8480	0.25	0.009	0.10	
121.92	124.97	3.05	575584	SUS	QXBX	5	7720	0.19	0.014	0.14	
124.97	128.02	3.05	575585	SUS	QXBX	7/5	9040	0.23	0.004	0.14	
128.02	131.06	3.04	575586	SUS	QXFX	7/5	10200	0.07	0.013	0.10	
131.06	134.11	3.05	575587	SUS	QXFX	7/5	10920	0.15	0.009	0.10	
134.11	137.16	3.05	575588	HYP	QXFX	6/7	9980	0.29	0.023	0.27	
137.16	140.21	3.05	575589	HYP	QXFX	7/6	6860	0.14	0.002	0.21	
140.21	143.26	3.05	575590	HYP	WRGD	7/1	11020	0.15	0.007	0.24	
143.26	146.30	3.04	575591	HYP	WRGD	7/1	9220	0.16	0.005	0.17	
146.30	149.35	3.05	575592	HYP	WRGD	7/1	11500	0.14	0.007	0.21	
149.35	152.40	3.05	575593	HYP	WRGD	7/4	12380	0.13	0.006	0.10	
152.40	155.45	3.05	575594	HYP	WRGD	7/2	9780	0.14	0.008	0.17	
155.45	158.50	3.05	575595	HYP	WRGD	7/1	9860	0.13	0.003	0.21	
158.50	161.54	3.04	575596	HYP	WRGD	7/1	12100	0.13	0.012	0.17	
161.54	164.59	3.05	575597	HYP	WRGD	7/1	12440	0.12	0.003	0.21	
164.59	167.64	3.05	575598	HYP	WRGD	7/1	11980	0.18	0.028	0.21	
167.64	170.69	3.05	575599	HYP	WRGD	4/6	12400	0.13	0.004	0.17	
170.69	173.74	3.05	575600	HYP	WRGD	6/7	11720	0.32	0.010	0.31	
173.74	176.78	3.04	575601	HYP	WRGD	6/3	12200	0.10	0.011	0.10	
176.78	179.83	3.05	575602	HYP	WRGD	6/3	12560	0.14	0.003	0.14	
179.83	182.88	3.05	575603	HYP	WRGD	6/3	11020	0.11	0.003	0.10	
182.88	185.93	3.05	575604	HYP	WRGD	6/3	12360	0.13	0.003	0.17	
185.93	188.98	3.05	575605	HYP	WRGD	6/7	11620	0.16	0.004	0.21	
188.98	192.02	3.04	575606	HYP	WRGD	6/7	11880	0.30	0.030	0.24	
192.02	195.07	3.05	575607	HYP	WRGD	6/7	12320	0.33	0.011	0.38	
195.07	198.12	3.05	575608	HYP	WRGD	6/7	12660	0.28	0.016	0.24	
198.12	201.17	3.05	575609	HYP	WRGD	6/7	12780	0.19	0.006	0.24	
201.17	204.22	3.05	575610	HYP	WRGD	6/7	11860	0.31	0.009	0.41	
204.22	207.26	3.04	575611	HYP	WRGD	6/7	12340	0.19	0.007	0.24	
207.26	210.31	3.05	575612	HYP	WRGD	6/7	12180	0.21	0.011	0.24	
210.31	213.36	3.05	575613	HYP	WRGD	6/7	12440	0.20	0.011	0.17	
213.36	216.41	3.05	575614	HYP	WRGD	6/7	12220	0.30	0.023	0.24	
216.41	219.46	3.05	575615	HYP	WRGD	6/7	13220	0.29	0.007	0.24	
219.46	222.50	3.04	575616	HYP	WRGD	6/7	12340	0.18	0.009	0.24	
222.50	225.55	3.05	575617	HYP	WRGD	6/7	12140	0.24	0.020	0.27	
225.55	228.60	3.05	575618	HYP	WRGD	6/7	11180	0.27	0.008	0.27	
228.60	231.65	3.05	575619	HYP	WRGD	6/7	11100	0.25	0.017	0.34	
231.65	234.70	3.05	575620	HYP	WRGD	6/5	10900	0.15	0.006	0.17	
234.70	237.74	3.04	575621	HYP	WRGD	7/6	11800	0.14	0.004	0.21	
237.74	240.79	3.05	575622	HYP	WRGD	7/6	12040	0.27	0.005	0.45	
240.79	243.84	3.05	575623	HYP	WRGD	7/6	11420	0.22	0.007	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
243.84	246.58	2.74	575624	HYP	WRGD	7/6	9500	0.21	0.006	0.27	
246.58	249.63	3.05	575625	HYP	WRGD	7/6	11600	0.16	0.008	0.21	
249.63	252.83	3.20	575626	HYP	WRGD	7/6	12660	0.14	0.012	0.17	
252.83	255.88	3.05	575627	HYP	WRGD	7/6	12880	0.17	0.003	0.17	
255.88	259.08	3.20	575628	HYP	WRGD	7/5	13460	0.24	0.004	0.21	
259.08	262.13	3.05	575629	HYP	WRGD	7/5	11900	0.28	0.009	0.24	
262.13	265.18	3.05	575630	HYP	WRGD	7/5	12040	0.27	0.004	0.31	
265.18	268.22	3.04	575631	HYP	WRGD	7/5	12440	0.21	0.007	0.24	
268.22	271.27	3.05	575632	HYP	WRGD	7/5	12320	0.13	0.005	0.14	
271.27	274.32	3.05	575633	HYP	WRGD	7/5	12240	0.13	0.002	0.17	
274.32	277.37	3.05	575634	HYP	WRGD	4/5	13080	0.21	0.004	0.24	
277.37	280.42	3.05	575635	HYP	WRGD	7/5	13600	0.16	0.006	0.21	
280.42	283.46	3.04	575636	HYP	WRGD	7/5	11560	0.18	0.004	0.17	
283.46	286.51	3.05	575637	HYP	WRGD	7/4	12880	0.17	0.005	0.24	
286.51	289.56	3.05	575638	HYP	WRGD	7/5	13300	0.19	0.003	0.24	
289.56	292.61	3.05	575639	HYP	WRGD	7/1	13600	0.18	0.005	0.21	
292.61	295.66	3.05	575640	HYP	WRGD	7/1	12550	0.14	0.003	0.17	
295.66	298.70	3.04	575641	HYP	WRGD	7/5	13140	0.12	0.004	0.17	
298.70	301.75	3.05	575642	HYP	WRGD	7/5	13380	0.12	0.008	0.17	
301.75	304.80	3.05	575643	HYP	WRGD	7/5	11800	0.27	0.010	0.38	
304.80	307.54	2.74	575644	HYP	WRGD	7/5	9080	0.40	0.005	0.58	
307.54	310.59	3.05	575645	HYP	WRGD	7/5	12860	0.16	0.003	0.24	
310.59	313.79	3.20	575646	HYP	WRGD	4/7	13380	0.22	0.026	0.31	
313.79	316.84	3.05	575647	HYP	WRGD	7/5	13200	0.10	0.006	0.21	
316.84	320.04	3.20	575648	HYP	WRGD	7/4	13400	0.09	0.003	0.21	
320.04	323.09	3.05	575649	HYP	WRGD	7/2	14180	0.11	0.005	0.17	
323.09	326.14	3.05	575650	HYP	WRGD	7/5	13580	0.06	0.001	0.14	
326.14	329.18	3.04	575651	HYP	WRGD	7/5	13820	0.10	0.002	0.10	
329.18	332.23	3.05	575652	HYP	WRGD	7/5	13620	0.04	0.002	0.10	
332.23	335.28	3.05	575653	HYP	WRGD	5/7	13500	0.02	0.003	0.03	
335.28	338.33	3.05	575654	HYP	WRGD	7/5	13740	0.07	0.007	0.07	
338.33	341.38	3.05	575655	HYP	WRGD	5/7	12880	0.08	0.003	0.07	
341.38	344.42	3.04	575656	HYP	WRGD	4/5	12720	0.06	0.009	0.10	
344.42	347.47	3.05	575657	HYP	WRGD	6/5	13360	0.18	0.004	0.21	
347.47	350.52	3.05	575658	HYP	WRGD	4/5	13800	0.06	0.003	0.07	
350.52	353.57	3.05	575659	HYP	WRGD	4/5	12780	0.06	0.002	0.10	
353.57	356.62	3.05	575660	HYP	WRGD	5/4	13620	0.06	0.012	0.10	
356.62	359.66	3.04	575661	HYP	WRGD	5/4	13540	0.04	0.003	0.10	
359.66	362.71	3.05	575662	HYP	WRGD	5/4	13020	0.05	0.006	0.07	
362.71	365.76	3.05	575663	HYP	WRGD	4/5	12020	0.06	0.012	0.07	
365.76	368.81	3.05	575664	HYP	WRGD	5/4	13180	0.04	0.006	0.03	
368.81	371.86	3.05	575665	HYP	WRGD	4/5	13140	0.05	0.006	0.10	
371.86	374.90	3.04	575666	HYP	WRGD	5/4	12340	0.10	0.005	0.14	
374.90	377.95	3.05	575667	HYP	WRGD	5	10740	0.08	0.002	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.95	381.00	3.05	575668	HYP	WRGD	5	11800	0.08	0.008	0.07	
381.00	384.05	3.05	575669	HYP	WRGD	5/4	11700	0.10	0.004	0.10	
384.05	387.10	3.05	575670	HYP	WRGD	7/1	12060	0.05	0.002	0.03	
387.10	390.14	3.04	575671	HYP	WRGD	7/4	12480	0.08	0.003	<0.03	
390.14	393.19	3.05	575672	HYP	WRGD	7/4	12100	0.04	0.004	<0.03	
393.19	396.24	3.05	575673	HYP	WRGD	7/5	10700	0.03	0.004	0.03	
396.24	399.29	3.05	575674	HYP	WRGD	7/5	11500	0.03	0.002	<0.03	
399.29	402.33	3.04	575675	HYP	WRGD	7/5	11680	0.03	0.004	<0.03	
402.33	405.38	3.05	575676	HYP	WRGD	7/5	11500	0.03	0.003	<0.03	
405.38	408.43	3.05	575677	HYP	WRGD	7/5	10460	0.04	0.005	<0.03	
408.43	411.48	3.05	575678	HYP	WRGD	4/5	11680	0.04	0.003	<0.03	
411.48	414.53	3.05	575679	HYP	WRGD	5/4	12280	0.03	0.003	<0.03	
414.53	417.58	3.05	575680	HYP	WRGD	5/4	10740	0.03	0.002	<0.03	
417.58	420.62	3.04	575681	HYP	WRGD	5/4	11080	0.03	0.005	<0.03	
420.62	423.67	3.05	575682	HYP	WRGD	4/7	10980	0.03	0.002	<0.03	
423.67	426.72	3.05	575683	HYP	WRGD	7/5	11660	0.03	0.001	<0.03	
426.72	429.77	3.05	575684	HYP	WRGD	5/4	11000	0.05	0.005	0.10	
429.77	432.82	3.05	575685	HYP	WRGD	7/5	12500	0.03	0.004	<0.03	
432.82	435.86	3.04	575686	HYP	WRGD	7/5	10800	0.03	0.002	<0.03	
435.86	438.91	3.05	575687	HYP	WRGD	7/5	12100	0.04	0.003	0.03	
438.91	441.96	3.05	575688	HYP	WRGD	6/4	12900	0.06	0.006	0.07	
441.96	445.01	3.05	575689	HYP	WRGD	4	11960	0.03	0.001	0.03	
445.01	448.06	3.05	575690	HYP	WRGD	4/7	12260	0.03	0.003	<0.03	
448.06	451.10	3.04	575691	HYP	WRGD	4/7	12800	0.02	<0.001	0.24	
451.10	454.15	3.05	575692	HYP	WRGD	4/7	12000	0.03	0.001	<0.03	
454.15	457.20	3.05	575693	HYP	WRGD	4/7	9100	0.03	0.002	<0.03	
457.20	460.25	3.05	575694	HYP	WRGD	5/4	12000	0.03	0.002	<0.03	
460.25	463.30	3.05	575695	HYP	WRGD	5/4	12120	0.03	0.002	0.14	
463.30	466.34	3.04	575696	HYP	WRGD	4/7	12600	0.02	0.002	<0.03	
466.34	469.39	3.05	575697	HYP	WRGD	4/5	11500	0.03	0.002	<0.03	
469.39	472.44	3.05	575698	HYP	WRGD	7/5	12620	0.03	0.015	<0.03	
472.44	475.49	3.05	575699	HYP	WRGD	7/5	12380	0.04	0.002	<0.03	
475.49	478.54	3.05	575700	HYP	WRGD	4/7	12200	0.01	0.002	0.07	
478.54	481.58	3.04	575701	HYP	WRGD	4/5	12900	0.02	0.002	<0.03	
481.58	484.63	3.05	575702	HYP	WRGD	5/3	12820	0.02	0.002	<0.03	
484.63	487.68	3.05	575703	HYP	WRGD	6/4	13300	0.02	0.002	<0.03	
487.68	490.73	3.05	575704	HYP	WRGD	6/4	13100	0.02	0.005	<0.03	
490.73	493.78	3.05	575705	HYP	WRGD	6/4	12660	0.03	0.005	<0.03	
493.78	496.82	3.04	575706	HYP	WRGD	6/4	13880	0.03	0.003	0.14	
496.82	499.87	3.05	575707	HYP	WRGD	6/4	13580	0.02	0.002	<0.03	
499.87	502.92	3.05	575708	HYP	WRGD	5/4	13780	0.04	0.006	0.14	
502.92	505.97	3.05	575709	HYP	WRGD	4/3	12640	0.02	0.005	<0.03	
505.97	509.02	3.05	575710	HYP	WRGD	7/5	13320	0.02	0.002	<0.03	
509.02	512.06	3.04	575711	HYP	WRGD	7/4	12960	0.01	0.005	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
512.06	515.11	3.05	575712	HYP	WRGD	4/5	13000	0.01	0.003	<0.03	
515.11	518.16	3.05	575713	HYP	WRGD	4/5	13620	0.03	0.003	<0.03	
518.16	522.12	3.96	575714	HYP	WRGD	4/7	16720	0.03	0.004	<0.03	
522.12	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-201	Total Depth	388.01 m
Northing	254,727.61	Casing Depth	4.27 m Left In
Easting	110,938.81	Survey Data	Azimuth / Dip / Instrument
Elevation	1337.77 m	Collar	-90.00°
Core Size	HQ	154.5 m	342° -89.20° Sperry Sun
Drilling Started	August 29, 1993	304.8 m	312° -89.35° Sperry Sun
Drilling Finished	September 5, 1993		
Logged by	P. Fischl		

Purpose/Target: Twinned Hole P-44 which encountered mostly ore grade mineralization.

Comments: Encountered strongly potassic altered, weakly to moderately mineralized milled microbreccia (mostly MBFP) and partially milled Patton Porphyry (PPDP).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.03	5.03		OVB							
5.03	7.77	2.74	574198	CAP	MBNX	5/7	8200	0.05	0.012	0.58	
7.77	10.21	2.44	574199	CAP	MBNX	5/7	6680	0.05	0.010	0.89	
10.21	13.41	3.20	574200	CAP	MBNX	5/7	10280	0.08	0.016	0.62	
13.41	16.31	2.90	574201	CAP	MBNP	5	9740	0.03	0.009	0.48	
16.31	19.05	2.74	574202	CAP	MBCP	3	8240	0.03	0.009	0.45	
19.05	21.95	2.90	574203	CAP	MBCP	3	7560	0.04	0.004	0.55	
21.95	24.08	2.13	574204	CAP	MBCP	3	4600	0.04	0.009	0.75	
24.08	27.89	3.81	574205	CAP	MBCP	3	10580	0.06	0.008	0.51	
27.89	30.94	3.05	574206	CAP	MBCP	3	5620	0.05	0.005	0.51	
30.94	33.84	2.90	574207	CAP	MBCP	3	8200	0.05	0.003	0.24	
33.84	37.18	3.34	574208	CAP	MBCP	7/3/5	8080	0.02	0.011	0.58	
37.18	40.23	3.05	574209	CAP	MBNX	7/3	10580	0.04	0.013	0.82	
40.23	42.06	1.83	574210	CAP	MBNX	7/3/5	5760	0.03	0.014	0.62	
42.06	44.80	2.74	574211	CAP	MBNX	7/3/5	7780	0.02	0.012	0.62	
44.80	47.24	2.44	574212	CAP	MBNX	7/3	7760	0.02	0.008	0.51	
47.24	49.38	2.14	574213	CAP	MBNX	3/7	6220	0.04	0.006	0.48	
49.38	52.42	3.04	574214	CAP	MBNX	3/7	10360	0.04	0.011	0.51	
52.42	54.86	2.44	574215	CAP	MBNP	3/7	8400	0.03	0.008	0.34	
54.86	57.00	2.14	574216	CAP	MBNP	3/7	4900	0.03	0.009	0.31	
57.00	60.35	3.35	574217	CAP	MBNP	3/7/5	8280	0.01	0.020	0.55	
60.35	63.70	3.35	574218	CAP	MBNP	3/7/5	7580	0.01	0.015	0.55	
63.70	66.00	2.30	574219	CAP	MBNX	7/3/5	5500	0.03	0.015	0.48	
66.00	68.27	2.27	574220	CAP	MBNX	7/3/5	8060	0.04	0.016	0.51	
68.27	70.41	2.14	574221	CAP	MBNX	7/3	6080	0.08	0.009	0.48	
70.41	72.24	1.83	574222	CAP	MBNX	7/3	5120	0.04	0.007	0.41	
72.24	75.28	3.04	574223	CAP	MBNX	7/3	9400	0.04	0.009	0.62	
75.28	78.33	3.05	574224	SOX	MBNX	7/3	11620	0.09	0.007	0.51	
78.33	81.38	3.05	574225	SOX	MBNX	7/5	10480	0.14	0.007	0.48	
81.38	84.12	2.74	574226	SOX	MBNX	7/5	13320	0.13	0.008	0.51	
84.12	87.17	3.05	574227	SOX	MBNX	7/5	14100	0.22	0.005	0.55	
87.17	90.22	3.05	574228	SOX	MBNX	7/5	13720	0.13	0.009	0.48	
90.22	93.27	3.05	574229	SOX	MBNX	7/5	14040	0.28	0.013	0.62	
93.27	96.47	3.20	574230	SOX	MBNX	7/5	13660	0.23	0.010	0.38	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
96.47	99.67	3.20	574231	SOX	MBNX	7/5	14020	0.31	0.007	0.69	
99.67	102.72	3.05	574232	SOX	MBNP	7/5	14420	0.23	0.007	0.41	
102.72	105.77	3.05	574233	SOX	MBNP	7/5	14200	0.35	0.010	0.55	
105.77	108.51	2.74	574234	SUS	MBNP	7/5	11980	0.50	0.010	0.58	
108.51	110.65	2.14	574235	SUS	MBNP	7/5	7680	0.37	0.008	0.55	
110.65	114.30	3.65	574236	SUS	MBNP	7/5	14580	0.26	0.008	0.51	
114.30	117.96	3.66	574237	SUS	MBNP	7/5	16280	0.26	0.015	0.51	
117.96	121.01	3.05	574238	SUS	MBNP	7/5	13300	0.24	0.019	0.58	
121.01	124.05	3.04	574239	SUS	MBNP	7/5	12200	0.30	0.008	0.51	
124.05	127.10	3.05	574240	SUS	MBNP	7/5	12340	0.22	0.008	0.31	
127.10	130.15	3.05	574241	SUS	MBNP	7/5	12520	0.23	0.012	0.21	
130.15	133.20	3.05	574242	SUS	MBNP	7/5	13460	0.26	0.011	0.24	
133.20	136.25	3.05	574243	SUS	MBNP	5	12080	0.29	0.014	0.31	
136.25	139.29	3.04	574244	SUS	MBNP	7/5	12340	0.63	0.014	0.38	
139.29	142.34	3.05	574245	SUS	MBNP	7/5	12420	0.28	0.008	0.38	
142.34	145.39	3.05	574246	SUS	MBNP	7/5	13080	0.69	0.015	0.41	
145.39	148.44	3.05	574247	SUS	MBNP	7/5	12600	0.36	0.009	0.48	
148.44	151.49	3.05	574248	SUS	MBNP	7/5	11380	0.36	0.019	0.65	
151.49	154.53	3.04	574249	SUS	MBNP	7/5	12460	0.41	0.020	0.62	
154.53	157.58	3.05	574250	SUS	MBFP	7/5/3	11580	0.32	0.020	0.41	
157.58	160.63	3.05	574251	SUS	MBFP	7/5/3	12860	0.46	0.036	0.89	
160.63	163.68	3.05	574252	SUS	MBFP	7/5/3	12140	0.34	0.047	0.82	
163.68	166.73	3.05	574253	SUS	MBFP	7/5/3	12260	0.47	0.056	0.86	
166.73	169.77	3.04	574254	SUS	MBFP	7/5/3	11200	0.37	0.017	0.45	
169.77	172.82	3.05	574255	SUS	MBFP	7/5/3	12320	0.24	0.011	0.31	
172.82	175.87	3.05	574256	SUS	MBFP	7/5/3	13140	0.20	0.027	0.27	
175.87	178.92	3.05	574257	SUS	MBFP	7/5/3	11780	0.35	0.022	0.31	
178.92	181.97	3.05	574258	SUS	MBFP	7/6/5	13080	0.31	0.027	0.34	
181.97	185.01	3.04	574259	SUS	MBFP	7/6/5	10120	0.20	0.008	0.27	
185.01	188.06	3.05	574260	SUS	MBFP	7/6/5	11820	0.12	0.009	0.21	
188.06	191.11	3.05	574261	SUS	MBFP	7/6/5	12380	0.17	0.019	0.24	
191.11	194.16	3.05	574262	TRN	MBFP	7/6/5	11860	0.23	0.020	0.24	
194.16	197.21	3.05	574263	TRN	MBFP	7/5/3	10900	0.20	0.010	0.21	
197.21	200.25	3.04	574264	TRN	MBFP	7/5/3	13340	0.24	0.011	0.14	
200.25	203.30	3.05	574265	TRN	MBFP	7/5/3	11960	0.49	0.009	0.14	
203.30	206.35	3.05	574266	TRN	MBFP	7/5/3	9340	0.34	0.014	0.10	
206.35	209.40	3.05	574267	TRN	MBFP	7/5/3	13840	0.20	0.012	0.17	
209.40	212.45	3.05	574268	TRN	MBFP	7/5/3	11940	0.14	0.006	0.21	
212.45	215.49	3.04	574269	HYP	MBFP	7/5/3	12280	1.09	0.025	0.62	
215.49	218.54	3.05	574270	HYP	MBFP	7/5/3	10740	0.17	0.014	0.21	
218.54	221.59	3.05	574271	HYP	MBFP	7/5/3	12360	0.15	0.010	0.14	
221.59	224.64	3.05	574272	HYP	MBFP	7/5/3	13120	0.21	0.010	0.17	
224.64	227.69	3.05	574273	HYP	MBFP	7/5/3	11520	0.17	0.020	0.21	
227.69	230.73	3.04	574274	HYP	MBFP	7/5/3	12380	0.19	0.036	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.73	233.78	3.05	574275	HYP	MBFP	7/5/3	13820	0.33	0.031	0.31	
233.78	236.83	3.05	574276	HYP	MBFP	7/5/3	12140	0.21	0.026	0.21	
236.83	239.88	3.05	574277	HYP	MBFP	7/5/3	12480	0.14	0.022	0.14	
239.88	242.93	3.05	574278	HYP	MBFP	7/5/3	12300	0.17	0.019	0.17	
242.93	245.21	2.28	574279	HYP	MBFP	7/5/3	9180	0.16	0.017	0.14	
245.21	246.89	1.68	574280	HYP	MBFP	7/5/3	8140	0.24	0.019	0.24	
246.89	249.93	3.04	574281	HYP	MBFP	7/5/3	10360	0.16	0.027	0.14	
249.93	252.07	2.14	574282	HYP	MBFP	7/5/3	9080	0.59	0.016	0.21	
252.07	255.12	3.05	574283	HYP	MBFP	7/5/3	9720	0.19	0.007	0.21	
255.12	258.17	3.05	574284	HYP	MBFP	7/5/3	13300	0.16	0.036	0.21	
258.17	261.21	3.04	574285	HYP	MBFP	7/5/3	13260	0.11	0.020	0.14	
261.21	264.26	3.05	574286	HYP	MBFP	7/5/3	12880	0.18	0.039	0.17	
264.26	267.31	3.05	574287	HYP	MBFP	7/5	13960	0.17	0.017	0.17	
267.31	270.36	3.05	574288	HYP	MBFP	7/5/3	13600	0.23	0.054	0.24	
270.36	273.41	3.05	574289	HYP	MBFP	7/5	13280	0.15	0.055	0.24	
273.41	276.45	3.04	574290	HYP	MBFP	7/5	13200	0.15	0.039	0.21	
276.45	279.50	3.05	574291	HYP	MBFP	7/5/3	12760	0.20	0.033	0.24	
279.50	282.55	3.05	574292	HYP	MBFP	7/5	13620	0.11	0.016	0.21	
282.55	285.60	3.05	574293	HYP	MBFP	7/5	12260	0.20	0.026	0.31	
285.60	288.65	3.05	574294	HYP	MBFP	7/5	13540	0.18	0.032	0.17	
288.65	291.69	3.04	574295	HYP	MBFP	7/5/3	13600	0.24	0.057	0.27	
291.69	294.74	3.05	574296	HYP	MBFP	7/5	11940	0.13	0.040	0.17	
294.74	297.79	3.05	574297	HYP	MBFP	7/5/3	13160	0.14	0.043	0.21	
297.79	300.83	3.04	574298	HYP	MBFP	7/5/3	12080	0.14	0.077	0.14	
300.83	303.28	2.45	574299	HYP	MBFP	7/5/3	9020	0.11	0.059	0.10	
303.28	306.32	3.04	574300	HYP	MBFP	7/5	11820	0.15	0.051	0.17	
306.32	309.37	3.05	574301	HYP	MBFP	7/5/3	12680	0.15	0.106	0.10	
309.37	312.42	3.05	574302	HYP	MBFP	7/5	12860	0.14	0.066	0.10	
312.42	315.47	3.05	574303	HYP	MBFP	7/5/6	10920	0.12	0.057	0.14	
315.47	318.67	3.20	574304	HYP	PPDP	7/5	11560	0.12	0.029	0.10	
318.67	321.87	3.20	574305	HYP	PPDP	7/5	10660	0.10	0.024	0.07	
321.87	325.07	3.20	574306	HYP	PPDP	7/5	9780	0.10	0.024	0.10	
325.07	328.12	3.05	574307	HYP	PPDP	7/5	10180	0.04	0.011	<0.03	
328.12	331.17	3.05	574308	HYP	PPDP	7/5	10360	0.08	0.018	0.07	
331.17	334.37	3.20	574309	HYP	PPDP	7/5/6	8020	0.09	0.023	0.03	
334.37	337.31	2.94	574310	HYP	PPDP	6/7/5	11060	0.10	0.007	0.03	
337.31	340.46	3.15	574311	HYP	PPDP	7/3/5	9520	0.11	0.013	0.07	
340.46	343.50	3.04	574312	HYP	PPDP	7/3/5	11080	0.03	0.004	0.03	
343.50	346.56	3.06	574313	HYP	PPDP	7/5	12220	0.04	0.012	<0.03	
346.56	349.61	3.05	574314	HYP	PPDP	7/5	10900	0.05	0.051	0.07	
349.61	352.65	3.04	574315	HYP	MBFP	7/5	11080	0.04	0.028	<0.03	
352.65	355.70	3.05	574316	HYP	MBFP	7/5	11160	0.06	0.027	0.03	
355.70	358.75	3.05	574317	HYP	MBFP	7/5	10480	0.05	0.017	<0.03	
358.75	361.80	3.05	574318	HYP	PPDP	7/5	11080	0.07	0.017	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
361.80	364.85	3.05	574319	HYP	PPDP	7/5	10900	0.05	0.024	0.03	
364.85	367.89	3.04	574320	HYP	PPDP	7/5	10280	0.06	0.044	0.07	
367.89	370.94	3.05	574321	HYP	PPDP	7/5	9660	0.07	0.041	0.03	
370.94	373.99	3.05	574322	HYP	PPDP	7/5	10600	0.09	0.048	0.07	
373.99	377.04	3.05	574323	HYP	PPDP	7/5	11220	0.06	0.044	0.03	
377.04	380.09	3.05	574324	HYP	PPDP	7/5	11780	0.08	0.023	0.07	
380.09	383.13	3.04	574325	HYP	PPDP	7/5	12040	0.05	0.075	<0.03	
383.13	386.18	3.05	574326	HYP	MBFP	7/5	10660	0.05	0.079	<0.03	
386.18	388.01	1.83	574327	HYP	MBFP	7/5	6760	0.08	0.097	0.07	
388.01	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-202	Total Depth	264.26 m		
Northing	255,035.81	Casing Depth	12.19 m		Left In
Easting	111,392.99	Survey Data	Azimuth	Dip	Instrument
Elevation	1190.54 m	Collar			
Core Size	HQ	153.06 m		-90°	Sperry Sun
Drilling Started	August 31, 1993				
Drilling Finished	September 7, 1993				
Logged by	L. Brommeland				

Purpose/Target: Infill drill hole on 255,000 N fence; to test continuity of mineralization.

Comments: Difficult drilling from top to bottom due to presence of Casino Fault. Large void encountered at depth. Drilling beyond void resulted in the rods "snapping off" near surface.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	28.04	28.04		OVB							
28.04	29.57	1.53	566598	CAP	F/ZN	3/5	3000	0.17	0.019	0.24	
29.57	32.61	3.04	566599	CAP	F/ZN	3/5	9840	0.10	0.019	0.10	
32.61	36.42	3.81	566600	CAP	F/ZN	3/5	12780	0.17	0.019	0.27	
36.42	38.71	2.29	566601	SOX	F/ZN	3/5	8700	0.31	0.034	0.27	
38.71	41.76	3.05	566602	SUS	F/ZN	3/5	11320	0.26	0.023	0.38	
41.76	44.81	3.05	566603	SUS	F/ZN	3	8320	0.19	0.010	0.27	
44.81	48.16	3.35	566604	HYP	F/ZN	3	8820	0.27	0.016	0.34	
48.16	50.90	2.74	566605	HYP	F/ZN	3	8920	0.29	0.026	0.31	
50.90	53.95	3.05	566606	HYP	F/ZN	3	8020	0.09	0.009	0.14	
53.95	57.00	3.05	566607	HYP	F/ZN	3	7120	0.26	0.060	0.38	
57.00	60.05	3.05	566608	HYP	F/ZN	3	9680	0.33	0.066	0.48	
60.05	63.09	3.04	566609	HYP	F/ZN	3	11480	0.39	0.058	0.51	
63.09	66.14	3.05	566610	HYP	F/ZN	3/5	12660	0.56	0.064	0.69	
66.14	69.19	3.05	566611	HYP	F/ZN	7/3	11220	0.56	0.024	0.69	
69.19	70.71	1.52	566612	HYP	F/ZN	3/7	5820	0.11	0.098	0.21	
70.71	73.76	3.05	566613	HYP	F/ZN	3/7	9400	0.16	0.025	0.17	
73.76	76.81	3.05	566614	HYP	F/ZN	7	9640	0.15	0.021	0.17	
76.81	80.16	3.35	566615	HYP	F/ZN	7	7360	0.12	0.013	0.14	
80.16	82.91	2.75	566616	HYP	F/ZN	7	5380	0.16	0.018	0.17	
82.91	85.95	3.04	566617	HYP	F/ZN	7	5220	0.11	0.009	0.14	
85.95	89.00	3.05	566618	HYP	F/ZN	7	11120	0.09	0.019	0.10	
89.00	91.90	2.90	566619	HYP	F/ZN	7	8340	0.09	0.013	0.21	
91.90	95.10	3.20	566620	HYP	F/ZN	7/5	11980	0.08	0.016	0.10	
95.10	98.15	3.05	566621	HYP	F/ZN	7	5220	0.14	0.029	0.14	
98.15	99.67	1.52	566622	HYP	F/ZN	7	5960	0.10	0.009	0.10	
99.67	102.72	3.05	566623	HYP	F/ZN	7	14640	0.12	0.056	0.34	
102.72	105.77	3.05	566624	HYP	F/ZN	3/7	12580	0.19	0.053	0.24	
105.77	108.81	3.04	566625	HYP	F/ZN	7	10800	0.10	0.102	0.10	
108.81	112.17	3.36	566626	HYP	F/ZN	7/3	15080	0.10	0.061	0.10	
112.17	115.67	3.50	566627	HYP	F/ZN	7	13400	0.13	0.025	0.10	
115.67	118.11	2.44	566628	HYP	F/ZN	7	8640	0.12	0.017	0.14	
118.11	121.31	3.20	566629	HYP	F/ZN	7	10860	0.05	0.029	0.07	
121.31	124.05	2.74	566630	HYP	F/ZN	7	11700	0.09	0.025	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
124.05	127.10	3.05	566631	HYP	F/ZN	7	13600	0.11	0.052	0.10	
127.10	130.15	3.05	566632	HYP	F/ZN	3/7	10980	0.10	0.030	0.14	
130.15	133.20	3.05	566633	HYP	F/ZN	3/7	12000	0.09	0.015	0.10	
133.20	136.25	3.05	566634	HYP	F/ZN	3/7	11200	0.07	0.028	0.10	
136.25	139.29	3.04	566635	HYP	F/ZN	3	12280	0.22	0.031	0.38	
139.29	142.34	3.05	566636	HYP	F/ZN	3	11680	0.12	0.026	0.21	
142.34	145.39	3.05	566637	HYP	F/ZN	3	11340	0.15	0.016	0.27	
145.39	148.44	3.05	566638	HYP	F/ZN	3	12840	0.62	0.052	0.86	
148.44	151.49	3.05	566639	HYP	F/ZN	3	12260	0.44	0.042	0.62	
151.49	154.53	3.04	566640	HYP	F/ZN	3/7	11820	0.56	0.053	0.69	
154.53	157.58	3.05	566641	HYP	F/ZN	3/7	11940	0.44	0.063	0.72	
157.58	160.63	3.05	566642	HYP	F/ZN	3/7	11500	0.38	0.058	0.45	
160.63	163.68	3.05	566643	HYP	F/ZN	3/7	16680	0.40	0.200	0.41	
163.68	166.73	3.05	566644	HYP	F/ZN	3	11760	0.18	0.040	0.17	
166.73	169.77	3.04	566645	HYP	F/ZN	3	12760	0.47	0.040	0.34	
169.77	172.82	3.05	566646	HYP	F/ZN	3/7	10600	0.30	0.036	0.27	
172.82	175.87	3.05	566647	HYP	F/ZN	3/7	12460	0.26	0.111	0.24	
175.87	178.92	3.05	566648	HYP	F/ZN	3/7	11680	0.23	0.030	0.21	
178.92	181.97	3.05	566649	HYP	F/ZN	3/7	12580	0.24	0.025	0.38	
181.97	185.01	3.04	566650	HYP	F/ZN	3/7	13020	0.17	0.076	0.24	
185.01	188.06	3.05	566651	HYP	F/ZN	3/7	12620	0.24	0.019	0.31	
188.06	191.11	3.05	566652	HYP	F/ZN	3/7	12800	0.21	0.196	0.21	
191.11	194.16	3.05	566653	HYP	F/ZN	3/7	11520	0.42	0.067	0.45	
194.16	197.21	3.05	566654	HYP	F/ZN	3/7	11400	0.32	0.026	0.38	
197.21	200.25	3.04	566655	HYP	F/ZN	3/7	11240	0.20	0.017	0.34	
200.25	203.30	3.05	566656	HYP	F/ZN	3/7	12540	0.30	0.060	0.34	
203.30	206.35	3.05	566657	HYP	F/ZN	3/7	13200	0.21	0.088	0.31	
206.35	209.40	3.05	566658	HYP	F/ZN	3/7	13080	0.15	0.089	0.24	
209.40	212.45	3.05	566659	HYP	F/ZN	3/7	12500	0.21	0.071	0.27	
212.45	215.49	3.04	566660	HYP	F/ZN	3/7	10920	0.19	0.051	0.21	
215.49	218.54	3.05	566661	HYP	F/ZN	3/7	10650	0.13	0.064	0.17	
218.54	221.59	3.05	566662	HYP	F/ZN	3/7	11900	0.09	0.043	0.17	
221.59	224.64	3.05	566663	HYP	F/ZN	3/7	13200	0.07	0.035	0.14	
224.64	227.69	3.05	566664	HYP	F/ZN	3/7	13900	0.09	0.046	0.17	
227.69	230.73	3.04	566665	HYP	F/ZN	3/7	10090	0.08	0.062	0.10	
230.73	233.32	2.59	566666	HYP	F/ZN	3/7	12680	0.06	0.040	0.07	
233.32	236.52	3.20	566667	HYP	F/ZN	3/7	12580	0.10	0.066	0.14	
236.52	239.57	3.05	566668	HYP	F/ZN	3/7	13000	0.09	0.071	0.21	
239.57	242.77	3.20	566669	HYP	F/ZN	3/7	13080	0.16	0.054	0.21	
242.77	245.97	3.20	566670	HYP	F/ZN	3/7	13120	0.16	0.065	0.24	
245.97	249.02	3.05	566671	HYP	F/ZN	3/7	15180	0.15	0.042	0.21	
249.02	252.07	3.05	566672	HYP	F/ZN	7/3	16860	0.12	0.028	0.21	
252.07	255.12	3.05	566673	HYP	F/ZN	7/3	15300	0.08	0.043	0.14	
255.12	258.17	3.05	566674	HYP	F/ZN	7/3	10350	0.05	0.117	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
258.17	261.21	3.04	566675	HYP	F/ZN	7/3	15300	0.08	0.037	0.14	
261.21	264.26	3.05	566676	HYP	F/ZN	7/3	19200	0.10	0.030	0.14	
264.26	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-203	Total Depth	357.23 m		
Northing	255,101.17	Casing Depth	2.44 m		Left Out
Easting	110,899.40	Survey Data	Azimuth	Dip	Instrument
Elevation	1265.11 m	Collar		-90.00°	
Core Size	HQ	152.4 m	313°	-89.25°	Sperry Sun
Drilling Started	September 1, 1993	303.89 m	0°	-89.00°	Sperry Sun
Drilling Finished	September 7, 1993				
Logged by	T. Case				

Purpose/Target: To test continuity of mineralization just west of the 110,900 E fence.

Comments: Supergene sulphide Cu mineralization is moderate to strong; hypogene Cu mineralization is very weak.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	2.44	2.44		OVB							
2.44	5.18	2.74	565343	CAP	IXPB	7/3/5	2800	0.13	0.021	0.24	
5.18	7.62	2.44	565344	CAP	IXPB	7/3/5	5400	0.11	0.016	0.55	
7.62	10.52	2.90	565345	CAP	IXPB	7/3/5	10920	0.07	0.013	0.99	
10.52	14.33	3.81	565346	CAP	IXPB	7/3/5	12180	0.07	0.026	0.86	
14.33	17.37	3.04	565347	CAP	IXPB	7/3/5	10700	0.07	0.026	0.72	
17.37	20.42	3.05	565348	CAP	IXPB	7/3/5	11600	0.08	0.021	0.65	
20.42	23.47	3.05	565349	CAP	IXPB	7/3/5	9400	0.07	0.029	1.03	
23.47	26.21	2.74	565350	CAP	IXAF	7/3/5	7800	0.07	0.018	0.48	
26.21	29.26	3.05	565351	CAP	IXAF	7/3/5	9620	0.11	0.021	0.48	
29.26	32.31	3.05	565352	CAP	IXAF	7/3/5	11200	0.09	0.021	0.48	
32.31	35.36	3.05	565353	CAP	IXAF	7/3/5	11600	0.05	0.017	0.51	
35.36	38.71	3.35	565354	CAP	IXAF	7/3/5	11900	0.06	0.034	0.79	
38.71	41.76	3.05	565355	CAP	IXAF	7/3/5	10380	0.06	0.027	0.34	
41.76	44.81	3.05	565356	CAP	IXPB	7/3/5	10700	0.06	0.021	0.48	
44.81	47.85	3.04	565357	CAP	IXPB	7/3/5	10200	0.03	0.022	0.41	
47.85	50.90	3.05	565358	CAP	IXPB	7/3/5	12320	0.05	0.023	0.34	
50.90	53.95	3.05	565359	CAP	IXPB	7/3/5	9400	0.05	0.024	0.51	
53.95	57.00	3.05	565360	CAP	IXAF	7/3/5	9520	0.04	0.018	0.24	
57.00	60.05	3.05	565361	CAP	IXAF	7/3/5	10980	0.04	0.015	0.34	
60.05	63.09	3.04	565362	SOX	IXAC	7/3/5	10700	0.07	0.021	0.55	
63.09	66.14	3.05	565363	SOX	IXAC	7/3/5	12100	0.07	0.029	0.41	
66.14	69.19	3.05	565364	SOX	IXAC	7/3/5	10350	0.07	0.016	0.41	
69.19	72.24	3.05	565365	SOX	IXAC	7/3/5	11500	0.10	0.019	0.89	
72.24	75.29	3.05	565366	SOX	IXAC	7/3/5	11570	0.06	0.015	0.58	
75.29	78.33	3.04	565367	SOX	IXAC	7/3/5	9700	0.06	0.019	0.24	
78.33	81.38	3.05	565368	SOX	IXAC	7/3/5	10920	0.09	0.043	1.34	
81.38	84.43	3.05	565369	SOX	IXAC	7/3/5	11750	0.41	0.022	0.89	
84.43	87.48	3.05	565370	SUS	IXAC	7/3/5	11970	0.38	0.025	1.17	
87.48	90.53	3.05	565371	SUS	IXAC	7/3/5	11250	0.40	0.016	0.45	
90.53	93.57	3.04	565372	SUS	IXAC	7/3/5	10220	0.75	0.024	1.10	
93.57	95.40	1.83	565373	SUS	IXAC	7/3/5	6000	0.90	0.025	2.64	
95.40	98.45	3.05	565374	SUS	IXAC	7/3/5	12600	1.00	0.023	1.85	
98.45	101.50	3.05	565375	SUS	IXAC	7/3/5	10600	0.54	0.014	0.69	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
101.50	104.55	3.05	565376	SUS	IXAC	7/3/5	10000	0.17	0.020	0.24	
104.55	107.59	3.04	565377	SUS	QXBX	7/3/5	9590	0.38	0.022	0.27	
107.59	110.64	3.05	565378	SUS	QXBX	7/3/5	10600	0.35	0.040	0.31	
110.64	113.69	3.05	565379	SUS	QXBX	7/3/5	12000	0.50	0.032	0.48	
113.69	116.74	3.05	565380	SUS	QXBX	7/3/5	11600	0.29	0.018	0.24	
116.74	119.79	3.05	565381	SUS	QXBX	7/3/5	11200	0.21	0.014	0.34	
119.79	122.83	3.04	565382	SUS	QXBX	7/3/5	10500	0.40	0.033	0.34	
122.83	125.88	3.05	565383	SUS	QXBX	7/3/5	11060	0.15	0.027	0.17	
125.88	128.93	3.05	565384	SUS	QXBX	7/3/5	11760	0.21	0.058	0.24	
128.93	131.98	3.05	565385	SUS	QXBX	7/3/5	10640	0.14	0.063	0.14	
131.98	135.03	3.05	565386	SUS	QXBX	7/3/5	11280	0.15	0.014	0.14	
135.03	139.29	4.26	565387	HYP	IXAC	7/5/6	15100	0.28	0.025	0.21	
139.29	142.34	3.05	565388	HYP	IXAC	7/5/6	11000	0.17	0.021	0.21	
142.34	145.39	3.05	565389	HYP	IXAC	7/5/6	10740	0.17	0.047	0.48	
145.39	148.44	3.05	565390	HYP	IXAC	7/5/6	10660	0.17	0.023	0.34	
148.44	151.49	3.05	565391	HYP	IXAC	7/5/6	9640	0.17	0.019	0.34	
151.49	154.53	3.04	565392	HYP	IXAC	7/5/6	9520	0.10	0.024	0.24	
154.53	157.58	3.05	565393	HYP	IXAC	7/5/6	11460	0.14	0.035	0.34	
157.58	160.63	3.05	565394	HYP	IXAC	7/5/6	12560	0.09	0.011	0.14	
160.63	163.68	3.05	565395	HYP	IXAC	7/5/6	7500	0.10	0.021	0.27	
163.68	166.73	3.05	565396	HYP	IXAC	7/5/6	11780	0.07	0.011	0.14	
166.73	169.77	3.04	565397	HYP	IXAC	7/5/6	12120	0.09	0.033	0.14	
169.77	172.82	3.05	565398	HYP	IXAC	7/5/6	11020	0.13	0.015	0.27	
172.82	175.87	3.05	565399	HYP	IXAC	6/5/7	11680	0.17	0.018	0.38	
175.87	178.92	3.05	565400	HYP	IXAC	6/5/7	12100	0.12	0.025	0.31	
178.92	181.97	3.05	565401	HYP	IXAC	7/6/5	11460	0.09	0.015	0.24	
181.97	185.01	3.04	565402	HYP	IXAC	7/6/5	12300	0.05	0.009	0.14	
185.01	188.06	3.05	565403	HYP	IXAC	7/6/5	12740	0.12	0.016	0.21	
188.06	191.11	3.05	565404	HYP	IXAC	7/6/5	11400	0.09	0.013	0.17	
191.11	194.16	3.05	565405	HYP	QMIE	6/7/5	11380	0.15	0.049	0.24	
194.16	197.21	3.05	565406	HYP	QMIE	6/7/5	11720	0.27	0.074	0.34	
197.21	200.25	3.04	565407	HYP	QMIE	6/7/5	11640	0.46	0.088	0.38	
200.25	202.69	2.44	565408	HYP	QMIE	6/7/5	10420	0.13	0.035	0.17	
202.69	206.04	3.35	565409	HYP	QMIE	6/7/5	12420	0.25	0.052	0.31	
206.04	209.09	3.05	565410	HYP	QMIE	6/7/5	12380	0.13	0.021	0.17	
209.09	212.29	3.20	565411	HYP	QMIE	6/7/5	12360	0.07	0.035	0.07	
212.29	215.49	3.20	565412	HYP	IXPB	7/6/5	12260	0.06	0.161	0.03	
215.49	218.54	3.05	565413	HYP	IXPB	7/6/5	11840	0.11	0.029	0.10	
218.54	221.59	3.05	565414	HYP	IXPB	7/6/5	11380	0.03	0.103	0.07	
221.59	224.64	3.05	565415	HYP	IXPB	7/6/5	11000	0.24	0.040	0.24	
224.64	228.45	3.81	565416	HYP	IXPB	7/6/5	11160	0.18	0.030	0.21	
228.45	230.73	2.28	565417	HYP	IXPB	7/6/5	9620	0.08	0.024	0.14	
230.73	233.78	3.05	565418	HYP	IXPB	7/6/5	12540	0.28	0.042	0.31	
233.78	236.83	3.05	565419	HYP	IXPB	7/6/5	11640	0.07	0.015	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	565420	HYP	IXPB	7/6/5	12160	0.04	0.017	0.03	
239.88	242.93	3.05	565421	HYP	IXPB	7/6/5	12840	0.08	0.024	0.14	
242.93	245.97	3.04	565422	HYP	IXPB	7/6/5	11960	0.11	0.044	0.21	
245.97	249.02	3.05	565423	HYP	IXPB	7/6/5	11740	0.16	0.043	0.21	
249.02	252.07	3.05	565424	HYP	IXPB	7/6/5	12460	0.14	0.047	0.21	
252.07	255.12	3.05	565425	HYP	IXAC	7/6/5	11260	0.10	0.025	0.24	
255.12	258.17	3.05	565426	HYP	IXAC	7/6/5	11600	0.14	0.048	0.31	
258.17	261.21	3.04	565427	HYP	IXAC	7/6/5	12720	0.06	0.046	0.10	
261.21	264.26	3.05	565428	HYP	IXAC	6/7/5	12860	0.04	0.013	0.03	
264.26	267.31	3.05	565429	HYP	IXAC	6/7/5	11780	0.06	0.035	0.10	
267.31	270.36	3.05	565430	HYP	IXAC	6/7/5	12840	0.09	0.044	0.07	
270.36	273.41	3.05	565431	HYP	IXAC	6/7/5	12580	0.07	0.028	0.10	
273.41	276.45	3.04	565432	HYP	IXAC	6/7/5	12860	0.06	0.015	0.07	
276.45	279.50	3.05	565433	HYP	IXAC	7/6/5	13040	0.06	0.020	0.07	
279.50	282.55	3.05	565434	HYP	IXAC	7/6/5	11960	0.05	0.013	0.03	
282.55	285.60	3.05	565435	HYP	IXAC	7/6/5	11720	0.04	0.034	<0.03	
285.60	288.65	3.05	565436	HYP	IXAC	7/6/5	12160	0.05	0.023	0.03	
288.65	291.69	3.04	565437	HYP	IXAC	6/7/5	12980	0.04	0.018	<0.03	
291.69	294.74	3.05	565438	HYP	IXAC	6/7/5	12200	0.04	0.018	<0.03	
294.74	297.79	3.05	565439	HYP	IXAC	6/7/5	12680	0.04	0.007	<0.03	
297.79	300.84	3.05	565440	HYP	IXAC	6/7/5	11740	0.03	0.033	<0.03	
300.84	303.89	3.05	565441	HYP	IXAC	6/7/5	11780	0.02	0.021	<0.03	
303.89	306.93	3.04	565442	HYP	IXAC	6/7/5	13100	0.03	0.011	<0.03	
306.93	309.98	3.05	565443	HYP	IXAC	6/7/5	11420	0.03	0.047	0.03	
309.98	313.03	3.05	565444	HYP	IXPB	7/5	11860	0.03	0.006	<0.03	
313.03	316.08	3.05	565445	HYP	IXPB	7/5	12580	0.05	0.007	0.07	
316.08	319.13	3.05	565446	HYP	IXPB	7/5	11840	0.04	0.007	0.03	
319.13	322.17	3.04	565447	HYP	IXPB	7/5	12040	0.02	0.022	<0.03	
322.17	325.22	3.05	565448	HYP	IXPB	7/5	12580	0.06	0.018	<0.03	
325.22	328.27	3.05	565449	HYP	IXPB	7/5	12840	0.03	0.015	<0.03	
328.27	331.32	3.05	565450	HYP	IXPB	7/5	12540	0.02	0.011	<0.03	
331.32	334.37	3.05	565451	HYP	IXPB	7/5	12120	0.04	0.024	0.07	
334.37	337.41	3.04	565452	HYP	IXPB	7/5	13760	0.06	0.017	0.07	
337.41	340.46	3.05	565453	HYP	IXPB	7/5	12440	0.04	0.010	<0.03	
340.46	343.51	3.05	565454	HYP	IXPB	7/5	11920	0.03	0.008	0.03	
343.51	346.56	3.05	565455	HYP	IXPB	7/5	12840	0.03	0.018	<0.03	
346.56	349.61	3.05	565456	HYP	IXPB	7/5	12420	0.02	0.028	<0.03	
349.61	352.65	3.04	565457	HYP	IXPB	7/5	12500	0.03	0.030	0.07	
352.65	355.70	3.05	565458	HYP	IXPB	7/5	11580	0.05	0.199	0.03	
355.70	357.23	1.53	565459	HYP	IXPB	7/5	4740	0.06	0.035	<0.03	
357.23	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-204	Total Depth	450.80 m
Northing	255,127.89	Casing Depth	6.10 m Left In
Easting	111,182.96	Survey Data	Azimuth / Dip / Instrument
Elevation	1224.59 m	Collar	
Core Size	HQ	154.53 m	242° / -89.2° / Sperry Sun
Drilling Started	September 3, 1993	304.80 m	145° / -89.6° / Sperry Sun
Drilling Finished	September 11, 1993	450.19 m	132° / -88.8° / Sperry Sun
Logged by	W.D. Mann		
Purpose/Target:	Delineation.		

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.70	6.70		OVB							
6.70	8.20	1.50	587628	CAP	IXAF	7/3	6600	0.02	0.044	0.10	
8.20	11.28	3.08	587629	CAP	IXAF	7/3	11660	0.03	0.107	0.24	
11.28	14.34	3.06	587630	CAP	IXAF	7/3	11300	0.07	0.143	0.21	
14.34	17.98	3.64	587631	CAP	IXAF	7/3	11880	0.13	0.059	0.34	
17.98	21.03	3.05	587632	CAP	IXAF	7/3	9060	0.08	0.155	0.58	
21.03	24.08	3.05	587633	CAP	IXAF	7/3	10220	0.04	0.054	0.45	
24.08	26.52	2.44	587634	CAP	IXAC	3/7	8700	0.13	0.046	0.62	
26.52	29.57	3.05	587635	CAP	IXAC	3/7	10500	0.15	0.149	0.34	
29.57	32.61	3.04	587636	CAP	IXAC	3/7	11100	0.14	0.085	0.24	
32.61	35.66	3.05	587637	SOX	IXAF	7/3	10000	0.09	0.138	0.51	
35.66	38.71	3.05	587638	SOX	IXAF	7/3	11650	0.06	0.184	0.24	
38.71	41.76	3.05	587639	SOX	IXAF	7/3	10900	0.08	0.116	0.38	
41.76	44.81	3.05	587640	SOX	IXAF	7/3	12600	0.14	0.147	0.34	
44.81	47.55	2.74	587641	SOX	IXAF	7/3	9600	0.05	0.105	0.27	
47.55	50.60	3.05	587642	SUS	IXAF	7/3	9100	0.05	0.053	0.17	
50.60	53.64	3.04	587643	SUS	IXAF	7/3	11200	0.20	0.037	0.10	
53.64	56.99	3.35	587644	SUS	IXAC	7/3	13800	0.42	0.040	0.31	
56.99	60.05	3.06	587645	SUS	IXAC	7/3	12000	0.71	0.040	0.34	
60.05	62.18	2.13	587646	SUS	IXAC	7/3	7100	0.30	0.093	0.10	
62.18	64.31	2.13	587647	SUS	IXAC	7/3	7500	0.59	0.054	0.10	
64.31	66.14	1.83	587648	SUS	IXAC	7/3	7600	0.97	0.054	0.27	
66.14	69.19	3.05	587649	SUS	IXAC	7/3	12500	0.86	0.059	0.21	
69.19	72.25	3.06	587650	SUS	IXAC	7/3	10200	0.54	0.195	0.41	
72.25	74.67	2.42	587651	SUS	IXAC	7/3	8000	0.30	0.035	0.31	
74.67	77.52	2.85	587652	SUS	IXAC	7/3	10900	0.32	0.058	0.45	
77.52	80.77	3.25	587653	SUS	IXAC	7/3	10350	0.05	0.088	0.17	
80.77	83.82	3.05	587654	SUS	IXAC	7/3	12000	0.25	0.049	0.31	
83.82	87.48	3.66	587655	HYP	IXAC	7/3	14000	0.15	0.079	0.14	
87.48	90.25	2.77	587656	HYP	IXAC	7/3	10120	0.22	0.075	0.10	
90.25	92.35	2.10	587657	HYP	IXAC	7/3	6800	0.31	0.051	0.27	
92.35	95.71	3.36	587658	HYP	IXAC	7/3	13900	0.31	0.045	0.48	
95.71	98.75	3.04	587659	HYP	IXAC	7/3	10380	0.27	0.042	0.31	
98.75	100.56	1.81	587660	HYP	IXAC	7/3	8460	0.19	0.048	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
100.56	102.72	2.16	587661	HYP	IXAC	7/3	7300	0.03	0.062	0.03	
102.72	105.77	3.05	587662	HYP	IXAC	7/3	12160	0.08	0.108	0.07	
105.77	108.20	2.43	587663	HYP	IXAC	7/3	10220	0.21	0.035	0.17	
108.20	111.86	3.66	587664	HYP	IXAC	7/3	11460	0.25	0.016	0.31	
111.86	115.52	3.66	587665	HYP	IXAC	7/3	5900	0.38	0.020	0.27	
115.52	118.87	3.35	587666	HYP	IXAC	7/3	11900	0.20	0.075	0.24	
118.87	121.01	2.14	587667	HYP	IXAC	7/3	9320	0.19	0.072	0.21	
121.01	124.66	3.65	587668	HYP	IXAC	7/2	13280	0.27	0.037	0.31	
124.66	127.10	2.44	587669	HYP	IXAC	7/2	9300	0.41	0.239	0.48	
127.10	129.84	2.74	587670	HYP	IXAC	7/2	10960	0.36	0.041	0.45	
129.84	132.28	2.44	587671	HYP	IXAC	7/2	10660	0.29	0.048	0.38	
132.28	133.50	1.22	587672	HYP	IXAC	7/2	6360	0.18	0.061	0.24	
133.50	136.25	2.75	587673	HYP	IXAC	7/2	6180	0.06	0.043	0.10	
136.25	138.68	2.43	587674	HYP	IXAC	7/2	8740	0.20	0.035	0.24	
138.68	141.12	2.44	587675	HYP	IXAC	7/2	8360	0.25	0.018	0.21	
141.12	144.17	3.05	587676	HYP	IXAC	7/2	8540	0.11	0.022	0.14	
144.17	148.44	4.27	587677	HYP	IXAC	7/2	15180	0.21	0.019	0.24	
148.44	151.49	3.05	587678	HYP	IXAC	7/2	9040	0.08	0.053	0.10	
151.49	154.53	3.04	587679	HYP	IXAC	7/2	10580	0.08	0.038	0.10	
154.53	157.28	2.75	587680	HYP	IXAC	7/2	11580	0.13	0.023	0.17	
157.28	160.63	3.35	587681	HYP	IXAC	7/2	14380	0.18	0.053	0.24	
160.63	163.68	3.05	587682	HYP	IXAC	7/2	10800	0.17	0.038	0.21	
163.68	166.73	3.05	587683	HYP	IXAC	7/2	12620	0.13	0.036	0.17	
166.73	169.77	3.04	587684	HYP	IXAC	7/2	11940	0.07	0.030	0.10	
169.77	172.82	3.05	587685	HYP	IXAC	7/2	12320	0.09	0.018	0.14	
172.82	175.87	3.05	587686	HYP	IXAC	7/2	12560	0.07	0.025	0.10	
175.87	178.92	3.05	587687	HYP	IXAC	7/2	12380	0.12	0.023	0.17	
178.92	181.97	3.05	587688	HYP	IXAC	7/2	12060	0.13	0.020	0.17	
181.97	185.01	3.04	587689	HYP	IXAC	7/2	11520	0.18	0.037	0.17	
185.01	188.06	3.05	587690	HYP	IXAF	7/2	11800	0.22	0.041	0.31	
188.06	191.11	3.05	587691	HYP	IXAF	7/2	11540	0.08	0.042	0.10	
191.11	194.16	3.05	587692	HYP	IXAF	7/2	11840	0.07	0.178	0.07	
194.16	197.21	3.05	587693	HYP	IXAF	7/2	10660	0.13	0.051	0.14	
197.21	200.25	3.04	587694	HYP	IXAF	7/2	12420	0.10	0.078	0.14	
200.25	203.30	3.05	587695	HYP	IXAF	7/2	11660	0.09	0.029	0.10	
203.30	206.35	3.05	587696	HYP	IXAF	7/2	11680	0.08	0.056	0.14	
206.35	209.40	3.05	587697	HYP	IXAF	7/2	10920	0.10	0.066	0.14	
209.40	212.45	3.05	587698	HYP	IXAF	7/2	11860	0.07	0.045	0.07	
212.45	215.49	3.04	587699	HYP	IXAF	7/2	12040	0.11	0.096	0.14	
215.49	218.54	3.05	587700	HYP	IXAF	7/2	13240	0.11	0.023	0.14	
218.54	221.59	3.05	587701	HYP	IXAF	7/2	11680	0.07	0.042	0.10	
221.59	224.64	3.05	587702	HYP	IXAF	7/2	13740	0.05	0.042	0.10	
224.64	227.69	3.05	587703	HYP	IXAF	7/2	13860	0.09	0.104	0.14	
227.69	230.73	3.04	587704	HYP	IXAF	7/2	11640	0.05	0.078	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.73	233.78	3.05	587705	HYP	IXAF	7	10840	0.06	0.080	0.07	
233.78	236.83	3.05	587706	HYP	IXAF	7	11400	0.14	0.047	0.24	
236.83	239.88	3.05	587707	HYP	IXAF	7	13300	0.06	0.029	0.10	
239.88	242.93	3.05	587708	HYP	IXAF	7	11260	0.06	0.062	0.10	
242.93	245.97	3.04	587709	HYP	IXAF	7	11720	0.05	0.086	0.07	
245.97	249.02	3.05	587710	HYP	IXAF	7	11650	0.08	0.060	0.10	
249.02	252.07	3.05	587711	HYP	IXAF	7	11560	0.05	0.027	0.07	
252.07	255.12	3.05	587712	HYP	IXAF	7	16800	0.07	0.055	0.07	
255.12	258.17	3.05	587713	HYP	IXAF	7	9720	0.10	0.083	0.14	
258.17	261.21	3.04	587714	HYP	IXAF	7	9020	0.06	0.177	0.10	
261.21	264.26	3.05	587715	HYP	IXAF	7	11650	0.14	0.117	0.24	
264.26	267.31	3.05	587716	HYP	IXAF	7	11800	0.10	0.126	0.10	
267.31	270.36	3.05	587717	HYP	IXAF	7	12900	0.08	0.054	0.17	
270.36	273.41	3.05	587718	HYP	IXAF	7	11840	0.13	0.107	0.14	
273.41	276.45	3.04	587719	HYP	IXAF	7	12050	0.11	0.076	0.17	
276.45	279.50	3.05	587720	HYP	IXAF	7	12640	0.12	0.023	0.21	
279.50	282.55	3.05	587721	HYP	PPDP	7	11760	0.07	0.011	0.10	
282.55	285.60	3.05	587722	HYP	PPDP	7	12540	0.05	0.013	0.10	
285.60	288.65	3.05	587723	HYP	PPDP	7	11080	0.06	0.012	0.10	
288.65	291.69	3.04	587724	HYP	PPDP	7	11240	0.09	0.028	0.17	
291.69	294.74	3.05	587725	HYP	PPDP	7	11860	0.08	0.027	0.14	
294.74	297.79	3.05	587726	HYP	PPDP	7	11840	0.06	0.026	0.14	
297.79	300.84	3.05	587727	HYP	PPDP	7	12050	0.06	0.016	0.10	
300.84	303.89	3.05	587728	HYP	PPDP	7	12000	0.07	0.009	0.17	
303.89	306.93	3.04	587729	HYP	PPDP	7	13000	0.09	0.022	0.17	
306.93	309.98	3.05	587730	HYP	IXAC	7	11600	0.08	0.038	0.24	
309.98	313.03	3.05	587731	HYP	IXAC	7	11300	0.15	0.093	0.24	
313.03	316.08	3.05	587732	HYP	IXAC	7	12380	0.13	0.037	0.27	
316.08	319.13	3.05	587733	HYP	IXAC	7	11500	0.17	0.033	0.34	
319.13	322.17	3.04	587734	HYP	IXAF	7	12280	0.12	0.081	0.21	
322.17	325.22	3.05	587735	HYP	IXAF	7	12760	0.07	0.077	0.17	
325.22	328.27	3.05	587736	HYP	IXAF	7	13040	0.08	0.073	0.14	
328.27	331.32	3.05	587737	HYP	IXAF	7	12720	0.18	0.107	0.38	
331.32	334.37	3.05	587738	HYP	IXAF	7	11100	0.11	0.116	0.24	
334.37	337.41	3.04	587739	HYP	IXAF	7	11000	0.10	0.078	0.17	
337.41	340.46	3.05	587740	HYP	IXAF	7	13260	0.17	0.071	0.31	
340.46	343.51	3.05	587741	HYP	IXAF	7	12840	0.17	0.057	0.24	
343.51	346.56	3.05	587742	HYP	IXAF	7	13160	0.10	0.084	0.17	
346.56	349.61	3.05	587743	HYP	IXAF	7	13400	0.19	0.074	0.59	
349.61	352.65	3.04	587744	HYP	IXAC	7	13420	0.16	0.128	0.27	
352.65	355.70	3.05	587745	HYP	IXAC	7	12780	0.21	0.207	0.34	
355.70	358.75	3.05	587746	HYP	IXAC	7	13000	0.13	0.095	0.24	
358.75	361.80	3.05	587747	HYP	IXAC	7	12300	0.09	0.083	0.17	
361.80	364.85	3.05	587748	HYP	IXAC	7	13020	0.16	0.170	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
364.85	367.89	3.04	587749	HYP	IXAC	7	11860	0.15	0.116	0.21	
367.89	370.94	3.05	587750	HYP	IXAC	7	13140	0.11	0.111	0.21	
370.94	373.99	3.05	587751	HYP	IXAC	7	12900	0.13	0.056	0.21	
373.99	377.04	3.05	587752	HYP	IXAC	7	12860	0.07	0.197	0.17	
377.04	380.09	3.05	587753	HYP	IXAC	7	13180	0.10	0.054	0.17	
380.09	383.13	3.04	587754	HYP	IXAC	7	12840	0.13	0.135	0.38	
383.13	386.18	3.05	587755	HYP	IXAC	7	12840	0.04	0.128	0.10	
386.18	389.23	3.05	587756	HYP	IXAC	7	12360	0.06	0.052	0.10	
389.23	392.28	3.05	587757	HYP	IXAC	7	13000	0.06	0.041	0.10	
392.28	395.33	3.05	587758	HYP	IXAC	7	12600	0.09	0.187	0.17	
395.33	398.37	3.04	587759	HYP	IXAC	7	13220	0.07	0.034	0.14	
398.37	401.42	3.05	587760	HYP	IXAC	7	12620	0.06	0.091	0.14	
401.42	404.47	3.05	587761	HYP	IXAC	7	12200	0.07	0.081	0.17	
404.47	407.52	3.05	587762	HYP	IXAC	7	14080	0.06	0.051	0.10	
407.52	410.57	3.05	587763	HYP	IXAC	7	12040	0.12	0.082	0.21	
410.57	413.61	3.04	587764	HYP	IXAC	7	12680	0.09	0.053	0.21	
413.61	416.66	3.05	587765	HYP	IXAC	7	12860	0.09	0.057	0.17	
416.66	419.71	3.05	587766	HYP	WRGD	7	12660	0.03	0.075	0.07	
419.71	422.76	3.05	587767	HYP	WRGD	7	13120	0.03	0.084	0.07	
422.76	425.81	3.05	587768	HYP	WRGD	7	12900	0.04	0.089	0.14	
425.81	428.85	3.04	587769	HYP	WRGD	7	12580	0.05	0.069	0.17	
428.85	431.90	3.05	587770	HYP	WRGD	7	12960	0.08	0.150	0.14	
431.90	434.95	3.05	587771	HYP	IXAF	7	12980	0.16	0.042	0.27	
434.95	438.00	3.05	587772	HYP	IXAF	7	12760	0.05	0.074	0.14	
438.00	441.04	3.04	587773	HYP	IXAF	7	13760	0.07	0.039	0.14	
441.04	444.09	3.05	587774	HYP	IXAC	7	13380	0.03	0.082	0.07	
444.09	447.14	3.05	587775	HYP	IXAC	7	12680	0.04	0.066	0.07	
447.14	450.80	3.66	587776	HYP	IXAC	7	14580	0.03	0.071	0.03	
450.80	END OF HOLE										

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Hole Number	93-205	Total Depth	620.88 m		
Northing	255,002.06	Casing Depth	15.24 m		Left Out
Easting	111,800.92	Survey Data	Azimuth	Dip	Instrument
Elevation	1157.15 m	Collar			
Core Size	HQ	152.40 m	193°	-88.5°	Sperry Sun
Drilling Started	September 6, 1993	304.80 m	210°	-88.0°	Sperry Sun
Drilling Finished	September 20, 1993	457.20 m	188°	-87.0°	Sperry Sun
Logged by	B. Thurston	620.88 m	203°	-86.5°	Sperry Sun

Purpose/Target: Delineate north-east boundary of deposit.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	15.84	15.84		OVB							
15.84	18.59	2.75	571953	CAP	WRDR	5	3220	0.07	0.002	0.07	
18.59	21.49	2.90	571954	CAP	WRDR	5/7	8360	0.05	0.002	0.14	
21.49	24.69	3.20	571955	SOX	WRDR	5/7	8900	0.16	0.002	0.10	
24.69	27.43	2.74	571956	SOX	WRDR	5/7	6140	0.51	0.002	0.07	
27.43	31.09	3.66	571957	SUS	WRDR	5/7/1	7320	0.31	<0.001	0.14	
31.09	34.14	3.05	571958	HYP	WRDR	7/1	9580	0.12	<0.001	0.17	
34.14	37.19	3.05	571959	HYP	WRDR	7/1	8040	0.10	<0.001	0.07	
37.19	40.23	3.04	571960	HYP	WRDR	7/1	6520	0.10	<0.001	0.14	
40.23	43.28	3.05	571961	HYP	WRDR	7/1	11600	0.12	<0.001	0.07	
43.28	46.33	3.05	571962	HYP	WRDR	7/1/5	10380	0.15	0.001	0.14	
46.33	49.07	2.74	571963	HYP	WRDR	7/1	9080	0.13	0.013	0.17	
49.07	52.12	3.05	571964	HYP	WRDR	7/1/5	10600	0.12	0.004	0.14	
52.12	55.02	2.90	571965	HYP	WRDR	7/1/5	9400	0.11	0.004	0.07	
55.02	58.22	3.20	571966	HYP	WRDR	7/1/5	11080	0.14	0.002	0.14	
58.22	61.26	3.04	571967	HYP	WRDR	7/6/1	11580	0.16	0.003	0.21	
61.26	64.31	3.05	571968	HYP	IXBX	7/6/1	11380	0.10	0.002	0.14	
64.31	67.67	3.36	571969	HYP	IXBX	7/5/6	13960	0.12	0.005	0.14	
67.67	70.71	3.04	571970	HYP	IXBX	7/5/6	10320	0.09	0.002	0.10	
70.71	73.76	3.05	571971	HYP	IXBX	7/5/6	11280	0.08	0.003	0.10	
73.76	76.81	3.05	571972	HYP	IXBX	7/5/6	9880	0.17	0.008	0.21	
76.81	79.86	3.05	571973	HYP	IXBX	7/5/6	11240	0.13	0.003	0.10	
79.86	83.21	3.35	571974	HYP	IXBX	7/5/6	13340	0.11	0.004	0.10	
83.21	85.95	2.74	571975	HYP	IXBX	7/5/6	8840	0.14	0.003	0.17	
85.95	89.00	3.05	571976	HYP	QMFX	7/5/6	10360	0.15	0.010	0.14	
89.00	92.05	3.05	571977	HYP	QMFX	7/5/6	11060	0.14	0.007	0.17	
92.05	95.10	3.05	571978	HYP	QMFX	7/5/6	10800	0.19	0.018	0.21	
95.10	98.15	3.05	571979	HYP	QMFX	7/5/6	11660	0.14	0.005	0.10	
98.15	101.19	3.04	571980	HYP	WRDR	7/1	11260	0.14	0.007	0.10	
101.19	104.24	3.05	571981	HYP	WRDR	7/1	12960	0.10	0.007	0.07	
104.24	106.68	2.44	571982	HYP	WRDR	7/1	7540	0.06	0.003	0.07	
106.68	110.03	3.35	571983	HYP	WRDR	7/1	12420	0.06	<0.001	<0.03	
110.03	112.78	2.75	571984	HYP	WRDR	7/1	9400	0.04	0.005	<0.03	
112.78	116.43	3.65	571985	HYP	WRDR	7/1	15940	0.09	0.002	<0.03	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
116.43	119.48	3.05	571986	HYP	WRDR	7/1	12520	0.14	0.003	0.10	
119.48	123.14	3.66	571987	HYP	WRDR	7/1	13220	0.12	0.003	0.10	
123.14	125.58	2.44	571988	HYP	WRDR	7/1	8000	0.09	0.002	0.07	
125.58	128.63	3.05	571989	HYP	WRDR	7/1	11400	0.22	0.003	0.17	
128.63	131.67	3.04	571990	HYP	WRDR	7/1	11820	0.15	0.003	0.10	
131.67	134.72	3.05	571991	HYP	WRDR	7/1	11120	0.28	0.007	0.17	
134.72	137.77	3.05	571992	HYP	WRDR	7/1	11000	0.16	0.003	0.14	
137.77	141.12	3.35	571993	HYP	WRDR	7/1	12740	0.13	0.003	0.14	
141.12	142.95	1.83	571994	HYP	WRDR	7/1	7260	0.13	0.002	0.10	
142.95	145.39	2.44	571995	HYP	WRDR	7/1	10240	0.18	0.023	0.10	
145.39	148.44	3.05	571996	HYP	WRDR	7/1	9000	0.12	0.006	0.10	
148.44	150.88	2.44	571997	HYP	WRDR	7/1	10480	0.28	0.006	0.27	
150.88	153.92	3.04	571998	HYP	WRDR	7/1	13560	0.14	0.010	0.14	
153.92	156.97	3.05	571999	HYP	WRDR	7/1	13080	0.11	0.002	0.14	
156.97	160.02	3.05	572000	HYP	WRDR	7/1	12440	0.06	<0.001	0.07	
160.02	163.07	3.05	588501	HYP	WRDR	7/1	13600	0.11	0.002	0.10	
163.07	166.42	3.35	588502	HYP	WRDR	7/1	14560	0.14	0.003	0.14	
166.42	169.47	3.05	588503	HYP	WRDR	7/1	14360	0.10	<0.001	0.07	
169.47	172.52	3.05	588504	HYP	WRDR	7/1	13180	0.22	0.004	0.24	
172.52	175.56	3.04	588505	HYP	WRDR	7/1	13600	0.08	0.013	0.03	
175.56	178.61	3.05	588506	HYP	WRDR	7/1	13760	0.15	0.016	0.10	
178.61	181.66	3.05	588507	HYP	WRDR	7/1	12980	0.19	0.013	0.14	
181.66	184.71	3.05	588508	HYP	WRDR	7/1	13540	0.11	0.028	0.10	
184.71	187.76	3.05	588509	HYP	WRDR	7/1	14160	0.09	0.003	0.07	
187.76	190.80	3.04	588510	HYP	WRDR	7/1	12800	0.10	<0.001	0.14	
190.80	194.01	3.21	588511	HYP	WRDR	7/1	14600	0.12	0.003	0.10	
194.01	196.90	2.89	588512	HYP	WRDR	7/1	12980	0.15	<0.001	0.14	
196.90	199.95	3.05	588513	HYP	WRDR	7/1	13280	0.12	<0.001	0.10	
199.95	203.00	3.05	588514	HYP	WRDR	7/1	14340	0.17	<0.001	0.10	
203.00	205.44	2.44	588515	HYP	WRDR	7/1	10300	0.11	0.008	0.10	
205.44	208.48	3.04	588516	HYP	WRDR	7/1	13140	0.09	0.005	0.07	
208.48	211.53	3.05	588517	HYP	WRDR	7/1	14020	0.12	0.003	0.14	
211.53	215.49	3.96	588518	HYP	WRDR	7/1	17480	0.33	0.009	0.21	
215.49	218.54	3.05	588519	HYP	WRDR	7/1	13020	0.12	0.008	0.14	
218.54	221.59	3.05	588520	HYP	WRDR	7/1	13060	0.19	<0.001	0.14	
221.59	224.64	3.05	588521	HYP	WRDR	7/1	13880	0.26	0.003	0.27	
224.64	227.69	3.05	588522	HYP	IXBX	7/1	11600	0.23	<0.001	0.21	
227.69	230.73	3.04	588523	HYP	IXBX	7/1	12120	0.10	0.013	0.10	
230.73	233.78	3.05	588524	HYP	IXBX	7/1	12000	0.16	0.015	0.14	
233.78	236.83	3.05	588525	HYP	IXBX	7/1	12580	0.16	0.005	0.14	
236.83	239.88	3.05	588526	HYP	IXBX	7/1	12100	0.19	0.017	0.31	
239.88	243.54	3.66	588527	HYP	IXBX	7/1	13180	0.16	0.003	0.17	
243.54	245.97	2.43	588528	HYP	IXBX	7/1	11940	0.07	0.002	0.10	
245.97	249.02	3.05	588529	HYP	IXBX	7/1	12800	0.10	<0.001	0.07	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
249.02	252.07	3.05	588530	HYP	IXBX	7/1	12860	0.46	0.009	0.27	
252.07	255.12	3.05	588531	HYP	IXBX	7/1	13400	0.13	<0.001	0.10	
255.12	258.17	3.05	588532	HYP	IXBX	7/1	13380	0.17	0.003	0.14	
258.17	261.21	3.04	588533	HYP	IXBX	7/1	13120	0.18	0.002	0.14	
261.21	264.26	3.05	588534	HYP	IXBX	7	12000	0.28	0.025	0.21	
264.26	267.31	3.05	588535	HYP	IXBX	7	12900	0.26	0.011	0.21	
267.31	270.36	3.05	588536	HYP	IXBX	7	13000	0.13	0.002	0.10	
270.36	273.41	3.05	588537	HYP	IXBX	7	12000	0.21	0.028	0.17	
273.41	276.45	3.04	588538	HYP	IXBX	7	12560	0.20	0.012	0.21	
276.45	279.50	3.05	588539	HYP	IXBX	7	12940	0.11	0.004	0.07	
279.50	282.55	3.05	588540	HYP	IXBX	7	12780	0.12	<0.001	0.14	
282.55	285.60	3.05	588541	HYP	IXBX	7	11380	0.32	0.005	0.27	
285.60	288.34	2.74	588542	HYP	IXBX	7	12580	0.21	0.018	0.21	
288.34	291.69	3.35	588543	HYP	IXBX	7/1/6	12260	0.16	0.007	0.10	
291.69	294.74	3.05	588544	HYP	IXBX	7/1/6	11960	0.14	0.005	0.17	
294.74	297.79	3.05	588545	HYP	IXBX	7/1/6	11860	0.18	0.006	0.17	
297.79	300.84	3.05	588546	HYP	IXBX	7/1/6	13000	0.23	0.005	0.17	
300.84	303.89	3.05	588547	HYP	IXBX	7/1	12980	0.17	<0.001	0.10	
303.89	306.93	3.04	588548	HYP	IXBX	7/1	12960	0.53	0.002	0.41	
306.93	309.98	3.05	588549	HYP	IXBX	7/1	13220	0.52	0.003	0.48	
309.98	313.03	3.05	588550	HYP	IXBX	7/1	13980	0.22	0.002	0.27	
313.03	316.08	3.05	588551	HYP	IXBX	7/6	12420	0.15	0.003	0.14	
316.08	319.13	3.05	588552	HYP	IXBX	7/6	12980	0.43	0.011	0.79	
319.13	322.17	3.04	588553	HYP	IXBX	7/6	12820	0.10	0.007	0.14	
322.17	325.22	3.05	588554	HYP	IXAF	7/4/5	12040	0.11	0.002	0.10	
325.22	328.27	3.05	588555	HYP	IXAF	7/4/5	11840	0.09	0.004	0.07	
328.27	331.32	3.05	588556	HYP	IXAF	7/4/5	11980	0.06	0.003	0.10	
331.32	334.37	3.05	588557	HYP	IXAF	7/4/5	12680	0.11	0.002	0.10	
334.37	337.41	3.04	588558	HYP	QMFX	7/4/5	12600	0.16	0.026	0.14	
337.41	340.46	3.05	588559	HYP	QMFX	7/4/5	12740	0.14	0.005	0.10	
340.46	343.51	3.05	588560	HYP	QMFX	7/4/5	12780	0.11	0.008	0.10	
343.51	346.56	3.05	588561	HYP	QMFX	7/4/5	11860	0.07	0.009	0.07	
346.56	349.61	3.05	588562	HYP	QMFX	7/4/5	11780	0.06	0.007	0.17	
349.61	352.65	3.04	588563	HYP	QMFX	7/4/5	12760	0.04	0.002	0.03	
352.65	355.70	3.05	588564	HYP	QMFX	7/4/5	12440	0.18	0.001	0.17	
355.70	358.75	3.05	588565	HYP	QMFX	7/4/5	13330	0.18	0.017	0.17	
358.75	361.19	2.44	588566	HYP	IXBX	7/1	11200	0.37	0.002	0.24	
361.19	363.93	2.74	588567	HYP	IXBX	7/1	12600	0.14	<0.001	0.10	
363.93	367.89	3.96	588568	HYP	IXBX	7/1	17920	0.17	0.001	0.10	
367.89	370.94	3.05	588569	HYP	IXBX	7/1	13760	0.12	0.003	0.10	
370.94	373.99	3.05	588570	HYP	IXBX	7/1	13750	0.13	0.002	0.14	
373.99	377.04	3.05	588571	HYP	IXBX	7/6	12980	0.20	0.004	0.14	
377.04	380.09	3.05	588572	HYP	IXBX	7/6	13500	0.13	0.003	0.10	
380.09	383.13	3.04	588573	HYP	IXBX	7/6	12760	0.09	0.003	0.10	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
383.13	386.18	3.05	588574	HYP	IXBX	7/6	12780	0.12	0.004	0.14	
386.18	389.23	3.05	588575	HYP	QMFX	75/4	12980	0.08	0.003	0.07	
389.23	392.28	3.05	588576	HYP	QMFX	75/4	12460	0.09	0.008	0.14	
392.28	395.33	3.05	588577	HYP	QMFX	75/4	12760	0.17	0.012	0.14	
395.33	398.38	3.05	588578	HYP	IXBX	7/6	12440	0.17	0.012	0.24	
398.38	401.42	3.04	588579	HYP	IXBX	7/6	12450	0.17	0.007	0.17	
401.42	404.47	3.05	588580	HYP	IXBX	7/6	12900	0.26	0.013	0.21	
404.47	407.52	3.05	588581	HYP	IXBX	7/6	13360	0.20	0.012	0.10	
407.52	410.57	3.05	588582	HYP	IXBX	7/6	12520	0.27	0.010	0.14	
410.57	413.61	3.04	588583	HYP	IXBX	7/6	12380	0.09	0.018	0.07	
413.61	416.66	3.05	588584	HYP	IXBX	7/6	12520	0.09	0.006	0.07	
416.66	419.71	3.05	588585	HYP	IXBX	7/6	12000	0.15	0.012	0.10	
419.71	422.76	3.05	588586	HYP	IXBX	7/6	12720	0.23	0.005	0.10	
422.76	425.81	3.05	588587	HYP	IXBX	7/6	12220	0.39	0.008	0.27	
425.81	428.85	3.04	588588	HYP	IXBX	7/6	12360	0.37	0.008	0.27	
428.85	431.29	2.44	588589	HYP	IXBX	7/6	9360	0.15	0.008	0.14	
431.29	434.34	3.05	588590	HYP	QMFX	7/4	9660	0.10	0.008	0.07	
434.34	437.39	3.05	588591	HYP	QMFX	7/4	12700	0.14	0.018	0.10	
437.39	440.44	3.05	588592	HYP	QMFX	7/4	12940	0.14	0.037	0.10	
440.44	443.64	3.20	588593	HYP	QMFX	7/4	12840	0.16	0.028	0.14	
443.64	446.84	3.20	588594	HYP	IXAF	7/4	13840	0.30	0.011	0.27	
446.84	450.04	3.20	588595	HYP	IXAF	7/4	13520	0.18	0.011	0.17	
450.04	453.24	3.20	588596	HYP	IXAF	7/4	12540	0.15	0.048	0.10	
453.24	456.29	3.05	588597	HYP	IXAF	7/4	11460	0.23	0.026	0.14	
456.29	459.33	3.04	588598	HYP	IXAF	7/4	12080	0.17	0.022	0.17	
459.33	462.38	3.05	588599	HYP	IXAF	7/4	12100	0.26	0.012	0.21	
462.38	465.43	3.05	588600	HYP	IXAF	7/4	13020	0.30	0.017	0.24	
465.43	468.48	3.05	588601	HYP	IXAF	7/4	9700	0.20	0.018	0.17	
468.48	471.53	3.05	588602	HYP	IXAF	7/4	15800	0.13	0.010	0.10	
471.53	474.57	3.04	588603	HYP	IXAF	7/4	13200	0.18	0.004	0.21	
474.57	477.62	3.05	588604	HYP	IXAF	7/4	13360	0.06	0.019	0.07	
477.62	480.67	3.05	588605	HYP	IXAF	7/6/4	13440	0.13	0.027	0.17	
480.67	483.72	3.05	588606	HYP	IXAF	7/6/4	13740	0.14	0.023	0.14	
483.72	486.77	3.05	588607	HYP	IXAF	7/6/4	14700	0.18	0.016	0.14	
486.77	489.81	3.04	588608	HYP	IXAF	7/6/4	12500	0.18	0.020	0.21	
489.81	492.86	3.05	588609	HYP	QMCX	7/4	12400	0.13	0.009	0.17	
492.86	495.91	3.05	588610	HYP	QMCX	7/4	12100	0.14	0.034	0.14	
495.91	498.96	3.05	588611	HYP	QMCX	7/4	12480	0.12	0.022	0.14	
498.96	502.01	3.05	588612	HYP	IXAF	7/1	12620	0.10	0.006	0.14	
502.01	505.05	3.04	588613	HYP	IXAF	7/1	14200	0.22	0.022	0.21	
505.05	508.10	3.05	588614	HYP	WRDX	7/1	14460	0.17	0.006	0.10	
508.10	511.15	3.05	588615	HYP	WRDX	7/1	13740	0.17	0.009	0.45	
511.15	514.20	3.05	588616	HYP	WRDX	7/1	13220	0.20	0.012	0.17	
514.20	517.25	3.05	588617	HYP	WRDX	7/1	14340	0.16	0.005	0.17	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
517.25	520.29	3.04	588618	HYP	WRDX	7/1	12880	0.16	0.011	0.21	
520.29	523.34	3.05	588619	HYP	WRDX	7/1	13480	0.24	0.007	0.21	
523.34	526.39	3.05	588620	HYP	WRDX	7/1	12940	0.26	0.014	0.27	
526.39	529.44	3.05	588621	HYP	WRDX	7/1	14280	0.10	0.014	0.10	
529.44	532.49	3.05	588622	HYP	WRDX	7/1	12540	0.15	0.007	0.10	
532.49	535.53	3.04	588623	HYP	IXAF	7/1	13960	0.08	0.010	0.10	
535.53	538.58	3.05	588624	HYP	IXAF	7/1	14200	0.11	0.014	0.24	
538.58	541.63	3.05	588625	HYP	IXAF	7/1	13320	0.09	0.008	0.10	
541.63	544.68	3.05	588626	HYP	IXAF	7/1	13860	0.08	0.014	0.07	
544.68	547.73	3.05	588627	HYP	IXAF	7/1	13520	0.10	0.012	0.10	
547.73	550.77	3.04	588628	HYP	IXAF	7	14240	0.06	0.017	0.03	
550.77	553.82	3.05	588629	HYP	IXAF	7	14560	0.13	0.017	0.10	
553.82	556.87	3.05	588630	HYP	WRDX	7/1	11360	0.27	0.051	0.24	
556.87	559.92	3.05	588631	HYP	WRDX	7/1	14670	0.21	0.015	0.21	
559.92	562.97	3.05	588632	HYP	WRDX	7/1	13740	0.28	0.007	0.21	
562.97	566.01	3.04	588633	HYP	WRDX	7/1	14400	0.15	0.005	0.14	
566.01	569.06	3.05	588634	HYP	WRDX	7/1	14500	0.25	0.010	0.31	
569.06	572.11	3.05	588635	HYP	WRDX	7/1	13840	0.12	0.004	0.10	
572.11	575.16	3.05	588636	HYP	WRDX	7/1	13840	0.25	0.014	0.21	
575.16	578.21	3.05	588637	HYP	WRDX	7/1	13400	0.36	0.021	0.27	
578.21	581.25	3.04	588638	HYP	WRDX	7/1	14440	0.11	0.009	0.14	
581.25	584.30	3.05	588639	HYP	WRDX	7/1	15000	0.10	0.006	0.10	
584.30	587.35	3.05	588640	HYP	WRDX	7/1	14480	0.24	0.003	0.21	
587.35	590.40	3.05	588641	HYP	WRDX	7/1	14080	0.11	0.008	0.21	
590.40	593.45	3.05	588642	HYP	WRDX	7/1	13820	0.15	0.005	0.10	
593.45	596.49	3.04	588643	HYP	WRDX	7/1	15000	0.15	0.007	0.07	
596.49	599.54	3.05	588644	HYP	WRDX	7/1	14780	0.10	0.008	0.10	
599.54	602.59	3.05	588645	HYP	WRDX	7/1	14680	0.14	0.001	0.10	
602.59	605.64	3.05	588646	HYP	WRDX	7/1	15240	0.09	0.014	0.07	
605.64	608.69	3.05	588647	HYP	WRDX	7/1	14280	0.08	0.009	0.07	
608.69	611.73	3.04	588648	HYP	WRDX	7/1	14300	0.08	0.013	0.07	
611.73	614.78	3.05	588649	HYP	WRDX	7/1	12660	0.09	0.005	0.07	
614.78	617.83	3.05	588650	HYP	WRDX	7/5/1	14400	0.13	0.007	0.10	
617.83	620.88	3.05	588651	HYP	WRDX	7/5/1	13020	0.09	0.004	0.10	
620.88	END OF HOLE										

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Hole Number	93-206	Total Depth	370.94 m
Northing	254,799.82	Casing Depth	4.88 m Left Out
Easting	110,938.17	Survey Data	Azimuth / Dip / Instrument
Elevation	1325.83 m	Collar	-90.0°
Core Size	HQ	154.5 m	327° / -88.5° / Sperry Sun
Drilling Started	September 7, 1993	304.8 m	340° / -88.5° / Sperry Sun
Drilling Finished	September 11, 1993		
Logged by	P. Fischl		

Purpose/Target: This hole twinned percussion hole P-54 which encountered some copper mineralization.

Comments: Intersected a weakly mineralized section of Patton Porphyry (CPXX, PPDP) and milled microbreccia (MBFP) cut by porphyritic latite (LPXX).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.88	4.88		OVB							
4.88	6.55	1.67	574328	CAP	MBFP	7/3	5260	0.10	0.006	0.34	
6.55	9.30	2.75	574329	CAP	MBFP	7/3	9580	0.06	0.007	0.51	
9.30	11.28	1.98	574330	CAP	MBFP	7/3	8680	0.06	0.011	0.48	
11.28	13.56	2.28	574331	CAP	MBFP	7/3	7140	0.05	0.009	0.48	
13.56	15.85	2.29	574332	CAP	MBFP	7/3	7980	0.07	0.008	0.31	
15.85	19.20	3.35	574333	CAP	MBFP	7/3	9240	0.05	0.006	0.31	
19.20	21.64	2.44	574334	CAP	MBFP	7/3	4420	0.04	0.016	0.27	
21.64	25.15	3.51	574335	CAP	MBFP	7/3	7560	0.06	0.045	0.17	
25.15	28.19	3.04	574336	CAP	MBFP	7/3	10360	0.09	0.077	0.17	
28.19	31.70	3.51	574337	CAP	MBFP	7/3	12760	0.04	0.010	0.24	
31.70	34.29	2.59	574338	CAP	MBFP	7/3	10120	0.09	0.008	0.14	
34.29	37.19	2.90	574339	CAP	PPDP	7	10900	0.09	0.005	0.14	
37.19	39.62	2.43	574340	SOX	PPDP	7/5	9020	0.13	0.009	0.17	
39.62	41.76	2.14	574341	SOX	PPDP	7/5	7720	0.18	0.006	0.17	
41.76	44.50	2.74	574342	SOX	PPDP	7	13360	0.18	0.006	0.21	
44.50	47.55	3.05	574343	SOX	PPDP	7	11640	0.19	0.005	0.14	
47.55	50.90	3.35	574344	SOX	PPDP	7	13500	0.12	0.004	0.17	
50.90	53.95	3.05	574345	SOX	PPDP	7	12260	0.24	0.006	0.21	
53.95	57.00	3.05	574346	SOX	PPDP	7	11660	0.10	0.005	0.07	
57.00	60.05	3.05	574347	SOX	PPDP	7	11580	0.10	0.005	0.10	
60.05	63.09	3.04	574348	SOX	PPDP	7/5	12500	0.16	0.011	0.14	
63.09	64.92	1.83	574349	TRN	PPDP	7/5	7340	0.07	0.005	0.10	
64.92	68.12	3.20	574350	TRN	PPDP	7/5	9760	0.10	0.005	0.07	
68.12	72.24	4.12	574351	TRN	PPDP	7	15460	0.16	0.004	0.07	
72.24	75.29	3.05	574352	TRN	LPXX	7	12100	0.03	0.002	<0.03	
75.29	78.33	3.04	574353	TRN	LPXX	7	11280	0.03	0.002	<0.03	
78.33	81.38	3.05	574354	TRN	LPXX	7	12800	0.01	0.003	<0.03	
81.38	84.43	3.05	574355	TRN	LPXX	7	11720	0.02	0.003	<0.03	
84.43	87.48	3.05	574356	TRN	LPXX	7	11460	0.02	0.003	<0.03	
87.48	90.53	3.05	574357	TRN	LPXX	3	10900	0.04	0.003	<0.03	
90.53	93.57	3.04	574358	TRN	LPXX	3	10460	0.04	0.003	<0.03	
93.57	96.01	2.44	574359	TRN	LPXX	3	9400	0.04	0.003	<0.03	
96.01	98.45	2.44	574360	TRN	LPXX	3	9220	0.08	0.004	0.07	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.45	101.80	3.35	574361	TRN	LPXX	3	13500	0.02	0.004	<0.03	
101.80	104.85	3.05	574362	SUS	LPXX	3	11700	0.14	0.004	0.21	
104.85	107.90	3.05	574363	SUS	LPXX	3	11520	0.09	0.003	0.07	
107.90	110.64	2.74	574364	SUS	LPXX	3	10500	0.41	0.003	0.21	
110.64	113.69	3.05	574365	SUS	LPXX	6	11360	0.06	0.003	0.34	
113.69	116.43	2.74	574366	SUS	LPXX	6	11080	0.03	0.002	0.03	
116.43	119.18	2.75	574367	SUS	LPXX	6	11100	0.16	0.001	0.10	
119.18	121.01	1.83	574368	SUS	LPXX	3	6600	0.07	0.002	0.07	
121.01	124.05	3.04	574369	SUS	LPXX	3	11800	0.06	0.001	<0.03	
124.05	127.10	3.05	574370	SUS	LPXX	5	11320	0.08	0.002	<0.03	
127.10	130.15	3.05	574371	SUS	LPXX	5	11200	0.07	0.001	<0.03	
130.15	133.20	3.05	574372	SUS	LPXX	5	12720	0.09	0.002	0.07	
133.20	136.25	3.05	574373	SUS	QPXX	5	12660	0.12	0.010	0.10	
136.25	139.29	3.04	574374	SUS	LPXX	3	11960	0.12	0.002	0.07	
139.29	142.34	3.05	574375	SUS	LPXX	3	11700	0.27	0.028	0.07	
142.34	145.39	3.05	574376	SUS	QPXX	3	11440	0.15	0.008	0.14	
145.39	148.44	3.05	574377	SUS	LPXX	3	11020	0.12	0.003	0.17	
148.44	151.49	3.05	574378	SUS	LPXX	3	11480	0.07	0.014	0.21	
151.49	154.53	3.04	574379	SUS	QPXX	3	15340	0.09	0.011	0.07	
154.53	156.67	2.14	574380	SUS	LPXX	3	7960	0.06	0.002	<0.03	
156.67	159.72	3.05	574381	SUS	LPXX	3	11480	0.08	0.002	<0.03	
159.72	162.92	3.20	574382	SUS	LPXX	3	11960	0.08	0.005	0.07	
162.92	166.12	3.20	574383	SUS	QPXX	6	12100	0.11	0.007	0.07	
166.12	169.16	3.04	574384	SUS	QPXX	6	11100	0.12	0.008	0.10	
169.16	172.21	3.05	574385	SUS	QPXX	6	12420	0.13	0.011	0.17	
172.21	174.35	2.14	574386	SUS	QPXX	6	7700	0.16	0.039	0.14	
174.35	176.78	2.43	574387	SUS	QPXX	6	9100	0.39	0.060	0.27	
176.78	178.92	2.14	574388	SUS	QPXX	6	8480	0.30	0.039	0.24	
178.92	181.97	3.05	574389	SUS	QPXX	6	12200	0.15	0.014	0.10	
181.97	185.01	3.04	574390	SUS	QPXX	6	12360	0.19	0.042	0.14	
185.01	188.06	3.05	574391	SUS	QPXX	6	12420	0.10	0.059	0.10	
188.06	189.89	1.83	574392	SUS	QPXX	6	7400	0.09	0.018	0.07	
189.89	192.94	3.05	574393	SUS	QPXX	6	13440	0.05	0.022	0.03	
192.94	195.53	2.59	574394	SUS	LPXX	3	10640	0.08	0.002	0.07	
195.53	198.42	2.89	574395	SUS	LPXX	3	11000	0.07	0.002	0.10	
198.42	200.25	1.83	574396	SUS	LPXX	3	7700	0.12	0.003	0.07	
200.25	203.30	3.05	574397	SUS	QPXX	6	12000	0.17	0.018	0.56	
203.30	206.35	3.05	574398	HYP	QPXX	6	12300	0.11	0.015	0.15	
206.35	209.40	3.05	574399	HYP	QPXX	6	12920	0.15	0.019	0.17	
209.40	211.99	2.59	574400	HYP	QPXX	6	10000	0.21	0.037	0.24	
211.99	215.49	3.50	574401	HYP	QPXX	6	11420	0.21	0.055	0.21	
215.49	218.54	3.05	574402	HYP	QPXX	6	12720	0.16	0.029	0.17	
218.54	221.59	3.05	574403	HYP	QPXX	6	12220	0.31	0.053	0.38	
221.59	224.33	2.74	574404	HYP	QPXX	6	11980	0.18	0.044	0.21	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
224.33	227.38	3.05	574405	HYP	QPXX	6	12400	0.12	0.029	0.10	
227.38	230.43	3.05	574406	HYP	QPXX	6	12040	0.10	0.022	0.14	
230.43	231.80	1.37	574407	HYP	QPXX	6	5460	0.15	0.023	0.14	
231.80	233.78	1.98	574408	HYP	QPXX	6	8120	0.17	0.032	0.21	
233.78	236.83	3.05	574409	HYP	QPXX	6	12920	0.14	0.026	0.14	
236.83	239.88	3.05	574410	HYP	QPXX	6	12860	0.13	0.023	0.10	
239.88	242.93	3.05	574411	HYP	QPXX	6	13040	0.22	0.064	0.21	
242.93	245.97	3.04	574412	HYP	QPXX	7	13340	0.16	0.029	0.17	
245.97	249.02	3.05	574413	HYP	QPXX	7	12260	0.31	0.042	0.34	
249.02	252.07	3.05	574414	HYP	QPXX	7	13360	0.14	0.019	0.24	
252.07	255.12	3.05	574415	HYP	QPXX	7	12700	0.12	0.058	0.17	
255.12	258.17	3.05	574416	HYP	QPXX	7	13280	0.23	0.022	0.21	
258.17	261.21	3.04	574417	HYP	QPXX	7	12750	0.15	0.025	0.21	
261.21	264.26	3.05	574418	HYP	QPXX	7	12780	0.12	0.038	0.14	
264.26	267.31	3.05	574419	HYP	QPXX	7	13300	0.09	0.031	0.14	
267.31	268.83	1.52	574420	HYP	QPXX	7	6920	0.10	0.037	0.14	
268.83	272.03	3.20	574421	HYP	QPXX	7	13260	0.12	0.054	0.17	
272.03	273.41	1.38	574422	HYP	QPXX	7	5700	0.20	0.041	0.34	
273.41	276.45	3.04	574423	HYP	QPXX	6	13100	0.09	0.062	0.14	
276.45	279.50	3.05	574424	HYP	QPXX	6	12140	0.10	0.065	0.10	
279.50	282.55	3.05	574425	HYP	QPXX	6	12500	0.07	0.029	0.07	
282.55	284.07	1.52	574426	HYP	QPXX	6	12900	0.53	0.026	0.27	
284.07	287.12	3.05	574427	HYP	QPXX	6	14980	0.27	0.044	0.45	
287.12	290.32	3.20	574428	HYP	QPXX	6	12320	0.10	0.036	0.14	
290.32	293.52	3.20	574429	HYP	LPXX	5	12020	0.06	0.032	0.07	
293.52	296.57	3.05	574430	HYP	LPXX	5	9640	0.12	0.018	0.07	
296.57	299.62	3.05	574431	HYP	LPXX	5	12040	0.08	0.008	0.03	
299.62	300.84	1.22	574432	HYP	LPXX	5	11150	0.07	0.002	<0.03	
300.84	303.89	3.05	574433	HYP	LPXX	5	12010	0.08	0.006	0.03	
303.89	306.93	3.04	574434	HYP	QPXX	5	12520	0.03	0.009	<0.03	
306.93	309.98	3.05	574435	HYP	QPXX	7	12620	0.06	0.017	<0.03	
309.98	313.03	3.05	574436	HYP	QPXX	6	12460	0.05	0.012	0.07	
313.03	316.08	3.05	574437	HYP	QPXX	6/7	12680	0.06	0.027	0.10	
316.08	319.13	3.05	574438	HYP	QPXX	6/7	12620	0.06	0.028	0.07	
319.13	322.17	3.04	574439	HYP	QPXX	6	10720	0.05	0.014	0.10	
322.17	325.22	3.05	574440	HYP	QPXX	6	12540	0.04	0.031	0.07	
325.22	328.27	3.05	574441	HYP	QPXX	5/6	12240	0.04	0.016	0.03	
328.27	331.32	3.05	574442	HYP	QPXX	5	13000	0.07	0.020	0.07	
331.32	334.37	3.05	574443	HYP	QPXX	5	13280	0.05	0.010	0.10	
334.37	337.41	3.04	574444	HYP	QPXX	6	12920	0.04	0.024	<0.03	
337.41	340.46	3.05	574445	HYP	QPXX	6	13380	0.06	0.029	0.03	
340.46	343.51	3.05	574446	HYP	QPXX	6	13080	0.04	0.016	<0.03	
343.51	346.56	3.05	574447	HYP	QPXX	6	11500	0.03	0.009	<0.03	
346.56	349.61	3.05	574448	HYP	QPXX	5	14140	0.03	0.011	<0.03	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
349.61	352.65	3.04	574449	HYP	QPXX	5/6	13800	0.08	0.040	0.03	
352.65	355.70	3.05	574450	HYP	QPXX	5/6	13140	0.08	0.025	0.07	
355.70	358.75	3.05	574451	HYP	QPXX	7/5	13140	0.09	0.034	0.07	
358.75	361.80	3.05	574452	HYP	QPXX	7	12900	0.07	0.018	0.03	
361.80	364.85	3.05	574453	HYP	QPXX	7	13640	0.14	0.020	0.10	
364.85	367.89	3.04	574454	HYP	QPXX	6/7	14020	0.06	0.030	0.07	
367.89	370.94	3.05	574455	HYP	QPXX	6/7	13760	0.09	0.028	0.10	
370.94	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-207	Total Depth	397.76 m
Northing	254,786.03	Casing Depth	4.57 m Left In
Easting	111,456.92		
Elevation	1209.70 m		
Core Size	HQ		
Drilling Started	September 7, 1993		
Drilling Finished	September 14, 1993		
Logged by	M. Dittrick		

Survey Data	Azimuth	Dip	Instrument
Collar		-90.0°	
204.22 m	42°	-89.5°	Sperry Sun
323.09 m	109°	-89.5°	Sperry Sun

Purpose/Target: Delineation drill hole to test the mineralization and alteration to depth in the east-central zone of the deposit.

Comments: Granodiorite intersected throughout the entire hole. Alteration was dominantly vein-controlled phyllic overprinting weak potassic or sericite-clay-chlorite alteration.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	6.10	3.05	575715	CAP	WRGD	3	5960	0.01	0.003	0.07	
6.10	9.14	3.04	575716	CAP	WRGD	3	7080	0.01	0.004	0.10	
9.14	12.19	3.05	575717	CAP	WRGD	3	9820	0.02	0.004	0.10	
12.19	15.20	3.01	575718	CAP	WRGD	3	9880	0.03	0.004	0.07	
15.20	18.29	3.09	575719	CAP	WRGD	3	4420	0.02	0.006	0.10	
18.29	21.34	3.05	575720	CAP	WRGD	3	9920	0.03	0.007	0.07	
21.34	24.38	3.04	575721	CAP	WRGD	3	9620	0.02	0.004	0.03	
24.38	27.43	3.05	575722	CAP	WRGD	3	7560	0.01	0.005	0.10	
27.43	30.48	3.05	575723	CAP	WRGD	3	9500	0.02	0.003	0.07	
30.48	33.52	3.04	575724	CAP	WRGD	3	7240	0.02	0.003	0.10	
33.52	36.58	3.06	575725	CAP	WRGD	3	9960	0.02	0.041	0.10	
36.58	39.62	3.04	575726	CAP	WRGD	3	10120	0.02	0.057	0.07	
39.62	42.67	3.05	575727	CAP	WRGD	3	10400	0.01	0.013	0.03	
42.67	45.72	3.05	575728	SUS	WRGD	3/4	10900	0.03	0.006	0.10	
45.72	48.77	3.05	575729	SUS	WRGD	3/4	9660	0.19	0.002	0.07	
48.77	51.82	3.05	575730	SUS	WRGD	3/4	9560	0.64	0.005	0.10	
51.82	54.86	3.04	575731	SUS	WRGD	3/4	11100	0.33	0.004	0.14	
54.86	57.91	3.05	575732	SUS	WRGD	3/4	10220	0.80	0.004	0.17	
57.91	60.96	3.05	575733	SUS	WRGD	3/4	9720	0.47	0.003	0.14	
60.96	64.01	3.05	575734	SUS	WRGD	3/4	9780	0.36	0.002	0.07	
64.01	67.06	3.05	575735	SUS	WRGD	5/3	10500	0.22	0.011	0.10	
67.06	70.10	3.04	575736	SUS	WRGD	5/3	9720	0.20	0.003	0.07	
70.10	73.15	3.05	575737	SUS	WRGD	5/3	11740	0.16	0.002	0.07	
73.15	76.20	3.05	575738	SUS	WRGD	3/5	9720	0.14	0.002	0.10	
76.20	79.25	3.05	575739	SUS	WRGD	5	11420	0.28	0.011	0.03	
79.25	82.30	3.05	575740	SUS	WRGD	5	10220	0.22	0.002	0.07	
82.30	85.34	3.04	575741	SUS	WRGD	5	12360	0.20	0.004	0.07	
85.34	88.39	3.05	575742	SUS	WRGD	5	12100	0.18	0.001	<0.03	
88.39	91.44	3.05	575743	SUS	WRGD	4/1	10160	0.14	0.002	<0.03	
91.44	94.49	3.05	575744	SUS	WRGD	5	12180	0.15	0.002	0.07	
94.49	97.53	3.04	575745	SUS	WRGD	5	10820	0.24	0.002	<0.03	
97.53	100.58	3.05	575746	SUS	WRGD	5	11600	0.13	0.001	<0.03	
100.58	103.63	3.05	575747	SUS	WRGD	5	11180	0.19	0.004	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-207

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
103.63	106.68	3.05	575748	SUS	WRGD	5/3	11620	0.47	0.008	<0.03	
106.68	109.73	3.05	575749	SUS	WRGD	6	12280	0.19	0.002	0.24	
109.73	112.78	3.05	575750	SUS	WRGD	6/5	9120	0.23	0.002	0.07	
112.78	115.82	3.04	575751	SUS	WRGD	6/5	12820	0.22	0.002	<0.03	
115.82	118.87	3.05	575752	SUS	WRGD	6/5	12180	0.24	0.007	0.07	
118.87	121.92	3.05	575753	SUS	WRGD	5/6	10340	0.31	0.005	0.10	
121.92	124.97	3.05	575754	SUS	WRGD	5/6	12340	0.21	0.003	0.07	
124.97	128.02	3.05	575755	SUS	WRGD	6/5	10540	0.17	0.002	0.03	
128.02	131.06	3.04	575756	SUS	WRGD	6/5	11420	0.23	0.002	0.07	
131.06	133.81	2.75	575757	SUS	WRGD	6	9660	0.08	0.004	0.07	
133.81	137.16	3.35	575758	SUS	WRGD	6/5	13950	0.13	0.003	0.10	
137.16	140.21	3.05	575759	SUS	WRGD	6/5	10750	0.66	0.003	0.03	
140.21	143.26	3.05	575760	SUS	WRGD	6/5	11720	0.05	0.003	0.07	
143.26	146.30	3.04	575761	SUS	WRGD	6/5	10840	0.03	0.012	0.03	
146.30	149.35	3.05	575762	SUS	WRGD	6/5	9960	0.11	0.002	0.10	
149.35	152.40	3.05	575763	SUS	WRGD	6/5	15820	0.06	0.003	0.03	
152.40	155.45	3.05	575764	SUS	WRGD	6/5	11400	0.06	0.001	0.07	
155.45	158.50	3.05	575765	SUS	WRGD	5/6	12060	0.12	0.006	0.14	
158.50	161.54	3.04	575766	SUS	WRGD	5/6	10500	0.10	0.002	0.07	
161.54	164.59	3.05	575767	SUS	WRGD	5/6	11880	0.08	0.001	0.07	
164.59	167.64	3.05	575768	SUS	WRGD	5/6	10700	0.12	0.001	0.03	
167.64	170.69	3.05	575769	SUS	WRGD	6/5	10920	0.05	0.001	0.07	
170.69	173.74	3.05	575770	SUS	WRGD	6/5	11360	0.08	0.002	0.03	
173.74	176.78	3.04	575771	SUS	WRGD	6/5	10680	0.06	0.005	0.00	
176.78	179.83	3.05	575772	SUS	WRGD	6/5	11600	0.06	0.001	0.07	
179.83	182.88	3.05	575773	SUS	WRGD	3/5	11420	0.06	0.003	0.07	
182.88	185.93	3.05	575774	SUS	WRGD	6/5	11600	0.11	0.004	0.14	
185.93	188.98	3.05	575775	SUS	WRGD	6/5	11460	0.07	0.012	0.07	
188.98	192.02	3.04	575776	SUS	WRGD	6/5	11700	0.06	0.048	0.07	
192.02	195.07	3.05	575777	SUS	WRGD	5/6	12040	0.06	0.005	0.07	
195.07	198.12	3.05	575778	SUS	WRGD	5	11780	0.04	0.004	0.14	
198.12	201.17	3.05	575779	SUS	WRGD	5	12300	0.09	0.006	0.10	
201.17	204.22	3.05	575780	SUS	WRGD	5	11700	0.09	0.003	0.07	
204.22	207.26	3.04	575781	HYP	WRGD	5/6	11680	0.07	0.003	0.03	
207.26	210.31	3.05	575782	HYP	WRGD	6/5	12540	0.06	0.068	0.07	
210.31	213.36	3.05	575783	HYP	WRGD	6/5	12300	0.16	0.002	0.17	
213.36	216.41	3.05	575784	HYP	WRGD	6/5	12800	0.08	0.020	0.10	
216.41	219.46	3.05	575785	HYP	WRGD	6/5	12840	0.07	0.007	0.07	
219.46	222.50	3.04	575786	HYP	WRGD	6/5	11540	0.12	0.010	0.10	
222.50	225.55	3.05	575787	HYP	WRGD	5/6	12750	0.09	0.006	0.10	
225.55	228.60	3.05	575788	HYP	WRGD	6/5	11900	0.11	0.003	0.07	
228.60	231.65	3.05	575789	HYP	WRGD	6	12280	0.08	0.002	0.10	
231.65	234.70	3.05	575790	HYP	WRGD	6	12900	0.06	0.001	0.03	
234.70	237.74	3.04	575791	HYP	WRGD	7	11900	0.06	0.004	0.10	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
237.74	240.79	3.05	575792	HYP	WRGD	5	10620	0.03	0.003	0.03	
240.79	243.84	3.05	575793	HYP	WRGD	6/5	13400	0.05	0.003	<0.03	
243.84	246.89	3.05	575794	HYP	WRGD	6	11700	0.05	0.003	0.07	
246.89	249.94	3.05	575795	HYP	WRGD	6	11020	0.04	0.006	0.03	
249.94	252.98	3.04	575796	HYP	WRGD	6	10240	0.08	0.004	0.07	
252.98	256.03	3.05	575797	HYP	WRGD	6	16660	0.07	0.006	0.10	
256.03	259.08	3.05	575798	HYP	WRGD	5	11820	0.10	0.002	0.45	
259.08	262.13	3.05	575799	HYP	WRGD	5	12360	0.07	0.004	0.10	
262.13	265.18	3.05	575800	HYP	WRGD	5	11960	0.07	0.006	0.10	
265.18	268.22	3.04	575801	HYP	WRGD	5/6	12760	0.07	0.003	0.10	
268.22	271.27	3.05	575802	HYP	WRGD	5/6	13320	0.15	0.013	0.14	
271.27	274.32	3.05	575803	HYP	WRGD	5/6	11300	0.08	0.008	0.07	
274.32	277.37	3.05	575804	HYP	WRGD	5/6	12000	0.13	0.005	0.10	
277.37	280.42	3.05	575805	HYP	WRGD	5/6	12120	0.18	0.005	0.24	
280.42	283.46	3.04	575806	HYP	WRGD	5	10840	0.23	0.005	0.14	
283.46	286.51	3.05	575807	HYP	WRGD	6/5	12520	0.14	0.005	0.14	
286.51	289.56	3.05	575808	HYP	WRGD	6/5	8860	0.10	0.008	0.10	
289.56	292.61	3.05	575809	HYP	WRGD	6/5	12960	0.09	0.003	0.07	
292.61	295.66	3.05	575810	HYP	WRGD	7/5	13980	0.11	0.003	0.10	
295.66	298.70	3.04	575811	HYP	WRGD	5	12260	0.13	0.003	0.07	
298.70	301.75	3.05	575812	HYP	WRGD	5	14080	0.04	0.004	0.07	
301.75	304.80	3.05	575813	HYP	WRGD	5/6	13900	0.09	0.003	0.14	
304.80	307.85	3.05	575814	HYP	WRGD	5/6	14160	0.07	0.002	0.10	
307.85	310.90	3.05	575815	HYP	WRGD	5/6	13740	0.04	0.002	0.07	
310.90	313.94	3.04	575816	HYP	WRGD	5/6	14460	0.04	0.003	0.03	
313.94	316.99	3.05	575817	HYP	WRGD	7	13040	0.13	0.006	0.17	
316.99	320.04	3.05	575818	HYP	WRGD	7	13700	0.11	0.002	0.10	
320.04	323.09	3.05	575819	HYP	WRGD	5	13040	0.01	0.002	0.10	
323.09	326.14	3.05	575820	HYP	WRGD	5	12740	0.04	0.002	0.07	
326.14	329.18	3.04	575821	HYP	WRGD	5	11540	<0.01	0.001	0.10	
329.18	332.23	3.05	575822	HYP	WRGD	5	13000	<0.01	0.004	0.07	
332.23	335.28	3.05	575823	HYP	WRGD	5/7	13560	0.02	0.006	0.07	
335.28	338.33	3.05	575824	HYP	WRGD	7	13880	0.01	0.001	0.03	
338.33	341.38	3.05	575825	HYP	WRGD	5/7	12820	0.04	0.003	0.03	
341.38	344.42	3.04	575826	HYP	WRGD	5	12300	0.02	0.001	0.07	
344.42	347.47	3.05	575827	HYP	WRGD	5	13960	0.02	0.002	0.07	
347.47	350.52	3.05	575828	HYP	WRGD	5	13500	0.05	0.002	0.14	
350.52	353.57	3.05	575829	HYP	WRGD	5	14260	0.01	0.003	0.07	
353.57	356.62	3.05	575830	HYP	WRGD	5	13600	0.03	0.002	0.03	
356.62	359.66	3.04	575831	HYP	WRGD	5	12800	0.01	0.001	<0.03	
359.66	362.71	3.05	575832	HYP	WRGD	5	12940	0.01	0.006	<0.03	
362.71	365.76	3.05	575833	HYP	WRGD	5	12340	0.01	0.003	<0.03	
365.76	368.81	3.05	575834	HYP	WRGD	5	12360	0.01	0.001	<0.03	
368.81	371.86	3.05	575835	HYP	WRGD	5	12220	0.02	0.001	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
371.86	374.90	3.04	575836	HYP	WRGD	5	12720	0.01	0.001	<0.03	
374.90	377.95	3.05	575837	HYP	WRGD	5/4	11840	0.01	0.001	0.03	
377.95	381.00	3.05	575838	HYP	WRGD	5/6	12240	0.02	0.001	<0.03	
381.00	384.05	3.05	575839	HYP	WRGD	6/5	12420	0.03	0.003	0.07	
384.05	387.10	3.05	575840	HYP	WRGD	6/5	11160	0.01	0.001	0.03	
387.10	390.14	3.04	575841	HYP	WRGD	5	12980	0.01	0.002	0.03	
390.14	393.19	3.05	575842	HYP	WRGD	5	13780	<0.01	0.002	<0.03	
393.19	396.24	3.05	575843	HYP	WRGD	5	13360	0.02	0.004	0.03	
396.24	397.76	1.52	575844	HYP	WRGD	5	5800	0.01	0.002	<0.03	
397.76	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-208	Total Depth	380.08 m		
Northing	255,164.82	Casing Depth	4.88 m		Left Out
Easting	110,949.74	Survey Data	Azimuth	Dip	Instrument
Elevation	1244.71 m	Collar		-90.00°	Brunton Compass
Core Size	NQ	152.40 m	085°	-89.75°	Sperry Sun
Drilling Started	September 7, 1993	304.80 m	070°	-89.50°	Sperry Sun
Drilling Finished	September 14, 1993	380.08 m	070°	-89.50°	Sperry Sun
Logged by	M.P. Phillips				

Purpose/Target: Define westerly limits of mineralization intersected in 93-184 and 197.

Comments: Low grade copper and better molybdenite was intersected in potassic altered heterolithic intrusion breccia and intrusive diorite.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.88	4.88		OVB							
4.88	8.23	3.35	565460	SOX	IXAF	3/7	10820	0.06	0.022	0.24	
8.23	11.28	3.05	565461	SOX	IXAF	3/7	9380	0.21	0.025	0.48	
11.28	14.33	3.05	565462	SOX	IXAF	3/7	8580	0.16	0.027	0.34	
14.33	16.46	2.13	565463	SOX	IXAF	3/7	5500	0.10	0.026	0.31	
16.46	20.42	3.96	565464	SOX	IXAF	3/7	11080	0.13	0.022	0.17	
20.42	23.47	3.05	565465	SOX	IXAF	3/7	11600	0.12	0.027	0.24	
23.47	25.91	2.44	565466	SOX	IXAF	3/7	8690	0.20	0.019	0.24	
25.91	28.96	3.05	565467	SOX	IXAF	3/7	10580	0.11	0.027	0.34	
28.96	32.61	3.65	565468	SOX	IXAF	3/7	13440	0.07	0.024	0.38	
32.61	35.66	3.05	565469	SOX	IXAF	3/7	10380	0.11	0.028	0.24	
35.66	38.71	3.05	565470	SOX	IXAF	3/7	10980	0.09	0.027	0.17	
38.71	41.76	3.05	565471	SOX	IXAF	7	10340	0.10	0.038	0.34	
41.76	44.20	2.44	565472	SOX	WRDR	7	7460	0.06	0.015	0.21	
44.20	46.18	1.98	565473	SOX	WRDR	7	7280	0.08	0.018	0.21	
46.18	47.85	1.67	565474	SOX	WRDR	7	6860	0.08	0.012	0.10	
47.85	50.29	2.44	565475	SOX	WRDR	7	8560	0.17	0.026	0.24	
50.29	53.34	3.05	565476	SOX	WRDR	7	12420	0.09	0.020	0.21	
53.34	56.39	3.05	565477	SOX	WRDR	7	12480	0.09	0.014	0.21	
56.39	58.52	2.13	565478	SOX	WRDR	7	8040	0.18	0.022	0.38	
58.52	60.05	1.53	565479	SOX	WRDR	7	6000	0.38	0.022	0.31	
60.05	63.09	3.04	565480	SOX	WRDR	7	12160	0.21	0.021	0.24	
63.09	66.14	3.05	565481	SOX	WRDR	7	12760	0.22	0.022	0.34	
66.14	69.19	3.05	565482	SOX	WRDR	7	11320	0.04	0.013	0.17	
69.19	72.24	3.05	565483	SOX	WRDR	7	11860	0.14	0.022	0.17	
72.24	75.29	3.05	565484	SOX	WRDR	7	12440	0.25	0.013	0.51	
75.29	78.33	3.04	565485	SOX	WRDR	7	10660	0.36	0.039	0.38	
78.33	81.38	3.05	565486	HYP	WRDR	5/7	12940	0.58	0.027	0.27	
81.38	84.43	3.05	565487	HYP	WRDR	7	8560	0.54	0.041	0.41	
84.43	86.87	2.44	565488	HYP	WRDR	7	7860	0.22	0.018	0.17	
86.87	88.09	1.22	565489	HYP	WRDR	7	5600	0.22	0.013	0.14	
88.09	90.53	2.44	565490	HYP	WRDR	7	8500	0.28	0.021	0.31	
90.53	93.57	3.04	565491	HYP	WRDR	7	10680	0.26	0.029	0.38	
93.57	96.62	3.05	565492	HYP	WRDR	7	10180	0.28	0.036	0.41	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
96.62	99.67	3.05	565493	HYP	WRDR	7	8600	0.30	0.038	0.38	
99.67	102.11	2.44	565494	HYP	WRDR	7	7000	0.26	0.029	0.21	
102.11	103.63	1.52	565495	HYP	WRDR	7	5500	0.15	0.032	0.34	
103.63	106.07	2.44	565496	HYP	WRDR	7	7840	0.06	0.009	0.14	
106.07	108.81	2.74	565497	HYP	WRDR	7	8360	0.06	0.027	0.07	
108.81	110.95	2.14	565498	HYP	WRDR	7	5580	0.07	0.017	0.07	
110.95	112.78	1.83	565499	HYP	WRDR	7	6200	0.05	0.007	0.07	
112.78	114.91	2.13	565500	HYP	WRDR	7	7260	0.03	0.007	0.07	
114.91	117.35	2.44	565501	HYP	WRDR	7	6000	0.08	0.020	0.14	
117.35	119.18	1.83	565502	HYP	WRDR	7	6240	0.09	0.012	0.14	
119.18	121.62	2.44	565503	HYP	WRDR	7	7460	0.07	0.016	0.07	
121.62	123.44	1.82	565504	HYP	IXAF	7	5220	0.19	0.033	0.21	
123.44	126.49	3.05	565505	HYP	IXAF	7	9800	0.09	0.019	0.10	
126.49	129.72	3.23	565506	HYP	IXAF	7	9720	0.08	0.021	0.07	
129.72	133.20	3.48	565507	HYP	IXAF	7	10960	0.07	0.018	0.10	
133.20	135.33	2.13	565508	HYP	WRDR	7	6740	0.06	0.005	0.07	
135.33	138.07	2.74	565509	HYP	WRDR	7	10000	0.08	0.010	0.10	
138.07	141.12	3.05	565510	HYP	WRDR	7	10640	0.07	0.013	0.10	
141.12	142.95	1.83	565511	HYP	WRDR	7	6300	0.03	0.021	0.07	
142.95	146.00	3.05	565512	HYP	WRDR	7	12600	0.10	0.012	0.17	
146.00	148.44	2.44	565513	HYP	WRDR	7	9920	0.08	0.015	0.14	
148.44	151.49	3.05	565514	HYP	WRDR	7	11860	0.16	0.028	0.27	
151.49	154.53	3.04	565515	HYP	IXAF	7/5	13060	0.13	0.026	0.24	
154.53	157.58	3.05	565516	HYP	IXAF	7	11940	0.09	0.013	0.17	
157.58	160.63	3.05	565517	HYP	IXAF	7	11660	0.11	0.016	0.17	
160.63	163.68	3.05	565518	HYP	IXAF	7	11780	0.08	0.010	0.10	
163.68	166.72	3.04	565519	HYP	IXAF	7	11440	0.09	0.014	0.17	
166.72	169.77	3.05	565520	HYP	IXAF	7	10320	0.08	0.039	0.14	
169.77	172.82	3.05	565521	HYP	IXAF	7	8540	0.11	0.020	0.14	
172.82	175.87	3.05	565522	HYP	IXAF	7	9680	0.11	0.029	0.14	
175.87	178.92	3.05	565523	HYP	IXAF	7	8600	0.14	0.049	0.24	
178.92	181.97	3.05	565524	HYP	IXAF	7	9460	0.17	0.037	0.24	
181.97	184.40	2.43	565525	HYP	IXAF	7	9040	0.17	0.034	0.34	
184.40	187.45	3.05	565526	HYP	IXAF	7	10700	0.15	0.042	0.14	
187.45	190.50	3.05	565527	HYP	IXAF	7	13920	0.08	0.024	0.14	
190.50	194.16	3.66	565528	HYP	IXAF	7	12980	0.09	0.026	0.07	
194.16	197.21	3.05	565529	HYP	IXAF	7	12020	0.12	0.010	0.10	
197.21	199.64	2.43	565530	HYP	IXAF	7	8460	0.17	0.058	0.10	
199.64	202.69	3.05	565531	HYP	IXAF	7	11900	0.11	0.084	0.07	
202.69	205.74	3.05	565532	HYP	IXAC	7	12320	0.10	0.019	0.10	
205.74	208.79	3.05	565533	HYP	IXAC	7	10860	0.09	0.020	0.10	
208.79	211.84	3.05	565534	HYP	IXAC	7	10620	0.10	0.019	0.10	
211.84	214.88	3.04	565535	HYP	IXAC	7	8460	0.09	0.032	0.07	
214.88	219.93	5.05	565536	HYP	IXAC	7	10720	0.10	0.035	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
219.93	220.68	0.75	565537	HYP	IXAC	7	9540	0.12	0.049	0.10	
220.68	224.64	3.96	565538	HYP	IXAC	7	10460	0.15	0.100	0.10	
224.64	227.69	3.05	565539	HYP	IXAC	5/7	12900	0.08	0.014	0.07	
227.69	230.73	3.04	565540	HYP	IXAC	4/5	13200	0.11	0.020	0.51	
230.73	233.48	2.75	565541	HYP	IXAC	7/4	8740	0.06	0.011	0.17	
233.48	235.31	1.83	565542	HYP	IXAC	4/7	4900	0.07	0.015	0.10	
235.31	236.68	1.37	565543	HYP	IXAC	4/7	4940	0.08	0.028	0.14	
236.68	239.42	2.74	565544	HYP	IXAC	4/5	9620	0.08	0.074	0.10	
239.42	242.47	3.05	565545	HYP	IXAC	7	12060	0.08	0.058	0.10	
242.47	245.52	3.05	565546	HYP	IXAC	7	13180	0.08	0.034	0.17	
245.52	248.56	3.04	565547	HYP	IXAC	7	12620	0.12	0.054	0.21	
248.56	251.76	3.20	565548	HYP	IXAC	7	12720	0.11	0.132	0.14	
251.76	254.81	3.05	565549	HYP	IXAF	7	12460	0.13	0.085	0.21	
254.81	257.86	3.05	565550	HYP	IXAF	7	12580	0.07	0.087	0.10	
257.86	261.21	3.35	565551	HYP	IXAF	7	12980	0.09	0.289	0.07	
261.21	264.26	3.05	565552	HYP	IXAF	7	13120	0.07	0.089	0.07	
264.26	267.31	3.05	565553	HYP	IXAF	7	13440	0.07	0.030	0.07	
267.31	270.36	3.05	565554	HYP	IXAF	7	13820	0.04	0.007	0.10	
270.36	273.41	3.05	565555	HYP	IXAF	7	12700	0.10	0.040	0.10	
273.41	276.45	3.04	565556	HYP	IXAC	7	12300	0.04	0.113	0.03	
276.45	279.50	3.05	565557	HYP	IXAF	7	12640	0.12	0.018	0.10	
279.50	282.55	3.05	565558	HYP	IXAF	7	12100	0.06	0.028	0.03	
282.55	285.60	3.05	565559	HYP	IXAF	7	13320	0.05	0.022	<0.03	
285.60	288.64	3.04	565560	HYP	IXAF	7	12600	0.06	0.027	<0.03	
288.64	291.69	3.05	565561	HYP	IXAF	7	12880	0.05	0.008	<0.03	
291.69	294.74	3.05	565562	HYP	IXAF	7	11760	0.07	0.018	<0.03	
294.74	297.79	3.05	565563	HYP	IXAF	7	11940	0.06	0.008	<0.03	
297.79	300.84	3.05	565564	HYP	IXAF	7	11580	0.07	0.013	0.07	
300.84	303.89	3.05	565565	HYP	IXAC	7	13100	0.05	0.009	<0.03	
303.89	306.93	3.04	565566	HYP	IXAC	7	13200	0.04	0.021	<0.03	
306.93	309.98	3.05	565567	HYP	IXAC	7	13500	0.07	0.029	<0.03	
309.98	313.03	3.05	565568	HYP	IXAF	7	12060	0.04	0.164	<0.03	
313.03	316.08	3.05	565569	HYP	IXAF	7	13020	0.08	0.016	0.07	
316.08	318.52	2.44	565570	HYP	IXAF	7	11020	0.05	0.035	0.10	
318.52	321.56	3.04	565571	HYP	IXAF	7	11080	0.03	0.047	<0.03	
321.56	324.61	3.05	565572	HYP	IXAF	7	12100	0.05	0.120	<0.03	
324.61	327.66	3.05	565573	HYP	IXAF	7	13420	0.03	0.021	<0.03	
327.66	330.71	3.05	565574	HYP	IXAF	7	13560	0.07	0.010	<0.03	
330.71	334.06	3.35	565575	HYP	IXAC	7	12180	0.05	0.051	<0.03	
334.06	337.11	3.05	565576	HYP	IXAC	7	13560	0.04	0.008	<0.03	
337.11	340.16	3.05	565577	HYP	IXAF	7	12920	0.08	0.195	<0.03	
340.16	343.51	3.35	565578	HYP	IXAF	7	13340	0.08	0.018	0.10	
343.51	346.56	3.05	565579	HYP	IXAC	7	12720	0.07	0.013	0.10	
346.56	349.61	3.05	565580	HYP	IXAC	7	13820	0.11	0.017	0.82	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-208

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
349.61	352.66	3.05	565581	HYP	IXAC	7	12540	0.05	0.017	<0.03	
352.66	355.70	3.04	565582	HYP	IXAC	7	13000	0.10	0.095	0.21	
355.70	358.75	3.05	565583	HYP	IXAC	7	13340	0.04	0.044	<0.03	
358.75	361.80	3.05	565584	HYP	IXAC	7	12620	0.06	0.040	0.07	
361.80	364.85	3.05	565585	HYP	IXAC	7	13400	0.05	0.012	<0.03	
364.85	367.90	3.05	565586	HYP	IXAC	7	12900	0.03	0.011	<0.03	
367.90	370.94	3.04	565587	HYP	IXAC	7	12860	0.10	0.026	0.17	
370.94	373.99	3.05	565588	HYP	IXAC	7	13300	0.06	0.073	0.14	
373.99	377.04	3.05	565589	HYP	IXAC	7	12840	0.02	0.009	<0.03	
377.04	380.08	3.04	565590	HYP	IXAC	7	12680	0.06	0.023	<0.03	
380.08	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-209	Total Depth	418.19 m
Northing	255,101.43	Casing Depth	34.14 m Left Out
Easting	111,600.71	Survey Data	Azimuth / Dip / Instrument
Elevation	1182.67 m	Collar	-90.00°
Core Size	HQ	156.06 m	238° / -88.75° / Sperry Sun
Drilling Started	September 8, 1993	417.58 m	232° / -87.50° / Sperry Sun
Drilling Finished	September 20, 1993		
Logged by	L. Brommeland		

Purpose/Target: To test northern extent of mineralization on the east side of Casino Fault.

Comments: Narrow supergene zone and moderately mineralized hypogene zone.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	29.57	29.57		OVB							
29.57	32.00	2.43	566677	HYP	WRDF	7/1	2160	0.62	0.012	0.75	
32.00	35.05	3.05	566678	HYP	WRDF	7/1	12700	0.29	0.013	0.27	
35.05	38.25	3.20	566679	HYP	WRDF	7/1	10600	0.25	0.009	0.24	
38.25	41.15	2.90	566680	HYP	WRDF	7/1	4880	0.19	0.008	0.21	
41.15	44.34	3.19	566681	HYP	WRDF	7/1	5960	0.26	0.004	0.24	
44.34	47.24	2.90	566682	HYP	WRDF	7/1	11240	0.25	0.015	0.17	
47.24	50.90	3.66	566683	HYP	WRDF	7/1	4220	0.18	0.034	0.14	
50.90	53.95	3.05	566684	HYP	WRDF	7/1	5460	0.14	0.007	0.17	
53.95	57.61	3.66	566685	HYP	WRDF	7/1	6280	0.24	0.010	0.58	
57.61	61.57	3.96	566686	HYP	WRDF	7/1	2100	0.54	0.016	0.51	
61.57	64.01	2.44	566687	HYP	WRDF	7/1	2920	0.11	0.004	0.10	
64.01	66.75	2.74	566688	HYP	WRDF	7/1	9620	0.15	0.005	0.17	
66.75	69.65	2.90	566689	HYP	WRDF	7/1	4640	0.20	0.006	0.17	
69.65	72.85	3.20	566690	HYP	WRDF	7/1	11260	0.18	0.003	0.14	
72.85	75.90	3.05	566691	HYP	WRDF	7/1	10480	0.20	0.009	0.21	
75.90	78.18	2.28	566692	HYP	WRDF	7/1	8540	0.20	0.011	0.21	
78.18	81.08	2.90	566693	HYP	WRDF	7/1	10260	0.37	0.022	0.34	
81.08	84.12	3.04	566694	HYP	WRDF	7/1	10960	0.29	0.012	0.48	
84.12	87.17	3.05	566695	HYP	WRDF	7/1	12340	0.19	0.014	0.21	
87.17	90.53	3.36	566696	HYP	WRDF	7/1	12120	0.23	0.013	0.24	
90.53	93.57	3.04	566697	HYP	QMCX	7	8820	0.28	0.027	0.34	
93.57	96.62	3.05	566698	HYP	QMCX	7	10040	0.11	0.006	0.17	
96.62	99.67	3.05	566699	HYP	QMCX	7	9260	0.09	0.003	0.10	
99.67	102.72	3.05	566700	HYP	WRDF	7/3	12460	0.19	0.015	0.24	
102.72	105.77	3.05	566701	HYP	QMCX	7/3	11500	0.15	0.004	0.17	
105.77	108.81	3.04	566702	HYP	WRDF	7/1	11580	0.33	0.225	0.31	
108.81	111.86	3.05	566703	HYP	WRDF	7/1	11600	0.61	0.032	0.69	
111.86	114.91	3.05	566704	HYP	WRGF	7/1	10980	0.25	0.010	0.24	
114.91	117.96	3.05	566705	HYP	WRGF	7/5	10220	0.14	0.003	0.21	
117.96	121.01	3.05	566706	HYP	WRGF	7	11700	0.22	0.066	0.58	
121.01	123.75	2.74	566707	HYP	QMFX	7	9320	0.22	0.007	0.24	
123.75	127.10	3.35	566708	HYP	QMFX	7	11460	0.13	0.014	0.14	
127.10	130.15	3.05	566709	HYP	QMFX	7	12000	0.08	0.008	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
130.15	133.20	3.05	566710	HYP	WRDF	7	10900	0.14	0.020	0.17	
133.20	136.25	3.05	566711	HYP	WRDF	7	11920	0.16	0.011	0.17	
136.25	139.29	3.04	566712	HYP	WRDF	7	11800	0.11	0.035	0.10	
139.29	142.65	3.36	566713	HYP	WRDF	7	11940	0.12	0.008	0.10	
142.65	143.87	1.22	566714	HYP	WRDF	7	4680	0.24	0.090	0.27	
143.87	146.91	3.04	566715	HYP	WRDF	7	11340	0.17	0.010	0.17	
146.91	149.96	3.05	566716	HYP	WRDF	7	10100	0.11	0.006	0.14	
149.96	151.79	1.83	566717	HYP	WRDF	7	7100	0.15	0.004	0.17	
151.79	155.14	3.35	566718	HYP	WRDF	7	10650	0.17	0.012	0.14	
155.14	156.06	0.92	566719	HYP	WRDF	7	3360	0.21	0.007	0.24	
156.06	159.11	3.05	566720	HYP	WRDF	7/5	13080	0.18	0.007	0.17	
159.11	162.15	3.04	566721	HYP	WRDF	7	11960	0.21	0.002	0.24	
162.15	165.20	3.05	566722	HYP	WRDF	7	12740	0.27	0.044	0.24	
165.20	168.25	3.05	566723	HYP	WRDF	7	9780	0.16	0.006	0.21	
168.25	170.69	2.44	566724	HYP	WRDF	7	12660	0.21	0.017	0.27	
170.69	173.43	2.74	566725	HYP	WRDF	7	10380	0.08	0.003	0.14	
173.43	176.48	3.05	566726	HYP	WRDF	7	11000	0.15	0.019	0.21	
176.48	179.53	3.05	566727	HYP	WRDF	7	12580	0.11	0.025	0.10	
179.53	182.58	3.05	566728	HYP	WRDF	7	13460	0.10	0.008	0.21	
182.58	185.62	3.04	566729	HYP	WRDF	7	12480	0.14	0.006	0.17	
185.62	188.67	3.05	566730	HYP	IXAF	7	13320	0.15	0.005	0.21	
188.67	191.72	3.05	566731	HYP	IXAF	7	13800	0.09	0.007	0.10	
191.72	194.74	3.02	566732	HYP	IXAF	7	11760	0.12	0.007	0.10	
194.74	197.82	3.08	566733	HYP	IXAF	7	12960	0.15	0.011	0.21	
197.82	200.86	3.04	566734	HYP	IXAF	7	10960	0.09	0.005	0.07	
200.86	203.61	2.75	566735	HYP	IXAF	7	9840	0.18	0.020	0.21	
203.61	205.74	2.13	566736	HYP	IXAF	7	10440	0.20	0.008	0.31	
205.74	207.87	2.13	566737	HYP	IXAF	7	10800	0.17	0.005	0.17	
207.87	210.92	3.05	566738	HYP	IXAF	7	12160	0.17	0.009	0.17	
210.92	213.97	3.05	566739	HYP	IXAF	7	12380	0.18	0.007	0.14	
213.97	217.02	3.05	566740	HYP	IXAF	7	10940	0.14	0.010	0.14	
217.02	218.85	1.83	566741	HYP	IXAF	7	5620	0.12	0.019	0.10	
218.85	221.89	3.04	566742	HYP	IXAF	7/1	13600	0.24	0.034	0.34	
221.89	224.94	3.05	566743	HYP	IXAF	7/1	12520	0.08	0.012	0.07	
224.94	227.99	3.05	566744	HYP	IXAF	7/1	13080	0.10	0.026	0.07	
227.99	231.04	3.05	566745	HYP	IXAF	7/1	13600	0.22	0.040	0.27	
231.04	234.09	3.05	566746	HYP	IXAF	7/1	11820	0.11	0.012	0.10	
234.09	237.13	3.04	566747	HYP	IXAF	7/1	11760	0.11	0.038	0.10	
237.13	240.18	3.05	566748	HYP	WRDF	7/1	12320	0.06	0.008	0.03	
240.18	243.54	3.36	566749	HYP	WRDF	7/1	11920	0.20	0.011	0.34	
243.54	246.28	2.74	566750	HYP	WRDF	7/1	12040	0.19	0.012	0.14	
246.28	247.50	1.22	566751	HYP	WRDF	7/1	4800	0.15	0.032	0.24	
247.50	250.55	3.05	566752	HYP	WRDF	7/1	12300	0.12	0.022	0.10	
250.55	253.59	3.04	566753	HYP	WRDF	7/1	14160	0.12	0.040	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-209

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
253.59	256.64	3.05	566754	HYP	WRDF	7/1	12620	0.07	0.020	0.07	
256.64	259.69	3.05	566755	HYP	WRDF	7/1	12360	0.09	0.008	0.17	
259.69	262.74	3.05	566756	HYP	WRDF	7/1	12820	0.20	0.019	0.34	
262.74	265.79	3.05	566757	HYP	QMFX	7/4	11040	0.08	0.018	0.07	
265.79	268.83	3.04	566758	HYP	QMFX	7/4	13520	0.20	0.015	0.14	
268.83	271.88	3.05	566759	HYP	QMFX	7/4	12840	0.08	0.027	0.07	
271.88	274.02	2.14	566760	HYP	QMFX	7/4	8480	0.09	0.020	0.07	
274.02	277.06	3.04	566761	HYP	QMFX	7/4	11540	0.09	0.022	0.10	
277.06	279.20	2.14	566762	HYP	QMFX	7/4	6600	0.06	0.021	0.07	
279.20	282.24	3.04	566763	HYP	QMFX	7	11580	0.14	0.036	0.10	
282.24	285.29	3.05	566764	HYP	WRDF	7	12100	0.21	0.047	0.21	
285.29	288.34	3.05	566765	HYP	WRDF	7	11820	0.11	0.030	0.14	
288.34	291.39	3.05	566766	HYP	WRDF	7	10600	0.14	0.020	0.14	
291.39	293.22	1.83	566767	HYP	WRDF	7	6580	0.13	0.048	0.10	
293.22	296.27	3.05	566768	HYP	WRDF	7	12140	0.13	0.033	0.14	
296.27	299.31	3.04	566769	HYP	WRDF	7	11460	0.11	0.045	0.10	
299.31	302.36	3.05	566770	HYP	QMFX	7	11180	0.06	0.066	0.07	
302.36	305.41	3.05	566771	HYP	QMFX	7	12060	0.08	0.035	0.10	
305.41	308.46	3.05	566772	HYP	WRDF	7	12220	0.16	0.025	0.10	
308.46	311.51	3.05	566773	HYP	WRDF	7	13020	0.11	0.065	0.10	
311.51	314.55	3.04	566774	HYP	WRDF	7	12780	0.15	0.018	0.10	
314.55	317.60	3.05	566775	HYP	WRDF	7	12620	0.10	0.011	0.07	
317.60	320.65	3.05	566776	HYP	WRDF	7	13080	0.06	0.060	0.03	
320.65	323.70	3.05	566777	HYP	WRDF	7	13740	0.08	0.021	0.07	
323.70	326.75	3.05	566778	HYP	WRDF	7	14140	0.08	0.026	0.03	
326.75	329.79	3.04	566779	HYP	WRDF	7	14040	0.05	0.005	0.03	
329.79	332.84	3.05	566780	HYP	WRDF	7	14060	0.07	0.004	0.07	
332.84	335.89	3.05	566781	HYP	WRDF	7	14000	0.12	0.012	0.10	
335.89	338.94	3.05	566782	HYP	WRDF	7	14140	0.12	0.010	0.10	
338.94	341.99	3.05	566783	HYP	WRDF	7	14800	0.09	0.042	0.07	
341.99	345.03	3.04	566784	HYP	WRDF	7	14340	0.11	0.043	0.10	
345.03	348.08	3.05	566785	HYP	WRDF	7	13960	0.11	0.025	0.10	
348.08	351.13	3.05	566786	HYP	WRDF	7	14460	0.09	0.015	0.41	
351.13	354.18	3.05	566787	HYP	WRDF	7	13780	0.11	0.011	0.14	
354.18	357.23	3.05	566788	HYP	WRDF	7	14340	0.11	0.038	0.10	
357.23	360.27	3.04	566789	HYP	WRDF	7	13440	0.08	0.008	0.07	
360.27	363.32	3.05	566790	HYP	WRDF	7	13200	0.10	0.013	0.10	
363.32	366.37	3.05	566791	HYP	WRDF	7	13040	0.07	0.061	0.07	
366.37	369.42	3.05	566792	HYP	WRDF	7	13700	0.21	0.018	0.21	
369.42	372.47	3.05	566793	HYP	WRDF	7	13260	0.13	0.016	0.10	
372.47	375.51	3.04	566794	HYP	WRDF	7	12950	0.14	0.027	0.10	
375.51	378.56	3.05	566795	HYP	WRDF	7	12460	0.07	0.017	0.10	
378.56	381.61	3.05	566796	HYP	WRDF	7	14480	0.10	0.029	0.07	
381.61	384.66	3.05	566797	HYP	WRDF	7	13320	0.12	0.021	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
384.66	387.71	3.05	566798	HYP	WRDF	7	14020	0.18	0.017	0.17	
387.71	390.75	3.04	566799	HYP	WRDF	7	13480	0.12	0.011	0.14	
390.75	393.80	3.05	566800	HYP	WRDX	7	14860	0.07	0.012	0.07	
393.80	396.85	3.05	566801	HYP	WRDX	7	13620	0.11	0.065	0.10	
396.85	399.90	3.05	566802	HYP	WRDX	7	13600	0.10	0.022	0.10	
399.90	402.95	3.05	566803	HYP	WRDX	7	14120	0.08	0.026	0.10	
402.95	405.99	3.04	566804	HYP	WRDX	7	14840	0.08	0.014	0.10	
405.99	409.04	3.05	566805	HYP	WRDX	7	13980	0.09	0.018	0.07	
409.04	412.09	3.05	566806	HYP	WRDX	7	14100	0.06	0.024	0.03	
412.09	415.14	3.05	566807	HYP	WRDX	7	13920	0.06	0.027	<0.03	
415.14	418.19	3.05	566808	HYP	WRDX	7	14300	0.07	0.057	0.07	
418.19	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-210	Total Depth	235.61 m		
Northing	255,128.77	Casing Depth	6.71 m		Left In
Easting	111,180.96	Survey Data	Azimuth	Dip	Instrument
Elevation	1224.55 m	Collar	-90°	-47°	Brunton Compass
Core Size	HQ	106.68 m	-87°	-43°	Sperry Sun
Drilling Started	September 12, 1993	152.40 m	-87°	-41°	Sperry Sun
Drilling Finished	September 19, 1993	235.61 m	-87°	-38°	Sperry Sun
Logged by	W.D. Mann				

Purpose/Target: Angle hole to test Casino Fault.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	6.10	3.05	587777	CAP	QMFX	7/3	4860	0.02	0.056	0.10	
6.10	9.45	3.35	587778	CAP	QMFX	7/3	7920	0.01	0.064	0.14	
9.45	12.50	3.05	587779	CAP	QMFX	7/3	9260	0.02	0.127	0.14	
12.50	14.94	2.44	587780	CAP	IXAC	7/3	8560	0.05	0.143	0.17	
14.94	17.98	3.04	587781	CAP	IXAC	7/3	9520	0.10	0.055	0.31	
17.98	21.03	3.05	587782	CAP	IXAC	7/3	10200	0.09	0.074	0.34	
21.03	23.93	2.90	587783	CAP	IXAC	7/3	8160	0.04	0.078	0.24	
23.93	26.52	2.59	587784	CAP	IXAC	7/3	9460	0.06	0.077	0.10	
26.52	28.65	2.13	587785	CAP	IXAC	7/3	7520	0.05	0.041	0.31	
28.65	31.70	3.05	587786	CAP	IXAC	7/3	10400	0.09	0.030	0.31	
31.70	34.14	2.44	587787	CAP	IXAC	7/3	8000	0.17	0.064	0.31	
34.14	36.58	2.44	587788	CAP	IXAC	7/3	11120	0.14	0.023	0.31	
36.58	38.10	1.52	587789	CAP	IXAX	7/4/3	5060	0.10	0.035	0.93	
38.10	41.15	3.05	587790	CAP	IXAX	7/4/3	11480	0.04	0.029	0.14	
41.15	44.20	3.05	587791	CAP	IXAX	7/4/3	9800	0.02	0.050	0.31	
44.20	47.24	3.04	587792	CAP	IXAX	7/4/3	10880	0.02	0.043	0.21	
47.24	50.29	3.05	587793	CAP	IXAX	7/4/3	11400	0.05	0.053	0.21	
50.29	53.34	3.05	587794	CAP	IXAX	7/4/3	10340	0.03	0.022	0.24	
53.34	56.39	3.05	587795	CAP	IXAX	7/4/3	12320	0.02	0.023	0.21	
56.39	59.44	3.05	587796	CAP	IXAX	7/4/3	10540	0.04	0.071	0.24	
59.44	62.48	3.04	587797	CAP	IXAX	7/4/3	10980	0.02	0.076	0.10	
62.48	65.53	3.05	587798	CAP	IXAC	7/3/4	9580	0.03	0.048	0.07	
65.53	68.58	3.05	587799	CAP	IXAC	7/3/4	11320	0.02	0.058	0.17	
68.58	71.63	3.05	587800	CAP	IXAC	7/3/4	11020	0.08	0.049	0.31	
71.63	74.68	3.05	587801	CAP	IXAC	7/3/4	11440	0.36	0.025	0.24	
74.68	77.72	3.04	587802	SUS	IXAC	7/2/5	11960	0.63	0.087	0.27	
77.72	80.77	3.05	587803	SUS	IXAC	7/2/5	11000	0.75	0.055	0.34	
80.77	83.21	2.44	587804	SUS	IXAC	7/2/5	9360	0.41	0.022	0.31	
83.21	86.26	3.05	587805	SUS	IXAC	7/2/5	11940	0.98	0.041	0.31	
86.26	89.31	3.05	587806	SUS	IXAC	7/2/5	13180	0.83	0.069	0.31	
89.31	92.35	3.04	587807	SUS	IXAC	7/2/5	11980	0.57	1.360	0.45	
92.35	95.40	3.05	587808	SUS	IXAC	7/2/5	12940	0.33	0.040	0.21	
95.40	98.76	3.36	587809	SUS	IXAC	7/2/5	11520	0.59	0.047	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
98.76	102.11	3.35	587810	SUS	IXAC	7/2/5	12340	0.52	0.050	0.17	
102.11	105.16	3.05	587811	HYP	IXAF	7/5/2	10760	0.19	0.036	0.17	
105.16	108.51	3.35	587812	HYP	IXAF	7/5/2	10120	0.33	0.103	0.17	
108.51	111.25	2.74	587813	HYP	IXAF	7/5/2	10400	0.45	0.039	0.31	
111.25	114.30	3.05	587814	HYP	IXAF	7/5/2	10800	0.26	0.062	0.24	
114.30	116.74	2.44	587815	HYP	IXAF	7/5/2	8320	0.19	0.025	0.14	
116.74	118.87	2.13	587816	HYP	IXAF	7/5/2	9640	0.20	0.174	0.21	
118.87	121.92	3.05	587817	HYP	IXAF	7/5/2	6040	0.14	0.151	0.10	
121.92	124.97	3.05	587818	HYP	IXAF	7/5/2	11800	0.19	0.033	0.17	
124.97	128.02	3.05	587819	HYP	IXAF	7/5/2	10260	0.25	0.015	0.24	
128.02	131.06	3.04	587820	HYP	IXAF	7/5/2	11080	0.14	0.081	0.17	
131.06	134.11	3.05	587821	HYP	IXAF	7/5/2	11400	0.07	0.216	0.14	
134.11	137.16	3.05	587822	HYP	IXAF	7/5/2	12140	0.20	0.228	0.14	
137.16	140.21	3.05	587823	HYP	IXAF	7/5/2	11580	0.26	0.102	0.27	
140.21	143.26	3.05	587824	HYP	IXAF	7/5/2	12140	0.25	0.120	0.27	
143.26	146.30	3.04	587825	HYP	IXAF	3/5/7	12040	0.33	0.148	0.41	
146.30	149.35	3.05	587826	HYP	IXAF	3/5/7	11520	0.32	0.063	0.34	
149.35	152.40	3.05	587827	HYP	IXAF	3/5/7	11520	0.18	0.041	0.27	
152.40	155.45	3.05	587828	HYP	F/ZN	3/5/7	10320	0.36	0.010	0.38	
155.45	158.50	3.05	587829	HYP	F/ZN	3/5/7	11300	0.33	0.023	0.24	
158.50	161.54	3.04	587830	HYP	F/ZN	3/5/7	12150	0.27	0.031	0.31	
161.54	164.59	3.05	587831	HYP	F/ZN	3/5/7	13250	0.14	0.019	0.17	
164.59	167.64	3.05	587832	HYP	YMDR	7/5	14010	0.16	0.035	0.21	
167.64	170.69	3.05	587833	HYP	YMDR	7/5	12050	0.10	0.016	0.14	
170.69	173.74	3.05	587834	HYP	YMDR	7/5	12020	0.09	0.034	0.07	
173.74	176.78	3.04	587835	HYP	YMDR	7/5	11060	0.13	0.015	0.14	
176.78	179.22	2.44	587836	HYP	YMDR	7/5	12340	0.10	0.016	0.10	
179.22	182.57	3.35	587837	HYP	YMDR	7/5	10140	0.05	0.018	0.07	
182.57	185.93	3.36	587838	HYP	YMDR	7/5	15240	0.11	0.026	0.10	
185.93	188.98	3.05	587839	HYP	YMDR	7/5	11200	0.10	0.014	0.14	
188.98	192.02	3.04	587840	HYP	YMDR	7/5	12460	0.14	0.019	0.21	
192.02	195.07	3.05	587841	HYP	YMDR	7/5	12600	0.11	0.016	0.10	
195.07	198.12	3.05	587842	HYP	YMDR	7/5	15360	0.13	0.020	0.14	
198.12	201.17	3.05	587843	HYP	YMDR	7/5	15260	0.15	0.014	0.10	
201.17	204.22	3.05	587844	HYP	YMDR	7/5	13900	0.09	0.019	0.10	
204.22	205.74	1.52	587845	HYP	YMDR	7/5	7160	0.07	0.060	0.07	
205.74	208.79	3.05	587846	HYP	YMDR	7/5	12920	0.09	0.022	0.07	
208.79	211.86	3.07	587847	HYP	YMDR	7/5	14140	0.08	0.019	0.10	
211.86	214.88	3.02	587848	HYP	IXAF	7/1	12240	0.05	0.032	0.03	
214.88	217.93	3.05	587849	HYP	IXAF	7/1	12360	0.14	0.017	0.21	
217.93	220.98	3.05	587850	HYP	IXAF	7/1	9620	0.13	0.014	0.14	
220.98	222.50	1.52	587851	HYP	IXAF	7/1	6480	0.12	0.015	0.10	
222.50	225.55	3.05	587852	HYP	IXAF	7/1	14080	0.16	0.035	0.21	
225.55	228.60	3.05	587853	HYP	IXAF	7/1	13670	0.13	0.008	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
228.60	230.73	2.13	587854	HYP	YMDR	1/7	9460	0.15	0.012	0.17	
230.73	233.78	3.05	587855	HYP	YMDR	1/7	12280	0.14	0.012	0.10	
233.78	235.61	1.83	587856	HYP	YMDR	1/7	6740	0.15	0.070	0.17	
235.61	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-211	Total Depth	367.89 m		
Northing	254,879.81	Casing Depth	8.23 m		Left Out
Easting	110,940.91	Survey Data	Azimuth	Dip	Instrument
Elevation	1319.10 m	Collar	N/A	-90.00°	
Core Size	HQ	152.40 m	338°	-89.33°	Sperry Sun
Drilling Started	September 12, 1993	304.80 m	015°	-88.66°	
Drilling Finished	September 18, 1993				
Logged by	T. Case				

Purpose/Target: To test continuity of mineralization in the 110,900 E fence.

Comments: Hole is entirely Patton Porphyry - brecciated at top. Copper mineralization is weak. Supergene sulphide zone absent.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.23	8.23		OVB							
8.23	10.67	2.44	574456	CAP	MBFP	7/3/5	9040	0.07	0.006	0.45	
10.67	14.33	3.66	574457	CAP	MBFP	7/3/5	12820	0.06	0.006	0.38	
14.33	17.83	3.50	574458	CAP	MBFP	7/3/5	13620	0.06	0.012	0.51	
17.83	20.42	2.59	574459	CAP	MBFP	7/3/5	8020	0.03	0.006	0.55	
20.42	23.16	2.74	574460	SOX	MBFP	7/3/5	11100	0.07	0.032	0.48	
23.16	26.21	3.05	574461	SOX	MBFP	7/3/5	11700	0.06	0.024	0.27	
26.21	29.41	3.20	574462	SOX	MBFP	7/3/5	12440	0.12	0.013	0.31	
29.41	31.39	1.98	574463	SOX	MBFP	7/3/5	7250	0.13	0.008	0.48	
31.39	33.53	2.14	574464	SOX	MBCP	7/3/5	8660	0.15	0.015	0.41	
33.53	35.66	2.13	574465	SOX	MBCP	7/3/5	9040	0.18	0.010	0.27	
35.66	38.71	3.05	574466	SOX	MBCP	7/3/5	13580	0.18	0.020	0.38	
38.71	41.76	3.05	574467	SOX	MBCP	7/3/5	12460	0.18	0.006	0.41	
41.76	44.81	3.05	574468	SOX	MBCP	7/3/5	12520	0.17	0.018	0.48	
44.81	47.85	3.04	574469	SOX	MBCP	7/3/5	13380	0.25	0.008	0.45	
47.85	50.90	3.05	574470	SOX	PPDP	7/5/3	12040	0.15	0.007	0.24	
50.90	53.95	3.05	574471	SOX	PPDP	7/5/3	13540	0.14	0.013	0.34	
53.95	57.00	3.05	574472	SOX	PPDP	7/5/3	13180	0.14	0.011	0.45	
57.00	60.05	3.05	574473	SOX	PPDP	7/5/3	13080	0.19	0.012	0.34	
60.05	63.09	3.04	574474	SOX	PPDP	7/5/3	13000	0.15	0.011	0.27	
63.09	66.14	3.05	574475	SOX	PPDP	7/5/3	12420	0.20	0.012	0.34	
66.14	69.19	3.05	574476	SOX	PPDP	7/5/3	15320	0.24	0.006	0.45	
69.19	72.24	3.05	574477	SOX	PPDP	7/5/3	13580	0.26	0.011	0.41	
72.24	75.29	3.05	574478	SOX	PPDP	7/5/3	14080	0.20	0.008	0.38	
75.29	78.33	3.04	574479	SOX	PPDP	7/5/3	13560	0.21	0.008	0.21	
78.33	81.38	3.05	574480	SOX	PPDP	7/5/3	13680	0.12	0.007	0.17	
81.38	84.43	3.05	574481	SOX	PPDP	7/5/3	13200	0.20	0.016	0.14	
84.43	87.48	3.05	574482	SOX	PPDP	7/5/3	12520	0.16	0.006	0.21	
87.48	90.53	3.05	574483	HYP	PPDP	7/5	13540	0.13	0.014	0.10	
90.53	93.57	3.04	574484	HYP	PPDP	7/5	12640	0.12	0.006	0.14	
93.57	96.62	3.05	574485	HYP	PPDP	7/5	12120	0.15	0.006	0.21	
96.62	99.67	3.05	574486	HYP	PPDP	7/5	12960	0.28	0.011	0.69	
99.67	102.41	2.74	574487	HYP	PPDP	7/5	10820	0.10	0.007	0.14	
102.41	105.46	3.05	574488	HYP	PPDP	7/5	12160	0.13	0.009	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.46	108.81	3.35	574489	HYP	PPDP	7/5	11600	0.09	0.006	0.14	
108.81	110.95	2.14	574490	HYP	PPDP	7/5	9340	0.07	0.009	0.10	
110.95	113.38	2.43	574491	HYP	PPDP	7/5	9560	0.09	0.008	0.14	
113.38	116.43	3.05	574492	HYP	PPDP	5/7	11740	0.15	0.006	0.14	
116.43	119.48	3.05	574493	HYP	PPDP	5/7	13240	0.16	0.009	0.21	
119.48	121.00	1.52	574494	HYP	PPDP	5/7	4480	0.24	0.130	0.27	
121.00	123.44	2.44	574495	HYP	PPDP	5/7	9860	0.15	0.011	0.17	
123.44	126.49	3.05	574496	HYP	PPDP	5/7	13100	0.16	0.198	0.17	
126.49	129.54	3.05	574497	HYP	PPDP	5/7	10820	0.37	0.010	0.17	
129.54	132.58	3.04	574498	HYP	PPDP	5/7	11320	0.45	0.012	0.34	
132.58	136.25	3.67	574499	HYP	PPDP	5/7	14820	0.22	0.006	0.34	
136.25	139.29	3.04	574500	HYP	PPDP	5/7	12880	0.14	0.007	0.14	
139.29	142.34	3.05	589501	HYP	PPDP	5/7	13860	0.26	0.016	0.10	
142.34	145.39	3.05	589502	HYP	PPDP	5/7	12900	0.22	0.106	0.31	
145.39	148.44	3.05	589503	HYP	PPDP	5/7	13600	0.15	0.019	0.17	
148.44	151.49	3.05	589504	HYP	PPDP	5/7	13140	0.43	0.041	0.24	
151.49	154.53	3.04	589505	HYP	PPDP	5/7	13320	0.05	0.006	0.03	
154.53	157.58	3.05	589506	HYP	PPDP	5/7	12860	0.12	0.014	0.07	
157.58	160.63	3.05	589507	HYP	PPDP	5/7	13120	0.12	0.012	0.10	
160.63	163.68	3.05	589508	HYP	PPDP	5/7	13360	0.22	0.014	0.14	
163.68	166.73	3.05	589509	HYP	PPDP	5/7	14360	0.14	0.020	0.14	
166.73	169.77	3.04	589510	HYP	PPDP	5/7	12720	0.18	0.063	0.14	
169.77	172.21	2.44	589511	HYP	PPDP	5/7	11700	0.11	0.014	0.14	
172.21	174.35	2.14	589512	HYP	PPDP	5/7	8560	0.14	0.034	0.17	
174.35	177.39	3.04	589513	HYP	PPDP	5/7	13220	0.18	0.015	0.10	
177.39	180.44	3.05	589514	HYP	PPDP	5/7	11650	0.13	0.033	0.10	
180.44	182.88	2.44	589515	HYP	PPDP	5/7	11440	0.12	0.013	0.17	
182.88	185.01	2.13	589516	HYP	PPDP	5/7	8900	0.10	0.183	0.10	
185.01	188.06	3.05	589517	HYP	PPDP	5/7	9900	0.15	0.018	0.10	
188.06	190.50	2.44	589518	HYP	PPDP	5/7	12680	0.18	0.026	0.24	
190.50	193.40	2.90	589519	HYP	PPDP	5/7	12200	0.14	0.037	0.10	
193.40	195.53	2.13	589520	HYP	PPDP	5/7	9200	0.12	0.015	0.17	
195.53	198.42	2.89	589521	HYP	PPDP	5/7	12800	0.17	0.023	0.21	
198.42	200.25	1.83	589522	HYP	PPDP	5/7	10100	0.12	0.023	0.14	
200.25	203.30	3.05	589523	HYP	PPDP	5/7	11280	0.09	0.030	0.10	
203.30	206.35	3.05	589524	HYP	PPDP	5/7	13280	0.12	0.018	0.17	
206.35	209.40	3.05	589525	HYP	PPDP	5/7	13780	0.14	0.023	0.10	
209.40	212.45	3.05	589526	HYP	PPDP	5/7	14120	0.10	0.024	0.10	
212.45	215.49	3.04	589527	HYP	PPDP	5/7	13560	0.11	0.013	0.03	
215.49	218.54	3.05	589528	HYP	PPDP	5/7	13500	0.11	0.028	0.10	
218.54	221.59	3.05	589529	HYP	PPDP	5/7	13400	0.21	0.028	0.17	
221.59	224.64	3.05	589530	HYP	PPDP	7/5/1	12160	0.26	0.021	0.14	
224.64	227.69	3.05	589531	HYP	PPDP	7/5/1	12800	0.12	0.040	0.17	
227.69	229.51	1.82	589532	HYP	PPDP	7/5/1	8360	0.13	0.013	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
229.51	232.41	2.90	589533	HYP	PPDP	7/5/1	11860	0.10	0.025	0.10	
232.41	235.31	2.90	589534	HYP	PPDP	7/5/1	12280	0.14	0.016	0.14	
235.31	236.83	1.52	589535	HYP	PPDP	7/5/1	7180	0.18	0.019	0.17	
236.83	239.88	3.05	589536	HYP	PPDP	7/5/1	14360	0.15	0.018	0.17	
239.88	242.93	3.05	589537	HYP	PPDP	7/5/1	12740	0.21	0.024	0.31	
242.93	245.97	3.04	589538	HYP	PPDP	7/5/1	13420	0.38	0.050	0.27	
245.97	248.26	2.29	589539	HYP	PPDP	7/5/1	10380	0.12	0.013	0.17	
248.26	251.31	3.05	589540	HYP	PPDP	7/5/1	14400	0.12	0.014	0.10	
251.31	254.51	3.20	589541	HYP	PPDP	7/5/1	14520	0.04	0.057	<0.03	
254.51	257.56	3.05	589542	HYP	PPDP	7/5/1	14100	0.06	0.013	0.07	
257.56	261.21	3.65	589543	HYP	PPDP	7/5/1	16680	0.07	0.021	<0.03	
261.21	264.26	3.05	589544	HYP	PPDP	7/5/1	13040	0.09	0.057	0.14	
264.26	267.31	3.05	589545	HYP	PPDP	7/5/1	11440	0.09	0.023	0.10	
267.31	270.36	3.05	589546	HYP	PPDP	7/5/1	12040	0.13	0.025	0.21	
270.36	273.41	3.05	589547	HYP	PPDP	7/5/1	13380	0.07	0.043	0.10	
273.41	277.06	3.65	589548	HYP	PPDP	7/5/1	11280	0.05	0.016	<0.03	
277.06	279.50	2.44	589549	HYP	PPDP	7/5/1	9760	0.12	0.047	0.07	
279.50	282.55	3.05	589550	HYP	PPDP	7/5/1	8940	0.12	0.033	0.10	
282.55	285.90	3.35	589551	HYP	PPDP	7/5/1	9360	0.09	0.122	0.10	
285.90	289.26	3.36	589552	HYP	PPDP	7/5/1	10960	0.09	0.059	0.07	
289.26	292.46	3.20	589553	HYP	PPDP	7/5/1	8500	0.05	0.089	<0.03	
292.46	294.13	1.67	589554	HYP	PPDP	7/5/1	5320	0.07	0.255	0.03	
294.13	297.48	3.35	589555	HYP	PPDP	7/5/1	10920	0.07	0.114	0.07	
297.48	300.53	3.05	589556	HYP	PPDP	7/5/1	11400	0.08	0.108	0.10	
300.53	303.28	2.75	589557	HYP	PPDP	7/5/1	12300	0.05	0.124	0.03	
303.28	306.63	3.35	589558	HYP	PPDP	7/5/1	12960	0.06	0.075	0.07	
306.63	309.68	3.05	589559	HYP	PPDP	7/5/1	12940	0.04	0.058	<0.03	
309.68	312.72	3.04	589560	HYP	PPDP	7/5/1	12500	0.03	0.025	0.07	
312.72	315.77	3.05	589561	HYP	PPDP	7/5/1	12520	0.06	0.026	<0.03	
315.77	318.82	3.05	589562	HYP	PPDP	7/5/1	13880	0.08	0.069	0.10	
318.82	321.87	3.05	589563	HYP	PPDP	7/5/1	13300	0.07	0.077	0.07	
321.87	323.70	1.83	589564	HYP	PPDP	7/5/1	8340	0.07	0.041	0.07	
323.70	326.75	3.05	589565	HYP	PPDP	7/5/1	12660	0.10	0.045	0.10	
326.75	329.79	3.04	589566	HYP	PPDP	7/5/1	12600	0.10	0.041	0.14	
329.79	332.99	3.20	589567	HYP	PPDP	7/5/1	11160	0.11	0.022	0.14	
332.99	336.19	3.20	589568	HYP	PPDP	7/5/1	13320	0.07	0.030	0.10	
336.19	339.24	3.05	589569	HYP	PPDP	7/5/1	12620	0.07	0.035	0.10	
339.24	340.46	1.22	589570	HYP	PPDP	7/5/1	5160	0.06	0.021	0.07	
340.46	343.51	3.05	589571	HYP	PPDP	7/5/1	13200	0.17	0.012	0.14	
343.51	346.56	3.05	589572	HYP	PPDP	7/5/1	11800	0.11	0.017	0.10	
346.56	349.61	3.05	589573	HYP	PPDP	7/5/1	12800	0.13	0.022	0.10	
349.61	352.65	3.04	589574	HYP	PPDP	7/5/1	12500	0.12	0.017	0.07	
352.65	355.70	3.05	589575	HYP	PPDP	7/5/1	12640	0.05	0.029	0.03	
355.70	358.75	3.05	589576	HYP	PPDP	7/5/1	12600	0.07	0.042	0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
358.75	361.80	3.05	589577	HYP	PPDP	7/5/1	12460	0.04	0.030	0.07	
361.80	364.24	2.44	589578	HYP	PPDP	7/5/1	11080	0.08	0.036	0.07	
364.24	367.89	3.65	589579	HYP	PPDP	7/5/1	14240	0.03	0.035	<0.03	
367.89	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-212	Total Depth	579.12 m		
Northing	254,874.60	Casing Depth	13.72 m		Left Out
Easting	111,445.49	Survey Data	Azimuth	Dip	Instrument
Elevation	1191.23 m	Collar	225°	-45.0°	
Core Size	HQ	76.20 m	235°	-48.0°	Sperry Sun
Drilling Started	September 15, 1993	152.40 m	231°	-50.0°	Sperry Sun
Drilling Finished	September 25, 1993	228.60 m	231°	-52.0°	Sperry Sun
Logged by	M. Dittrick	396.24 m	230°	-55.0°	Sperry Sun
		451.10 m	229°	-54.5°	Sperry Sun
		533.40 m	232°	-52.0°	Sperry Sun

Purpose/Target: This hole was drilled at azimuth 225° and an angle of -45° in order to delineate the boundaries of the latite body intersected in 93-163.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	10.67	10.67		OVB							
10.67	12.19	1.52	575845	SOX	MBFH	3/5	3200	0.04	0.009	0.10	
12.19	15.24	3.05	575846	SOX	MBFH	3/5	4600	0.04	0.008	0.38	
15.24	18.29	3.05	575847	SOX	MBFH	3/5	8800	0.02	0.003	0.21	
18.29	21.34	3.05	575848	SOX	MBFH	3/5	9750	0.03	0.008	0.17	
21.34	24.38	3.04	575849	SOX	MBFH	3/5	11880	0.02	0.008	0.17	
24.38	27.43	3.05	575850	SOX	MBFH	3/4	8900	0.02	0.008	0.24	
27.43	30.48	3.05	575851	SOX	MBFH	3/4	11780	0.01	0.008	0.14	
30.48	33.53	3.05	575852	SOX	MBFH	3/4	10480	0.01	0.007	0.14	
33.53	36.58	3.05	575853	SOX	MBFH	3/4	10040	0.04	0.006	0.03	
36.58	39.62	3.04	575854	SOX	MBFH	3/4	7300	0.02	0.009	0.10	
39.62	42.67	3.05	575855	SOX	MBFH	3/4	10400	0.03	0.003	0.10	
42.67	45.70	3.03	575856	SOX	MBFH	3/4	7300	0.06	0.011	0.17	
45.70	48.77	3.07	575857	SUS	MBFH	4/7	8880	0.26	0.012	0.21	
48.77	51.82	3.05	575858	SUS	MBFH	4/7	12380	0.58	0.006	0.62	
51.82	54.86	3.04	575859	SUS	MBFH	4/7	11360	0.16	0.004	0.14	
54.86	57.91	3.05	575860	SUS	MBFH	4/7	11540	0.20	0.001	0.14	
57.91	60.96	3.05	575861	SUS	MBFH	4/7	11460	0.57	0.003	0.27	
60.96	64.01	3.05	575862	SUS	MBFH	4/7	10220	0.43	0.012	0.21	
64.01	67.06	3.05	575863	SUS	MBFH	4/7	11660	0.41	0.006	0.17	
67.06	70.10	3.04	575864	SUS	MBFH	4/7	11260	0.37	0.005	0.34	
70.10	73.15	3.05	575865	SUS	MBFH	4/7	10620	0.56	0.145	0.21	
73.15	76.20	3.05	575866	SUS	MBFH	4/7	11720	1.13	0.012	0.41	
76.20	79.25	3.05	575867	SUS	MBFH	4/7	12500	0.66	0.041	0.65	
79.25	82.30	3.05	575868	SUS	MBFH	4/7	12540	0.57	0.049	0.21	
82.30	85.34	3.04	575869	SUS	MBFH	4/7	12480	0.36	0.035	0.21	
85.34	88.39	3.05	575870	SUS	MBFH	7	12280	0.41	0.039	0.34	
88.39	91.44	3.05	575871	SUS	WRGD	7	11860	0.41	0.018	0.34	
91.44	94.49	3.05	575872	SUS	WRGD	7	11380	0.31	0.055	0.21	
94.49	97.54	3.05	575873	SUS	WRGD	7	5620	0.39	0.024	0.38	
97.54	100.58	3.04	575874	SUS	WRGD	7	10280	0.67	0.117	1.10	
100.58	103.63	3.05	575875	SUS	WRGD	7	11020	0.57	0.058	0.69	
103.63	106.68	3.05	575876	SUS	WRGD	7	11720	0.48	0.014	0.38	
106.68	109.73	3.05	575877	SUS	WRGD	7/6	12600	0.64	0.066	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
109.73	112.78	3.05	575878	SUS	WRGD	6	11440	0.49	0.007	0.34	
112.78	115.82	3.04	575879	SUS	WRGD	4	9600	0.49	0.002	0.21	
115.82	118.87	3.05	575880	SUS	WRGD	6	12080	0.45	0.003	0.17	
118.87	121.90	3.03	575881	SUS	WRGD	6/3	12160	0.12	0.003	0.14	
121.90	124.97	3.07	575882	SUS	WRGD	3/7	11560	0.46	0.011	0.17	
124.97	128.02	3.05	575883	SUS	WRGD	3/7	10540	0.21	0.017	0.21	
128.02	131.06	3.04	575884	SUS	WRGD	7/3	10880	0.39	0.028	0.24	
131.06	134.11	3.05	575885	SUS	WRGD	7	11560	0.26	0.008	0.27	
134.11	137.16	3.05	575886	SUS	WRGD	7/3	11640	0.24	0.012	0.27	
137.16	140.21	3.05	575887	SUS	WRGD	5/3	10340	0.45	0.019	0.31	
140.21	143.26	3.05	575888	SUS	WRGD	5/3	8620	0.52	0.016	0.41	
143.26	146.30	3.04	575889	SUS	WRGD	5/3	10580	0.76	0.009	0.48	
146.30	149.35	3.05	575890	SUS	WRGD	5/3	11660	0.31	0.013	0.38	
149.35	152.40	3.05	575891	SUS	WRGD	5/3	10860	0.70	0.023	1.13	
152.40	155.45	3.05	575892	SUS	WRGD	5/3	10280	0.53	0.010	0.48	
155.45	158.50	3.05	575893	SUS	WRGD	5/3	9520	0.44	0.016	0.48	
158.50	161.54	3.04	575894	SUS	WRGD	5/3	10720	0.48	0.030	0.38	
161.54	164.59	3.05	575895	SUS	WRGD	5	10260	0.94	0.241	0.96	
164.59	167.64	3.05	575896	SUS	MBFH	5	12160	0.48	0.524	0.34	
167.64	170.69	3.05	575897	SUS	MBFH	5	11340	0.62	0.127	0.38	
170.69	173.74	3.05	575898	SUS	MBFH	5	12160	0.50	0.488	0.41	
173.74	176.78	3.04	575899	SUS	MBFH	5	11880	0.40	0.224	0.45	
176.78	179.83	3.05	575900	SUS	MBFH	5	11840	0.45	0.230	0.45	
179.83	182.88	3.05	575901	SUS	WRGD	5	11400	0.42	0.034	0.48	
182.88	185.93	3.05	575902	SUS	WRGD	5	10100	0.35	0.020	0.34	
185.93	188.98	3.05	575903	SUS	WRGD	5	10080	0.56	0.038	0.69	
188.98	192.02	3.04	575904	SUS	WRGD	7/3	13080	0.24	0.005	0.38	
192.02	195.07	3.05	575905	SUS	WRGD	5/3	10380	0.37	0.005	0.41	
195.07	198.12	3.05	575906	SUS	WRGD	5/3	8920	0.34	0.113	0.21	
198.12	201.17	3.05	575907	SUS	WRGD	5/3	11840	0.67	0.020	0.79	
201.17	204.22	3.05	575908	SUS	WRGD	6	10720	0.23	0.011	0.27	
204.22	207.26	3.04	575909	SUS	LTXD	6	11620	0.24	0.014	0.51	
207.26	210.31	3.05	575910	SUS	WRGD	6	11840	0.26	0.008	0.24	
210.31	213.36	3.05	575911	SUS	WRGD	6	11600	0.33	0.012	0.62	
213.36	216.41	3.05	575912	SUS	WRGD	6	11700	0.43	0.024	0.41	
216.41	219.46	3.05	575913	SUS	WRGD	6	10780	0.50	0.078	0.45	
219.46	222.50	3.04	575914	HYP	WRGD	6	10800	0.27	0.012	0.27	
222.50	225.55	3.05	575915	HYP	WRGD	6	12500	0.33	0.011	0.38	
225.55	228.60	3.05	575916	HYP	WRGD	6	12700	0.30	0.013	0.58	
228.60	231.64	3.04	575917	HYP	LTXH	5/6	12140	0.18	0.016	0.27	
231.64	234.70	3.06	575918	HYP	LTXH	5/6	11800	0.40	0.018	0.34	
234.70	237.74	3.04	575919	HYP	LTXH	5/6	13790	0.13	0.007	0.34	
237.74	240.79	3.05	575920	HYP	LTXH	5/6	12660	0.20	0.012	0.17	
240.79	243.84	3.05	575921	HYP	WRGD	5	12700	0.25	0.012	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
243.84	246.89	3.05	575922	HYP	WRGD	5	11970	0.24	0.011	0.27	
246.89	249.94	3.05	575923	HYP	WRGD	5	12600	0.21	0.012	0.21	
249.94	252.98	3.04	575924	HYP	WRGD	5	12100	0.36	0.013	0.34	
252.98	256.03	3.05	575925	HYP	WRGD	5/6	11500	0.28	0.011	0.31	
256.03	259.08	3.05	575926	HYP	WRGD	5/6	11740	0.31	0.033	0.41	
259.08	262.13	3.05	575927	HYP	WRGD	5	11650	0.29	0.022	0.48	
262.13	265.18	3.05	575928	HYP	WRGD	5	10160	0.24	0.007	0.27	
265.18	268.22	3.04	575929	HYP	WRGD	5	11140	0.27	0.012	0.41	
268.22	271.27	3.05	575930	HYP	WRGD	5	11760	0.21	0.006	0.21	
271.27	274.32	3.05	575931	HYP	WRGD	5	12240	0.31	0.013	0.31	
274.32	277.37	3.05	575932	HYP	WRGD	7/6	11560	0.21	0.005	0.27	
277.37	280.42	3.05	575933	HYP	WRGD	7/5	12060	0.16	0.009	0.17	
280.42	283.46	3.04	575934	HYP	WRGD	5	12540	0.53	0.018	0.51	
283.46	286.51	3.05	575935	HYP	WRGD	5	9760	0.41	0.030	0.55	
286.51	289.56	3.05	575936	HYP	WRGD	7	14460	0.35	0.012	0.38	
289.56	292.61	3.05	575937	HYP	LTXH	4	15060	0.13	0.011	0.14	
292.61	295.66	3.05	575938	HYP	LTXH	4	14200	0.07	0.004	0.14	
295.66	298.70	3.04	575939	HYP	LTDA	3	13620	0.02	0.003	0.10	
298.70	301.75	3.05	575940	HYP	LTDA	3	13420	0.04	0.001	0.31	
301.75	304.80	3.05	575941	HYP	LTDA	3	12240	0.02	0.001	0.07	
304.80	307.85	3.05	575942	HYP	LTDA	3	13780	0.02	0.001	0.27	
307.85	310.90	3.05	575943	HYP	LTDA	3	13540	0.01	0.001	0.07	
310.90	313.94	3.04	575944	HYP	LTDA	3	13380	0.04	<0.001	0.07	
313.94	316.99	3.05	575945	HYP	LTDA	3	13700	0.02	0.001	0.07	
316.99	320.04	3.05	575946	HYP	LTDA	3	13220	0.01	<0.001	0.10	
320.04	323.09	3.05	575947	HYP	LTDA	3	12960	0.01	0.001	0.14	
323.09	326.14	3.05	575948	HYP	LTDA	3	13500	0.04	<0.001	0.07	
326.14	329.18	3.04	575949	HYP	LTDA	3	12790	0.13	0.031	0.24	
329.18	332.23	3.05	575950	HYP	LTDA	3	12740	0.12	0.017	0.14	
332.23	335.28	3.05	575951	HYP	LTDA	3	13220	0.11	0.008	0.24	
335.28	338.33	3.05	575952	HYP	LTDA	3	13520	0.05	0.003	0.17	
338.33	341.38	3.05	575953	HYP	LTDA	3	13040	0.09	0.011	0.10	
341.38	344.42	3.04	575954	HYP	LTDA	3	12720	0.05	0.009	0.07	
344.42	347.47	3.05	575955	HYP	LTDA	3	12200	0.15	0.011	0.10	
347.47	350.52	3.05	575956	HYP	LTDA	3	13280	0.05	0.006	0.10	
350.52	353.57	3.05	575957	HYP	LTDA	3	12800	0.06	0.009	0.10	
353.57	356.62	3.05	575958	HYP	LTDA	3	11720	0.06	0.002	0.17	
356.62	359.66	3.04	575959	HYP	LTDA	3	12200	0.04	0.001	0.07	
359.66	362.71	3.05	575960	HYP	LTDA	3	12420	0.02	0.001	0.03	
362.71	365.76	3.05	575961	HYP	LTDA	3	12220	0.03	0.002	0.07	
365.76	368.81	3.05	575962	HYP	LTDA	3	11980	0.06	0.003	0.07	
368.81	371.86	3.05	575963	HYP	LTDA	3	13640	0.07	0.003	0.07	
371.86	374.90	3.04	575964	HYP	LTDA	3	13200	0.17	0.046	0.10	
374.90	377.95	3.05	575965	HYP	LTDA	3	11800	0.04	0.003	<0.03	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.95	381.00	3.05	575966	HYP	LTDA	3	12980	0.14	0.001	0.07	
381.00	384.05	3.05	575967	HYP	LTDA	3	12500	0.03	0.001	<0.03	
384.05	387.10	3.05	575968	HYP	LTDA	3	13600	0.08	0.001	0.07	
387.10	390.14	3.04	575969	HYP	LTDA	3	12380	0.10	0.001	0.14	
390.14	393.19	3.05	575970	HYP	LTDA	3	12080	0.07	0.003	<0.03	
393.19	396.24	3.05	575971	HYP	LTDA	3	12360	0.08	0.003	0.10	
396.24	399.29	3.05	575972	HYP	LTDA	3	13360	0.08	0.004	0.07	
399.29	402.34	3.05	575973	HYP	LTDA	3	12160	0.06	0.005	0.10	
402.34	405.38	3.04	575974	HYP	LTDA	3	12280	0.03	0.002	<0.03	
405.38	408.43	3.05	575975	HYP	LTDA	3	12520	0.02	0.001	0.07	
408.43	411.48	3.05	575976	HYP	LTDA	3	12340	0.04	0.001	0.03	
411.48	414.53	3.05	575977	HYP	LTDA	3	13400	0.08	0.002	0.03	
414.53	417.58	3.05	575978	HYP	LTDA	3	12560	0.07	0.001	0.10	
417.58	420.62	3.04	575979	HYP	LTDA	3	13240	0.12	0.001	0.10	
420.62	423.67	3.05	575980	HYP	LTDA	3	12860	0.04	0.002	0.03	
423.67	426.72	3.05	575981	HYP	LTDA	3	13320	0.06	0.001	0.07	
426.72	429.77	3.05	575982	HYP	LTDA	3	12540	0.08	0.002	0.07	
429.77	432.82	3.05	575983	HYP	LTDA	3	13500	0.05	0.004	0.03	
432.82	435.86	3.04	575984	HYP	LTDA	3	13020	0.16	0.003	0.10	
435.86	438.91	3.05	575985	HYP	LTDA	3	13640	0.04	0.002	0.03	
438.91	441.96	3.05	575986	HYP	LTDA	3	12300	0.23	0.001	0.21	
441.96	445.01	3.05	575987	HYP	LTDA	3	12920	0.07	0.002	<0.03	
445.01	448.06	3.05	575988	HYP	LTDA	3	13500	0.09	0.002	<0.03	
448.06	451.10	3.04	575989	HYP	LTDA	3	12040	0.07	0.001	0.03	
451.10	454.15	3.05	575990	HYP	LTDA	3	12580	0.03	0.001	<0.03	
454.15	457.20	3.05	575991	HYP	LTDA	3	12580	0.04	0.001	<0.03	
457.20	460.25	3.05	575992	HYP	LTDA	3/7	12340	0.14	0.010	<0.03	
460.25	463.30	3.05	575993	HYP	LTDA	3/7	12860	0.22	0.013	0.10	
463.30	466.34	3.04	575994	HYP	LTDA	3/7	11520	0.18	0.024	<0.03	
466.34	469.39	3.05	575995	HYP	LTDA	3/7	14020	0.10	0.023	0.03	
469.39	472.44	3.05	575996	HYP	LTXH	7	13120	0.26	0.021	0.10	
472.44	475.49	3.05	575997	HYP	LTXH	7	12500	0.39	0.033	0.21	
475.49	478.54	3.05	575998	HYP	LTXH	7	13000	0.30	0.025	0.21	
478.54	481.58	3.04	575999	HYP	LTXH	7	13520	0.39	0.026	0.21	
481.58	484.63	3.05	576000	HYP	LTXH	7	13340	0.41	0.025	0.34	
484.63	487.68	3.05	589001	HYP	LTXH	7	12500	0.40	0.051	0.14	
487.68	490.73	3.05	589002	HYP	MBCH	7	13040	0.42	0.033	0.07	
490.73	493.78	3.05	589003	HYP	MBCH	7	12900	0.22	0.024	0.07	
493.78	496.82	3.04	589004	HYP	MBCH	7	11800	0.36	0.098	0.07	
496.82	499.87	3.05	589005	HYP	MBCH	7	11600	0.53	0.034	0.21	
499.87	502.92	3.05	589006	HYP	MBCH	7/5	12280	0.32	0.020	0.10	
502.92	505.97	3.05	589007	HYP	MBCH	7	12520	0.31	0.032	0.14	
505.97	509.02	3.05	589008	HYP	MBCH	7	12420	0.23	0.024	0.10	
509.02	512.06	3.04	589009	HYP	MBCH	7	12320	0.37	0.036	0.14	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
512.06	515.11	3.05	589010	HYP	MBCH	7	12720	0.31	0.033	0.10	
515.11	518.16	3.05	589011	HYP	MBCH	7	13280	0.25	0.042	0.14	
518.16	521.21	3.05	589012	HYP	MBCH	7	12220	0.39	0.041	0.14	
521.21	524.26	3.05	589013	HYP	MBCH	7	13580	0.24	0.032	0.10	
524.26	527.30	3.04	589014	HYP	MBCH	7	12540	0.40	0.032	0.21	
527.30	530.35	3.05	589015	HYP	MBCH	7	10000	0.47	0.034	0.31	
530.35	533.40	3.05	589016	HYP	MBCH	7/5	14520	0.46	0.030	0.21	
533.40	536.45	3.05	589017	HYP	MBCH	7	12140	0.43	0.029	0.27	
536.45	539.50	3.05	589018	HYP	MBCH	7/6	12100	0.33	0.018	0.24	
539.50	542.54	3.04	589019	HYP	MBCH	7/6	12080	0.26	0.035	0.21	
542.54	545.59	3.05	589020	HYP	MBCH	7	13560	0.20	0.023	0.10	
545.59	548.64	3.05	589021	HYP	MBCH	7	12320	0.21	0.013	0.14	
548.64	551.69	3.05	589022	HYP	MBCH	7	12780	0.29	0.012	0.17	
551.69	554.74	3.05	589023	HYP	MBCH	7	12480	0.38	0.028	0.34	
554.74	557.78	3.04	589024	HYP	MBCH	7	12060	0.59	0.047	0.21	
557.78	560.83	3.05	589025	HYP	MBCH	7	12660	1.08	0.043	0.58	
560.83	563.88	3.05	589026	HYP	MBCH	7	12120	1.03	0.032	0.55	
563.88	566.93	3.05	589027	HYP	MBCH	7	13260	0.89	0.021	0.45	
566.93	569.98	3.05	589028	HYP	MBCH	7	13560	0.51	0.026	0.24	
569.98	573.02	3.04	589029	HYP	MBCH	7	12080	0.54	0.016	0.41	
573.02	576.07	3.05	589030	HYP	MBCH	7	13240	0.64	0.018	0.21	
576.07	579.12	3.05	589031	HYP	MBCH	7	12600	0.84	0.052	0.51	
579.12	END OF HOLE										

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Hole Number	93-213	Total Depth	529.44 m			
Northing	255,232.71	Casing Depth	29.87 m			Left Out
Easting	110,998.74	Survey Data		Azimuth	Dip	Instrument
Elevation	1229.51 m	Collar			-90.00°	Brunton Compass
Core Size	HQ		152.4 m	165°	-89.25°	Sperry Sun
Drilling Started	September 14, 1993		306.9 m	175°	-89.00°	Sperry Sun
Drilling Finished	September 27, 1993		457.2 m	170°	-88.75°	Sperry Sun
Logged by	M.P. Phillips					

Purpose/Target: The purpose was to test the northern extent of copper-molybdenum mineralization in the Casino Creek Zone.

Comments: Fair-good grade copper-molybdenum mineralization indicates that the Casino Creek Zone extends at least as far as this drill hole.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	13.41	13.41		OVB							
13.41	15.70	2.29	565591	CAP	QMFZ	3/7	5380	0.02	0.019	0.21	
15.70	18.44	2.74	565592	CAP	QMFZ	3/7	1320	0.02	0.018	0.14	
18.44	21.34	2.90	565593	CAP	QMFZ	3/7	2780	0.12	0.023	0.10	
21.34	23.47	2.13	565594	CAP	QMFZ	3/7	3800	0.14	0.035	0.21	
23.47	27.13	3.66	565595	CAP	QMFX	3/7	8620	0.14	0.047	0.17	
27.13	29.57	2.44	565596	CAP	QMFX	3/7	2280	0.16	0.061	0.14	
29.57	32.61	3.04	565597	CAP	QMFX	3/7	8280	0.05	0.073	0.10	
32.61	35.66	3.05	565598	CAP	QMFX	3/7	7680	0.06	0.036	0.14	
35.66	38.71	3.05	565599	CAP	YMQT	3/7	8120	0.14	0.039	0.14	
38.71	41.76	3.05	565600	CAP	YMQT	3/7	8620	0.27	0.018	0.10	
41.76	44.81	3.05	565601	CAP	YMQT	3/7	10800	0.13	0.017	0.14	
44.81	47.85	3.04	565602	SUS	QMFX	3/7	8760	0.08	0.031	0.17	
47.85	50.90	3.05	565603	SUS	QMFX	3/7	8480	0.21	0.061	0.24	
50.90	53.95	3.05	565604	SUS	QMFX	3/7	7100	0.09	0.030	0.10	
53.95	57.00	3.05	565605	SUS	QMFX	7/3	10120	0.04	0.019	0.07	
57.00	60.05	3.05	565606	SUS	QMFX	7/4	9640	0.03	0.016	<0.03	
60.05	63.09	3.04	565607	SUS	QMFX	7/4	10960	0.11	0.020	0.07	
63.09	65.23	2.14	565608	SUS	QMFX	7/4	7420	0.10	0.027	0.07	
65.23	69.19	3.96	565609	SUS	QMFX	7/4	14620	0.10	0.044	0.03	
69.19	72.24	3.05	565610	SUS	QMFX	7/5	11380	0.14	0.014	0.03	
72.24	74.98	2.74	565611	SUS	QMFX	7/5	10520	0.15	0.016	0.07	
74.98	77.72	2.74	565612	SUS	QMFX	7/5	11500	0.16	0.027	<0.03	
77.72	80.92	3.20	565613	SUS	QMFX	7/5	12400	0.18	0.023	0.07	
80.92	84.43	3.51	565614	SUS	QMFX	7/4	12720	0.10	0.013	0.07	
84.43	87.48	3.05	565615	SUS	QMFX	7/4	11460	0.12	0.015	<0.03	
87.48	90.53	3.05	565616	SUS	QMFX	7/4	11600	0.07	0.014	0.03	
90.53	93.57	3.04	565617	SUS	QMFX	7/4	9680	0.11	0.022	0.03	
93.57	96.62	3.05	565618	SUS	QMFX	7/4	11640	0.08	0.024	<0.03	
96.62	99.67	3.05	565619	TRN	QMFX	7/4	11660	0.07	0.021	0.07	
99.67	102.72	3.05	565620	TRN	QMFX	7/4	10000	0.08	0.015	0.03	
102.72	105.77	3.05	565621	HYP	QMFX	7/4	10780	0.11	0.019	0.10	
105.77	108.81	3.04	565622	HYP	QMFX	7/5	11460	0.09	0.019	0.10	
108.81	111.86	3.05	565623	HYP	WRDR	7/1	11320	0.11	0.033	0.21	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
111.86	114.91	3.05	565624	HYP	WRDR	7/1	12040	0.08	0.036	0.03	
114.91	116.43	1.52	565625	HYP	WRDR	7/5	10460	0.06	0.023	0.14	
116.43	119.18	2.75	565626	HYP	WRDR	7/1	6940	0.11	0.017	0.17	
119.18	122.83	3.65	565627	HYP	WRDR	7/1	8740	0.06	0.011	0.10	
122.83	125.27	2.44	565628	HYP	WRDR	7/5	9960	0.08	0.013	0.10	
125.27	127.10	1.83	565629	HYP	WRDR	7/5	5580	0.10	0.016	0.14	
127.10	130.15	3.05	565630	HYP	QMFX	7/5	11140	0.07	0.012	0.03	
130.15	133.20	3.05	565631	HYP	QMFX	7/5	11000	0.09	0.014	0.07	
133.20	136.25	3.05	565632	HYP	QMFX	7/2	10360	0.08	0.022	0.07	
136.25	139.29	3.04	565633	HYP	QMFX	7/2	11280	0.09	0.017	0.07	
139.29	142.34	3.05	565634	HYP	QMFX	7/2	11720	0.07	0.020	0.03	
142.34	145.39	3.05	565635	SUS	QMFX	7/2	11740	0.09	0.026	0.21	
145.39	148.44	3.05	565636	SUS	QMFX	7/2	10060	0.08	0.013	0.07	
148.44	151.49	3.05	565637	SUS	QMFX	7/2	11820	0.06	0.014	<0.03	
151.49	154.53	3.04	565638	HYP	QMFX	7/2	9900	0.04	0.031	<0.03	
154.53	157.58	3.05	565639	HYP	QMFX	7/1	11760	0.06	0.175	0.10	
157.58	160.63	3.05	565640	HYP	QMFX	7/5	11300	0.08	0.029	0.27	
160.63	163.68	3.05	565641	HYP	QMFX	7/2	11860	0.07	0.048	<0.03	
163.68	166.73	3.05	565642	HYP	QMFX	7/5	12940	0.14	0.033	0.07	
166.73	169.77	3.04	565643	HYP	QMFX	7/5	12300	0.07	0.334	<0.03	
169.77	172.82	3.05	565644	HYP	QMFX	7/5	10480	0.10	0.043	0.07	
172.82	175.87	3.05	565645	HYP	QMFX	7/2	8380	0.12	0.052	0.14	
175.87	178.92	3.05	565646	HYP	QMCX	7/2	11220	0.07	0.018	0.10	
178.92	181.97	3.05	565647	HYP	QMCX	7/1	13130	0.04	0.010	0.03	
181.97	185.01	3.04	565648	HYP	QMCX	7/1	12220	0.03	0.017	<0.03	
185.01	188.06	3.05	565649	HYP	QMCX	7/5	12200	0.05	0.037	0.07	
188.06	191.11	3.05	565650	HYP	QMCX	7/5	13260	0.04	0.023	0.07	
191.11	194.16	3.05	565651	HYP	QMCX	7/5	12680	0.06	0.012	0.10	
194.16	197.21	3.05	565652	HYP	QMCX	7/5	11960	0.04	0.024	0.07	
197.21	200.25	3.04	565653	HYP	QMCX	7/1	11320	0.10	0.030	0.21	
200.25	203.30	3.05	565654	HYP	QMCX	7/1	12880	0.08	0.015	0.14	
203.30	206.35	3.05	565655	HYP	QMCX	7/1	13880	0.05	0.011	0.14	
206.35	209.40	3.05	565656	HYP	IXAC	7/1	13058	0.09	0.014	0.17	
209.40	212.45	3.05	565657	HYP	IXBX	7/5	13260	0.11	0.012	0.21	
212.45	215.49	3.04	565658	HYP	IXBX	7/5	12340	0.04	0.037	0.07	
215.49	218.54	3.05	565659	HYP	IXBX	7/5	13660	0.04	0.033	0.07	
218.54	221.59	3.05	565660	HYP	WRDR	7/5	12440	0.06	0.031	0.10	
221.59	224.64	3.05	565661	HYP	WRDR	7/1	13000	0.11	0.020	0.14	
224.64	227.69	3.05	565662	HYP	WRDR	7/1	13080	0.11	0.019	0.14	
227.69	230.73	3.04	565663	HYP	WRDR	7/1	13060	0.08	0.014	0.14	
230.73	233.78	3.05	565664	HYP	WRDR	7/5	12760	0.09	0.026	0.14	
233.78	236.83	3.05	565665	HYP	WRDR	7/5	12520	0.06	0.012	0.10	
236.83	239.88	3.05	565666	HYP	WRDR	7/1	11740	0.09	0.022	0.14	
239.88	242.93	3.05	565667	HYP	WRDR	7/1	14380	0.10	0.019	0.10	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
242.93	245.97	3.04	565668	HYP	WRDR	7/5	12480	0.24	0.043	0.45	
245.97	249.02	3.05	565669	HYP	WRDR	7/1	12100	0.18	0.023	0.27	
249.02	252.07	3.05	565670	HYP	WRDR	7/1	13420	0.07	0.016	0.14	
252.07	255.12	3.05	565671	HYP	WRDR	7/1	12220	0.06	0.035	0.10	
255.12	258.17	3.05	565672	HYP	WRDR	7/2	14520	0.14	0.033	0.14	
258.17	261.21	3.04	565673	HYP	WRDR	7/2	13040	0.15	0.026	0.14	
261.21	264.26	3.05	565674	HYP	WRDR	7/2	11620	0.11	0.076	0.17	
264.26	267.31	3.05	565675	HYP	QMFX	7/2	12900	0.04	0.020	0.07	
267.31	270.36	3.05	565676	HYP	QMFX	7/2	11860	0.06	0.012	0.10	
270.36	273.41	3.05	565677	HYP	QMFX	7/2	12380	0.05	0.012	0.03	
273.41	276.46	3.05	565678	HYP	QMFX	7/2	11760	0.08	0.120	0.07	
276.46	279.50	3.04	565679	HYP	QMFX	7/2	11900	0.05	0.016	0.31	
279.50	282.55	3.05	565680	HYP	QMFX	7/2	12140	0.03	0.011	0.10	
282.55	285.60	3.05	565681	HYP	QMFX	7/5	12060	0.04	0.027	0.07	
285.60	288.65	3.05	565682	HYP	QMFX	7/5	11920	0.07	0.016	0.69	
288.65	291.69	3.04	565683	HYP	QMFX	7/5	11040	0.05	0.009	0.03	
291.69	294.74	3.05	565684	HYP	QMFX	7/5	10860	0.06	0.066	0.07	
294.74	297.79	3.05	565685	HYP	QMFX	7/5	12660	0.05	0.056	0.07	
297.79	300.84	3.05	565686	HYP	QMFX	7/5	12140	0.09	0.016	0.10	
300.84	303.89	3.05	565687	HYP	QMFX	7/5	10620	0.03	0.011	0.03	
303.89	306.93	3.04	565688	HYP	QMFX	7/5	11720	0.04	0.061	0.10	
306.93	309.98	3.05	565689	HYP	QMFX	7/5	11420	0.04	0.015	0.07	
309.98	313.03	3.05	565690	HYP	QMFX	7/5	11800	0.05	0.006	0.10	
313.03	316.08	3.05	565691	HYP	QMFX	7/5	12540	0.05	0.019	0.07	
316.08	319.13	3.05	565692	HYP	QMFX	7/5	11600	0.06	0.013	0.07	
319.13	322.17	3.04	565693	HYP	QMFX	7/1	13260	0.03	0.025	0.10	
322.17	325.22	3.05	565694	HYP	QMFX	7/1	12900	0.04	0.008	0.21	
325.22	328.27	3.05	565695	HYP	QMFX	7/1	12540	0.14	0.012	0.14	
328.27	331.32	3.05	565696	HYP	IXAF	7/5	12840	0.07	0.015	0.10	
331.32	334.37	3.05	565697	HYP	WRDF	7/1	14260	0.07	0.048	0.14	
334.37	337.41	3.04	565698	HYP	WRDF	7/5	13600	0.18	0.018	0.17	
337.41	340.46	3.05	565699	HYP	WRDF	7	14600	0.13	0.017	0.21	
340.46	343.51	3.05	565700	HYP	WRDF	7	14020	0.06	0.015	0.14	
343.51	346.56	3.05	565701	HYP	WRDF	7	13960	0.11	0.009	0.17	
346.56	349.61	3.05	565702	HYP	WRDF	7	13860	0.10	0.014	0.14	
349.61	352.65	3.04	565703	HYP	WRDF	7	13600	0.08	0.012	0.14	
352.65	355.70	3.05	565704	HYP	WRDF	7	13360	0.11	0.016	0.14	
355.70	358.75	3.05	565705	HYP	WRDF	7	13520	0.06	0.013	0.10	
358.75	361.80	3.05	565706	HYP	WRGF	7	13040	0.05	0.017	0.07	
361.80	364.85	3.05	565707	HYP	WRGF	7	13340	0.03	0.011	0.03	
364.85	367.89	3.04	565708	HYP	WRGF	7	12860	0.03	0.014	0.07	
367.89	370.94	3.05	565709	HYP	WRGF	7	10540	0.03	0.012	0.10	
370.94	373.99	3.05	565710	HYP	WRGF	7	14660	0.03	0.015	0.07	
373.99	377.04	3.05	565711	HYP	WRGF	7	12020	0.05	0.030	0.07	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.04	380.09	3.05	565712	HYP	WRDF	7	15400	0.05	0.025	0.03	
380.09	383.13	3.04	565713	HYP	WRDF	7	14020	0.11	0.082	0.17	
383.13	386.18	3.05	565714	HYP	WRDF	7	14100	0.10	0.029	0.14	
386.18	389.23	3.05	565715	HYP	WRDF	7	13220	0.03	0.016	0.03	
389.23	392.28	3.05	565716	HYP	WRDF	7	14080	0.12	0.008	0.17	
392.28	395.33	3.05	565717	HYP	WRDF	7	12560	0.17	0.035	0.27	
395.33	398.37	3.04	565718	HYP	WRDF	7	13620	0.12	0.027	0.14	
398.37	401.42	3.05	565719	HYP	WRDF	7	13280	0.10	0.066	0.10	
401.42	404.47	3.05	565720	HYP	WRDF	7	12100	0.04	0.042	0.03	
404.47	407.52	3.05	565721	HYP	WRGF	7	13200	0.02	0.022	<0.03	
407.52	410.57	3.05	565722	HYP	WRDF	7	12920	0.05	0.029	0.07	
410.57	413.61	3.04	565723	HYP	WRDF	7	14680	0.09	0.026	0.14	
413.61	416.66	3.05	565724	HYP	WRDF	7	13460	0.12	0.013	0.17	
416.66	419.71	3.05	565725	HYP	WRDF	7	12900	0.06	0.035	0.07	
419.71	422.76	3.05	565726	HYP	WRDF	7	12460	0.08	0.042	0.14	
422.76	425.81	3.05	565727	HYP	WRDF	7	12860	0.16	0.047	0.14	
425.81	428.86	3.05	565728	HYP	WRDF	7	12720	0.13	0.054	0.07	
428.86	431.90	3.04	565729	HYP	WRDF	7	12780	0.18	0.112	0.14	
431.90	434.95	3.05	565730	HYP	WRDF	7	12600	0.28	0.126	0.21	
434.95	438.00	3.05	565731	HYP	WRGF	7	13600	0.09	0.040	0.07	
438.00	441.05	3.05	565732	HYP	WRGF	7	12520	0.10	0.038	0.07	
441.05	444.09	3.04	565733	HYP	WRGF	7	13000	0.10	0.049	0.14	
444.09	447.14	3.05	565734	HYP	WRDF	7	11220	0.17	0.095	0.17	
447.14	450.19	3.05	565735	HYP	WRGF	7	12240	0.04	0.035	<0.03	
450.19	453.24	3.05	565736	HYP	WRGF	7	13340	0.02	0.018	<0.03	
453.24	456.29	3.05	565737	HYP	WRGF	7	12060	0.04	0.029	<0.03	
456.29	459.33	3.04	565738	HYP	WRGF	7	12920	0.02	0.028	<0.03	
459.33	462.38	3.05	565739	HYP	WRGF	7	13740	0.05	0.013	0.17	
462.38	465.43	3.05	565740	HYP	WRGF	7	13540	0.08	0.028	0.07	
465.43	468.48	3.05	565741	HYP	WRDF	7	13520	0.09	0.030	0.10	
468.48	471.53	3.05	565742	HYP	WRDF	7	13000	0.03	0.165	<0.03	
471.53	474.57	3.04	565743	HYP	WRDF	7	13400	0.05	0.029	0.07	
474.57	477.62	3.05	565744	HYP	WRGF	7	12540	0.04	0.019	<0.03	
477.62	480.67	3.05	565745	HYP	WRDF	7	11740	0.14	0.019	0.07	
480.67	482.50	1.83	565746	HYP	WRDF	7	7840	0.08	0.022	0.03	
482.50	485.55	3.05	565747	HYP	WRDF	7/5	13680	0.17	0.026	0.14	
485.55	488.59	3.04	565748	HYP	WRDF	7/5	12920	0.17	0.027	0.27	
488.59	489.81	1.22	565749	HYP	WRDF	7	5600	0.18	0.016	0.21	
489.81	492.86	3.05	565750	HYP	WRDF	7	13460	0.09	0.018	0.14	
492.86	495.91	3.05	565751	HYP	WRDF	7	12420	0.06	0.014	0.03	
495.91	498.96	3.05	565752	HYP	WRDF	7	12800	0.05	0.028	<0.03	
498.96	502.01	3.05	565753	HYP	QMFX	7	14000	0.04	0.008	<0.03	
502.01	505.05	3.04	565754	HYP	IAXC	7	11880	0.05	0.010	<0.03	
505.05	508.10	3.05	565755	HYP	IAXC	7	12540	0.02	0.026	<0.03	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
508.10	511.15	3.05	565756	HYP	IAXC	7	12580	0.02	0.023	<0.03	
511.15	514.20	3.05	565757	HYP	IAXC	7	13160	0.03	0.022	<0.03	
514.20	517.25	3.05	565758	HYP	IAXC	7	12920	0.09	0.016	0.07	
517.25	520.29	3.04	565759	HYP	QMFX	7	12860	0.07	0.015	<0.03	
520.29	522.12	1.83	565760	HYP	LTDA	2/5	7840	0.15	0.016	0.17	
522.12	525.17	3.05	565761	HYP	LTDA	2	13960	0.37	0.007	0.07	
525.17	529.44	4.27	565762	HYP	IAXC	7	16020	0.05	0.018	<0.03	
529.44	END OF HOLE										

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Hole Number	93-214	Total Depth	656.23 m
Northing	254,869.61	Casing Depth	18.29 m Left Out
Easting	111,538.01	Survey Data	Azimuth / Dip / Instrument
Elevation	1160.35 m	Collar	-90.00°
Core Size	HQ	154.5 m	336° / -89.80° / Sperry Sun
Drilling Started	September 19, 1993	304.8 m	197° / -89.50° / Sperry Sun
Drilling Finished	October 2, 1993	457.2 m	133° / -89.75° / Sperry Sun
Logged by	P. Fischl	602.6 m	129° / -89.20° / Sperry Sun

Purpose/Target: To extend zone of high grade mineralization encountered in Holes 93-124 (90 m east) and 93-192 (90 m west, angled -55° towards 93-214).

Comments: This hole intersected a moderately to strongly mineralized section (Cu+Mo) of heterolithic intrusion breccia (IXAF, IXAC) cut by dykes of Patton Porphyry (PPDP/PPDQ).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	18.29	18.29		OVB							
18.29	21.33	3.04	589580	SOX	IXAF	3	7300	0.71	0.060	0.41	
21.33	24.69	3.36	589581	HYP	IXAF	3	9680	0.46	0.034	0.38	
24.69	27.74	3.05	589582	SUS	IXAF	3/5	8800	0.55	0.117	0.17	
27.74	31.09	3.35	589583	SUS	IXAF	5/3	13400	0.10	0.036	0.03	
31.09	34.14	3.05	589584	SUS	IXAF	5/6/3	11680	0.15	0.042	0.07	
34.14	36.58	2.44	589585	SUS	IXAF	5/6	6220	0.08	0.036	0.07	
36.58	39.62	3.04	589586	SUS	IXAF	6	9760	0.17	0.030	0.07	
39.62	41.91	2.29	589587	SUS	IXAF	6	7560	0.15	0.023	0.07	
41.91	44.80	2.89	589588	SUS	IXAF	6	10780	0.12	0.020	0.10	
44.80	47.85	3.05	589589	SUS	IXAF	6	10680	0.11	0.031	0.07	
47.85	50.29	2.44	589590	SUS	IXAF	6	7000	0.51	0.021	0.45	
50.29	53.34	3.05	589591	SUS	IXAF	6	12100	0.16	0.009	0.17	
53.34	56.69	3.35	589592	SUS	IXAF	6	11500	0.20	0.023	0.14	
56.69	59.74	3.05	589593	SUS	IXAF	6	11880	0.34	0.025	0.41	
59.74	62.79	3.05	589594	SUS	IXAF	6	7520	0.22	0.041	0.24	
62.79	65.53	2.74	589595	SUS	IXAF	6	11300	0.34	0.039	0.65	
65.53	67.66	2.13	589596	SUS	IXAF	6	6900	0.31	0.052	0.27	
67.66	71.32	3.66	589597	SUS	IXAF	6	3500	0.25	0.059	0.17	
71.32	72.84	1.52	589598	SUS	IXAF	6	4700	0.16	0.003	0.14	
72.84	76.05	3.21	589599	SUS	QMFX	5/6	10780	0.23	0.011	0.34	
76.05	78.79	2.74	589600	SUS	QMFX	6	6300	0.91	0.009	0.48	
78.79	81.38	2.59	589601	HYP	QMFX	3/6	10160	0.32	0.003	0.27	
81.38	84.28	2.90	589602	HYP	WRDR	6/7	10720	0.19	0.002	0.17	
84.28	87.48	3.20	589603	HYP	WRDR	6/7	10200	0.29	0.005	0.31	
87.48	90.53	3.05	589604	HYP	WRDR	6/7	11520	0.22	0.003	0.27	
90.53	93.57	3.04	589605	HYP	WRDR	6/7	13080	0.23	0.010	0.31	
93.57	96.62	3.05	589606	HYP	WRDR	6/7	12540	0.23	0.003	0.34	
96.62	99.67	3.05	589607	HYP	WRDR	6/7	10160	0.18	0.007	0.17	
99.67	102.41	2.74	589608	HYP	WRDR	6/7	11100	0.35	0.010	0.38	
102.41	106.22	3.81	589609	HYP	WRDR	6/7	14920	0.46	0.104	0.48	
106.22	108.81	2.59	589610	HYP	QMFX	6/7	11700	0.22	0.003	0.24	
108.81	111.86	3.05	589611	HYP	QMFX	6/7	11540	0.34	0.007	0.38	
111.86	114.30	2.44	589612	HYP	QMFX	6/7	9440	0.21	0.015	0.24	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
114.30	117.35	3.05	589613	HYP	QMFX	6/7	12060	0.36	0.178	0.38	
117.35	120.40	3.05	589614	HYP	QMFX	6/7	12760	0.18	0.019	0.21	
120.40	123.60	3.20	589615	HYP	F/ZN	3	10600	0.62	0.027	0.69	
123.60	127.10	3.50	589616	HYP	F/ZN	3	9060	0.78	0.035	0.93	
127.10	130.15	3.05	589617	HYP	F/ZN	3	11720	0.58	0.031	0.62	
130.15	133.20	3.05	589618	HYP	F/ZN	3	7460	0.50	0.057	0.62	
133.20	136.25	3.05	589619	HYP	F/ZN	3	12660	0.48	0.056	0.58	
136.25	139.29	3.04	589620	HYP	IXAF	6	12300	0.40	0.067	0.34	
139.29	142.34	3.05	589621	HYP	IXAF	6	12020	0.30	0.074	0.48	
142.34	145.08	2.74	589622	HYP	IXAF	6	9860	0.36	0.068	1.10	
145.08	147.83	2.75	589623	HYP	IXAF	6	7860	0.46	0.042	0.51	
147.83	151.49	3.66	589624	HYP	IXAF	6	8580	0.65	0.071	0.72	
151.49	154.53	3.04	589625	HYP	IXAF	6	10280	0.36	0.049	0.48	
154.53	157.58	3.05	589626	HYP	IXAF	6	10900	0.27	0.031	0.38	
157.58	161.24	3.66	589627	HYP	IXAF	6	13100	0.44	0.036	0.38	
161.24	164.90	3.66	589628	HYP	IXAF	6	12680	0.36	0.053	0.45	
164.90	167.03	2.13	589629	HYP	IXAF	6	9160	0.46	0.031	0.62	
167.03	169.77	2.74	589630	HYP	IXAF	6/7	11620	0.57	0.034	0.96	
169.77	172.82	3.05	589631	HYP	IXAF	6/7	12480	0.47	0.052	0.51	
172.82	175.87	3.05	589632	HYP	IXAF	6/7	12800	0.42	0.046	0.48	
175.87	178.92	3.05	589633	HYP	IXAF	6/7	11700	0.35	0.025	0.41	
178.92	181.97	3.05	589634	HYP	IXAF	6/7	11760	0.31	0.060	0.45	
181.97	185.01	3.04	589635	HYP	IXAF	6/7	12400	0.40	0.042	0.45	
185.01	188.06	3.05	589636	HYP	IXAF	6/7	12860	0.48	0.055	0.62	
188.06	191.11	3.05	589637	HYP	IXAF	6/7	13780	0.21	0.032	0.27	
191.11	194.16	3.05	589638	HYP	IXAF	6/7	11640	0.46	0.102	0.75	
194.16	197.21	3.05	589639	HYP	IXAF	6/7	13100	0.46	0.063	0.58	
197.21	200.25	3.04	589640	HYP	IXAF	6/7	12320	0.64	0.101	0.65	
200.25	203.30	3.05	589641	HYP	IXAF	6/7	12280	0.51	0.087	0.51	
203.30	206.35	3.05	589642	HYP	IXAF	6/7	11080	0.49	0.021	0.75	
206.35	209.40	3.05	589643	HYP	PPDP	6/7	12180	0.15	0.006	0.17	
209.40	212.45	3.05	589644	HYP	PPDP	6/7	12100	0.10	0.025	0.14	
212.45	215.49	3.04	589645	HYP	IXAF	6/7	11200	0.28	0.108	0.45	
215.49	218.54	3.05	589646	HYP	IXAF	6/7	12480	0.35	0.103	0.55	
218.54	220.37	1.83	589647	HYP	IXAF	6/7	7520	0.31	0.092	0.34	
220.37	223.42	3.05	589648	HYP	IXAF	6/7	12760	0.37	0.079	0.55	
223.42	226.47	3.05	589649	HYP	IXAF	6/7	13640	0.29	0.147	0.34	
226.47	229.51	3.04	589650	HYP	WRDR	6/7	10940	0.16	0.029	0.17	
229.51	230.73	1.22	589651	HYP	IXAF	6/7	4240	0.28	0.072	0.45	
230.73	233.78	3.05	589652	HYP	IXAF	6/7	12760	0.23	0.078	0.31	
233.78	236.83	3.05	589653	HYP	IXAF	6/7	11560	0.19	0.061	0.34	
236.83	239.88	3.05	589654	HYP	IXAF	6/7	11480	0.16	0.078	0.27	
239.88	242.93	3.05	589655	HYP	IXAF	6/7	11660	0.30	0.055	0.41	
242.93	245.97	3.04	589656	HYP	IXAF	6/7	11920	0.29	0.034	0.31	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
245.97	249.02	3.05	589657	HYP	IXAF	6/7	11820	0.25	0.059	0.21	
249.02	252.07	3.05	589658	HYP	IXAF	7/6	11460	0.20	0.076	0.31	
252.07	255.12	3.05	589659	HYP	IXAF	7/6	11220	0.38	0.060	0.51	
255.12	258.17	3.05	589660	HYP	IXAF	7/6	12940	0.20	0.135	0.27	
258.17	260.91	2.74	589661	HYP	IXAF	7/6	11540	0.15	0.082	0.17	
260.91	263.96	3.05	589662	HYP	IXAF	6/7	12920	0.16	0.066	0.24	
263.96	267.16	3.20	589663	HYP	IXAF	6/7	13920	0.25	0.142	0.24	
267.16	270.21	3.05	589664	HYP	IXAF	6/7	13500	0.18	0.077	0.24	
270.21	273.41	3.20	589665	HYP	IXAF	6/7	12460	0.17	0.155	0.27	
273.41	276.45	3.04	589666	HYP	IXAF	6/7	12760	0.14	0.171	0.17	
276.45	279.50	3.05	589667	HYP	IXAF	6/7	12280	0.30	0.097	0.45	
279.50	282.55	3.05	589668	HYP	IXAF	6/7	11880	0.31	0.096	0.65	
282.55	285.60	3.05	589669	HYP	IXAF	6/7	11180	0.23	0.059	0.31	
285.60	288.65	3.05	589670	HYP	IXAF	6/7	11400	0.12	0.189	0.14	
288.65	291.69	3.04	589671	HYP	IXAF	6/7	12880	0.20	0.093	0.21	
291.69	294.74	3.05	589672	HYP	IXAF	7/6	12600	0.29	0.090	0.34	
294.74	297.79	3.05	589673	HYP	IXAF	7/6	13000	0.19	0.042	0.24	
297.79	300.84	3.05	589674	HYP	IXAF	7/6	12860	0.24	0.113	0.34	
300.84	303.89	3.05	589675	HYP	IXAF	7/6	11780	0.19	0.103	0.24	
303.89	306.93	3.04	589676	HYP	IXAF	7/6	13400	0.09	0.122	0.07	
306.93	309.98	3.05	589677	HYP	IXAF	7/6	12740	0.12	0.092	0.14	
309.98	312.12	2.14	589678	HYP	IXAF	7/6	8680	0.15	0.087	0.24	
312.12	314.86	2.74	589679	HYP	IXAF	7/6	10380	0.21	0.085	0.24	
314.86	317.91	3.05	589680	HYP	IXAF	7/6	12120	0.21	0.191	0.21	
317.91	320.95	3.04	589681	HYP	IXAF	7/6	11720	0.17	0.116	0.21	
320.95	324.00	3.05	589682	HYP	IXAF	7/6	11820	0.11	0.086	0.14	
324.00	325.83	1.83	589683	HYP	IXAF	7/6	8860	0.16	0.023	0.21	
325.83	328.27	2.44	589684	HYP	IXAF	7/6	10140	0.26	0.065	0.31	
328.27	331.32	3.05	589685	HYP	IXAF	7/6	12780	0.37	0.094	0.38	
331.32	334.37	3.05	589686	HYP	IXAF	7/6	12900	0.17	0.050	0.21	
334.37	337.41	3.04	589687	HYP	IXAF	7/6	13120	0.16	0.040	0.21	
337.41	340.46	3.05	589688	HYP	IXAF	7/6	11800	0.12	0.033	0.14	
340.46	343.51	3.05	589689	HYP	IXAF	7/6	13580	0.18	0.023	0.45	
343.51	346.56	3.05	589690	HYP	IXAF	7/6	11100	0.07	0.012	0.07	
346.56	348.69	2.13	589691	HYP	IXAF	7/6	8040	0.11	0.124	0.14	
348.69	351.43	2.74	589692	HYP	IXAF	7/6	11540	0.14	0.028	0.17	
351.43	354.48	3.05	589693	HYP	IXAF	7/6	11800	0.09	0.058	0.14	
354.48	357.53	3.05	589694	HYP	IXAF	7/6	13560	0.12	0.030	0.14	
357.53	360.58	3.05	589695	HYP	IXAF	7/6	14180	0.11	0.032	0.10	
360.58	363.63	3.05	589696	HYP	IXAF	6/7	13520	0.25	0.050	0.31	
363.63	366.67	3.04	589697	HYP	IXAF	6/7	13000	0.28	0.033	0.31	
366.67	369.72	3.05	589698	HYP	IXAF	6/7	13080	0.09	0.054	0.10	
369.72	373.99	4.27	589699	HYP	IXAF	4/7	18280	0.15	0.023	0.24	
373.99	377.04	3.05	589700	HYP	IXAF	4/7	12440	0.12	0.082	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.04	380.09	3.05	589701	HYP	IXAF	4/7	12500	0.20	0.085	0.31	
380.09	383.13	3.04	589702	HYP	IXAF	7/6	13100	0.08	0.083	0.07	
383.13	386.18	3.05	589703	HYP	IXAF	7/6	12400	0.11	0.069	0.17	
386.18	389.23	3.05	589704	HYP	IXAF	7/6	12940	0.08	0.050	0.10	
389.23	392.28	3.05	589705	HYP	IXAF	7/6	11900	0.17	0.068	0.17	
392.28	395.33	3.05	589706	HYP	IXAF	7/6	13260	0.04	0.107	0.03	
395.33	398.37	3.04	589707	HYP	IXAC	7/6	12420	0.05	0.102	0.03	
398.37	401.42	3.05	589708	HYP	IXAC	7/6	12820	0.10	0.147	0.10	
401.42	404.47	3.05	589709	HYP	IXAC	7/6	12820	0.23	0.115	0.27	
404.47	407.52	3.05	589710	HYP	IXAC	7/6	11260	0.19	0.054	0.21	
407.52	410.57	3.05	589711	HYP	IXAC	7/6	13720	0.18	0.063	0.24	
410.57	413.61	3.04	589712	HYP	IXAC	7/6	12080	0.06	0.035	0.03	
413.61	416.66	3.05	589713	HYP	IXAC	7/6	13680	0.10	0.068	0.10	
416.66	419.71	3.05	589714	HYP	IXAC	7/6	12860	0.04	0.050	<0.03	
419.71	422.76	3.05	589715	HYP	IXAC	7/6	12240	0.02	0.056	0.03	
422.76	425.81	3.05	589716	HYP	IXAC	7/6	12160	0.15	0.093	0.17	
425.81	428.85	3.04	589717	HYP	IXAC	7/6	12500	0.08	0.080	0.07	
428.85	431.90	3.05	589718	HYP	IXAC	7/6	11040	0.12	0.122	0.17	
431.90	434.95	3.05	589719	HYP	IXAC	7/6	11580	0.02	0.053	0.03	
434.95	438.00	3.05	589720	HYP	IXAC	7/6	12640	0.06	0.076	0.07	
438.00	441.05	3.05	589721	HYP	IXAC	7/6	12900	0.08	0.147	0.10	
441.05	444.09	3.04	589722	HYP	IXAC	7/6	12520	0.08	0.071	0.10	
444.09	447.14	3.05	589723	HYP	IXAC	7/6	12700	0.07	0.080	0.07	
447.14	450.19	3.05	589724	HYP	IXAC	7/6	11840	0.11	0.077	0.31	
450.19	453.24	3.05	589725	HYP	PPDP	6/7	12780	0.09	0.421	0.17	
453.24	456.29	3.05	589726	HYP	PPDP	7	12520	0.07	0.068	0.17	
456.29	459.33	3.04	589727	HYP	IXAF	7	11960	0.14	0.034	0.21	
459.33	462.38	3.05	589728	HYP	IXAF	7	11860	0.16	0.027	0.31	
462.38	465.43	3.05	589729	HYP	IXAF	7	12200	0.05	0.022	0.10	
465.43	468.48	3.05	589730	HYP	IXAF	7	11800	0.08	0.030	0.10	
468.48	471.53	3.05	589731	HYP	IXAF	7	12400	0.05	0.055	0.07	
471.53	474.57	3.04	589732	HYP	IXAF	7	13080	0.10	0.016	0.14	
474.57	477.62	3.05	589733	HYP	IXAF	7	12200	0.07	0.037	0.10	
477.62	480.67	3.05	589734	HYP	IXAF	7	12740	0.07	0.033	0.10	
480.67	483.72	3.05	589735	HYP	IXAF	7	12900	0.09	0.013	0.14	
483.72	486.77	3.05	589736	HYP	PPDP	7	11100	0.12	0.010	0.27	
486.77	489.81	3.04	589737	HYP	PPDP	7	12240	0.09	0.010	0.14	
489.81	492.86	3.05	589738	HYP	PPDP	7	13480	0.07	0.021	0.14	
492.86	495.91	3.05	589739	HYP	IXAF	7	11780	0.05	0.029	0.07	
495.91	498.96	3.05	589740	HYP	IXAF	7	12520	0.06	0.021	0.10	
498.96	502.01	3.05	589741	HYP	PPDP	7	12780	0.05	0.008	0.07	
502.01	504.14	2.13	589742	HYP	PPDP	7	8400	0.09	0.024	0.14	
504.14	508.10	3.96	589743	HYP	PPDP	7	6940	0.09	0.025	0.17	
508.10	511.15	3.05	589744	HYP	IXAF	7	7000	0.08	0.040	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
511.15	514.20	3.05	589745	HYP	IXAF	7	7840	0.04	0.027	0.07	
514.20	517.25	3.05	589746	HYP	IXAF	7	7000	0.05	0.033	0.10	
517.25	520.29	3.04	589747	HYP	IXAF	7	7040	0.09	0.025	0.14	
520.29	523.34	3.05	589748	HYP	IXAF	7	6300	0.10	0.044	0.14	
523.34	526.39	3.05	589749	HYP	IXAF	7	7080	0.11	0.088	0.14	
526.39	529.44	3.05	589750	HYP	IXAF	7	7660	0.13	0.062	0.17	
529.44	532.49	3.05	589751	HYP	IXAF	7	7400	0.08	0.054	0.14	
532.49	535.53	3.04	589752	HYP	IXAF	7	6800	0.09	0.032	0.17	
535.53	538.58	3.05	589753	HYP	IXAF	7	7000	0.07	0.089	0.14	
538.58	541.63	3.05	589754	HYP	IXAF	7	7260	0.07	0.129	0.10	
541.63	544.68	3.05	589755	HYP	IXAF	7	6840	0.10	0.044	0.17	
544.68	547.73	3.05	589756	HYP	IXAF	7	7320	0.13	0.151	0.21	
547.73	550.77	3.04	589757	HYP	IXAF	7	7040	0.12	0.143	0.17	
550.77	553.82	3.05	589758	HYP	IXAF	7	6920	0.11	0.132	0.14	
553.82	556.87	3.05	589759	HYP	IXAF	7	6360	0.05	0.023	0.10	
556.87	559.92	3.05	589760	HYP	IXAF	7	6640	0.05	0.077	0.07	
559.92	562.97	3.05	589761	HYP	IXAF	7	6940	0.35	0.090	0.45	
562.97	566.01	3.04	589762	HYP	IXAF	7	6940	0.10	0.038	0.14	
566.01	569.06	3.05	589763	HYP	IXAF	7	6680	0.13	0.100	0.21	
569.06	572.11	3.05	589764	HYP	IXAF	7	6940	0.20	0.042	0.24	
572.11	575.16	3.05	589765	HYP	IXAF	7	6800	0.10	0.081	0.14	
575.16	578.21	3.05	589766	HYP	IXAF	7	6800	0.26	0.044	0.31	
578.21	581.25	3.04	589767	HYP	IXAF	7	7380	0.17	0.037	0.24	
581.25	584.30	3.05	589768	HYP	IXAF	7	6880	0.05	0.224	0.10	
584.30	587.35	3.05	589769	HYP	IXAF	7	7000	0.25	0.296	0.21	
587.35	590.40	3.05	589770	HYP	IXAF	7	6800	0.07	0.098	0.10	
590.40	593.45	3.05	589771	HYP	IXAF	7	6720	0.14	0.047	0.14	
593.45	596.49	3.04	589772	HYP	IXAF	7	6380	0.11	0.117	0.14	
596.49	599.54	3.05	589773	HYP	IXAF	7	6320	0.09	0.184	0.14	
599.54	602.59	3.05	589774	HYP	IXAF	7	8240	0.09	0.159	0.14	
602.59	605.64	3.05	589775	HYP	IXAF	7	6880	0.12	0.159	0.17	
605.64	608.69	3.05	589776	HYP	IXAF	7	6700	0.13	0.217	0.21	
608.69	611.73	3.04	589777	HYP	IXAF	7	7640	0.16	0.186	0.21	
611.73	614.78	3.05	589778	HYP	IXAF	7	6860	0.06	0.174	0.07	
614.78	617.83	3.05	589779	HYP	IXAF	7	6440	0.25	0.097	0.24	
617.83	620.88	3.05	589780	HYP	IXAF	7	7000	0.17	0.338	0.10	
620.88	623.93	3.05	589781	HYP	IXAF	7	7440	0.21	0.183	0.24	
623.93	626.97	3.04	589782	HYP	IXAF	7	7420	0.27	0.108	0.27	
626.97	630.02	3.05	589783	HYP	IXAF	7	7420	0.15	0.093	0.14	
630.02	633.07	3.05	589784	HYP	IXAF	7	6860	0.21	0.108	0.21	
633.07	636.12	3.05	589785	HYP	IXAF	7	7360	0.09	0.076	<0.03	
636.12	639.17	3.05	589786	HYP	IXAF	7	7220	0.13	0.265	0.21	
639.17	642.21	3.04	589787	HYP	IXAF	7	7180	0.28	0.103	0.14	
642.21	645.26	3.05	589788	HYP	IXAF	7	7100	0.15	0.121	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
645.26	648.31	3.05	589789	HYP	IXAF	7	7160	0.09	0.111	0.10	
648.31	651.36	3.05	589790	HYP	IXAF	7	6660	0.16	0.116	0.17	
651.36	654.41	3.05	589791	HYP	IXAF	7	6920	0.18	0.319	0.17	
654.41	656.23	1.82	589792	HYP	IXAF	7	4460	0.11	0.293	0.10	
656.23	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-215	Total Depth	444.09 m
Northing	255,136.44	Casing Depth	26.21 m Left Out
Easting	111,246.57	Survey Data	Azimuth / Dip / Instrument
Elevation	1205.18 m	Collar	-90.0°
Core Size	HQ	154.53 m	318° / -88.7° / Sperry Sun
Drilling Started	September 20, 1993	306.93 m	300° / -89.0° / Sperry Sun
Drilling Finished	October 2, 1993	438.00 m	314° / -88.5° / Sperry Sun
Logged by	W.D. Mann		

Purpose/Target: Delineation. Adjacent to Casino Fault on southwest side.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	12.80	12.80		OVB							
12.80	15.85	3.05	587857	CAP	F/ZN	3/7	8440	0.03	0.036	0.14	
15.85	18.59	2.74	587858	CAP	F/ZN	3/7	8760	0.04	0.053	0.21	
18.59	20.42	1.83	587859	CAP	F/ZN	3/7	3740	0.04	0.059	0.14	
20.42	23.47	3.05	587860	CAP	F/ZN	3/7	2460	0.04	0.100	0.27	
23.47	26.52	3.05	587861	SUS	F/ZN	2/7	4200	0.01	0.222	0.10	
26.52	29.57	3.05	587862	SUS	F/ZN	2/7	5760	0.51	0.049	0.34	
29.57	32.00	2.43	587863	SUS	F/ZN	2/7	4080	0.36	0.061	0.41	
32.00	35.66	3.66	587864	SUS	F/ZN	2/7	8840	0.53	0.076	0.27	
35.66	37.80	2.14	587865	SUS	F/ZN	2/7	7940	0.46	0.032	0.45	
37.80	39.62	1.82	587866	SUS	F/ZN	2/7	6880	0.26	0.162	0.17	
39.62	41.76	2.14	587867	SUS	IXAF	7/3	7120	0.35	0.214	0.34	
41.76	44.81	3.05	587868	SUS	IXAF	7/3	6740	0.41	0.034	0.41	
44.81	48.46	3.65	587869	SUS	IXAF	7/3	9540	0.27	0.046	0.31	
48.46	50.90	2.44	587870	SUS	IXAF	7/3	6940	0.26	0.015	0.24	
50.90	52.73	1.83	587871	SUS	IXAF	7/3	7740	0.32	0.189	0.24	
52.73	55.17	2.44	587872	SUS	IXAF	7/3	8400	0.33	0.030	0.27	
55.17	58.22	3.05	587873	SUS	IXAF	7/3	10300	0.22	0.030	0.27	
58.22	60.93	2.71	587874	SUS	IXAF	7/3	7880	0.39	0.056	0.48	
60.93	62.48	1.55	587875	SUS	IXAF	7/3	6300	0.07	0.108	0.10	
62.48	64.61	2.13	587876	SUS	IXAF	7/3	7260	0.24	0.047	0.27	
64.61	67.67	3.06	587877	SUS	IXAF	7/3	10000	0.35	0.017	0.24	
67.67	70.10	2.43	587878	SUS	IXAF	7/3	7020	0.31	0.012	0.24	
70.10	73.15	3.05	587879	SUS	IXAF	7/3	7060	0.34	0.026	0.31	
73.15	75.29	2.14	587880	SUS	IXAF	7/3	7060	0.24	0.088	0.27	
75.29	78.49	3.20	587881	SUS	IXAF	7/3	9780	0.23	0.193	0.24	
78.49	81.36	2.87	587882	SUS	IXAF	7/3	5600	0.09	0.159	0.10	
81.36	84.43	3.07	587883	SUS	IXAF	7/3	11920	0.22	0.053	0.10	
84.43	86.87	2.44	587884	SUS	IXAF	7/3	9860	0.24	0.120	0.24	
86.87	89.92	3.05	587885	SUS	IXAF	7/3	11920	0.33	0.061	0.34	
89.92	93.27	3.35	587886	SUS	IXAF	7/5	12340	0.36	0.074	0.14	
93.27	96.32	3.05	587887	SUS	IXAF	7/5	11060	0.10	0.093	0.10	
96.32	99.36	3.04	587888	SUS	IXAF	7/5	12060	0.11	0.116	0.10	
99.36	102.72	3.36	587889	SUS	IXAF	7/5	12240	0.15	0.142	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.72	105.77	3.05	587890	SUS	IXAF	7/5	12500	0.23	0.092	0.31	
105.77	108.81	3.04	587891	SUS	IXAF	7/5	9680	0.17	0.252	0.17	
108.81	111.86	3.05	587892	SUS	IXAF	7/5	10700	0.15	0.097	0.10	
111.86	114.91	3.05	587893	SUS	IXAF	7/5	10560	0.23	0.108	0.17	
114.91	117.96	3.05	587894	SUS	IXAF	7/5	9940	0.25	0.040	0.14	
117.96	120.40	2.44	587895	SUS	IXAF	7/5	9960	0.22	0.056	0.27	
120.40	123.44	3.04	587896	HYP	IXAF	7/5	12020	0.48	0.237	0.62	
123.44	126.49	3.05	587897	HYP	IXAF	7/5	11940	0.12	0.135	0.17	
126.49	128.93	2.44	587898	HYP	IXAF	7/5	11000	0.19	0.077	0.24	
128.93	130.76	1.83	587899	HYP	IXAF	7/5	7440	0.47	0.044	0.38	
130.76	133.20	2.44	587900	HYP	IXAF	7/5	10140	0.22	0.065	0.31	
133.20	136.25	3.05	587901	HYP	IXAF	7/5	12580	0.22	0.105	0.24	
136.25	139.29	3.04	587902	HYP	IXAF	7/5	11780	0.13	0.081	0.17	
139.29	142.34	3.05	587903	HYP	IXAF	7/5	11160	0.22	0.074	0.24	
142.34	145.39	3.05	587904	HYP	IXAF	7/5	11180	0.19	0.133	0.21	
145.39	148.44	3.05	587905	HYP	IXAF	7/5	11080	0.20	0.047	0.24	
148.44	151.49	3.05	587906	HYP	IXAF	7/5	11760	0.17	0.059	0.24	
151.49	154.53	3.04	587907	HYP	IXAF	7/2	12040	0.21	0.069	0.21	
154.53	157.58	3.05	587908	HYP	IXAF	7/2	10520	0.18	0.116	0.17	
157.58	160.63	3.05	587909	HYP	IXAF	7/2	13180	0.13	0.048	0.14	
160.63	163.68	3.05	587910	HYP	IXAF	7/2	12180	0.33	0.042	0.24	
163.68	166.73	3.05	587911	HYP	IXAF	7/2	12380	0.23	0.053	0.24	
166.73	169.77	3.04	587912	HYP	IXAF	7/2	12240	0.20	0.047	0.27	
169.77	172.82	3.05	587913	HYP	IXAF	7/2	13080	0.25	0.037	0.34	
172.82	175.87	3.05	587914	HYP	IXAF	7/2	12600	0.20	0.065	0.17	
175.87	178.92	3.05	587915	HYP	IXAF	7/2	12760	0.16	0.130	0.14	
178.92	181.97	3.05	587916	HYP	IXAF	7/2	11940	0.20	0.054	0.24	
181.97	185.01	3.04	587917	HYP	IXAF	7	12240	0.29	0.060	0.34	
185.01	188.06	3.05	587918	HYP	IXAF	7	13680	0.23	0.046	0.31	
188.06	191.11	3.05	587919	HYP	IXAF	7	13100	0.21	0.095	0.34	
191.11	194.16	3.05	587920	HYP	IXAF	7	13640	0.17	0.112	0.24	
194.16	197.21	3.05	587921	HYP	IXAF	7	13200	0.13	0.054	0.21	
197.21	200.25	3.04	587922	HYP	IXAF	7	13140	0.11	0.081	0.14	
200.25	203.30	3.05	587923	HYP	IXAF	7	12900	0.12	0.088	0.21	
203.30	206.35	3.05	587924	HYP	IXAF	7	13080	0.15	0.119	0.14	
206.35	209.40	3.05	587925	HYP	IXAF	7	13720	0.18	0.070	0.27	
209.40	212.45	3.05	587926	HYP	IXAF	7	12700	0.21	0.197	0.24	
212.45	215.49	3.04	587927	HYP	IXAF	7	12760	0.12	0.085	0.17	
215.49	218.54	3.05	587928	HYP	IXAF	7	13640	0.19	0.075	0.27	
218.54	221.59	3.05	587929	HYP	IXAF	7	12360	0.23	0.109	0.34	
221.59	224.64	3.05	587930	HYP	PPDP	7	13680	0.16	0.035	0.45	
224.64	227.69	3.05	587931	HYP	PPDP	7	12380	0.04	0.008	0.10	
227.69	230.73	3.04	587932	HYP	PPDP	7	12540	0.05	0.005	0.10	
230.73	233.78	3.05	587933	HYP	PPDP	7	12760	0.15	0.044	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	587934	HYP	IXAF	7	12980	0.18	0.029	0.24	
236.83	239.88	3.05	587935	HYP	IXAF	7	12620	0.11	0.058	0.17	
239.88	242.93	3.05	587936	HYP	IXAF	7	12900	0.12	0.098	0.24	
242.93	245.97	3.04	587937	HYP	IXAF	7	12960	0.15	0.099	0.27	
245.97	249.02	3.05	587938	HYP	IXAF	7	13280	0.22	0.068	0.24	
249.02	252.07	3.05	587939	HYP	IXAF	7	13540	0.38	0.169	0.45	
252.07	255.12	3.05	587940	HYP	IXAF	7	13300	0.24	0.180	0.27	
255.12	258.17	3.05	587941	HYP	IXAF	7	13900	0.26	0.039	0.31	
258.17	261.21	3.04	587942	HYP	IXAF	7	13900	0.26	0.087	0.34	
261.21	264.26	3.05	587943	HYP	IXAF	7	13180	0.33	0.077	0.31	
264.26	267.31	3.05	587944	HYP	IXAF	7	12720	0.23	0.110	0.31	
267.31	270.36	3.05	587945	HYP	IXAF	7	13720	0.18	0.080	0.41	
270.36	273.41	3.05	587946	HYP	IXAF	7	12580	0.12	0.088	0.17	
273.41	276.45	3.04	587947	HYP	IXAF	7	12060	0.14	0.171	0.17	
276.45	279.50	3.05	587948	HYP	IXAF	7	12620	0.24	0.078	0.34	
279.50	282.55	3.05	587949	HYP	IXAF	7	12980	0.12	0.112	0.17	
282.55	285.60	3.05	587950	HYP	IXAF	7	12300	0.21	0.069	0.51	
285.60	288.65	3.05	587951	HYP	IXAF	6	11481	0.15	0.075	0.21	
288.65	291.69	3.04	587952	HYP	IXAF	6	11640	0.36	0.197	0.51	
291.69	294.74	3.05	587953	HYP	IXAF	6	11140	0.19	0.071	0.34	
294.74	297.79	3.05	587954	HYP	IXAF	7/2	13400	0.17	0.098	0.24	
297.79	300.84	3.05	587955	HYP	IXAF	7/2	11750	0.23	0.109	0.31	
300.84	303.89	3.05	587956	HYP	IXAF	7/2	12820	0.12	0.097	0.21	
303.89	306.93	3.04	587957	HYP	IXAF	6	11940	0.17	0.134	0.21	
306.93	309.98	3.05	587958	HYP	IXAF	6	12740	0.18	0.084	0.24	
309.98	313.03	3.05	587959	HYP	F/ZN	5/3	12600	0.15	0.067	0.21	
313.03	316.08	3.05	587960	HYP	IXAF	6	13620	0.15	0.179	0.17	
316.08	319.13	3.05	587961	HYP	IXAF	6	11840	0.09	0.100	0.10	
319.13	322.17	3.04	587962	HYP	IXAF	6	11860	0.12	0.099	0.14	
322.17	325.22	3.05	587963	HYP	IXAF	6	10920	0.16	0.137	0.21	
325.22	328.27	3.05	587964	HYP	IXAF	7/2	12660	0.13	0.068	0.21	
328.27	331.32	3.05	587965	HYP	IXAF	7/2	13780	0.15	0.029	0.21	
331.32	334.37	3.05	587966	HYP	IXAF	7/2	11380	0.08	0.114	0.14	
334.37	337.41	3.04	587967	HYP	IXAF	7/2	11560	0.13	0.081	0.17	
337.41	340.46	3.05	587968	HYP	IXAF	7/2	11880	0.11	0.057	0.17	
340.46	343.51	3.05	587969	HYP	IXAF	7/2	12240	0.23	0.063	0.34	
343.51	346.56	3.05	587970	HYP	IXAF	7/2	12240	0.09	0.081	0.14	
346.56	349.61	3.05	587971	HYP	IXAF	7/2	11840	0.10	0.094	0.34	
349.61	352.65	3.04	587972	HYP	IXAF	7/2	13120	0.12	0.055	0.21	
352.65	355.70	3.05	587973	HYP	IXAC	7/2	12220	0.10	0.053	0.21	
355.70	358.44	2.74	587974	HYP	IXAC	7/2	11040	0.12	0.094	0.21	
358.44	361.49	3.05	587975	HYP	IXAC	7/2	11840	0.14	0.064	0.27	
361.49	364.85	3.36	587976	HYP	IXAC	7/2	12780	0.11	0.080	0.21	
364.85	367.89	3.04	587977	HYP	IXAF	6	11100	0.08	0.063	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	587978	HYP	IXAF	6	10620	0.07	0.036	0.14	
370.94	373.99	3.05	587979	HYP	IXAF	6	10940	0.06	0.102	0.10	
373.99	377.04	3.05	587980	HYP	IXAF	7/2	12880	0.09	0.135	0.17	
377.04	380.09	3.05	587981	HYP	IXAF	7/2	12360	0.05	0.135	0.10	
380.09	383.13	3.04	587982	HYP	IXAF	7/2	13140	0.13	0.107	0.17	
383.13	386.18	3.05	587983	HYP	IXAF	7/2	12520	0.06	0.099	0.10	
386.18	389.23	3.05	587984	HYP	IXAF	7/2	12220	0.07	0.088	0.10	
389.23	392.28	3.05	587985	HYP	IXAF	7/2	12180	0.07	0.042	0.10	
392.28	395.33	3.05	587986	HYP	IXAF	7/2	11980	0.08	0.060	0.10	
395.33	398.37	3.04	587987	HYP	IXAF	7/2	11520	0.08	0.030	0.10	
398.37	401.42	3.05	587988	HYP	IXAF	7/2	12300	0.04	0.040	0.07	
401.42	404.47	3.05	587989	HYP	IXAF	7/2	11680	0.10	0.098	0.17	
404.47	407.52	3.05	587990	HYP	IXAF	7/2	12440	0.06	0.209	0.10	
407.52	410.57	3.05	587991	HYP	IXAF	7/2	12680	0.08	0.116	0.07	
410.57	413.61	3.04	587992	HYP	IXAF	7/2	12760	0.07	0.058	0.07	
413.61	416.66	3.05	587993	HYP	IXAF	7/2	11841	0.05	0.036	0.07	
416.66	419.71	3.05	587994	HYP	IXAF	7/2	11740	0.06	0.029	0.07	
419.71	422.76	3.05	587995	HYP	IXAF	7/2	11600	0.03	0.034	0.03	
422.76	425.81	3.05	587996	HYP	IXAF	7/2	11440	0.07	0.065	0.07	
425.81	428.85	3.04	587997	HYP	IXAF	7/2	12640	0.10	0.023	0.10	
428.85	431.90	3.05	587998	HYP	IXAF	7/2	13380	0.07	0.035	0.10	
431.90	434.95	3.05	587999	HYP	PPDP	7/2	13500	0.10	0.018	0.10	
434.95	438.00	3.05	588000	HYP	PPDP	7	11400	0.10	0.007	0.07	
438.00	441.05	3.05	588001	HYP	PPDP	7	11920	0.09	0.008	0.14	
441.05	444.09	3.04	588002	HYP	IXAF	7	11680	0.07	0.060	0.10	
444.09	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-216	Total Depth	87.48 m
Northing	255,046.89	Casing Depth	10.36 m Left In
Easting	111,262.61		
Elevation	1220.31 m		
Core Size	HQ		
Drilling Started	September 21, 1993		
Drilling Finished	September 28, 1993		
Logged by	L. Brommeland		

Survey Data	Azimuth	Dip	Instrument
Collar	090°	-46°	Brunton Compass
75.29 m	084°	-46°	Sperry Sun

Purpose/Target: Angle hole drilled perpendicular to the Casino Fault in order to define location and true thickness of fault.

Comments: Hole abandoned well short of target depth (and short of Casino Fault) due to excessive caving.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	18.59	18.59		OVB							
18.59	22.56	3.97	566809	CAP	IXAF	3	12420	0.14	0.04	0.41	
22.56	25.30	2.74	566810	CAP	IXAF	3/7	8340	0.27	0.05	0.27	
25.30	28.65	3.35	566811	CAP	IXAF	3/7	9740	0.09	0.03	0.34	
28.65	32.00	3.35	566812	CAP	IXAF	3/7	11840	0.03	0.03	0.14	
32.00	34.75	2.75	566813	CAP	IXAF	3/7/5	9660	0.03	0.03	<0.03	
34.75	37.49	2.74	566814	CAP	IXAF	3/7/5	8580	0.06	0.06	0.07	
37.49	40.84	3.35	566815	CAP	IXAF	3/7/5	8320	0.02	0.03	0.14	
40.84	44.81	3.97	566816	CAP	IXAF	3/7/5	7220	0.02	0.06	0.14	
44.81	46.63	1.82	566817	CAP	IXAF	3/7/5	3760	0.03	0.07	0.10	
46.63	49.68	3.05	566818	CAP	IXAF	3/7/5	8620	0.04	0.04	0.07	
49.68	52.73	3.05	566819	CAP	QMFX	3/5/7	9800	0.05	0.04	0.14	
52.73	55.78	3.05	566820	CAP	QMFX	3/5/7	11220	0.03	0.02	0.41	
55.78	58.52	2.74	566821	CAP	WRGD	3/5/7	5400	0.07	0.02	0.27	
58.52	60.05	1.53	566822	CAP	WRGD	3/5/7	4580	0.04	0.03	0.31	
60.05	63.09	3.04	566823	CAP	WRGD	3/5/7	7960	0.04	0.01	0.41	
63.09	66.14	3.05	566824	SUS	WRGD	3/5/7	9840	0.14	0.02	0.24	
66.14	68.88	2.74	566825	SUS	WRGD	3/5/7	9660	0.33	0.04	0.38	
68.88	71.02	2.14	566826	SUS	QMFX	3/5/7	7420	0.36	0.01	0.31	
71.02	74.07	3.05	566827	SUS	QMFX	3/5/7	9360	0.21	0.03	0.21	
74.07	77.11	3.04	566828	SUS	QMFX	7/5/3	10900	0.27	0.05	0.27	
77.11	79.10	1.99	566829	SUS	QMFX	7/3	5960	0.16	0.02	0.69	
79.10	82.91	3.81	566830	SUS	QMFX	7/5/3	12580	0.29	0.03	0.38	
82.91	85.95	3.04	566831	SUS	IXAF	7/5/3	10660	0.47	0.01	0.27	
85.95	87.48	1.53	566832	SUS	IXAF	7/5/3	4900	0.84	0.01	0.34	
87.48	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-217	Total Depth	573.33 m
Northing	254,900.00	Casing Depth	36.88 m Left Out
Easting	111,800.10	Survey Data	Azimuth / Dip / Instrument
Elevation	1144.78 m	Collar	-90.00°
Core Size	HQ	152.4 m	080° / -89.75° / Sperry Sun
Drilling Started	September 21, 1993	304.8 m	030° / -89.50° / Sperry Sun
Drilling Finished	October 3, 1993	457.2 m	243° / -89.20° / Sperry Sun
Logged by	C. DeLong		

Purpose/Target: Further delineate mineralization east of Hole 93-144.

Comments: Fracture-controlled chalcopyrite, less disseminated, inconsistent.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	10.67	10.67		OVB							
10.67	12.50	1.83	588652	CAP	WRDR	3	3880	0.31	0.020	0.17	
12.50	15.85	3.35	588653	SOX	WRDR	3	9500	0.48	0.007	0.07	
15.85	20.12	4.27	588654	SUS	WRDR	3	11420	0.10	0.001	0.17	
20.12	23.77	3.65	588655	SUS	WRDR	7	9660	0.07	0.001	0.10	
23.77	26.52	2.75	588656	TRN	WRDR	7/1	9260	0.08	0.002	0.10	
26.52	29.57	3.05	588657	TRN	WRDR	7/1	8080	0.13	0.002	0.21	
29.57	31.70	2.13	588658	HYP	WRDR	7/1	6940	0.13	0.002	0.10	
31.70	34.75	3.05	588659	HYP	WRDR	7/1	9720	0.10	0.002	0.10	
34.75	37.80	3.05	588660	HYP	WRDR	7/1	12140	0.05	0.002	0.07	
37.80	39.93	2.13	588661	HYP	WRDR	7/1	6940	0.02	0.001	<0.03	
39.93	43.28	3.35	588662	HYP	WRDR	7/1	11960	0.07	0.003	0.03	
43.28	46.33	3.05	588663	HYP	QMCX	7	11260	0.12	0.003	0.10	
46.33	47.85	1.52	588664	HYP	QMCX	7	4940	0.11	0.002	0.14	
47.85	50.60	2.75	588665	HYP	WRDR	7/1	9140	0.43	0.005	0.41	
50.60	53.95	3.35	588666	HYP	QMFX	7	12840	0.19	0.002	0.27	
53.95	57.00	3.05	588667	HYP	WRDR	7/1	10360	0.08	0.003	0.14	
57.00	60.05	3.05	588668	HYP	QMFZ	7/5	11260	0.08	0.003	0.10	
60.05	62.79	2.74	588669	HYP	QMFZ	7/6	9500	0.10	0.002	0.07	
62.79	65.84	3.05	588670	HYP	QMFZ	7/6	12400	0.11	0.002	0.14	
65.84	68.88	3.04	588671	HYP	QMFZ	7/6	13300	0.24	0.004	0.24	
68.88	71.93	3.05	588672	HYP	QMFZ	7/6	12360	0.14	0.003	0.10	
71.93	74.98	3.05	588673	HYP	QMFZ	7/6	11640	0.31	0.004	0.34	
74.98	77.42	2.44	588674	HYP	QMFZ	7/6	9420	0.11	0.002	0.14	
77.42	79.86	2.44	588675	HYP	QMFZ	7/6	6300	0.25	0.006	0.31	
79.86	81.38	1.52	588676	HYP	QMFZ	7/6	12300	0.27	0.008	0.27	
81.38	84.43	3.05	588677	HYP	QMFZ	7/6	11400	0.23	0.007	0.24	
84.43	87.48	3.05	588678	HYP	QMFZ	7/6	9080	0.39	0.008	0.31	
87.48	90.53	3.05	588679	HYP	QMFX	7/6	12740	0.30	0.008	0.31	
90.53	93.57	3.04	588680	HYP	QMCZ	6/7	11340	0.29	0.005	0.24	
93.57	96.62	3.05	588681	HYP	QMCZ	7/5	11700	0.32	0.008	0.27	
96.62	99.67	3.05	588682	HYP	QMCZ	7/5	10860	0.21	0.007	0.17	
99.67	102.72	3.05	588683	HYP	QMCZ	7/5	12000	0.25	0.006	0.24	
102.72	105.77	3.05	588684	HYP	QMCZ	7/1	12920	0.14	0.004	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	588685	HYP	IXAC	7/1	12020	0.26	0.041	0.24	
108.81	111.86	3.05	588686	HYP	IXAC	7/1	11560	0.20	0.008	0.21	
111.86	114.91	3.05	588687	HYP	IXAC	7/1	11800	0.20	0.005	0.21	
114.91	117.96	3.05	588688	HYP	IXAC	7/1	11140	0.14	0.045	0.14	
117.96	121.01	3.05	588689	HYP	IXAC	7/1	12160	0.15	0.004	0.17	
121.01	124.05	3.04	588690	HYP	IXAC	7/1	12700	0.41	0.009	0.34	
124.05	127.10	3.05	588691	HYP	IXAC	7/1	12640	0.15	0.019	0.17	
127.10	130.15	3.05	588692	HYP	IXAC	7/1	11900	0.56	0.006	0.65	
130.15	133.20	3.05	588693	HYP	IXAC	7/1	11360	0.21	0.005	0.21	
133.20	136.25	3.05	588694	HYP	IXAC	6/7	12120	0.25	0.005	0.48	
136.25	139.29	3.04	588695	HYP	IXAC	6/7	11500	0.25	0.003	0.31	
139.29	142.34	3.05	588696	HYP	IXAC	6/7	11720	0.21	0.005	0.31	
142.34	145.39	3.05	588697	HYP	IXAC	6/7	12280	0.20	0.007	0.27	
145.39	148.44	3.05	588698	HYP	IXAC	6/7	11620	0.24	0.008	0.34	
148.44	151.49	3.05	588699	HYP	IXAC	6/7	12180	0.24	0.012	0.24	
151.49	154.43	2.94	588700	HYP	IXAC	7/1	13160	0.20	0.009	0.17	
154.43	157.58	3.15	588701	HYP	IXAC	7/1	10800	0.32	0.006	0.31	
157.58	160.63	3.05	588702	HYP	IXAC	7/1	12580	0.27	0.007	0.27	
160.63	163.68	3.05	588703	HYP	IXAC	7	12400	0.20	0.007	0.17	
163.68	166.73	3.05	588704	HYP	IXAC	7	11960	0.17	0.005	0.24	
166.73	168.86	2.13	588705	HYP	IXAC	7	7640	0.14	0.006	0.10	
168.86	172.82	3.96	588706	HYP	IXAC	7	14160	0.27	0.006	0.24	
172.82	175.26	2.44	588707	HYP	IXAC	7	9120	0.21	0.004	0.17	
175.26	178.31	3.05	588708	HYP	IXAC	7	12220	0.46	0.004	0.27	
178.31	181.36	3.05	588709	HYP	IXAC	7	12960	0.46	0.006	0.34	
181.36	184.40	3.04	588710	HYP	IXAC	7	13940	0.20	0.005	0.31	
184.40	187.45	3.05	588711	HYP	IXAC	7	12340	0.30	0.008	0.24	
187.45	191.11	3.66	588712	HYP	IXAC	7	14080	0.57	0.037	0.31	
191.11	194.16	3.05	588713	HYP	IXAC	7	13460	1.24	0.071	1.02	
194.16	197.21	3.05	588714	HYP	IXAC	7	11880	0.53	0.022	0.42	
197.21	199.95	2.74	588715	HYP	IXAC	7	11560	0.38	0.054	0.34	
199.95	203.30	3.35	588716	HYP	IXAC	7	11740	0.51	0.032	0.24	
203.30	206.35	3.05	588717	HYP	IXAC	7	13040	0.15	0.005	0.07	
206.35	209.40	3.05	588718	HYP	IXAC	7	11940	0.17	0.005	0.14	
209.40	212.45	3.05	588719	HYP	IXAC	7	10540	0.13	0.007	0.10	
212.45	215.49	3.04	588720	HYP	IXAC	7	12080	0.15	0.006	0.10	
215.49	218.54	3.05	588721	HYP	IXAC	7	12960	0.22	0.012	0.24	
218.54	220.98	2.44	588722	HYP	IXAC	7	7980	0.18	0.009	0.17	
220.98	224.64	3.66	588723	HYP	IXAC	7	15100	0.18	0.009	0.21	
224.64	227.69	3.05	588724	HYP	WRGD	7	12420	0.19	0.011	0.21	
227.69	230.73	3.04	588725	HYP	WRDR	7	12720	0.14	0.008	0.10	
230.73	233.78	3.05	588726	HYP	WRDR	7	12900	0.20	0.007	0.24	
233.78	237.44	3.66	588727	HYP	WRDR	7	14100	0.22	0.004	0.31	
237.44	239.88	2.44	588728	HYP	WRDR	3	9620	0.21	0.064	0.48	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	588729	HYP	WRDR	7/3	14380	0.33	0.005	0.51	
242.93	245.97	3.04	588730	HYP	YMDR	7	12480	0.21	0.027	0.17	
245.97	249.02	3.05	588731	HYP	YMDR	7	13840	0.23	0.007	0.17	
249.02	252.07	3.05	588732	HYP	YMDR	7	13130	0.20	0.005	0.21	
252.07	255.12	3.05	588733	HYP	WRGD	7	12720	0.14	0.003	0.21	
255.12	258.17	3.05	588734	HYP	WRGD	7	12700	0.14	0.003	0.14	
258.17	261.21	3.04	588735	HYP	WRGD	7	12600	0.16	0.004	0.17	
261.21	264.26	3.05	588736	HYP	WRGD	7	12480	0.20	0.008	0.34	
264.26	267.31	3.05	588737	HYP	WRGD	7	13380	0.09	0.002	0.07	
267.31	270.36	3.05	588738	HYP	WRGD	7	12380	0.13	0.007	0.10	
270.36	273.41	3.05	588739	HYP	WRGD	7/5	12880	0.12	0.003	0.10	
273.41	276.45	3.04	588740	HYP	WRGD	7/5	10000	0.16	0.002	0.07	
276.45	279.81	3.36	588741	HYP	WRGD	7/5	12100	0.13	0.003	0.10	
279.81	282.55	2.74	588742	HYP	YMDR	7/5	11500	0.27	0.013	0.62	
282.55	285.60	3.05	588743	HYP	QMIE	7/5	12760	0.14	0.017	0.27	
285.60	288.65	3.05	588744	HYP	QMIE	7/5	11960	0.13	0.002	0.10	
288.65	291.69	3.04	588745	HYP	QMIE	7/5	11600	0.17	0.019	0.21	
291.69	294.74	3.05	588746	HYP	QMIE	7/5	11860	0.09	0.006	0.07	
294.74	297.79	3.05	588747	HYP	QMIE	7	12300	0.17	0.004	0.10	
297.79	300.84	3.05	588748	HYP	IXAC	7	11100	0.27	0.005	0.14	
300.84	303.28	2.44	588749	HYP	IXAC	7	9380	0.12	0.001	0.10	
303.28	306.32	3.04	588750	HYP	IXAC	7	13160	0.42	0.007	0.27	
306.32	309.37	3.05	588751	HYP	IXAC	7	11600	0.18	0.012	0.27	
309.37	312.42	3.05	588752	HYP	IXAC	7	12120	0.08	0.004	0.07	
312.42	315.62	3.20	588753	HYP	IXAC	7	11900	0.12	0.008	0.07	
315.62	318.82	3.20	588754	HYP	IXAC	7	12120	0.19	0.008	0.17	
318.82	322.02	3.20	588755	HYP	IXAC	7	11940	0.20	0.014	0.14	
322.02	325.22	3.20	588756	HYP	IXAC	7	12480	0.22	0.004	0.14	
325.22	328.27	3.05	588757	HYP	IXAC	7	12440	0.17	0.001	0.17	
328.27	331.32	3.05	588758	HYP	IXAC	7	13080	0.21	0.003	0.14	
331.32	334.37	3.05	588759	HYP	IXAC	7	12480	0.11	0.007	0.10	
334.37	337.41	3.04	588760	HYP	IXAC	7	18960	0.11	0.003	0.07	
337.41	340.46	3.05	588761	HYP	IXAC	7	6340	0.19	0.015	0.24	
340.46	343.51	3.05	588762	HYP	IXAC	7/2	12100	0.09	0.002	0.10	
343.51	346.56	3.05	588763	HYP	IXAC	7	12120	0.09	0.003	0.07	
346.56	349.61	3.05	588764	HYP	IXAC	7	11720	0.12	0.003	0.10	
349.61	352.65	3.04	588765	HYP	IXAC	6	11640	0.16	0.010	0.14	
352.65	355.70	3.05	588766	HYP	IXAC	6	12260	0.10	0.004	0.07	
355.70	358.75	3.05	588767	HYP	IXAC	6	12540	0.08	0.003	<0.03	
358.75	361.80	3.05	588768	HYP	IXAC	6	12260	0.20	0.009	0.07	
361.80	364.85	3.05	588769	HYP	IXAC	6	12960	0.26	0.006	0.21	
364.85	367.89	3.04	588770	HYP	IXAC	6	13500	0.26	0.004	0.17	
367.89	370.94	3.05	588771	HYP	IXAC	6	12960	0.23	0.058	0.14	
370.94	373.99	3.05	588772	HYP	IXAC	6	11640	0.19	0.003	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
373.99	377.04	3.05	588773	HYP	QMCX	7	10420	0.13	0.008	0.21	
377.04	380.09	3.05	588774	HYP	QMCX	7	11620	0.13	0.017	0.14	
380.09	383.13	3.04	588775	HYP	QMCX	7	12480	0.12	0.003	0.10	
383.13	386.18	3.05	588776	HYP	QMCX	7	13100	0.12	0.001	0.14	
386.18	389.23	3.05	588777	HYP	QMCX	7	12900	0.09	0.001	0.10	
389.23	392.28	3.05	588778	HYP	QMFX	7	12260	0.12	0.003	0.10	
392.28	395.33	3.05	588779	HYP	IXAC	7	12200	0.24	0.007	0.17	
395.33	398.37	3.04	588780	HYP	IXAC	7	13000	0.16	0.028	0.17	
398.37	401.42	3.05	588781	HYP	IXAC	7	11900	0.12	0.003	0.14	
401.42	404.47	3.05	588782	HYP	IXAC	7	12880	0.16	0.004	0.14	
404.47	407.52	3.05	588783	HYP	IXAC	7	12800	0.17	0.007	0.14	
407.52	410.57	3.05	588784	HYP	IXAC	7	12020	0.11	0.002	0.10	
410.57	413.61	3.04	588785	HYP	IXAC	7	12580	0.08	0.003	0.07	
413.61	416.66	3.05	588786	HYP	IXAC	7	12280	0.08	0.004	0.03	
416.66	419.71	3.05	588787	HYP	IXAC	7	13020	0.15	0.005	0.07	
419.71	422.76	3.05	588788	HYP	IXAC	7	12600	0.18	0.009	0.10	
422.76	425.81	3.05	588789	HYP	IXAC	7	12660	0.12	0.007	0.07	
425.81	428.85	3.04	588790	HYP	IXAC	7	13080	0.17	0.003	0.07	
428.85	431.90	3.05	588791	HYP	IXAC	7	12660	0.12	0.011	0.10	
431.90	434.95	3.05	588792	HYP	IXAC	7	12780	0.19	0.006	0.10	
434.95	438.00	3.05	588793	HYP	IXAC	7	12840	0.17	0.038	0.14	
438.00	441.05	3.05	588794	HYP	IXAC	7	13320	0.13	0.020	0.24	
441.05	444.09	3.04	588795	HYP	IXAC	7	11780	0.15	0.010	0.14	
444.09	447.14	3.05	588796	HYP	IXAC	7	11720	0.21	0.014	0.17	
447.14	450.19	3.05	588797	HYP	IXAC	7	12200	0.18	0.012	0.10	
450.19	453.24	3.05	588798	HYP	IXAC	7	12420	0.12	0.010	0.07	
453.24	456.29	3.05	588799	HYP	IXAC	7	12660	0.17	0.009	0.10	
456.29	459.33	3.04	588800	HYP	IXAC	7	12380	0.28	0.012	0.31	
459.33	462.38	3.05	588801	HYP	IXAC	7	13260	0.14	0.013	0.10	
462.38	465.43	3.05	588802	HYP	IXAC	7	11960	0.10	0.008	0.10	
465.43	468.48	3.05	588803	HYP	IXAC	7/1	12100	0.12	0.015	0.17	
468.48	471.53	3.05	588804	HYP	IXAC	7/1	12420	0.15	0.010	0.14	
471.53	474.57	3.04	588805	HYP	IXAC	7/1	13300	0.19	0.011	0.27	
474.57	477.32	2.75	588806	HYP	IXAC	7/1	11740	0.13	0.022	0.38	
477.32	480.67	3.35	588807	HYP	IXAC	7/1	11860	0.11	0.003	0.07	
480.67	483.72	3.05	588808	HYP	IXAC	7/1	12560	0.10	0.012	0.03	
483.72	486.77	3.05	588809	HYP	IXAC	7/1	13280	0.10	0.022	0.10	
486.77	489.81	3.04	588810	HYP	QMFX	7	12400	0.12	0.027	0.10	
489.81	492.86	3.05	588811	HYP	QMFX	7	11760	0.08	0.009	0.07	
492.86	495.91	3.05	588812	HYP	QMFX	7	11180	0.13	0.007	0.10	
495.91	498.96	3.05	588813	HYP	QMFX	7	12640	0.08	0.005	0.07	
498.96	502.01	3.05	588814	HYP	QMFX	7	11880	0.14	0.024	0.07	
502.01	505.05	3.04	588815	HYP	WRDR	7/1	10260	0.28	0.008	0.14	
505.05	508.10	3.05	588816	HYP	WRDR	7/1	12800	0.15	0.005	0.17	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
508.10	511.15	3.05	588817	HYP	WRDR	7/1	13040	0.11	0.027	0.10	
511.15	514.20	3.05	588818	HYP	WRDR	7/1	11840	0.19	0.022	0.91	
514.20	517.25	3.05	588819	HYP	WRDR	7/1	13160	0.20	0.085	0.25	
517.25	520.29	3.04	588820	HYP	WRDR	7/1	12760	0.16	0.009	0.17	
520.29	523.34	3.05	588821	HYP	WRDR	7/1	12620	0.20	0.012	0.14	
523.34	526.39	3.05	588822	HYP	WRDR	7/1	12420	0.15	0.004	0.07	
526.39	529.44	3.05	588823	HYP	WRDR	7/1	12940	0.18	0.009	0.14	
529.44	532.49	3.05	588824	HYP	WRDR	7/1	12980	0.19	0.013	0.14	
532.49	535.53	3.04	588825	HYP	WRDR	7/1	13280	0.10	0.007	0.10	
535.53	538.58	3.05	588826	HYP	WRDR	7/1	12300	0.14	0.013	0.14	
538.58	541.63	3.05	588827	HYP	WRDR	7/1	13580	0.06	0.005	0.03	
541.63	544.68	3.05	588828	HYP	WRDR	7/1	12380	0.10	0.002	0.10	
544.68	547.73	3.05	588829	HYP	WRDR	7/1	13080	0.12	0.012	0.10	
547.73	550.77	3.04	588830	HYP	WRDR	7/1	12400	0.20	0.014	0.21	
550.77	553.82	3.05	588831	HYP	WRDR	7/1	12480	0.17	0.011	0.17	
553.82	556.87	3.05	588832	HYP	WRDR	7/1	13260	0.15	0.005	0.10	
556.87	559.92	3.05	588833	HYP	WRDR	7/1	12480	0.11	0.006	0.03	
559.92	562.97	3.05	588834	HYP	WRDR	7/1	12500	0.09	0.016	0.03	
562.97	566.01	3.04	588835	HYP	WRDR	7/1	13020	0.06	0.010	<0.03	
566.01	569.06	3.05	588836	HYP	WRDR	7/1	12520	0.06	0.002	<0.03	
569.06	572.11	3.05	588837	HYP	WRDR	7/1	12200	0.11	0.010	0.10	
572.11	573.33	1.22	588838	HYP	WRDR	7/1	2720	0.07	0.005	0.03	
573.33	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-218	Total Depth	435.86 m
Northing	255,027.79	Casing Depth	16.76 m Left Out
Easting	111,531.27	Survey Data	Azimuth / Dip / Instrument
Elevation	1174.66 m	Collar	-90.0°
Core Size	HQ	158.50 m	280° / -88.0° / Sperry Sun
Drilling Started	September 26, 1993	292.61 m	294° / -88.5° / Sperry Sun
Drilling Finished	October 3, 1993		
Logged by	M. Dittrick		

Purpose/Target: Delineation drill hole to test mineralization to depth in the eastern portion of the deposit.

Comments: Mineralization in the upper granodiorite/diorite and intrusion breccia was average but very low in the lowermost quartz monzonite.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	18.29	18.29		OVB							
18.29	21.34	3.05	589032	CAP	WRDR	3	6460	0.05	0.013	0.24	
21.34	24.38	3.04	589033	CAP	WRDR	3	6700	0.03	0.013	0.24	
24.38	27.43	3.05	589034	CAP	WRDR	3	7160	0.05	0.013	0.21	
27.43	30.48	3.05	589035	CAP	WRDR	3	5880	0.05	0.019	0.31	
30.48	33.53	3.05	589036	CAP	WRDR	3	3720	0.04	0.011	0.24	
33.53	36.58	3.05	589037	CAP	WRDR	3	8080	0.11	0.013	0.24	
36.58	39.62	3.04	589038	CAP	WRGD	3	7660	0.17	0.023	0.27	
39.62	42.67	3.05	589039	CAP	WRGD	3	8060	0.33	0.027	0.31	
42.67	45.72	3.05	589040	SUS	WRGD	3	11060	0.70	0.018	0.34	
45.72	48.77	3.05	589041	SUS	WRGD	3	8620	0.66	0.022	0.34	
48.77	51.82	3.05	589042	SUS	WRDR	7/3	8480	0.34	0.009	0.14	
51.82	54.86	3.04	589043	SUS	WRDR	7/3	9780	0.24	0.014	0.24	
54.86	57.91	3.05	589044	HYP	WRDR	7/3	7260	0.15	0.011	0.14	
57.91	60.96	3.05	589045	HYP	WRDR	7/3	11400	0.38	0.006	0.41	
60.96	64.01	3.05	589046	HYP	WRDR	7	9640	0.57	0.003	0.55	
64.01	67.06	3.05	589047	HYP	WRDR	7	9700	0.44	0.014	0.41	
67.06	70.10	3.04	589048	HYP	WRDR	7	8460	0.35	0.009	0.31	
70.1	73.15	3.05	589049	HYP	WRDR	7	10600	0.27	0.010	0.31	
73.15	76.20	3.05	589050	HYP	WRDR	7	10640	0.32	0.008	0.62	
76.2	79.25	3.05	589051	HYP	WRDR	7	8460	0.19	0.015	0.24	
79.25	82.30	3.05	589052	HYP	WRDR	7	11620	0.25	0.014	0.27	
82.3	85.34	3.04	589053	HYP	WRDR	7	11580	0.20	0.028	0.45	
85.34	88.39	3.05	589054	HYP	WRDR	7	12340	0.32	0.021	0.45	
88.39	91.44	3.05	589055	HYP	WRDR	3/7	10000	0.36	0.013	0.38	
91.44	94.49	3.05	589056	HYP	WRDR	3/7	11320	0.20	0.018	0.24	
94.49	97.54	3.05	589057	HYP	WRDR	7	11520	0.50	0.024	0.62	
97.54	100.58	3.04	589058	HYP	WRGD	7	12740	0.29	0.009	0.31	
100.58	103.63	3.05	589059	HYP	WRGD	7	9060	0.39	0.029	0.48	
103.63	106.68	3.05	589060	HYP	WRGD	7	11680	0.19	0.008	0.24	
106.68	109.73	3.05	589061	HYP	WRGD	7	9740	0.17	0.020	0.17	
109.73	112.78	3.05	589062	HYP	WRGD	7	11420	0.52	0.026	0.62	
112.78	115.82	3.04	589063	HYP	WRGD	7	13000	0.62	0.035	0.69	
115.82	118.87	3.05	589064	HYP	WRDR	7/1	14160	0.55	0.006	0.62	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
118.87	121.92	3.05	589065	HYP	WRDR	7/1	13700	0.30	0.031	0.41	
121.92	124.97	3.05	589066	HYP	WRDR	7/1	13920	0.52	0.005	0.65	
124.97	128.02	3.05	589067	HYP	WRDR	7/1	13300	0.27	0.006	0.24	
128.02	131.06	3.04	589068	HYP	WRDR	7/1	14240	0.42	0.009	0.45	
131.06	134.11	3.05	589069	HYP	WRDR	7/1	13900	0.26	0.009	0.24	
134.11	137.16	3.05	589070	HYP	WRDR	7/1	14580	0.12	0.003	0.14	
137.16	140.21	3.05	589071	HYP	WRDR	7/1	14220	0.24	0.017	0.31	
140.21	143.26	3.05	589072	HYP	WRDR	7/1	13380	0.17	0.018	0.17	
143.26	146.30	3.04	589073	HYP	WRDR	7/1	14080	0.18	0.019	0.17	
146.30	149.35	3.05	589074	HYP	WRDR	7/1	14080	0.15	0.015	0.14	
149.35	152.40	3.05	589075	HYP	WRDR	7/1	13000	0.11	0.019	0.10	
152.40	155.45	3.05	589076	HYP	WRDR	7/1	12820	0.18	0.024	0.21	
155.45	158.50	3.05	589077	HYP	WRDR	7	15440	0.15	0.010	0.17	
158.50	161.54	3.04	589078	HYP	WRDR	7	14620	0.32	0.018	0.38	
161.54	164.59	3.05	589079	HYP	WRDR	7/1	13540	0.22	0.038	0.31	
164.59	167.64	3.05	589080	HYP	IXBX	7	12880	0.14	0.012	0.21	
167.64	170.69	3.05	589081	HYP	IXBX	7	13580	0.11	0.011	0.10	
170.69	173.74	3.05	589082	HYP	IXBX	7	14220	0.23	0.009	0.21	
173.74	176.78	3.04	589083	HYP	IXBX	7	13780	0.38	0.017	0.41	
176.78	179.83	3.05	589084	HYP	IXBX	7	14000	0.18	0.009	0.14	
179.83	182.88	3.05	589085	HYP	IXBX	7	12400	0.12	0.012	0.10	
182.88	185.93	3.05	589086	HYP	IXBX	7	12160	0.09	0.015	0.10	
185.93	188.98	3.05	589087	HYP	IXBX	7	12360	0.16	0.007	0.17	
188.98	192.02	3.04	589088	HYP	IXBX	7	14060	0.21	0.017	0.38	
192.02	195.07	3.05	589089	HYP	IXBX	7	13900	0.09	0.028	0.10	
195.07	198.12	3.05	589090	HYP	IXBX	7	12920	0.12	0.059	0.14	
198.12	201.17	3.05	589091	HYP	IXBX	7	11400	0.11	0.028	0.14	
201.17	204.22	3.05	589092	HYP	IXBX	7	12500	0.13	0.012	0.17	
204.22	207.26	3.04	589093	HYP	IXBX	7	12520	0.10	0.014	0.10	
207.26	210.31	3.05	589094	HYP	IXBX	7	13260	0.15	0.033	0.17	
210.31	213.36	3.05	589095	HYP	IXBX	7	12900	0.16	0.034	0.17	
213.36	216.41	3.05	589096	HYP	IXBX	7	13600	0.10	0.075	0.17	
216.41	219.46	3.05	589097	HYP	IXBX	7	10180	0.15	0.019	0.17	
219.46	222.50	3.04	589098	HYP	IXBX	3/7	9180	0.21	0.020	0.31	
222.50	225.55	3.05	589099	HYP	IXBX	3/7	8900	0.23	0.012	0.21	
225.55	228.60	3.05	589100	HYP	IXBX	7	12720	0.21	0.023	0.24	
228.60	231.65	3.05	589101	HYP	IXBX	7	13000	0.22	0.013	0.24	
231.65	234.70	3.05	589102	HYP	IXBX	7	11600	0.34	0.028	0.31	
234.70	237.74	3.04	589103	HYP	IXBX	7	13840	0.17	0.045	0.14	
237.74	240.79	3.05	589104	HYP	IXBX	7	13200	0.14	0.023	0.14	
240.79	243.84	3.05	589105	HYP	IXBX	7	12860	0.13	0.016	0.10	
243.84	246.89	3.05	589106	HYP	IXBX	7	12580	0.10	0.035	0.10	
246.89	249.94	3.05	589107	HYP	IXBX	7	13160	0.13	0.015	0.14	
249.94	252.98	3.04	589108	HYP	IXBX	7	11880	0.15	0.009	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
252.98	256.03	3.05	589109	HYP	IXBX	7	12540	0.13	0.008	0.10	
256.03	259.08	3.05	589110	HYP	IXBX	7	12680	0.09	0.032	0.07	
259.08	262.13	3.05	589111	HYP	IXBX	7	13900	0.09	0.017	0.10	
262.13	265.18	3.05	589112	HYP	IXBX	7	13800	0.17	0.025	0.24	
265.18	268.22	3.04	589113	HYP	IXBX	7	12020	0.12	0.029	0.10	
268.22	271.27	3.05	589114	HYP	IXBX	7	13260	0.12	0.074	0.14	
271.27	274.32	3.05	589115	HYP	IXBX	7	12820	0.15	0.091	0.10	
274.32	277.37	3.05	589116	HYP	IXBX	7	13180	0.15	0.027	0.10	
277.37	280.42	3.05	589117	HYP	IXBX	7	14200	0.09	0.009	0.07	
280.42	283.46	3.04	589118	HYP	IXBX	7	12200	0.14	0.026	0.14	
283.46	286.51	3.05	589119	HYP	IXBX	7	12080	0.14	0.009	0.10	
286.51	289.56	3.05	589120	HYP	IXBX	7	12000	0.13	0.110	0.10	
289.56	292.61	3.05	589121	HYP	IXBX	7	12820	0.22	0.014	0.24	
292.61	295.66	3.05	589122	HYP	QMFX	7	10740	0.10	0.022	0.10	
295.66	298.70	3.04	589123	HYP	QMFX	7	11500	0.06	0.035	0.07	
298.70	301.75	3.05	589124	HYP	QMFX	7	12160	0.06	0.158	0.07	
301.75	304.80	3.05	589125	HYP	QMFX	7	11360	0.06	0.013	0.03	
304.80	307.85	3.05	589126	HYP	QMFX	7	13100	0.13	0.029	0.14	
307.85	310.90	3.05	589127	HYP	QMFX	7	13480	0.18	0.043	0.21	
310.90	313.94	3.04	589128	HYP	QMFX	7	12400	0.15	0.027	0.17	
313.94	316.99	3.05	589129	HYP	QMFX	7	12960	0.12	0.028	0.10	
316.99	320.04	3.05	589130	HYP	QMFX	7	13120	0.25	0.032	0.21	
320.04	323.09	3.05	589131	HYP	QMFX	7	11980	0.08	0.040	0.07	
323.09	326.14	3.05	589132	HYP	QMFX	7	12200	0.12	0.037	0.10	
326.14	329.18	3.04	589133	HYP	QMFX	7	11920	0.09	0.021	0.07	
329.18	332.23	3.05	589134	HYP	QMFX	7	12260	0.03	0.087	0.03	
332.23	335.28	3.05	589135	HYP	QMFX	7	11740	0.05	0.136	0.03	
335.28	338.33	3.05	589136	HYP	QMFX	7	10500	0.06	0.022	0.07	
338.33	341.38	3.05	589137	HYP	QMFX	7	11600	0.05	0.070	0.07	
341.38	344.42	3.04	589138	HYP	QMFX	7	11000	0.05	0.029	0.07	
344.42	347.47	3.05	589139	HYP	QMFX	7	10800	0.06	0.063	0.03	
347.47	350.52	3.05	589140	HYP	QMFX	7	12640	0.06	0.049	0.07	
350.52	353.57	3.05	589141	HYP	QMFX	7	11680	0.05	0.078	0.03	
353.57	356.62	3.05	589142	HYP	QMFX	7	11860	0.05	0.028	0.03	
356.62	359.66	3.04	589143	HYP	QMFX	7	12340	0.06	0.027	0.10	
359.66	362.71	3.05	589144	HYP	QMFX	7	11400	0.05	0.051	0.07	
362.71	365.76	3.05	589145	HYP	QMFX	7	12160	0.06	0.029	0.03	
365.76	368.81	3.05	589146	HYP	QMFX	7	12120	0.06	0.052	0.07	
368.81	371.86	3.05	589147	HYP	WRGD	7	12600	0.08	0.025	0.07	
371.86	374.90	3.04	589148	HYP	WRGD	7	12600	0.14	0.031	0.10	
374.90	377.95	3.05	589149	HYP	WRGD	7	11800	0.07	0.060	0.07	
377.95	381.00	3.05	589150	HYP	WRGD	7	11620	0.08	0.060	0.07	
381.00	384.05	3.05	589151	HYP	WRGD	7	11400	0.10	0.039	0.03	
384.05	387.10	3.05	589152	HYP	WRGD	7	8100	0.08	0.049	0.10	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
387.10	390.14	3.04	589153	HYP	WRGD	7	11860	0.07	0.074	0.07	
390.14	393.19	3.05	589154	HYP	WRGD	7	12420	0.07	0.065	0.10	
393.19	396.24	3.05	589155	HYP	WRGD	7	12140	0.08	0.052	0.10	
396.24	399.29	3.05	589156	HYP	QMFX	7	11500	0.14	0.025	0.10	
399.29	402.34	3.05	589157	HYP	QMFX	7	18760	0.09	0.017	0.07	
402.34	405.38	3.04	589158	HYP	QMFX	7	8400	0.12	0.012	0.10	
405.38	408.43	3.05	589159	HYP	QMFX	7	7840	0.07	0.008	0.07	
408.43	411.48	3.05	589160	HYP	QMFX	7	11940	0.07	0.040	0.10	
411.48	414.53	3.05	589161	HYP	QMFX	7	11340	0.10	0.016	0.07	
414.53	417.58	3.05	589162	HYP	QMFX	7	12120	0.16	0.199	0.07	
417.58	420.62	3.04	589163	HYP	QMFX	7	10600	0.09	0.080	0.03	
420.62	423.67	3.05	589164	HYP	QMFX	7	11360	0.09	0.019	0.10	
423.67	426.72	3.05	589165	HYP	QMFX	7	11920	0.09	0.028	0.07	
426.72	429.77	3.05	589166	HYP	QMFX	7	12060	0.08	0.098	0.07	
429.77	432.82	3.05	589167	HYP	QMFX	7	12580	0.08	0.020	0.07	
432.82	435.86	3.04	589168	HYP	QMFX	7	10980	0.06	0.039	0.03	
435.86	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-219	Total Depth	383.74 m		
Northing	255,234.58	Casing Depth	26.2 m		Left Out
Easting	111,098.93	Survey Data	Azimuth	Dip	Instrument
Elevation	1218.22 m	Collar		-90.0°	Brunton Compass
Core Size	HQ to 265.48 m; NQ to end	154.5 m		-90.0°	Sperry Sun
Drilling Started	September 27, 1993	306.9 m	185°	-89.5°	Sperry Sun
Drilling Finished	October 5, 1993				
Logged by	M.P. Phillips				

Purpose/Target: Determine extent of mineralization east of hole 93-213 and north of hole 93-184.

Comments: Copper mineralization was disappointing. This drill hole defines the northeastern limits of mineralization in this area.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	17.37	17.37		OVB							
17.37	20.42	3.05	565763	CAP	QMFX	3	1280	0.07	0.021	0.14	
20.42	23.47	3.05	565764	CAP	QMFX	3	1720	0.08	0.015	0.17	
23.47	26.52	3.05	565765	CAP	QMFX	3	1620	0.08	0.028	0.10	
26.52	29.57	3.05	565766	CAP	QMFX	3	8280	0.02	0.032	0.10	
29.57	32.61	3.04	565767	CAP	QMFX	3	6340	0.03	0.032	0.14	
32.61	35.66	3.05	565768	TRN	QMFX	3/7	8920	0.04	0.037	0.07	
35.66	38.71	3.05	565769	SUS	QMFX	7/3	8560	0.10	0.076	0.10	
38.71	41.15	2.44	565770	SUS	QMFX	5/7	6900	0.13	0.071	0.17	
41.15	43.89	2.74	565771	SUS	QMFX	5/7	8440	0.13	0.117	0.21	
43.89	47.55	3.66	565772	SUS	QMFX	5/7	12100	0.11	0.021	0.14	
47.55	50.60	3.05	565773	SUS	QMFX	7	10460	0.15	0.039	0.07	
50.60	53.95	3.35	565774	SUS	QMFX	7	11600	0.19	0.024	0.14	
53.95	57.00	3.05	565775	SUS	QMFX	7	11740	0.20	0.039	0.17	
57.00	60.05	3.05	565776	SUS	QMFX	7	12140	0.13	0.071	0.07	
60.05	63.09	3.04	565777	SUS	QMFX	7	11840	0.14	0.111	0.14	
63.09	66.14	3.05	565778	SUS	QMFX	7	12260	0.21	0.054	0.14	
66.14	69.19	3.05	565779	SUS	QMFX	7	12270	0.15	0.036	0.10	
69.19	72.24	3.05	565780	SUS	QMFX	7	10380	0.14	0.075	0.14	
72.24	75.29	3.05	565781	SUS	QMFX	7	10720	0.10	0.070	0.07	
75.29	78.33	3.04	565782	TRN	QMFX	7	12040	0.10	0.089	0.07	
78.33	80.16	1.83	565783	TRN	QMFX	7	5860	0.18	0.038	0.07	
80.16	82.60	2.44	565784	TRN	QMFX	7	7640	0.12	0.031	0.10	
82.60	84.43	1.83	565785	TRN	QMFX	7	7960	0.13	0.035	0.10	
84.43	87.48	3.05	565786	TRN	QMFX	7	11660	0.12	0.028	0.14	
87.48	90.22	2.74	565787	TRN	WRGF	7	7340	0.13	0.036	0.17	
90.22	93.27	3.05	565788	TRN	WRGF	7	12440	0.21	0.043	0.31	
93.27	96.32	3.05	565789	HYP	WRGF	7	11700	0.10	0.033	0.10	
96.32	99.36	3.04	565790	HYP	WRGF	7	14320	0.16	0.044	0.24	
99.36	102.41	3.05	565791	HYP	WRGF	7	12620	0.14	0.079	0.21	
102.41	105.77	3.36	565792	HYP	WRDF	7	14180	0.30	0.039	1.26	
105.77	108.81	3.04	565793	HYP	WRDF	7	10700	0.19	0.075	0.21	
108.81	111.86	3.05	565794	HYP	QMFX	7	11060	0.22	0.153	0.31	
111.86	114.91	3.05	565795	HYP	QMFX	7	12300	0.25	0.159	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
114.91	117.96	3.05	565796	HYP	QMFX	7	11860	0.31	0.082	0.31	
117.96	121.01	3.05	565797	HYP	WRGF	7	10220	0.30	0.035	0.48	
121.01	124.05	3.04	565798	HYP	WRGF	7	11060	0.19	0.047	0.21	
124.05	127.10	3.05	565799	HYP	IXAF	7	12160	0.14	0.030	0.17	
127.10	130.15	3.05	565800	HYP	IXAC	7	12100	0.15	0.031	0.21	
130.15	133.20	3.05	565801	HYP	WRDF	7	10820	0.16	0.049	0.21	
133.20	136.25	3.05	565802	HYP	WRDF	7	12200	0.11	0.067	0.14	
136.25	139.29	3.04	565803	HYP	QMFX	7	10220	0.16	0.050	0.14	
139.29	142.34	3.05	565804	HYP	QMFX	7	9800	0.24	0.156	0.24	
142.34	145.39	3.05	565805	HYP	QMFX	7	12240	0.16	0.032	0.17	
145.39	148.44	3.05	565806	HYP	QMFX	7	10660	0.19	0.048	0.21	
148.44	150.57	2.13	565807	HYP	QMFX	7	7360	0.11	0.064	0.10	
150.57	154.53	3.96	565808	HYP	QMFX	7	13780	0.13	0.018	0.14	
154.53	157.58	3.05	565809	HYP	IXAF	7	12020	0.11	0.064	0.14	
157.58	160.63	3.05	565810	HYP	WRGF	7	9680	0.06	0.035	0.10	
160.63	163.68	3.05	565811	HYP	WRGF	7	10320	0.10	0.041	0.14	
163.68	166.73	3.05	565812	HYP	WRGF	7	10260	0.14	0.031	0.17	
166.73	169.77	3.04	565813	HYP	WRGF	7	11500	0.11	0.019	0.14	
169.77	172.82	3.05	565814	HYP	WRDF	7	10380	0.04	0.014	0.07	
172.82	175.87	3.05	565815	HYP	WRGF	7	11900	0.09	0.033	0.27	
175.87	178.00	2.13	565816	HYP	WRGF	7	6880	0.04	0.017	0.03	
178.00	180.75	2.75	565817	HYP	WRDF	7	9300	0.06	0.040	0.10	
180.75	183.79	3.04	565818	HYP	WRDF	7	12180	0.06	0.028	0.07	
183.79	185.01	1.22	565819	HYP	WRDF	7	5260	0.26	0.023	0.17	
185.01	188.06	3.05	565820	HYP	WRDF	7	12200	0.08	0.024	0.10	
188.06	191.11	3.05	565821	HYP	WRDF	7	12660	0.09	0.073	0.21	
191.11	194.16	3.05	565822	HYP	QMFX	7	12480	0.11	0.038	0.10	
194.16	197.21	3.05	565823	HYP	QMFX	7	10300	0.13	0.103	0.14	
197.21	200.25	3.04	565824	HYP	IXAF	7	12700	0.09	0.042	0.17	
200.25	203.30	3.05	565825	HYP	IXAF	7	12420	0.13	0.100	0.21	
203.30	206.35	3.05	565826	HYP	QMFX	7	11740	0.15	0.102	0.17	
206.35	209.40	3.05	565827	HYP	QMFX	7	12380	0.11	0.067	0.14	
209.40	212.45	3.05	565828	HYP	QMFX	7	11940	0.09	0.030	0.17	
212.45	215.49	3.04	565829	HYP	IXBX	7	10620	0.05	0.032	0.07	
215.49	218.54	3.05	565830	HYP	IXBX	7	11200	0.07	0.043	0.10	
218.54	221.59	3.05	565831	HYP	IXAC	7	13640	0.08	0.069	0.10	
221.59	224.64	3.05	565832	HYP	WRGF	7	11680	0.08	0.057	0.10	
224.64	227.69	3.05	565833	HYP	WRGF	7	11860	0.09	0.085	0.14	
227.69	230.73	3.04	565834	HYP	WRGF	7	12240	0.06	0.040	0.10	
230.73	233.78	3.05	565835	HYP	WRGF	7	11160	0.12	0.045	0.14	
233.78	236.83	3.05	565836	HYP	QMFZ	7	12160	0.10	0.026	0.17	
236.83	239.88	3.05	565837	HYP	QMFZ	7	12440	0.04	0.034	0.10	
239.88	242.93	3.05	565838	HYP	QMFZ	7	13180	0.14	0.009	0.17	
242.93	245.97	3.04	565839	HYP	WRDR	7	12260	0.10	0.049	0.21	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
245.97	249.02	3.05	565840	HYP	WRDR	7	12920	0.10	0.027	0.14	
249.02	252.07	3.05	565841	HYP	WRDF	7	12080	0.09	0.019	0.14	
252.07	255.12	3.05	565842	HYP	WRDF	7	12140	0.05	0.046	0.10	
255.12	258.17	3.05	565843	HYP	WRDF	7	12260	0.06	0.057	0.07	
258.17	261.21	3.04	565844	HYP	WRDF	7	11700	0.14	0.052	0.21	
261.21	264.26	3.05	565845	HYP	WRDF	7	11000	0.10	0.022	0.10	
264.26	265.48	1.22	565846	HYP	WRDF	7	5240	0.09	0.063	0.14	
265.48	267.31	1.83	565847	HYP	WRDF	7	3240	0.16	0.017	0.17	
267.31	270.36	3.05	565848	HYP	WRDF	7	7420	0.07	0.021	0.10	
270.36	273.41	3.05	565849	HYP	WRDF	7	7180	0.09	0.044	0.10	
273.41	276.45	3.04	565850	HYP	WRDF	7	6000	0.08	0.052	0.14	
276.45	279.50	3.05	565851	HYP	WRDF	7	6400	0.07	0.055	0.07	
279.50	282.55	3.05	565852	HYP	WRDF	7	6800	0.08	0.063	0.10	
282.55	285.60	3.05	565853	HYP	WRDF	7	5500	0.16	0.113	0.31	
285.60	288.65	3.05	565854	HYP	WRDF	7	6180	0.05	0.043	0.10	
288.65	291.69	3.04	565855	HYP	WRGF	7	6560	0.04	0.038	0.07	
291.69	294.74	3.05	565856	HYP	IXAF	7	6280	0.06	0.145	0.10	
294.74	297.79	3.05	565857	HYP	QMFX	7	5780	0.02	0.025	0.03	
297.79	300.84	3.05	565858	HYP	QMFX	7	6140	0.05	0.169	0.10	
300.84	303.89	3.05	565859	HYP	IXAC	7	6400	0.03	0.025	0.07	
303.89	306.93	3.04	565860	HYP	IXAC	7	6200	0.05	0.039	0.10	
306.93	309.98	3.05	565861	HYP	IXAC	7	6360	0.04	0.014	0.10	
309.98	313.03	3.05	565862	HYP	IXAC	7	6620	0.04	0.040	0.07	
313.03	316.08	3.05	565863	HYP	IXAC	7	6240	0.04	0.032	0.03	
316.08	319.13	3.05	565864	HYP	QMCX	7	6420	0.03	0.020	0.07	
319.13	322.17	3.04	565865	HYP	QMCX	7	6260	0.03	0.035	0.03	
322.17	325.22	3.05	565866	HYP	QMCX	7	7300	0.04	0.035	0.10	
325.22	328.27	3.05	565867	HYP	QMCX	7	6060	0.04	0.057	0.07	
328.27	331.32	3.05	565868	HYP	QMCX	7	6460	0.04	0.046	0.03	
331.32	334.37	3.05	565869	HYP	IXAF	7	7020	0.05	0.082	0.14	
334.37	337.41	3.04	565870	HYP	IXAF	7	6280	0.04	0.035	0.07	
337.41	340.46	3.05	565871	HYP	IXAF	7	6700	0.04	0.264	0.03	
340.46	343.51	3.05	565872	HYP	QMCX	7	6180	0.06	0.113	0.07	
343.51	346.56	3.05	565873	HYP	QMCX	7	6940	0.04	0.038	<0.03	
346.56	349.61	3.05	565874	HYP	IXAF	7	7080	0.04	0.041	0.03	
349.61	352.65	3.04	565875	HYP	QMCX	7	6740	0.04	0.036	0.03	
352.65	355.70	3.05	565876	HYP	QMCX	7	7500	0.07	0.049	0.14	
355.70	358.75	3.05	565877	HYP	WRDF	7	6540	0.05	0.049	0.10	
358.75	361.80	3.05	565878	HYP	IXAF	7	6460	0.03	0.034	0.03	
361.80	364.85	3.05	565879	HYP	IXAF	7	6380	0.04	0.097	0.03	
364.85	367.89	3.04	565880	HYP	IXAF	7	6520	0.15	0.015	0.31	
367.89	370.94	3.05	565881	HYP	IXAF	7	6320	0.03	0.033	0.07	
370.94	373.99	3.05	565882	HYP	IXAF	7	6260	0.03	0.093	0.03	
373.99	377.04	3.05	565883	HYP	QMIE	7	5820	0.03	0.050	0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
377.04	380.09	3.05	565884	HYP	IXAF	7	6020	0.06	0.022	0.07	
380.09	383.74	3.65	565885	HYP	IXAF	7	8000	0.13	0.040	0.21	
383.74	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-220	Total Depth	407.52 m		
Northing	255,029.59	Casing Depth	26.21 m		Left Out
Easting	111,450.43	Survey Data	Azimuth	Dip	Instrument
Elevation	1179.05 m	Collar		-90.00°	Brunton Compass
Core Size	HQ	159.11 m	209°	-88.75°	Sperry Sun
Drilling Started	September 29, 1993	306.93 m	214°	-88.25°	Sperry Sun
Drilling Finished	October 11, 1993				
Logged by	L. Brommeland/T. Case				

Purpose/Target: To test continuity on the 255,045N drill fence.

Comments: A limited strong zone of supergene sulphide mineralization intersected but lacks strong hypogene mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	24.99	24.99		OVB							
24.99	27.74	2.75	566833	SUS	QMFX	7/5	6040	0.05	0.013	0.07	
27.74	31.39	3.65	566834	SUS	QMFX	7/5	10460	0.07	0.013	0.07	
31.39	33.83	2.44	566835	SOX	QMFX	7/5	8180	0.18	0.022	0.10	
33.83	35.97	2.14	566836	SUS	QMFX	7/5	5760	0.12	0.015	0.10	
35.97	39.01	3.04	566837	SUS	QMFX	7/5	2740	0.03	0.016	0.07	
39.01	43.28	4.27	566838	SUS	QMFX	7/5	4900	0.18	0.028	0.17	
43.28	46.94	3.66	566839	SUS	QMFX	7/5	6180	0.13	0.030	0.10	
46.94	49.99	3.05	566840	SUS	QMFX	7/5	7400	0.06	0.010	0.10	
49.99	53.95	3.96	566841	SUS	QMFX	7/5	12980	0.11	0.015	0.14	
53.95	57.61	3.66	566842	SUS	WRDF	7	8240	0.05	0.006	0.14	
57.61	60.05	2.44	566843	SUS	WRDF	7	5480	0.05	0.004	0.17	
60.05	63.70	3.65	566844	SUS	WRDF	7	7960	0.06	0.005	0.14	
63.70	66.14	2.44	566845	SUS	WRDF	7	6180	0.04	0.003	0.10	
66.14	69.19	3.05	566846	SUS	WRDF	7	7880	0.12	0.011	0.10	
69.19	72.24	3.05	566847	SUS	WRDF	7	6320	0.14	0.007	0.21	
72.24	75.29	3.05	566848	SUS	WRDF	7	10320	0.32	0.006	0.24	
75.29	78.03	2.74	566849	SUS	WRDF	7	5120	0.17	0.005	0.17	
78.03	81.38	3.35	566850	SUS	WRDF	7	7340	0.25	0.008	0.21	
81.38	84.43	3.05	566851	SUS	WRDF	7	10160	0.45	0.015	0.27	
84.43	87.17	2.74	566852	SUS	WRDF	7	6980	0.39	0.176	0.14	
87.17	90.22	3.05	566853	SUS	WRDF	7	9280	0.28	0.006	0.03	
90.22	92.96	2.74	566854	TRN	WRDF	7	4020	0.43	0.017	0.27	
92.96	95.71	2.75	566855	TRN	WRDF	7	3180	0.23	0.009	0.14	
95.71	96.93	1.22	566856	HYP	WRDF	7	3840	0.16	0.006	0.07	
96.93	99.36	2.43	566857	HYP	WRDF	7	6120	0.17	0.007	0.07	
99.36	102.11	2.75	566858	HYP	WRDF	7	8520	0.24	0.010	0.14	
102.11	105.16	3.05	566859	HYP	WRDF	7	10200	0.41	0.047	0.72	
105.16	108.20	3.04	566860	HYP	WRDF	7	7540	0.29	0.049	0.27	
108.20	111.25	3.05	566861	HYP	WRDF	7	3280	0.40	0.002	0.45	
111.25	114.91	3.66	566862	HYP	WRDF	7	740	0.12	0.004	0.14	
114.91	117.96	3.05	566863	HYP	WRDF	7	3380	0.16	0.013	0.17	
117.96	121.01	3.05	566864	HYP	WRDF	7	8440	0.17	0.008	0.10	
121.01	124.05	3.04	566865	HYP	WRDF	7	8920	0.16	0.023	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
124.05	126.80	2.75	566866	HYP	WRDF	7	9340	0.10	0.012	0.27	
126.80	129.84	3.04	566867	HYP	WRDF	7	5420	0.15	0.004	0.24	
129.84	133.20	3.36	566868	HYP	WRDF	7	13600	0.16	0.012	0.14	
133.20	136.25	3.05	566869	HYP	F/ZN	7/3	11320	0.17	0.072	0.21	
136.25	139.29	3.04	566870	HYP	LTDA	7	11220	0.28	0.010	0.27	
139.29	142.34	3.05	566871	HYP	F/ZN	3/7	13060	0.55	0.008	1.17	
142.34	145.39	3.05	566872	HYP	F/ZN	3/7	14780	0.26	0.023	0.24	
145.39	148.44	3.05	566873	HYP	F/ZN	3/7	12960	0.28	0.039	0.24	
148.44	151.49	3.05	566874	HYP	QMFX	7/3	11880	0.19	0.060	0.17	
151.49	154.53	3.04	566875	HYP	QMFX	7/3	12540	0.21	0.048	0.17	
154.53	157.58	3.05	566876	HYP	QMFX	7/3	11000	0.16	0.041	0.14	
157.58	160.63	3.05	566877	HYP	QMFX	7/3	12200	0.20	0.044	0.17	
160.63	163.07	2.44	566878	HYP	QMFX	7/3	6340	0.20	0.158	0.14	
163.07	166.73	3.66	566879	HYP	QMFX	6	15040	0.18	0.067	0.17	
166.73	169.77	3.04	566880	HYP	QMFX	7	11760	0.14	0.025	0.10	
169.77	172.82	3.05	566881	HYP	QMFX	7	12500	0.16	0.096	0.14	
172.82	175.87	3.05	566882	HYP	QMFX	7	11480	0.23	0.124	0.21	
175.87	178.92	3.05	566883	HYP	QMFX	7	13100	0.24	0.023	0.24	
178.92	181.97	3.05	566884	HYP	QMFX	7	11560	0.14	0.072	0.14	
181.97	185.01	3.04	566885	HYP	QMFX	7/5	11600	0.07	0.120	0.07	
185.01	188.06	3.05	566886	HYP	QMFX	7/5	10620	0.10	0.072	0.07	
188.06	191.11	3.05	566887	HYP	QMFX	7/5	11180	0.11	0.102	0.14	
191.11	194.16	3.05	566888	HYP	QMFX	7/5	12800	0.11	0.073	0.17	
194.16	197.05	2.89	566889	HYP	QMFX	7/5	14120	0.17	0.034	0.14	
197.05	200.25	3.20	566890	HYP	QMFX	7/5	12100	0.14	0.120	0.10	
200.25	203.30	3.05	566891	HYP	QMFX	7	10760	0.20	0.054	0.21	
203.30	206.35	3.05	566892	HYP	QMFX	7	11720	0.10	0.106	0.10	
206.35	209.40	3.05	566893	HYP	QMFX	7	10900	0.09	0.114	0.03	
209.40	212.45	3.05	566894	HYP	QMFX	7	11460	0.13	0.034	0.07	
212.45	215.49	3.04	566895	HYP	QMFX	7	13080	0.20	0.054	0.17	
215.49	218.54	3.05	566896	HYP	WRGD	7	11780	0.09	0.110	0.10	
218.54	221.59	3.05	566897	HYP	WRGD	7	12700	0.07	0.048	0.07	
221.59	224.64	3.05	566898	HYP	WRGD	7	12280	0.06	0.045	0.03	
224.64	227.69	3.05	566899	HYP	WRGD	7	12460	0.07	0.084	0.10	
227.69	230.73	3.04	566900	HYP	WRGD	7	13300	0.07	0.031	0.07	
230.73	233.78	3.05	566901	HYP	WRGD	7	13020	0.05	0.025	0.00	
233.78	236.83	3.05	566902	HYP	WRGD	7	12480	0.09	0.032	0.03	
236.83	239.88	3.05	566903	HYP	WRGD	7	13880	0.22	0.032	0.14	
239.88	242.93	3.05	566904	HYP	QMCX	7/4	13480	0.10	0.118	0.03	
242.93	245.97	3.04	566905	HYP	QMCX	7/4	12700	0.16	0.059	0.10	
245.97	249.02	3.05	566906	HYP	QMCX	7/4	13280	0.11	0.041	0.10	
249.02	252.07	3.05	566907	HYP	QMCX	7/4	12740	0.14	0.104	0.07	
252.07	255.12	3.05	566908	HYP	QMCX	7/4	13440	0.09	0.038	0.07	
255.12	258.17	3.05	566909	HYP	QMCX	7/4	12480	0.09	0.020	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
258.17	261.21	3.04	566910	HYP	WRDR	7	12880	0.08	0.048	0.07	
261.21	264.26	3.05	566911	HYP	WRDR	7	12900	0.11	0.097	0.07	
264.26	267.31	3.05	566912	HYP	WRDR	7	12700	0.11	0.073	0.10	
267.31	270.36	3.05	566913	HYP	WRDR	7	14260	0.33	0.045	0.34	
270.36	273.41	3.05	566914	HYP	WRDR	7	13780	0.11	0.056	0.14	
273.41	276.45	3.04	566915	HYP	WRDR	7	14040	0.13	0.026	0.14	
276.45	279.50	3.05	566916	HYP	WRDR	7	14320	0.27	0.021	0.24	
279.50	282.55	3.05	566917	HYP	WRDR	7	14820	0.21	0.025	0.27	
282.55	285.60	3.05	566918	HYP	WRDR	7	12520	0.19	0.016	0.14	
285.60	288.65	3.05	566919	HYP	WRDR	7	13000	0.17	0.054	0.17	
288.65	291.69	3.04	566920	HYP	WRDR	7	13460	0.10	0.036	0.07	
291.69	294.74	3.05	566921	HYP	WRDR	7	12760	0.23	0.037	0.17	
294.74	297.79	3.05	566922	HYP	WRDR	7	12960	0.59	0.055	0.51	
297.79	300.84	3.05	566923	HYP	WRDR	7	12340	0.11	0.064	0.10	
300.84	303.89	3.05	566924	HYP	WRDR	7	12660	0.13	0.059	0.10	
303.89	306.93	3.04	566925	HYP	WRDR	7	11980	0.13	0.178	0.14	
306.93	309.98	3.05	566926	HYP	QMIE	7	12180	0.09	0.077	0.07	
309.98	313.03	3.05	566927	HYP	QMIE	7	12840	0.05	0.089	0.03	
313.03	316.08	3.05	566928	HYP	QMIE	7	12240	0.05	0.044	0.07	
316.08	319.13	3.05	566929	HYP	QMIE	7	12200	0.06	0.062	0.07	
319.13	322.17	3.04	566930	HYP	QMIE	7	13020	0.08	0.027	0.10	
322.17	325.22	3.05	566931	HYP	QMIE	7	12780	0.07	0.058	0.07	
325.22	328.27	3.05	566932	HYP	IXBC	7	12360	0.07	0.079	0.14	
328.27	331.32	3.05	566933	HYP	IXBC	7	12460	0.13	0.039	0.17	
331.32	334.37	3.05	566934	HYP	IXBC	7	12760	0.15	0.042	0.24	
334.37	337.41	3.04	566935	HYP	IXBC	7	12040	0.16	0.026	0.17	
337.41	340.46	3.05	566936	HYP	IXBC	7	11820	0.09	0.034	0.10	
340.46	343.51	3.05	566937	HYP	IXBC	7	12300	0.10	0.068	0.14	
343.51	346.56	3.05	566938	HYP	IXBC	7	13180	0.06	0.025	0.07	
346.56	349.61	3.05	566939	HYP	WRDR	7/1	13380	0.06	0.085	0.10	
349.61	352.65	3.04	566940	HYP	WRDR	7/1	13900	0.12	0.034	0.14	
352.65	355.70	3.05	566941	HYP	WRDR	7/1	13380	0.08	0.047	0.07	
355.70	358.75	3.05	566942	HYP	WRDR	7/1	6300	0.09	0.078	0.07	
358.75	361.80	3.05	566943	HYP	WRDR	7/1	12980	0.05	0.117	0.03	
361.80	364.85	3.05	566944	HYP	WRDR	7/1	11920	0.08	0.032	0.10	
364.85	367.89	3.04	566945	HYP	WRDR	7/1	12180	0.06	0.305	0.07	
367.89	370.94	3.05	566946	HYP	WRDR	7/1	12580	0.04	0.033	0.07	
370.94	373.99	3.05	566947	HYP	WRDR	7/1	12920	0.04	0.066	0.07	
373.99	377.04	3.05	566948	HYP	WRDR	7/1	11760	0.07	0.043	0.10	
377.04	380.09	3.05	566949	HYP	WRDR	7/1	14080	0.04	0.046	<0.03	
380.09	383.13	3.04	566950	HYP	WRDR	7/1	13040	0.05	0.020	0.03	
383.13	386.18	3.05	566951	HYP	WRDR	7/1	12420	0.05	0.042	<0.03	
386.18	389.23	3.05	566952	HYP	WRDR	7/1	12240	0.06	0.084	0.03	
389.23	392.28	3.05	566953	HYP	WRDR	7/1	12080	0.10	0.066	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
392.28	395.33	3.05	566954	HYP	IXAF	7	11680	0.04	0.129	0.03	
395.33	398.37	3.04	566955	HYP	IXAF	7	11660	0.04	0.040	<0.03	
398.37	401.42	3.05	566956	HYP	IXAF	7	11560	0.05	0.038	0.07	
401.42	404.47	3.05	566957	HYP	IXAF	7	12820	0.05	0.118	0.03	
404.47	407.52	3.05	566958	HYP	IXAF	7	12740	0.06	0.111	0.07	
407.52	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-221	Total Depth	507.80 m		
Northing	254,799.34	Casing Depth	11.58 m		Left Out
Easting	111,698.16	Survey Data	Azimuth	Dip	Instrument
Elevation	1139.69 m	Collar		-90.00°	Brunton Compass
Core Size	HQ to 331.32 m; NQ to end	154.53 m	288°	-89.50°	Sperry Sun
Drilling Started	October 3, 1993	315.16 m	266°	-88.75°	Sperry Sun
Drilling Finished	October 19, 1993	456.29 m	235°	-88.75°	Sperry Sun
Logged by	J.S. Weber/W.D. Mann				
Purpose/Target:	Delineate south portion of Starter Pit Area.				

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	12.50	12.50		OVB							
12.50	14.33	1.83	588003	SUS	QMFX	3/5	1900	0.06	<0.001	0.07	
14.33	17.37	3.04	588004	SUS	QMFX	3/5	3820	0.07	0.008	0.17	
17.37	20.12	2.75	588005	SUS	QMFX	3/5	5020	0.17	0.004	0.07	
20.12	23.47	3.35	588006	SUS	QMFX	3/5	6700	0.44	0.006	0.07	
23.47	26.52	3.05	588007	SUS	QMFX	3/5	7580	0.23	0.004	0.07	
26.52	29.57	3.05	588008	SUS	WRDR	3	2800	0.21	<0.001	0.10	
29.57	32.61	3.04	588009	SUS	WRDR	3	2620	0.23	0.001	<0.03	
32.61	35.51	2.90	588010	SUS	WRDR	3	8820	0.07	<0.001	<0.03	
35.51	37.80	2.29	588011	SUS	WRDR	3	6360	0.03	0.001	<0.03	
37.80	41.15	3.35	588012	SUS	WRDR	3	3100	0.04	<0.001	<0.03	
41.15	44.81	3.66	588013	SUS	QMCX	3/5	13380	0.04	0.004	<0.03	
44.81	48.16	3.35	588014	SUS	QMCX	3/5	9940	0.04	<0.001	<0.03	
48.16	50.90	2.74	588015	SUS	WRGD	3/5	9040	0.04	<0.001	0.03	
50.90	53.95	3.05	588016	SUS	WRGD	3/5	8540	0.03	<0.001	0.07	
53.95	56.39	2.44	588017	HYP	WRDR	5/3	10660	0.03	<0.001	<0.03	
56.39	59.13	2.74	588018	HYP	WRDR	5/3	9200	0.03	<0.001	<0.03	
59.13	62.48	3.35	588019	HYP	WRDR	5/3	12160	0.02	<0.001	0.03	
62.48	65.53	3.05	588020	HYP	WRDR	5/3	10060	0.03	0.003	0.34	
65.53	67.97	2.44	588021	HYP	WRGD	5/3	7680	0.03	0.001	0.10	
67.97	71.02	3.05	588022	HYP	WRDR	5/3	9680	0.13	0.001	0.34	
71.02	74.37	3.35	588023	HYP	WRDR	5/3	9060	0.05	0.003	0.03	
74.37	77.42	3.05	588024	HYP	WRDR	3/5	10060	0.08	0.002	0.31	
77.42	80.47	3.05	588025	HYP	QMCX	3/5	11060	0.05	<0.001	0.10	
80.47	83.52	3.05	588026	HYP	QMCX	3/5	8180	0.03	0.009	0.10	
83.52	85.95	2.43	588027	HYP	QMCX	3/5	10280	0.04	<0.001	0.14	
85.95	89.00	3.05	588028	HYP	QMCX	3/5	10980	0.05	<0.001	0.10	
89.00	92.05	3.05	588029	HYP	QMCX	3/5	9120	0.02	<0.001	0.07	
92.05	95.10	3.05	588030	HYP	WRGD	3/5	12160	0.06	0.001	0.10	
95.10	98.15	3.05	588031	HYP	WRGD	3/5	11580	0.02	0.001	<0.03	
98.15	101.20	3.05	588032	HYP	WRDR	3/5	13460	0.05	<0.001	<0.03	
101.20	104.24	3.04	588033	HYP	WRDR	3/5	13300	0.05	0.002	<0.03	
104.24	107.29	3.05	588034	HYP	WRDR	5/3	11520	0.08	0.009	<0.03	
107.29	110.34	3.05	588035	HYP	QMFX	7/5	7760	0.05	<0.001	<0.03	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
110.34	113.39	3.05	588036	HYP	QMFX	7/3	10060	0.10	0.004	0.07	
113.39	116.43	3.04	588037	HYP	QMFX	3	13380	0.09	0.004	0.10	
116.43	119.48	3.05	588038	HYP	QMFX	3	13580	0.16	0.004	0.10	
119.48	122.53	3.05	588039	HYP	QMFX/WRDR	3	13320	0.06	0.001	0.03	
122.53	125.58	3.05	588040	HYP	QMFX/WRDR	3	13620	0.05	0.010	0.07	
125.58	128.63	3.05	588041	HYP	QMFX/WRDR	3	13940	0.09	0.001	0.10	
128.63	131.67	3.04	588042	HYP	QMFX/WRDR	3	13280	0.09	0.002	0.10	
131.67	134.72	3.05	588043	HYP	QMFX/WRDR	3	14400	0.11	0.003	0.10	
134.72	136.25	1.53	588044	HYP	QMFX/WRDR	3/5	6320	0.15	0.001	0.14	
136.25	139.29	3.04	588045	HYP	QMFX/WRDR	7/5	12480	0.19	0.002	0.21	
139.29	142.34	3.05	588046	HYP	WRDR	7/5	11720	0.11	0.001	0.14	
142.34	145.39	3.05	588047	HYP	QMIE	7/5	11780	0.13	0.000	0.10	
145.39	148.44	3.05	588048	HYP	QMIE	7/5	12520	0.28	0.004	0.24	
148.44	151.49	3.05	588049	HYP	WRGD	7/5	11900	0.07	0.003	0.07	
151.49	154.53	3.04	588050	HYP	WRGD	7/5	12360	0.14	0.003	0.14	
154.53	157.58	3.05	588051	HYP	WRGD	5/7	11340	0.24	0.002	0.17	
157.58	160.63	3.05	588052	HYP	WRGD	5/3	13460	0.65	0.026	0.62	
160.63	163.68	3.05	588053	HYP	WRGD	5/7	12140	0.15	0.001	0.14	
163.68	166.73	3.05	588054	HYP	WRGD	3/5	10640	0.16	0.005	0.17	
166.73	169.77	3.04	588055	HYP	WRGD	3/5	10940	0.18	0.007	0.10	
169.77	172.82	3.05	588056	HYP	WRGD	3/5	14320	0.15	0.036	0.24	
172.82	175.87	3.05	588057	HYP	WRGD	3/5	13460	0.08	0.070	0.69	
175.87	178.92	3.05	588058	HYP	WRGD	3/5	13360	0.18	0.017	0.41	
178.92	181.97	3.05	588059	HYP	QMIE	3/7	11880	0.18	0.007	0.17	
181.97	185.01	3.04	588060	HYP	QMIE	7/5	13900	0.26	0.005	0.14	
185.01	188.06	3.05	588061	HYP	QMIE	7/5	13140	0.21	0.005	0.07	
188.06	191.11	3.05	588062	HYP	QMIE	7/5	12020	0.21	0.004	0.21	
191.11	193.85	2.74	588063	HYP	QMIE	7/5	10100	0.19	0.014	0.17	
193.85	195.38	1.53	588064	HYP	QMIE	7/5	4460	0.04	0.005	0.07	
195.38	197.82	2.44	588065	HYP	QMIE	7/5	4980	0.11	0.005	0.07	
197.82	200.71	2.89	588066	HYP	QMIE	7/5	10220	0.14	0.008	0.07	
200.71	203.76	3.05	588067	HYP	QMIE	7/5	12460	0.07	0.008	0.03	
203.76	206.35	2.59	588068	HYP	QMIE	7/5	10640	0.06	0.003	0.10	
206.35	209.40	3.05	588069	HYP	QMIE	7/5	13440	0.11	0.010	0.14	
209.40	212.45	3.05	588070	HYP	QMIE	7/5	12300	0.14	0.052	0.14	
212.45	215.49	3.04	588071	HYP	QMIE	7/5	13260	0.14	0.077	0.10	
215.49	217.63	2.14	588072	HYP	QMIE	7/5	8760	0.12	0.038	0.07	
217.63	220.37	2.74	588073	HYP	QMIE	7/5	11560	0.08	0.005	0.03	
220.37	224.03	3.66	588074	HYP	QMIE	7/5	4940	0.18	0.014	0.10	
224.03	227.69	3.66	588075	HYP	QMIE	7/5	8880	0.08	0.011	0.10	
227.69	230.73	3.04	588076	HYP	QMIE	7/5	13100	0.13	0.017	0.10	
230.73	233.78	3.05	588077	HYP	QMIE	7/5	12380	0.15	0.006	0.10	
233.78	236.83	3.05	588078	HYP	QMIE	7/5	13320	0.18	0.016	0.17	
236.83	239.88	3.05	588079	HYP	QMIE	7/5	13440	0.23	0.026	0.21	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	588080	HYP	QMIE	7/5	12860	0.23	0.031	0.21	
242.93	245.97	3.04	588081	HYP	QMIE	7/5	13460	0.10	0.017	0.07	
245.97	249.02	3.05	588082	HYP	QMIE	7/5	12360	0.19	0.006	0.14	
249.02	252.07	3.05	588083	HYP	QMIE	7/5	12040	0.17	0.004	0.17	
252.07	255.12	3.05	588084	HYP	QMIE	7/5	12720	0.25	0.010	0.24	
255.12	257.86	2.74	588085	HYP	QMIE	7/5	11780	0.15	0.009	0.14	
257.86	260.91	3.05	588086	HYP	QMIE	7/5	13740	0.17	0.016	0.24	
260.91	263.96	3.05	588087	HYP	QMIE	7/5	11940	0.17	0.013	0.14	
263.96	267.00	3.04	588088	HYP	QMIE	7/5	13780	0.12	0.002	0.14	
267.00	270.21	3.21	588089	HYP	WRDR	7/5	12880	0.17	0.007	0.17	
270.21	273.41	3.20	588090	HYP	WRDR	7/5	12840	0.28	0.008	0.38	
273.41	276.45	3.04	588091	HYP	WRDR	7/5	14740	0.13	0.004	0.10	
276.45	279.50	3.05	588092	HYP	WRDR	7/5	14940	0.19	0.005	0.27	
279.50	282.55	3.05	588093	HYP	WRDR	7/5	14820	0.40	0.006	0.51	
282.55	285.60	3.05	588094	HYP	WRDR	7/5	12780	0.37	0.013	0.38	
285.60	288.65	3.05	588095	HYP	WRDR	7/5	12460	0.45	0.010	0.48	
288.65	291.69	3.04	588096	HYP	WRDR	7/5	12260	0.25	0.004	0.24	
291.69	294.74	3.05	588097	HYP	WRDR	7/5	12540	0.21	0.005	0.24	
294.74	297.97	3.23	588098	HYP	WRDR	7/5	14100	0.11	0.003	0.07	
297.97	300.84	2.87	588099	HYP	WRDR	7/5	13600	0.18	0.003	0.14	
300.84	303.89	3.05	588100	HYP	WRDR	7/5	13060	0.16	0.002	0.10	
303.89	306.93	3.04	588101	HYP	WRDR	7/5	13240	0.25	0.003	0.17	
306.93	309.98	3.05	588102	HYP	WRDR	7/5	12200	0.21	0.002	0.21	
309.98	313.03	3.05	588103	HYP	WRDR	7/5	12840	0.25	0.003	0.21	
313.03	315.16	2.13	588104	HYP	WRDR	7/5	10200	0.19	0.004	0.34	
315.16	318.52	3.36	588105	HYP	QMIE	7/5	13160	0.16	0.003	0.14	
318.52	321.56	3.04	588106	HYP	QMIE	7/5	10660	0.05	0.016	0.03	
321.56	324.61	3.05	588107	HYP	QMIE	7/5	12420	0.07	0.006	0.07	
324.61	327.66	3.05	588108	HYP	QMIE	7/5	10700	0.07	0.003	0.03	
327.66	331.32	3.66	588109	HYP	QMIE	7/5	16140	0.15	0.007	0.10	
331.32	334.37	3.05	588110	HYP	WRGD	7/5	6460	0.14	0.011	0.10	
334.37	337.41	3.04	588111	HYP	WRGD	7/5	6760	0.13	0.007	0.10	
337.41	340.46	3.05	588112	HYP	WRDR	7/5	6640	0.07	0.005	0.07	
340.46	343.51	3.05	588113	HYP	WRDR	7/5	6380	0.24	0.006	0.21	
343.51	346.56	3.05	588114	HYP	WRDR	7/5	6180	0.21	0.027	0.21	
346.56	349.61	3.05	588115	HYP	WRDR	7/5	7120	0.13	0.002	0.10	
349.61	352.65	3.04	588116	HYP	WRDR	7/5	7400	0.14	0.008	0.10	
352.65	355.70	3.05	588117	HYP	IXAX	7/5	6940	0.14	0.008	0.10	
355.70	358.75	3.05	588118	HYP	IXAX	7/5	7000	0.18	0.007	0.21	
358.75	361.80	3.05	588119	HYP	IXAX	7/5	6000	0.15	0.008	0.21	
361.80	364.85	3.05	588120	HYP	IXAX	7/5	6800	0.27	0.019	0.21	
364.85	367.89	3.04	588121	HYP	IXAX	7/5	6640	0.26	0.036	0.14	
367.89	370.94	3.05	588122	HYP	IXAX	7/5	6780	0.11	0.004	0.07	
370.94	373.68	2.74	588123	HYP	IXAX	7/5	7320	0.46	0.015	0.24	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
373.68	376.73	3.05	588124	HYP	IXAX	7/5	7420	0.22	0.022	0.10	
376.73	379.78	3.05	588125	HYP	IXAX	7/5	6700	0.09	0.004	0.07	
379.78	382.83	3.05	588126	HYP	IXAX	7/5	7140	0.15	0.006	0.14	
382.83	385.88	3.05	588127	HYP	IXAX	7/5	7600	0.10	0.006	0.10	
385.88	389.08	3.20	588128	HYP	IXAX	7/5	7380	0.11	0.011	0.10	
389.08	392.13	3.05	588129	HYP	IXAX	7/5	7320	0.07	0.013	0.03	
392.13	395.33	3.20	588130	HYP	IXAX	7/5	7740	0.10	0.005	0.07	
395.33	398.37	3.04	588131	HYP	IXAX	7/5	7340	0.09	0.007	0.07	
398.37	401.42	3.05	588132	HYP	IXAX	7/5	7200	0.06	0.006	0.07	
401.42	404.47	3.05	588133	HYP	IXAX	7/5	7400	0.15	0.010	0.14	
404.47	407.52	3.05	588134	HYP	IXAX	7/5	6800	0.10	0.006	0.10	
407.52	410.57	3.05	588135	HYP	IXAX	7/5	7100	0.10	0.005	0.07	
410.57	413.61	3.04	588136	HYP	IXAX	7/5	7440	0.11	0.049	0.10	
413.61	416.66	3.05	588137	HYP	IXAX	7/5	6920	0.11	0.008	0.07	
416.66	419.71	3.05	588138	HYP	IXAX	7/5	6640	0.06	0.002	0.07	
419.71	422.76	3.05	588139	HYP	IXAX	7/5	6680	0.08	0.006	0.07	
422.76	425.81	3.05	588140	HYP	IXAX	7/5	6900	0.04	0.002	<0.03	
425.81	428.85	3.04	588141	HYP	IXAX	7/5	6880	0.10	0.004	0.07	
428.85	431.90	3.05	588142	HYP	IXAX	7/5	6960	0.06	0.004	<0.03	
431.90	434.95	3.05	588143	HYP	IXAX	7/5	6900	0.03	0.008	0.07	
434.95	438.00	3.05	588144	HYP	WRDR	7/5	6720	0.03	0.001	0.03	
438.00	441.05	3.05	588145	HYP	WRDR	7	7500	0.19	0.008	0.24	
441.05	444.09	3.04	588146	HYP	WRDR	7	6860	0.18	0.004	0.10	
444.09	447.14	3.05	588147	HYP	WRDR	7/5	7260	0.10	0.015	0.10	
447.14	450.19	3.05	588148	HYP	WRDR	7	7580	0.12	0.001	0.07	
450.19	453.24	3.05	588149	HYP	WRDR	7	7260	0.10	0.002	0.10	
453.24	456.29	3.05	588150	HYP	WRGD	7	7300	0.15	0.022	0.31	
456.29	459.33	3.04	588151	HYP	WRGD	7	7900	0.16	0.004	0.14	
459.33	462.38	3.05	588152	HYP	WRGD	7	7360	0.14	0.002	0.17	
462.38	465.43	3.05	588153	HYP	WRGD	7	7560	0.19	0.002	0.31	
465.43	468.48	3.05	588154	HYP	WRGD	7	6740	0.15	0.006	0.21	
468.48	471.53	3.05	588155	HYP	WRGD	7	6560	0.09	0.042	0.07	
471.53	474.57	3.04	588156	HYP	WRGD	7	7260	0.05	0.004	0.03	
474.57	477.62	3.05	588157	HYP	WRGD	7	7200	0.16	0.010	0.21	
477.62	480.67	3.05	588158	HYP	WRGD	7	6860	0.12	0.004	0.17	
480.67	483.72	3.05	588159	HYP	WRGD	7	6600	0.13	0.003	0.14	
483.72	486.77	3.05	588160	HYP	WRDR	7	7420	0.14	0.002	0.21	
486.77	489.36	2.59	588161	HYP	WRDR	7	5740	0.10	<0.001	0.17	
489.36	492.56	3.20	588162	HYP	WRDR	7	10080	0.13	0.005	0.10	
492.56	495.60	3.04	588163	HYP	WRDR	7	7320	0.11	0.010	0.10	
495.60	498.65	3.05	588164	HYP	WRDR	7	4660	0.08	0.003	0.24	
498.65	501.70	3.05	588165	HYP	WRDR	7	7300	0.15	0.003	0.14	
501.70	504.75	3.05	588166	HYP	WRDR	7	7080	0.04	0.001	0.07	
504.75	507.80	3.05	588167	HYP	WRDR	7	7240	0.16	0.005	0.38	

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Hole Number	93-222	Total Depth	367.89 m
Northing	254,787.36	Casing Depth	33.5 m Left Out
Easting	111,546.30	Survey Data	Azimuth / Dip / Instrument
Elevation	1167.08 m	Collar	-90.0°
Core Size	HQ	158.8 m	335° / -89.5° / Sperry Sun
Drilling Started	October 3, 1993	309.4 m	281° / -89.4° / Sperry Sun
Drilling Finished	October 11, 1993		
Logged by	P. Fischl		

Purpose/Target: To extend southward the zone of high grade copper and molybdenum mineralization encountered in Hole 93-214, 80 m north of 93-222.

Comments: Encountered a section of quartz monzonite (QMFX, QMIE), with lesser diorite (WRDR) and minor granodiorite (WRGD), containing a moderately mineralized supergene zone and a weakly to locally moderately mineralized hypogene zone.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	9.14	9.14		OVB							
9.14	13.11	3.97	589793	CAP	WRDR	3	4240	0.05	0.002	0.07	
13.11	15.24	2.13	589794	CAP	WRDR	3	2240	0.06	0.006	0.17	
15.24	18.59	3.35	589795	CAP	WRDR	3	4920	0.06	0.006	0.21	
18.59	21.64	3.05	589796	CAP	QMFX	3	6660	0.11	0.011	0.17	
21.64	24.38	2.74	589797	CAP	QMFX	3	5060	0.06	0.007	0.14	
24.38	28.04	3.66	589798	CAP	QMFX	3	5680	0.25	0.007	0.24	
28.04	30.48	2.44	589799	CAP	QMFX	6	7380	0.38	0.028	0.34	
30.48	33.22	2.74	589800	SUS	QMFX	6	4820	0.85	0.017	0.55	
33.22	35.66	2.44	589801	SUS	QMFX	6	7960	0.41	0.003	0.14	
35.66	38.71	3.05	589802	SUS	QMFX	6/5	7480	0.19	0.008	0.14	
38.71	41.76	3.05	589803	SUS	QMFX	6	8460	0.60	0.035	0.51	
41.76	44.81	3.05	589804	SUS	QMFX	6	4060	0.19	0.023	0.10	
44.81	47.85	3.04	589805	SUS	QMFX	6	9220	0.21	0.004	0.14	
47.85	50.90	3.05	589806	SUS	QMFX	6	7480	0.37	0.007	0.10	
50.90	53.95	3.05	589807	SUS	QMFX	6	6540	0.66	0.014	0.27	
53.95	57.00	3.05	589808	SUS	QMFX	6	9540	0.20	0.004	0.14	
57.00	60.05	3.05	589809	SUS	QMFX	6	9780	0.34	0.020	0.21	
60.05	63.09	3.04	589810	SUS	QMFX	6	9700	0.32	0.019	0.07	
63.09	66.14	3.05	589811	SUS	QMFX	6	8040	0.35	0.008	0.24	
66.14	69.19	3.05	589812	SUS	QMFX	6	10660	0.26	0.007	0.27	
69.19	70.71	1.52	589813	SUS	QMFX	6	4980	0.30	0.006	0.17	
70.71	73.76	3.05	589814	SUS	QMFX	6	8000	0.23	0.015	0.14	
73.76	77.72	3.96	589815	SUS	QMFX	6	8320	0.29	0.004	0.07	
77.72	80.77	3.05	589816	SUS	QMFX	6	10060	0.15	0.008	0.03	
80.77	81.99	1.22	589817	HYP	QMFX	6	5200	0.09	0.002	0.10	
81.99	84.12	2.13	589818	HYP	WRDR	6	8040	0.19	0.005	0.21	
84.12	86.56	2.44	589819	HYP	WRDR	6	8740	0.18	0.002	0.14	
86.56	89.61	3.05	589820	HYP	WRDR	6	11780	0.14	0.001	0.17	
89.61	92.05	2.44	589821	HYP	WRGD	6	11060	0.07	0.001	0.07	
92.05	94.18	2.13	589822	HYP	WRGD	7/3	9960	0.05	0.001	<0.03	
94.18	96.62	2.44	589823	HYP	WRGD	3	11700	0.07	0.001	0.03	
96.62	99.06	2.44	589824	HYP	WRGD	3	8740	0.06	0.001	0.03	
99.06	100.58	1.52	589825	HYP	WRGD	3	7360	0.06	0.001	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
100.58	103.63	3.05	589826	HYP	WRGD	3	12340	0.10	0.002	0.07	
103.63	105.77	2.14	589827	HYP	WRDR	6/7	10840	0.12	<0.001	0.10	
105.77	108.81	3.04	589828	HYP	WRDR	6/7	12420	0.24	0.006	0.24	
108.81	111.86	3.05	589829	HYP	QMFX	6/7	12760	0.29	0.004	0.17	
111.86	114.91	3.05	589830	HYP	WRDR	6/7	14100	0.15	<0.001	0.14	
114.91	117.96	3.05	589831	HYP	WRDR	6/7	11680	0.14	0.001	0.10	
117.96	120.40	2.44	589832	HYP	WRDR	3/7	11060	0.40	0.002	0.45	
120.40	124.05	3.65	589833	HYP	QMFX	4/7	12720	0.14	0.006	0.07	
124.05	127.10	3.05	589834	HYP	QMFX	3/7	12500	0.08	0.003	<0.03	
127.10	129.84	2.74	589835	HYP	QMFX	3/7	10140	0.10	0.005	0.03	
129.84	133.20	3.36	589836	HYP	QMFX	3/7	7560	0.09	0.005	<0.03	
133.20	135.94	2.74	589837	HYP	QMFX	3/7	6500	0.12	0.003	0.07	
135.94	139.29	3.35	589838	HYP	QMFX	3/7	7060	0.19	0.004	0.24	
139.29	142.34	3.05	589839	HYP	QMFX	3/7	6840	0.33	0.008	0.31	
142.34	144.78	2.44	589840	HYP	QMFX	3/7	5860	0.29	0.011	0.27	
144.78	148.44	3.66	589841	HYP	QMFX	3/7	11220	0.19	0.020	0.27	
148.44	150.27	1.83	589842	HYP	QMFX	6/7	6200	0.22	0.015	0.24	
150.27	153.92	3.65	589843	HYP	QMFX	6/7	10780	0.14	0.006	0.10	
153.92	156.10	2.18	589844	HYP	QMFX	6/5/7	11700	0.17	0.008	0.17	
156.10	159.71	3.61	589845	HYP	QMFX	6/7	12200	0.27	0.004	0.21	
159.71	163.07	3.36	589846	HYP	QMFX	6/7	11660	0.39	0.007	0.31	
163.07	166.73	3.66	589847	HYP	WRDR	6/7	14000	0.34	0.033	0.31	
166.73	169.77	3.04	589848	HYP	WRDR	6/7	11800	0.28	0.002	0.24	
169.77	172.82	3.05	589849	HYP	QMFX	6/7	12060	0.23	0.004	0.21	
172.82	176.48	3.66	589850	HYP	QMFX	6/7	14800	0.45	0.009	0.62	
176.48	179.83	3.35	589851	HYP	QMFX	6/7	12000	0.47	0.011	0.45	
179.83	182.58	2.75	589852	HYP	QMFX	6/7	9620	0.19	0.005	0.14	
182.58	185.01	2.43	589853	HYP	QMFX	6/7	8960	0.30	0.003	0.24	
185.01	188.06	3.05	589854	HYP	QMFX	7/3	10980	0.38	0.005	0.45	
188.06	191.11	3.05	589855	HYP	QMFX	7/3	12580	0.13	0.006	0.07	
191.11	195.07	3.96	589856	HYP	QMFX	7/3	12160	0.20	0.013	0.17	
195.07	198.73	3.66	589857	HYP	QMFX	7/3	15540	0.18	0.006	0.14	
198.73	201.78	3.05	589858	HYP	QMFX	7/3	11700	0.17	0.014	0.10	
201.78	204.52	2.74	589859	HYP	QMFX	7/3	9680	0.16	0.015	0.03	
204.52	208.18	3.66	589860	HYP	QMIE	6/7	12760	0.25	0.008	0.17	
208.18	209.70	1.52	589861	HYP	QMIE	6/7	7640	0.19	0.026	0.17	
209.70	212.45	2.75	589862	HYP	QMIE	6/7	9320	0.19	0.008	0.14	
212.45	215.49	3.04	589863	HYP	QMIE	6/7	11860	0.18	0.014	0.07	
215.49	218.54	3.05	589864	HYP	QMIE	6/7	10960	0.16	0.006	0.14	
218.54	221.59	3.05	589865	HYP	QMIE	6/7	13120	0.16	0.012	0.10	
221.59	224.64	3.05	589866	HYP	QMIE	6/7	11880	0.22	0.036	0.14	
224.64	227.69	3.05	589867	HYP	QMIE	6/7	11520	0.15	0.022	0.14	
227.69	230.73	3.04	589868	HYP	QMIE	6/7	12840	0.13	0.061	0.10	
230.73	233.78	3.05	589869	HYP	QMIE	6/7	12220	0.22	0.095	0.21	

SUMMARY DRILL LOG
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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	589870	HYP	QMIE	6/7	10920	0.20	0.033	0.17	
236.83	239.88	3.05	589871	HYP	QMIE	6/7/5	12700	0.22	0.015	0.17	
239.88	243.54	3.66	589872	HYP	QMIE	7/5	14960	0.26	0.028	0.21	
243.54	245.97	2.43	589873	HYP	QMIE	6/5	8940	0.23	0.006	1.17	
245.97	248.41	2.44	589874	HYP	QMIE	6/7	10100	0.39	0.017	0.41	
248.41	251.46	3.05	589875	HYP	QMIE	6/7	10940	0.19	0.044	0.21	
251.46	254.51	3.05	589876	HYP	QMIE	7	10760	0.08	0.035	0.03	
254.51	258.17	3.66	589877	HYP	QMIE	3/5	13010	0.02	0.005	<0.03	
258.17	261.21	3.04	589878	HYP	QMIE	5/3	13980	0.01	0.002	0.03	
261.21	264.26	3.05	589879	HYP	QMIE	5/3	10740	0.01	0.002	<0.03	
264.26	267.92	3.66	589880	HYP	QMIE	5/3	13940	<0.01	0.001	<0.03	
267.92	271.27	3.35	589881	HYP	QMIE	5/3	12600	0.01	0.001	<0.03	
271.27	272.80	1.53	589882	HYP	QMIE	5/3	5680	0.01	<0.001	<0.03	
272.80	275.23	2.43	589883	HYP	QMIE	5/3	7500	<0.01	0.001	<0.03	
275.23	277.37	2.14	589884	HYP	QMIE	5/3	8640	<0.01	<0.001	<0.03	
277.37	279.50	2.13	589885	HYP	QMIE	5/3	7620	0.01	0.002	<0.03	
279.50	282.55	3.05	589886	HYP	QMIE	5/3	12360	0.02	<0.001	<0.03	
282.55	285.60	3.05	589887	HYP	QMIE	5/3	12220	0.01	<0.001	<0.03	
285.60	288.04	2.44	589888	HYP	QMIE	5/3	8860	0.01	<0.001	<0.03	
288.04	291.10	3.06	589889	HYP	QMIE	5/3	11680	0.02	<0.001	<0.03	
291.10	293.83	2.73	589890	HYP	QMIE	5/3	10460	0.02	<0.001	0.17	
293.83	296.88	3.05	589891	HYP	QMIE	5/3	12540	0.01	<0.001	0.03	
296.88	299.62	2.74	589892	HYP	QMIE	5/3	10740	0.01	<0.001	<0.03	
299.62	302.64	3.02	589893	HYP	QMIE	5/3	13580	0.01	<0.001	<0.03	
302.64	305.71	3.07	589894	HYP	QMIE	5/3	13420	0.01	<0.001	<0.03	
305.71	309.37	3.66	589895	HYP	QMIE	5/3	14120	0.02	<0.001	<0.03	
309.37	312.42	3.05	589896	HYP	QMIE	5/3	14020	<0.01	<0.001	<0.03	
312.42	315.47	3.05	589897	HYP	QMIE	5/3	14600	<0.01	<0.001	<0.03	
315.47	319.13	3.66	589898	HYP	QMIE	5/3	17200	0.01	<0.001	<0.03	
319.13	322.17	3.04	589899	HYP	QMIE	5/3	14580	0.01	<0.001	<0.03	
322.17	325.22	3.05	589900	HYP	QMIE	5/3	14000	0.01	<0.001	<0.03	
325.22	328.27	3.05	589901	HYP	QMIE	5/3	14120	0.02	<0.001	<0.03	
328.27	331.32	3.05	589902	HYP	QMIE	5/3	12960	0.01	<0.001	<0.03	
331.32	334.37	3.05	589903	HYP	QMIE	5/3	12400	<0.01	<0.001	<0.03	
334.37	337.41	3.04	589904	HYP	QMIE	5/3	14060	0.01	<0.001	<0.03	
337.41	340.46	3.05	589905	HYP	QMIE	5/3	13940	0.01	<0.001	<0.03	
340.46	343.51	3.05	589906	HYP	QMIE	5/3	14260	0.01	<0.001	<0.03	
343.51	346.56	3.05	589907	HYP	QMIE	5/3/7	13640	0.01	<0.001	<0.03	
346.56	349.61	3.05	589908	HYP	QMIE	5/3/7	11460	0.01	<0.001	<0.03	
349.61	352.65	3.04	589909	HYP	QMIE	5/3	13720	0.01	<0.001	<0.03	
352.65	355.70	3.05	589910	HYP	QMIE	5/3	14500	0.01	<0.001	<0.03	
355.70	358.75	3.05	589911	HYP	QMIE	5/3	11620	0.01	<0.001	<0.03	
358.75	361.80	3.05	589912	HYP	QMIE	5/3	13440	0.02	<0.001	<0.03	
361.80	364.85	3.05	589913	HYP	QMIE	5/3/7	11940	<0.01	0.002	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
364.85	367.89	3.04	589914	HYP	QMIE	5/3/7	13020	0.01	0.001	<0.03	
367.89	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-223	Total Depth	553.82 m		
Northing	254,969.87	Casing Depth	10.36 m		Left In
Easting	111,458.60	Survey Data	Azimuth	Dip	Instrument
Elevation	1172.86 m	Collar		-90.0°	
Core Size	HQ	152.4 m	297°	-89.5°	Sperry Sun
Drilling Started	October 4, 1993	304.8 m	217°	-88.8°	Sperry Sun
Drilling Finished	October 20, 1993	548.6 m	305°	-89.6°	Sperry Sun
Logged by	C. DeLong				

Purpose/Target: To redrill near Hole 92-130 which was lost at 140.35 m.

Comments: Excellent mineralization to 140 m; good, but less consistent, to 490 m.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	22.25	22.25		OVB							
22.25	24.99	2.74	588839	CAP	WRDR	3	7100	0.52	0.011	0.31	
24.99	27.73	2.74	588840	SOX	WRDR	6/3	8740	0.33	0.030	0.24	
27.73	31.09	3.36	588841	SOX	WRDR	3	8780	0.25	0.009	0.17	
31.09	32.61	1.52	588842	HYP	WRDR	3	5960	0.16	0.056	0.14	
32.61	35.66	3.05	588843	HYP	QMFX	3	9300	0.36	0.008	0.10	
35.66	38.71	3.05	588844	HYP	WRDR	6/7	10500	0.22	0.008	0.17	
38.71	41.76	3.05	588845	HYP	WRDR	6/7	9320	0.20	0.010	0.17	
41.76	44.81	3.05	588846	HYP	WRDR	6/7	8060	0.22	0.023	0.24	
44.81	47.85	3.04	588847	HYP	WRDR	3	9900	0.23	0.010	0.21	
47.85	51.21	3.36	588848	HYP	WRDR	3	5880	0.29	0.025	0.31	
51.21	53.95	2.74	588849	HYP	F/ZN	3	8740	0.39	0.042	0.79	
53.95	57.00	3.05	588850	HYP	WRDR	3	8120	0.15	0.016	0.17	
57.00	60.66	3.66	588851	HYP	QMFX	7	11420	0.20	0.023	0.17	
60.66	63.70	3.04	588852	HYP	WRDR	7	9760	0.26	0.020	0.34	
63.70	65.84	2.14	588853	HYP	WRDR	7	6460	0.38	0.024	0.45	
65.84	68.58	2.74	588854	HYP	WRDR	7	7400	0.29	0.011	0.31	
68.58	71.93	3.35	588855	HYP	QMFX	7	6340	0.31	0.026	0.34	
71.93	74.98	3.05	588856	HYP	WRDR	7	9320	0.18	0.012	0.27	
74.98	78.03	3.05	588857	HYP	YMDR	7	10540	0.15	0.030	0.14	
78.03	81.08	3.05	588858	HYP	YMQT	7	11660	0.14	0.019	0.17	
81.08	84.43	3.35	588859	HYP	IXAC	3	10220	0.21	0.052	0.24	
84.43	87.78	3.35	588860	HYP	IXAC	7	11340	0.25	0.015	0.38	
87.78	90.53	2.75	588861	HYP	IXAC	7	11300	0.88	0.047	1.30	
90.53	93.57	3.04	588862	HYP	IXAC	7	11780	0.31	0.011	0.45	
93.57	96.47	2.90	588863	HYP	IXAC	3	11600	0.97	0.066	1.89	
96.47	100.28	3.81	588864	HYP	IXAC	3	14840	0.60	0.035	0.86	
100.28	102.72	2.44	588865	HYP	IXAC	3	10800	0.51	0.028	0.69	
102.72	105.77	3.05	588866	HYP	IXAC	7	13280	0.45	0.043	0.65	
105.77	108.51	2.74	588867	HYP	IXAC	7	13100	0.17	0.022	0.34	
108.51	112.17	3.66	588868	HYP	IXAC	7	13560	0.46	0.051	0.51	
112.17	114.91	2.74	588869	HYP	IXAC	3	10540	0.40	0.105	0.55	
114.91	117.96	3.05	588870	HYP	IXAC	7	13880	0.54	0.186	0.72	
117.96	121.01	3.05	588871	HYP	IXAC	7	13460	0.26	0.036	0.45	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
121.01	124.05	3.04	588872	HYP	IXAC	3	12560	0.73	0.053	0.75	
124.05	127.10	3.05	588873	HYP	IXAC	3	10540	0.69	0.194	1.30	
127.10	130.15	3.05	588874	HYP	IXAC	7	11720	0.69	0.107	0.79	
130.15	133.20	3.05	588875	HYP	LTDA	3	11960	0.08	0.018	0.17	
133.20	136.25	3.05	588876	HYP	IXAF	7	12140	0.34	0.032	0.79	
136.25	139.29	3.04	588877	HYP	IXAF	7	11840	0.58	0.040	0.72	
139.29	142.34	3.05	588878	HYP	IXAF	7	12200	0.22	0.030	0.31	
142.34	145.39	3.05	588879	HYP	IXAF	7	10700	0.19	0.033	0.21	
145.39	148.44	3.05	588880	HYP	IXAF	7	11080	0.17	0.126	0.38	
148.44	151.49	3.05	588881	HYP	IXAF	7	10960	0.24	0.046	0.34	
151.49	154.53	3.04	588882	HYP	IXAF	7	12120	0.21	0.023	0.21	
154.53	157.58	3.05	588883	HYP	IXAF	3	9840	0.18	0.089	0.14	
157.58	161.24	3.66	588884	HYP	IXAF	3	12860	0.23	0.110	0.24	
161.24	163.68	2.44	588885	HYP	IXAF	3	12800	0.14	0.031	0.21	
163.68	167.34	3.66	588886	HYP	IXAF	3	9140	0.15	0.013	0.14	
167.34	168.56	1.22	588887	HYP	IXAF	3	10220	0.08	0.011	0.10	
168.56	172.82	4.26	588888	HYP	IXAF	3	12480	0.08	0.004	0.07	
172.82	175.86	3.04	588889	HYP	IXAF	3	13660	0.23	0.036	0.31	
175.86	178.92	3.06	588890	HYP	IXAC	3	13380	0.15	0.048	0.31	
178.92	181.97	3.05	588891	HYP	IXAC	3	13100	0.12	0.035	0.17	
181.97	185.01	3.04	588892	HYP	IXAC	3	12820	0.11	0.033	0.14	
185.01	188.06	3.05	588893	HYP	IXAC	3	12980	0.29	0.059	0.27	
188.06	191.11	3.05	588894	HYP	IXAC	3	12000	0.12	0.136	0.14	
191.11	194.16	3.05	588895	HYP	IXAC	3	10500	0.28	0.052	0.41	
194.16	197.21	3.05	588896	HYP	IXAC	3	12400	0.14	0.060	0.21	
197.21	200.25	3.04	588897	HYP	IXAC	3	12380	0.18	0.049	0.27	
200.25	203.30	3.05	588898	HYP	LTDA	3	11920	0.03	0.028	0.07	
203.30	206.35	3.05	588899	HYP	QMFX	3	12040	0.04	0.014	0.07	
206.35	209.40	3.05	588900	HYP	QMFX	3	12720	0.07	0.275	0.14	
209.40	212.45	3.05	588901	HYP	QMFX	3	11660	0.05	0.242	0.07	
212.45	215.49	3.04	588902	HYP	QMFX	3	12420	0.07	0.130	0.10	
215.49	218.54	3.05	588903	HYP	WRGD	3	12640	0.08	0.050	0.10	
218.54	221.59	3.05	588904	HYP	WRGD	3	13920	0.05	0.056	0.17	
221.59	224.64	3.05	588905	HYP	WRGD	3	12160	0.10	0.067	0.10	
224.64	227.69	3.05	588906	HYP	WRGD	3	12260	0.09	0.085	0.31	
227.69	230.73	3.04	588907	HYP	WRDR	3	10440	0.19	0.114	0.24	
230.73	233.78	3.05	588908	HYP	WRDR	3	12580	0.17	0.056	0.27	
233.78	236.83	3.05	588909	HYP	WRDR	3	12140	0.10	0.075	0.14	
236.83	239.88	3.05	588910	HYP	WRGD	3	12180	0.09	0.065	0.10	
239.88	242.93	3.05	588911	HYP	WRDR	7	12860	0.05	0.034	0.07	
242.93	245.06	2.13	588912	HYP	WRDR	7	9020	0.09	0.081	0.14	
245.06	247.50	2.44	588913	HYP	WRDR	7	11780	0.32	0.068	0.34	
247.50	250.55	3.05	588914	HYP	WRDR	7	13160	0.14	0.019	0.14	
250.55	252.06	1.51	588915	HYP	WRDR	7	6160	0.05	0.048	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
252.06	255.12	3.06	588916	HYP	WRGD	7	12620	0.05	0.082	0.07	
255.12	258.17	3.05	588917	HYP	WRGD	7	12700	0.05	0.074	0.07	
258.17	261.21	3.04	588918	HYP	WRGD	7	13600	0.07	0.045	0.10	
261.21	263.35	2.14	588919	HYP	WRGD	7	10320	0.10	0.051	0.34	
263.35	266.40	3.05	588920	HYP	WRGD	7	12240	0.05	0.016	0.10	
266.40	267.93	1.53	588921	HYP	WRGD	7	5880	0.20	0.039	0.27	
267.93	270.36	2.43	588922	HYP	WRGD	7	10020	0.10	0.062	0.17	
270.36	272.80	2.44	588923	HYP	WRGD	7	10960	0.16	0.018	0.24	
272.80	274.62	1.82	588924	HYP	WRGD	7	6520	0.18	0.012	0.24	
274.62	277.67	3.05	588925	HYP	WRGD	7	12400	0.14	0.020	0.17	
277.67	279.50	1.83	588926	HYP	PPDP	7	6860	0.09	0.003	0.14	
279.50	282.55	3.05	588927	HYP	PPDP	7	13060	0.09	0.095	0.21	
282.55	285.60	3.05	588928	HYP	IXAF	7	12300	0.26	0.024	0.38	
285.60	288.65	3.05	588929	HYP	IXAF	7	12900	0.14	0.021	0.34	
288.65	291.69	3.04	588930	HYP	IXAF	7	12140	0.18	0.033	0.21	
291.69	294.74	3.05	588931	HYP	IXAF	7	12620	0.15	0.037	0.21	
294.74	297.79	3.05	588932	HYP	IXAF	7	12120	0.11	0.150	0.17	
297.79	300.84	3.05	588933	HYP	IXAF	7	12200	0.17	0.023	0.24	
300.84	303.89	3.05	588934	HYP	IXAF	6/7	13680	0.21	0.040	0.27	
303.89	306.93	3.04	588935	HYP	IXAF	6	12380	0.24	0.063	0.38	
306.93	309.98	3.05	588936	HYP	IXAF	6	12280	0.24	0.034	0.51	
309.98	313.03	3.05	588937	HYP	IXAF	7	8980	0.18	0.121	0.27	
313.03	316.08	3.05	588938	HYP	IXAF	7	12420	0.10	0.089	0.14	
316.08	319.13	3.05	588939	HYP	IXAF	7	11940	0.11	0.040	0.17	
319.13	322.17	3.04	588940	HYP	IXAF	7/6	11780	0.07	0.044	0.10	
322.17	325.22	3.05	588941	HYP	IXAF	7	12862	0.19	0.052	0.27	
325.22	328.27	3.05	588942	HYP	IXAF	7	13660	0.20	0.053	0.31	
328.27	331.32	3.05	588943	HYP	PPDP	7	12740	0.08	0.007	0.17	
331.32	334.37	3.05	588944	HYP	PPDP	7/5	13260	0.14	0.017	0.27	
334.37	337.41	3.04	588945	HYP	PPDP	7	13600	0.13	0.016	0.24	
337.41	340.46	3.05	588946	HYP	PPDP	7/5	13060	0.13	0.024	0.21	
340.46	343.51	3.05	588947	HYP	PPDP	7	14980	0.13	0.030	0.17	
343.51	346.56	3.05	588948	HYP	PPDP	7	11940	0.08	0.016	0.21	
346.56	349.61	3.05	588949	HYP	IXAF	7	13140	0.06	0.016	0.10	
349.61	352.65	3.04	588950	HYP	IXAF	7	12340	0.06	0.013	0.07	
352.65	355.70	3.05	588951	HYP	PPDP	7	12660	0.15	0.047	0.21	
355.70	358.75	3.05	588952	HYP	PPDP	7	12400	0.13	0.009	0.21	
358.75	361.80	3.05	588953	HYP	PPDP	7	13000	0.12	0.012	0.17	
361.80	364.85	3.05	588954	HYP	PPDP	7	14080	0.11	0.007	0.24	
364.85	367.89	3.04	588955	HYP	IXAF	7	12800	0.08	0.039	0.10	
367.89	370.94	3.05	588956	HYP	IXAF	7	13420	0.06	0.043	0.10	
370.94	373.99	3.05	588957	HYP	IXAF	7	14180	0.08	0.040	0.14	
373.99	377.04	3.05	588958	HYP	IXAF	7	12520	0.12	0.044	0.14	
377.04	380.09	3.05	588959	HYP	IXAF	7	13540	0.39	0.025	0.51	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
380.09	383.13	3.04	588960	HYP	IXAF	7	12320	0.05	0.060	0.10	
383.13	386.18	3.05	588961	HYP	IXAF	7	12380	0.09	0.036	0.07	
386.18	389.23	3.05	588962	HYP	IXAF	7	13440	0.15	0.021	0.17	
389.23	392.28	3.05	588963	HYP	IXAF	7	12000	0.16	0.020	0.48	
392.28	395.33	3.05	588964	HYP	IXAF	7/6	12020	0.09	0.072	0.17	
395.33	398.37	3.04	588965	HYP	IXAF	7	12900	0.08	0.069	0.14	
398.37	401.42	3.05	588966	HYP	IXAF	7/6	12160	0.05	0.055	0.10	
401.42	404.47	3.05	588967	HYP	IXAF	6	11420	0.09	0.220	0.14	
404.47	407.52	3.05	588968	HYP	IXAF	6	11020	0.07	0.037	0.10	
407.52	410.57	3.05	588969	HYP	IXAF	6	12160	0.17	0.052	0.24	
410.57	413.61	3.04	588970	HYP	IXAF	6	11920	0.09	0.086	0.17	
413.61	416.66	3.05	588971	HYP	IXAF	6	10780	0.05	0.102	0.10	
416.66	419.71	3.05	588972	HYP	IXAF	6	11880	0.12	0.057	0.24	
419.71	422.76	3.05	588973	HYP	IXAF	6	11700	0.08	0.041	0.31	
422.76	425.81	3.05	588974	HYP	IXAF	6	12640	0.11	0.055	0.17	
425.81	428.85	3.04	588975	HYP	IXAF	6	11200	0.06	0.066	0.10	
428.85	431.90	3.05	588976	HYP	IXAF	6	12340	0.07	0.053	0.10	
431.90	434.95	3.05	588977	HYP	QMFX	7/6	12840	0.09	0.149	0.14	
434.95	438.00	3.05	588978	HYP	QMFX	7/6	12360	0.05	0.144	0.07	
438.00	441.05	3.05	588979	HYP	QMFX	7/6	12100	0.05	0.082	0.10	
441.05	444.09	3.04	588980	HYP	IXAF	6	12200	0.05	0.165	0.07	
444.09	447.14	3.05	588981	HYP	IXAF	6	12620	0.14	0.084	0.17	
447.14	450.19	3.05	588982	HYP	IXAF	6	12500	0.09	0.123	0.21	
450.19	453.24	3.05	588983	HYP	IXAF	6	12780	0.09	0.115	0.17	
453.24	456.29	3.05	588984	HYP	IXAF	6	12820	0.09	0.136	0.14	
456.29	459.33	3.04	588985	HYP	IXAF	6	12080	0.10	0.036	0.21	
459.33	462.38	3.05	588986	HYP	WRGD	7	13340	0.07	0.086	0.14	
462.38	465.43	3.05	588987	HYP	WRGD	7	13280	0.06	0.046	0.10	
465.43	467.87	2.44	588988	HYP	WRGD	7	11160	0.09	0.065	0.07	
467.87	470.61	2.74	588989	HYP	WRGD	7	12780	0.09	0.080	0.07	
470.61	473.66	3.05	588990	HYP	WRGD	7	13040	0.13	0.125	0.10	
473.66	476.71	3.05	588991	HYP	WRGD	7	11380	0.13	0.054	0.10	
476.71	479.76	3.05	588992	HYP	WRGD	7	10220	0.06	0.063	0.03	
479.76	482.80	3.04	588993	HYP	WRGD	7	11980	0.10	0.052	0.03	
482.80	485.85	3.05	588994	HYP	IXAF	6	11440	0.12	0.153	0.31	
485.85	488.90	3.05	588995	HYP	IXAF	6	11220	0.16	0.117	0.27	
488.90	491.95	3.05	588996	HYP	IXAF	6	12120	0.09	0.091	0.14	
491.95	495.91	3.96	588997	HYP	IXAF	6	15660	0.04	0.209	<0.03	
495.91	498.96	3.05	588998	HYP	IXAF	6/7	13000	0.07	0.089	0.10	
498.96	502.01	3.05	588999	HYP	IXAF	6/7	11640	0.08	0.074	0.10	
502.01	505.05	3.04	589000	HYP	IXAF	6/7	11800	0.08	0.048	0.10	
505.05	508.10	3.05	941501	HYP	IXAF	6/7	11220	0.07	0.130	0.07	
508.10	511.15	3.05	941502	HYP	IXAF	6/7	12780	0.09	0.033	0.07	
511.15	514.20	3.05	941503	HYP	PPDP	6/7	11480	0.07	0.030	0.07	

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From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
514.20	517.25	3.05	941504	HYP	IXAF	7	12320	0.04	0.007	0.03	
517.25	520.29	3.04	941505	HYP	IXAF	7	13600	0.03	0.011	<0.03	
520.29	523.34	3.05	941506	HYP	PPDP	6/7	12040	0.04	0.011	<0.03	
523.34	526.39	3.05	941507	HYP	IXAF	7	12160	0.04	0.035	<0.03	
526.39	529.44	3.05	941508	HYP	IXAF	7	12680	0.05	0.012	<0.03	
529.44	532.49	3.05	941509	HYP	PPDP	7/6	13300	0.04	0.020	<0.03	
532.49	535.53	3.04	941510	HYP	PPDP	7/6	11760	0.05	0.024	<0.03	
535.53	538.58	3.05	941511	HYP	IXAF	7/6	12620	0.05	0.022	0.03	
538.58	541.63	3.05	941512	HYP	IXAF	6	12000	0.05	0.083	0.07	
541.63	544.68	3.05	941513	HYP	IXAF	6	13660	0.04	0.021	0.03	
544.68	547.73	3.05	941514	HYP	IXAF	7	13900	0.05	0.032	0.07	
547.73	550.77	3.04	941515	HYP	IXAF	7	13600	0.03	0.022	<0.03	
550.77	553.82	3.05	941516	HYP	IXAF	6/7	12680	0.02	0.041	<0.03	
553.82	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-224	Total Depth	243.84 m
Northing	254,701.73	Casing Depth	3.66 m Left Out
Easting	111,498.99	Survey Data	Azimuth Dip Instrument
Elevation	1204.29 m	Collar	-90.0°
Core Size	HQ	152.4 m	245° -89.1° Sperry Sun
Drilling Started	October 4, 1993		
Drilling Finished	October 7, 1993		
Logged by	M. Dittrick		

Purpose/Target: Definition drilling along line 254,700N to test mineralization and alteration to depth east of hole 93-163 and south of hole 93-207.

Comments: The entire hole consisted of phyllic altered granodiorite except for the upper 41.98 m which was supergene clay altered.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	6.10	2.44	589169	CAP	WRGD	3	4400	0.01	0.003	0.07	
6.10	9.14	3.04	589170	CAP	WRGD	3	7060	0.01	0.005	0.10	
9.14	12.19	3.05	589171	CAP	WRGD	3	9980	0.01	0.002	0.07	
12.19	15.24	3.05	589172	CAP	WRGD	3	9100	0.01	0.004	0.17	
15.24	18.29	3.05	589173	CAP	WRGD	3	8040	0.01	0.002	0.07	
18.29	21.34	3.05	589174	CAP	WRGD	3	4880	<0.01	0.003	0.03	
21.34	24.38	3.04	589175	CAP	WRGD	3	8200	0.01	0.001	0.10	
24.38	27.43	3.05	589176	CAP	WRGD	3	10540	0.01	0.001	0.07	
27.43	30.48	3.05	589177	CAP	WRGD	3	9520	0.01	0.002	0.14	
30.48	33.53	3.05	589178	CAP	WRGD	3	9700	<0.01	0.004	0.10	
33.53	36.58	3.05	589179	CAP	WRGD	3	9860	<0.01	0.003	0.21	
36.58	39.62	3.04	589180	CAP	WRGD	3	9580	<0.01	0.002	0.51	
39.62	42.67	3.05	589181	SUS	WRGD	5	10140	<0.01	0.008	0.10	
42.67	45.72	3.05	589182	SUS	WRGD	5	10340	0.01	0.004	0.07	
45.72	48.77	3.05	589183	SUS	WRGD	5	9020	0.05	0.001	0.10	
48.77	51.82	3.05	589184	SUS	WRGD	5	10660	0.04	<0.001	0.10	
51.82	54.86	3.04	589185	SUS	WRGD	5	11400	0.05	0.001	0.07	
54.86	57.91	3.05	589186	SUS	WRGD	5	10720	0.07	0.001	0.14	
57.91	60.96	3.05	589187	SUS	WRGD	5	12600	0.07	<0.001	0.14	
60.96	64.01	3.05	589188	SUS	WRGD	5	12940	0.05	0.002	0.14	
64.01	67.06	3.05	589189	SUS	WRGD	5	10480	0.08	<0.001	0.41	
67.06	70.10	3.04	589190	SUS	WRGD	5	11240	0.10	<0.001	0.10	
70.10	73.15	3.05	589191	SUS	WRGD	5	9100	0.11	<0.001	0.07	
73.15	76.20	3.05	589192	SUS	WRGD	5	10960	0.09	<0.001	0.10	
76.20	79.25	3.05	589193	SUS	WRGD	5	11140	0.17	<0.001	0.10	
79.25	82.30	3.05	589194	SUS	WRGD	5	12160	0.08	<0.001	0.07	
82.30	85.34	3.04	589195	SUS	WRGD	5	11760	0.08	0.002	<0.03	
85.34	88.39	3.05	589196	SUS	WRGD	5	11620	0.09	0.001	0.07	
88.39	91.44	3.05	589197	SUS	WRGD	5	13500	0.10	0.002	0.07	
91.44	94.49	3.05	589198	SUS	WRGD	5	12040	0.04	0.001	0.03	
94.49	97.54	3.05	589199	SUS	WRGD	5	10620	0.09	<0.001	0.03	
97.54	100.58	3.04	589200	SUS	WRGD	5	12960	0.05	0.001	0.07	
100.58	103.63	3.05	589201	SUS	WRGD	5	12340	0.03	<0.001	0.07	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
103.63	106.68	3.05	589202	SUS	WRGD	5	12280	0.15	0.001	<0.03	
106.68	109.73	3.05	589203	SUS	WRGD	5	13040	0.06	<0.001	0.07	
109.73	112.78	3.05	589204	SUS	WRGD	5	11580	0.02	<0.001	0.03	
112.78	115.82	3.04	589205	SUS	WRGD	5	10440	0.05	<0.001	0.14	
115.82	118.87	3.05	589206	SUS	WRGD	5	10820	0.03	<0.001	0.14	
118.87	121.92	3.05	589207	SUS	WRGD	5	11180	0.08	<0.001	<0.03	
121.92	124.97	3.05	589208	SUS	WRGD	5	10180	0.09	<0.001	<0.03	
124.97	128.02	3.05	589209	SUS	WRGD	5	13000	0.04	<0.001	0.03	
128.02	131.06	3.04	589210	SUS	WRGD	5	11280	0.05	0.001	<0.03	
131.06	134.11	3.05	589211	SUS	WRGD	5	11760	0.15	<0.001	<0.03	
134.11	137.16	3.05	589212	SUS	WRGD	5	9780	0.11	0.001	<0.03	
137.16	140.21	3.05	589213	SUS	WRGD	5	9960	0.13	<0.001	<0.03	
140.21	143.26	3.05	589214	HYP	WRGD	5	12320	0.04	<0.001	<0.03	
143.26	146.30	3.04	589215	HYP	WRGD	5	12120	0.02	0.002	<0.03	
146.30	149.35	3.05	589216	HYP	WRGD	5	12840	0.01	<0.001	<0.03	
149.35	152.40	3.05	589217	HYP	WRGD	5	13380	0.02	0.001	<0.03	
152.40	155.45	3.05	589218	HYP	WRGD	5	12840	0.06	0.002	<0.03	
155.45	158.50	3.05	589219	HYP	WRGD	5	13020	0.09	0.001	<0.03	
158.50	161.54	3.04	589220	HYP	WRGD	5	12960	0.03	0.003	<0.03	
161.54	164.59	3.05	589221	HYP	WRGD	5	12900	0.01	0.006	<0.03	
164.59	167.64	3.05	589222	HYP	WRGD	5	13100	0.01	0.004	0.17	
167.64	170.69	3.05	589223	HYP	WRGD	5	12220	0.03	0.001	<0.03	
170.69	173.74	3.05	589224	HYP	WRGD	5	12020	0.03	0.002	<0.03	
173.74	176.78	3.04	589225	HYP	WRGD	5	13440	0.07	<0.001	<0.03	
176.78	179.83	3.05	589226	HYP	WRGD	5	13900	0.01	<0.001	<0.03	
179.83	182.88	3.05	589227	HYP	WRGD	5	12820	<0.01	<0.001	<0.03	
182.88	185.93	3.05	589228	HYP	WRGD	5	13420	<0.01	0.001	<0.03	
185.93	188.98	3.05	589229	HYP	WRGD	5	14260	<0.01	0.001	<0.03	
188.98	192.02	3.04	589230	HYP	WRGD	5	14400	0.04	0.003	<0.03	
192.02	195.07	3.05	589231	HYP	WRGD	5	12820	0.01	0.001	<0.03	
195.07	198.12	3.05	589232	HYP	WRGD	5	13400	0.07	0.002	<0.03	
198.12	201.17	3.05	589233	HYP	WRGD	5	14100	0.01	0.001	0.03	
201.17	204.22	3.05	589234	HYP	WRGD	5	12960	<0.01	0.001	0.07	
204.22	207.26	3.04	589235	HYP	WRGD	5	13500	<0.01	<0.001	<0.03	
207.26	210.31	3.05	589236	HYP	WRGD	5	14120	0.01	<0.001	<0.03	
210.31	213.36	3.05	589237	HYP	WRGD	5	13620	0.01	0.001	<0.03	
213.36	216.41	3.05	589238	HYP	WRGD	5	13560	0.01	0.002	<0.03	
216.41	219.46	3.05	589239	HYP	WRGD	5	14280	0.01	0.001	<0.03	
219.46	222.50	3.04	589240	HYP	WRGD	5	14100	0.01	<0.001	<0.03	
222.50	225.55	3.05	589241	HYP	WRGD	5	13420	0.01	<0.001	<0.03	
225.55	228.60	3.05	589242	HYP	WRGD	5	14820	0.01	<0.001	0.03	
228.60	231.65	3.05	589243	HYP	WRGD	5	14160	0.01	0.001	<0.03	
231.65	234.70	3.05	589244	HYP	WRGD	5	13240	0.02	0.001	<0.03	
234.70	237.74	3.04	589245	HYP	WRGD	5	14960	0.01	0.002	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
237.74	240.79	3.05	589246	HYP	WRGD	5	14580	<0.01	0.001	<0.03	
240.79	243.84	3.05	589247	HYP	WRGD	5	13360	0.02	0.003	<0.03	
243.84	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-225	Total Depth	320.65 m
Northing	255,002.42	Casing Depth	12.2 m Left In
Easting	110,802.38	Survey Data	Azimuth / Dip / Instrument
Elevation	1276.10 m	Collar	-90.0°
Core Size	HW	152.4 m	332° / -85.5° / Sperry Sun
Drilling Started	October 5, 1993	306.9 m	-90.0° / Sperry Sun
Drilling Finished	October 11, 1993		
Logged by	S. de Wit		

Purpose/Target:

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.23	8.23		OVB							
8.23	10.97	2.74	565887	CAP	PPDP	3/5	7160	0.04	0.026	0.17	
10.97	13.41	2.44	565888	CAP	PPDP	3/5	8520	0.05	0.027	0.14	
13.41	15.24	1.83	565889	CAP	PPDP	3/5	4440	0.04	0.012	0.07	
15.24	16.76	1.52	565890	CAP	PPDP	3/5	3100	0.04	0.012	0.14	
16.76	20.42	3.66	565891	CAP	PPDP	3/5	11920	0.05	0.013	0.14	
20.42	23.47	3.05	565892	CAP	PPDP	5/7	11280	0.05	0.015	0.17	
23.47	26.52	3.05	565893	CAP	PPDP	5/7	11020	0.04	0.037	0.07	
26.52	29.57	3.05	565894	SOX	PPDP	5/7	10600	0.06	0.035	0.07	
29.57	32.61	3.04	565895	SOX	PPDP	5/7	11000	0.06	0.020	0.10	
32.61	35.66	3.05	565896	SOX	PPDP	5/7	11400	0.09	0.015	0.24	
35.66	38.71	3.05	565897	SOX	PPDP	5/7	11960	0.12	0.012	0.14	
38.71	41.76	3.05	565898	SOX	PPDP	5/7	12040	0.14	0.020	0.17	
41.76	44.81	3.05	565899	SOX	PPDP	5/7	12100	0.13	0.023	0.17	
44.81	47.85	3.04	565900	SOX	PPDP	5/7	11440	0.26	0.025	0.07	
47.85	50.90	3.05	565901	SOX	PPDP	5/7	12560	0.30	0.036	0.17	
50.90	53.95	3.05	565902	SOX	PPDP	5	12500	0.21	0.028	0.10	
53.95	57.00	3.05	565903	SOX	PPDP	5	11800	0.25	0.053	0.24	
57.00	60.05	3.05	565904	SOX	PPDP	5	12920	0.23	0.044	0.21	
60.05	63.09	3.04	565905	SOX	PPDP	5	11020	0.14	0.068	0.17	
63.09	66.14	3.05	565906	SOX	PPDP	5	10920	0.09	0.031	0.10	
66.14	69.19	3.05	565907	TRN	PPDP	5	11340	0.17	0.034	0.17	
69.19	71.93	2.74	565908	TRN	PPDP	7	9280	0.24	0.048	0.24	
71.93	74.68	2.75	565909	SUS	MBFP	7	9100	0.29	0.043	0.24	
74.68	77.42	2.74	565910	SUS	MBFP	7	9520	0.18	0.027	0.17	
77.42	79.86	2.44	565911	SUS	MBFP	7	8680	0.22	0.030	0.17	
79.86	82.91	3.05	565912	SUS	MBFP	7	10480	0.25	0.042	0.17	
82.91	84.43	1.52	565913	SUS	MBFP	7	4500	0.20	0.033	0.14	
84.43	87.48	3.05	565914	SUS	MBFP	7	11460	0.23	0.016	0.17	
87.48	89.92	2.44	565915	SUS	MBFP	7	8800	0.26	0.029	0.31	
89.92	92.96	3.04	565916	SUS	MBFP	7	10620	0.23	0.030	0.34	
92.96	95.71	2.75	565917	SUS	MBFP	7	9320	0.27	0.040	0.38	
95.71	98.76	3.05	565918	SUS	MBFP	7	11000	0.34	0.052	0.41	
98.76	101.80	3.04	565919	SUS	MBFP	7	9620	0.29	0.032	0.58	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
101.80	104.24	2.44	565920	SUS	MBFP	3/7	9980	0.25	0.042	0.34	
104.24	105.77	1.53	565921	SUS	MBFP	7	4980	0.21	0.020	0.27	
105.77	108.20	2.43	565922	SUS	MBFP	7	8640	0.19	0.029	0.24	
108.20	109.73	1.53	565923	SUS	MBFP	7	6800	0.21	0.075	0.24	
109.73	111.86	2.13	565924	SUS	MBFP	7	9540	0.18	0.028	0.21	
111.86	114.91	3.05	565925	SUS	MBFP	7	14440	0.20	0.057	0.24	
114.91	117.96	3.05	565926	HYP	MBFP	7/5	14100	0.12	0.028	0.17	
117.96	120.70	2.74	565927	HYP	MBFP	7/5	10480	0.08	0.012	0.21	
120.70	123.75	3.05	565928	HYP	MBFP	7/5	12320	0.11	0.013	0.14	
123.75	127.10	3.35	565929	HYP	MBFP	7/5	13160	0.06	0.010	0.07	
127.10	130.15	3.05	565930	HYP	MBFP	7/5	11900	0.09	0.020	0.14	
130.15	133.20	3.05	565931	HYP	MBFP	7/5	10400	0.05	0.030	0.07	
133.20	135.64	2.44	565932	HYP	MBFP	7/5	9000	0.06	0.026	0.07	
135.64	138.04	2.40	565933	HYP	IXPA	7/5	9160	0.10	0.021	0.10	
138.04	141.12	3.08	565934	HYP	IXPA	7/5	9380	0.08	0.012	0.07	
141.12	144.17	3.05	565935	HYP	IXPA	7/5	11660	0.12	0.017	0.10	
144.17	145.69	1.52	565936	HYP	IXPA	7/5	8640	0.05	0.010	0.07	
145.69	148.44	2.75	565937	HYP	IXPA	7/5	8460	0.04	0.009	0.03	
148.44	151.49	3.05	565938	HYP	IXPA	7/5	10820	0.09	0.021	0.14	
151.49	154.33	2.84	565939	HYP	IXPA	7/5	12460	0.09	0.030	0.10	
154.33	157.58	3.25	565940	HYP	IXPA	7/5	10600	0.08	0.020	0.07	
157.58	160.63	3.05	565941	HYP	IXPA	7/5	12260	0.07	0.008	0.03	
160.63	163.68	3.05	565942	HYP	IXPA	7/5	11060	0.05	0.013	<0.03	
163.68	166.73	3.05	565943	HYP	IXPA	7/5	11960	0.08	0.017	0.07	
166.73	169.77	3.04	565944	HYP	IXPA	7/5	12280	0.14	0.023	0.21	
169.77	172.82	3.05	565945	HYP	IXPA	7/5	12020	0.09	0.011	0.10	
172.82	175.87	3.05	565946	HYP	IXPA	7/5	12760	0.08	0.017	0.45	
175.87	178.92	3.05	565947	HYP	IXPA	7/5	11240	0.25	0.006	2.61	
178.92	181.97	3.05	565948	HYP	IXPA	7/5	12120	0.08	0.015	0.10	
181.97	185.01	3.04	565949	HYP	IXPA	7/5	12680	0.47	0.016	0.17	
185.01	188.06	3.05	565950	HYP	IXPA	7/5	12860	0.12	0.019	0.58	
188.06	191.11	3.05	565951	HYP	IXPA	7/5	11900	0.16	0.020	0.10	
191.11	194.16	3.05	565952	HYP	IXPA	7/5	12000	0.09	0.019	0.10	
194.16	197.21	3.05	565953	HYP	IXPA	7/5	12640	0.09	0.028	0.10	
197.21	200.25	3.04	565954	HYP	IXPA	7/5	10500	0.07	0.015	0.07	
200.25	203.30	3.05	565955	HYP	IXPA	7/5	14120	0.03	0.007	0.10	
203.30	206.35	3.05	565956	HYP	MBFP	7/5	12860	0.07	0.013	0.10	
206.35	209.40	3.05	565957	HYP	MBFP	7/5	11520	0.06	0.014	0.03	
209.40	212.45	3.05	565958	HYP	MBFP	7/5	10560	0.08	0.012	0.10	
212.45	215.49	3.04	565959	HYP	MBFP	7/5	11880	0.09	0.015	0.07	
215.49	218.54	3.05	565960	HYP	MBFP	7/5	12860	0.17	0.032	0.14	
218.54	221.59	3.05	565961	HYP	MBFP	7/5	11940	0.09	0.012	0.07	
221.59	224.64	3.05	565962	HYP	MBFP	7/5	12300	0.09	0.017	0.07	
224.64	227.69	3.05	565963	HYP	MBFP	7/5	12600	0.09	0.011	0.03	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-225

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
227.69	230.73	3.04	565964	HYP	MBFP	7/5	11800	0.12	0.026	0.10	
230.73	233.78	3.05	565965	HYP	MBFP	7/5	11460	0.10	0.040	0.10	
233.78	236.83	3.05	565966	HYP	MBFP	7/5	11620	0.13	0.028	0.17	
236.83	239.57	2.74	565967	HYP	MBFP	7/5	12500	0.11	0.018	0.10	
239.57	242.47	2.90	565968	HYP	MBFP	7/5	11420	0.06	0.013	0.07	
242.47	245.52	3.05	565969	HYP	MBFP	7/5	12720	0.12	0.097	0.10	
245.52	248.56	3.04	565970	HYP	MBFP	7/5	11700	0.08	0.018	0.07	
248.56	251.61	3.05	565971	HYP	MBFP	7/5	12160	0.08	0.012	0.21	
251.61	254.81	3.20	565972	HYP	MBFP	7/5	11900	0.06	0.022	<0.03	
254.81	257.86	3.05	565973	HYP	MBCP	7/5	11260	0.10	0.030	0.07	
257.86	261.21	3.35	565974	HYP	MBCP	7/5	13360	0.10	0.025	0.03	
261.21	264.26	3.05	565975	HYP	MBCP	7/5	13180	0.05	0.024	<0.03	
264.26	267.31	3.05	565976	HYP	MBCP	7/5	12860	0.05	0.027	0.07	
267.31	270.36	3.05	565977	HYP	MBCP	7/5	12800	0.14	0.037	0.34	
270.36	273.41	3.05	565978	HYP	MBCP	7/5	12620	0.03	0.014	0.07	
273.41	276.45	3.04	565979	HYP	MBCP	5/7	12360	0.05	0.019	0.27	
276.45	279.50	3.05	565980	HYP	MBCP	5/7	12140	0.11	0.008	0.17	
279.50	282.55	3.05	565981	HYP	MBCP	5/7	11460	0.06	0.013	0.07	
282.55	285.60	3.05	565982	HYP	MBCP	7/5	10100	0.03	0.009	0.07	
285.60	288.65	3.05	565983	HYP	MBCP	7/5	10900	0.05	0.010	0.10	
288.65	291.69	3.04	565984	HYP	MBCP	7/5	11460	0.03	0.010	<0.03	
291.69	294.74	3.05	565985	HYP	MBCP	7/5	10220	0.04	0.011	0.03	
294.74	297.79	3.05	565986	HYP	MBCP	7/5	10800	0.07	0.020	0.07	
297.79	300.53	2.74	565987	HYP	MBCP	7/5	11100	0.06	0.031	0.07	
300.53	303.89	3.36	565988	HYP	MBCP	7/5	13200	0.04	0.028	0.07	
303.89	306.93	3.04	565989	HYP	MBCP	7/5	15540	0.03	0.035	0.03	
306.93	309.98	3.05	565990	HYP	MBCP	7/5	14200	0.09	0.018	0.10	
309.98	313.03	3.05	565991	HYP	MBCP	5/7	13460	0.08	0.039	0.07	
313.03	316.08	3.05	565992	HYP	MBCP	5/7	14580	0.10	0.036	0.10	
316.08	319.13	3.05	565993	HYP	MBCP	7/5	14840	0.04	0.024	0.03	
319.13	320.65	1.52	565994	HYP	MBCP	7/5	7720	0.06	0.020	<0.03	
320.65	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-226	Total Depth	252.98 m
Northing	254,699.59	Casing Depth	12.19 m Left In
Easting	111,600.49	Survey Data	Azimuth Dip Instrument
Elevation	1164.11 m	Collar	-90.0°
Core Size	HQ	155.45 m	290° -89.5° Sperry Sun
Drilling Started	October 8, 1993		
Drilling Finished	October 11, 1993		
Logged by	M. Dittrick		

Purpose/Target: Definition drilling along 254,700N to test mineralization and alteration to depth east of Hole 93-224 (along southern edge of proposed "Starter Pit").

Comments: Copper mineralization occurred dominantly as chalcocite coatings on pyrite in the supergene sulphide zone.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	12.50	12.50		OVB							
12.50	15.24	2.74	589248	CAP	QMFX	3/5	4300	<0.01	0.002	0.07	
15.24	18.29	3.05	589249	CAP	QMFX	3/5	9620	<0.01	0.001	0.03	
18.29	21.34	3.05	589250	CAP	QMFX	3/5	10860	0.01	0.003	0.03	
21.34	24.38	3.04	589251	CAP	QMFX	3/5	10120	0.04	0.003	0.07	
24.38	27.43	3.05	589252	CAP	QMFX	3/5	11360	0.16	0.002	0.10	
27.43	30.48	3.05	589253	SUS	QMFX	3/5	9920	0.15	0.002	0.07	
30.48	33.53	3.05	589254	SUS	QMFX	3/5	12860	0.17	0.001	0.10	
33.53	36.58	3.05	589255	SUS	QMFX	5/3	12940	0.16	0.020	0.10	
36.58	39.62	3.04	589256	SUS	QMFX	5/3	10240	0.15	0.011	0.10	
39.62	42.67	3.05	589257	SUS	QMFX	5	12020	0.16	0.059	<0.03	
42.67	45.72	3.05	589258	SUS	QMFX	5	10700	0.16	0.008	0.07	
45.72	48.77	3.05	589259	SUS	QMFX	5	11080	0.18	0.004	0.07	
48.77	51.82	3.05	589260	SUS	QMFX	5	12560	0.21	0.002	<0.03	
51.82	54.86	3.04	589261	SUS	QMFX	5	11340	0.17	0.004	0.07	
54.86	57.91	3.05	589262	SUS	WRDR	3	8840	0.29	0.006	0.07	
57.91	60.96	3.05	589263	SUS	WRDR	3	10620	0.21	0.002	<0.03	
60.96	64.01	3.05	589264	SUS	WRDR	3	10240	0.21	0.002	<0.03	
64.01	67.06	3.05	589265	SUS	WRDR	3	9780	0.10	0.002	0.07	
67.06	70.10	3.04	589266	SUS	WRDR	3	12100	0.15	0.003	0.10	
70.10	73.15	3.05	589267	SUS	QMIE	3/5	11900	0.10	0.043	<0.03	
73.15	76.20	3.05	589268	SUS	QMIE	3/5	13700	0.10	0.003	0.03	
76.20	79.25	3.05	589269	SUS	QMIE	3	7580	0.06	0.005	0.03	
79.25	82.30	3.05	589270	SUS	QMIE	3/5	9900	0.07	0.002	0.10	
82.30	85.34	3.04	589271	SUS	QMIE	3/5	11000	0.07	0.001	0.07	
85.34	88.39	3.05	589272	SUS	QMIE	3/5	13800	0.06	0.003	0.03	
88.39	91.44	3.05	589273	SUS	QMIE	3/5	10600	0.13	0.003	0.14	
91.44	94.49	3.05	589274	SUS	QMIE	3/5	10140	0.11	0.006	0.07	
94.49	97.54	3.05	589275	SUS	QMIE	3/5	11100	0.07	0.002	0.07	
97.54	100.58	3.04	589276	SUS	QMIE	5/3	12200	0.05	0.006	0.03	
100.58	103.63	3.05	589277	SUS	QMIE	5/3	9840	0.06	0.005	0.07	
103.63	106.68	3.05	589278	SUS	QMIE	5/3	10680	0.06	0.004	<0.03	
106.68	109.73	3.05	589279	SUS	QMIE	5/3	8960	0.08	0.003	0.03	
109.73	112.78	3.05	589280	SUS	QMIE	5/3	9280	0.07	0.012	0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
112.78	115.82	3.04	589281	SUS	QMIE	5/3	11280	0.07	0.004	<0.03	
115.82	118.87	3.05	589282	SUS	LTDB	3	10560	0.05	0.005	<0.03	
118.87	121.92	3.05	589283	SUS	LTDB	3	11320	<0.01	0.001	<0.03	
121.92	124.97	3.05	589284	SUS	LTDB	3	12240	0.01	0.001	<0.03	
124.97	128.02	3.05	589285	SUS	LTDB	3	12440	0.11	0.001	0.03	
128.02	131.06	3.04	589286	SUS	QMIE	5/3	11940	0.05	0.002	0.07	
131.06	134.11	3.05	589287	SUS	QMIE	5/3	13580	0.08	0.009	0.10	
134.11	137.16	3.05	589288	SUS	QMIE	5/3	11420	0.11	0.015	0.07	
137.16	140.21	3.05	589289	SUS	LTDB	5/3	11320	0.05	0.002	0.07	
140.21	143.26	3.05	589290	SUS	LTDB	3	10080	0.02	0.001	0.03	
143.26	146.30	3.04	589291	SUS	LTDB	3	7500	0.01	<0.001	<0.03	
146.30	149.35	3.05	589292	SUS	LTDB	3	9340	0.07	0.002	0.14	
149.35	152.40	3.05	589293	SUS	WRGD	3	11280	0.08	0.002	0.10	
152.40	155.45	3.05	589294	SUS	WRGD	3	9180	0.04	0.003	0.21	
155.45	158.50	3.05	589295	SUS	WRGD	5/3	13260	<0.01	0.001	<0.03	
158.50	161.54	3.04	589296	SUS	WRGD	5	12940	<0.01	0.001	<0.03	
161.54	164.59	3.05	589297	SUS	WRGD	5	14440	0.01	0.002	0.07	
164.59	167.64	3.05	589298	SUS	WRGD	5	13920	0.02	0.001	0.00	
167.64	170.69	3.05	589299	HYP	WRGD	3/5	12080	0.01	<0.001	<0.03	
170.69	173.74	3.05	589300	HYP	WRGD	5	14400	<0.01	<0.001	<0.03	
173.74	176.78	3.04	589301	HYP	WRGD	5	10320	0.01	<0.001	<0.03	
176.78	179.83	3.05	589302	HYP	WRGD	5	10800	0.01	<0.001	<0.03	
179.83	182.88	3.05	589303	HYP	WRGD	5	13160	0.02	<0.001	<0.03	
182.88	185.93	3.05	589304	HYP	WRGD	5	13460	0.02	<0.001	<0.03	
185.93	188.98	3.05	589305	HYP	WRGD	5	12640	0.02	<0.001	<0.03	
188.98	192.02	3.04	589306	HYP	WRGD	5	13080	0.02	<0.001	<0.03	
192.02	195.07	3.05	589307	HYP	WRGD	5	13740	0.02	<0.001	0.10	
195.07	198.12	3.05	589308	HYP	WRGD	5	15180	0.02	<0.001	0.10	
198.12	201.17	3.05	589309	HYP	WRGD	5	13680	0.01	<0.001	<0.03	
201.17	204.22	3.05	589310	HYP	WRGD	5	13600	0.01	<0.001	0.07	
204.22	207.26	3.04	589311	HYP	WRGD	5/6	13020	0.02	<0.001	0.03	
207.26	210.31	3.05	589312	HYP	WRGD	5/6	1344	0.02	<0.001	<0.03	
210.31	213.36	3.05	589313	HYP	WRGD	5/6	13860	0.02	<0.001	0.03	
213.36	216.41	3.05	589314	HYP	WRGD	5	13740	0.02	<0.001	0.10	
216.41	219.46	3.05	589315	HYP	WRGD	5	11920	0.02	<0.001	<0.03	
219.46	222.50	3.04	589316	HYP	WRGD	5	15560	0.02	<0.001	0.03	
222.50	225.55	3.05	589317	HYP	WRGD	5/6	13440	0.02	0.002	<0.03	
225.55	228.60	3.05	589318	HYP	WRGD	5/6	13540	0.02	<0.001	<0.03	
228.60	231.65	3.05	589319	HYP	WRGD	5/6	11280	0.02	0.001	<0.03	
231.65	234.70	3.05	589320	HYP	WRGD	5	12820	0.01	<0.001	<0.03	
234.70	237.74	3.04	589321	HYP	WRGD	5	14140	0.03	<0.001	<0.03	
237.74	240.79	3.05	589322	HYP	WRGD	5	12800	0.01	<0.001	<0.03	
240.79	243.84	3.05	589323	HYP	WRGD	5	13880	0.03	<0.001	<0.03	
243.84	246.89	3.05	589324	HYP	WRGD	5	13400	0.02	<0.001	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
246.89	249.94	3.05	589325	HYP	WRGD	5	13240	0.02	<0.001	<0.03	
249.94	252.98	3.04	589326	HYP	WRGD	5	13520	0.02	<0.001	<0.03	
252.98	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-227	Total Depth	335.58 m		
Northing	255,101.98	Casing Depth	5.49 m		Left In
Easting	110,798.15	Survey Data	Azimuth	Dip	Instrument
Elevation	1264.31 m	Collar		-90.0°	
Core Size	HQ	154.53 m	070°	-89.5°	Sperry Sun
Drilling Started	October 11, 1993	306.93 m	088°	-89.5°	Sperry Sun
Drilling Finished	October 17, 1993				
Logged by	W.D. Mann				

Purpose/Target: Delineation, north-central area.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.57	4.57		OVB							
4.57	7.92	3.35	565995	CAP	IXAF	7/3	11120	0.04	0.021	0.07	
7.92	11.27	3.35	565996	CAP	IXAF	7/3	11840	0.03	0.008	0.07	
11.27	14.33	3.06	565997	CAP	IXAF	7/3	10960	0.02	0.009	0.03	
14.33	16.76	2.43	565998	CAP	IXAF	7/3	9640	0.02	0.028	0.10	
16.76	18.59	1.83	565999	CAP	IXAF	7/3	5700	0.04	0.021	0.21	
18.59	20.42	1.83	566000	CAP	IXAF	7/3	6200	0.09	0.006	0.17	
20.42	22.86	2.44	940001	CAP	IXAF	7/3	8100	0.01	0.010	0.07	
22.86	24.99	2.13	940002	CAP	IXAF	7/3	7440	0.03	0.007	0.07	
24.99	27.13	2.14	940003	CAP	IXAF	7/3	8120	0.04	0.011	0.07	
27.13	29.57	2.44	940004	CAP	IXAF	7/3	8080	0.05	0.018	0.14	
29.57	32.00	2.43	940005	CAP	IXAF	7/3	9120	0.03	0.013	0.51	
32.00	35.05	3.05	940006	SOX	IXAF	7/3	11240	0.04	0.009	0.03	
35.05	38.40	3.35	940007	SOX	IXAF	7/3	12420	0.03	0.008	0.14	
38.40	41.45	3.05	940008	SOX	IXAF	7/3	12860	0.05	0.020	0.10	
41.45	44.50	3.05	940009	SOX	IXAF	7/3	11780	0.05	0.018	0.10	
44.50	47.54	3.04	940010	SUS	IXAF	7/3	9300	0.04	0.009	0.31	
47.54	50.60	3.06	940011	SUS	IXAF	7/3	11880	0.04	0.006	0.10	
50.60	53.64	3.04	940012	SUS	IXAF	7/3	11880	0.07	0.008	0.21	
53.64	56.69	3.05	940013	SUS	IXAF	7/3	10480	0.11	0.007	0.14	
56.69	59.44	2.75	940014	SUS	IXAF	7/3	8560	1.42	0.041	0.65	
59.44	62.48	3.04	940015	SUS	IXAF	7/3	13720	0.51	0.015	0.14	
62.48	66.14	3.66	940016	SUS	MBCH	7/5	13340	0.25	0.034	0.14	
66.14	69.19	3.05	940017	SUS	MBCH	7/5	11060	0.14	0.009	0.07	
69.19	72.24	3.05	940018	SUS	MBCH	7/5	10740	0.25	0.014	0.07	
72.24	74.98	2.74	940019	SUS	MBCH	7/5	9660	0.53	0.007	0.34	
74.98	78.03	3.05	940020	SUS	MBCH	7/5	9720	0.21	0.010	0.10	
78.03	81.38	3.35	940021	SUS	MBCH	7/5	11040	0.23	0.009	0.24	
81.38	84.43	3.05	940022	SUS	MBCH	7/5	11340	0.26	0.013	0.14	
84.43	86.87	2.44	940023	SUS	MBCH	7/5	8480	0.14	0.009	0.10	
86.87	89.92	3.05	940024	HYP	PPDP	7/5	11240	0.11	0.019	0.10	
89.92	93.57	3.65	940025	HYP	PPDP	7/5	10580	0.10	0.032	0.14	
93.57	96.62	3.05	940026	HYP	PPDP	7/5	13140	0.08	0.012	0.14	
96.62	99.67	3.05	940027	HYP	PPDP	7/5	10340	0.11	0.029	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.67	101.80	2.13	940028	HYP	PPDP	7/5	7800	0.06	0.006	0.07	
101.80	105.77	3.97	940029	HYP	MBCH	7	11780	0.04	0.047	0.17	
105.77	108.81	3.04	940030	HYP	MBCH	7	12280	0.05	0.013	0.10	
108.81	111.86	3.05	940031	HYP	MBCH	7	11140	0.05	0.010	0.03	
111.86	115.82	3.96	940032	HYP	PPDP	7	15680	0.07	0.013	0.21	
115.82	117.96	2.14	940033	HYP	PPDP	7	8380	0.03	0.006	0.07	
117.96	121.01	3.05	940034	HYP	PPDP	7	12040	0.09	0.022	0.24	
121.01	124.05	3.04	940035	HYP	PPDP	7	11300	0.06	0.017	0.21	
124.05	126.64	2.59	940036	HYP	PPDP	7	10060	0.04	0.026	0.10	
126.64	129.69	3.05	940037	HYP	PPDP	7	11880	0.08	0.007	0.34	
129.69	133.20	3.51	940038	HYP	MBCH	7	14300	0.06	0.013	0.10	
133.20	136.25	3.05	940039	HYP	MBCH	7	10240	0.10	0.017	0.17	
136.25	139.29	3.04	940040	HYP	MBCH	7	13460	0.12	0.014	0.14	
139.29	141.73	2.44	940041	HYP	MBCH	7	10920	0.06	0.021	0.14	
141.73	145.39	3.66	940042	HYP	MBCH	7	12580	0.18	0.039	0.31	
145.39	148.44	3.05	940043	HYP	MBCH	7	10000	0.09	0.010	0.14	
148.44	151.49	3.05	940044	HYP	MBCH	7	10240	0.04	0.006	0.07	
151.49	154.53	3.04	940045	HYP	MBCH	7	8840	0.08	0.008	0.14	
154.53	156.97	2.44	940046	HYP	MBCH	7	9180	0.05	0.014	0.34	
156.97	160.02	3.05	940047	HYP	MBCH	7	10740	0.02	0.019	0.07	
160.02	162.46	2.44	940048	HYP	MBCH	7	8800	0.02	0.004	<0.03	
162.46	165.51	3.05	940049	HYP	MBCH	7	11320	0.02	0.010	0.03	
165.51	167.94	2.43	940050	HYP	MBCH	7	8580	0.01	0.007	0.03	
167.94	169.77	1.83	940051	HYP	MBCH	7/2	5760	0.02	0.007	0.07	
169.77	172.82	3.05	940052	HYP	MBCH	7/2	10880	0.03	0.076	0.03	
172.82	175.87	3.05	940053	HYP	MBCH	7/2	12720	0.07	0.020	0.14	
175.87	178.92	3.05	940054	HYP	MBCH	7/2	12340	0.08	0.024	0.10	
178.92	181.97	3.05	940055	HYP	MBCH	7/2	11680	0.04	0.006	0.07	
181.97	185.01	3.04	940056	HYP	MBCH	7/2	12700	0.04	0.009	0.07	
185.01	188.06	3.05	940057	HYP	MBCH	7/2	13820	0.04	0.027	0.10	
188.06	191.11	3.05	940058	HYP	MBCH	7/2	12100	0.03	0.009	0.07	
191.11	194.16	3.05	940059	HYP	MBCH	7/2	12680	0.06	0.019	0.14	
194.16	197.21	3.05	940060	HYP	MBCH	7/2	11880	0.04	0.034	0.07	
197.21	200.25	3.04	940061	HYP	MBCH	7/5	12500	0.03	0.006	0.07	
200.25	203.30	3.05	940062	HYP	MBCH	7/5	11620	0.05	0.012	0.07	
203.30	206.35	3.05	940063	HYP	MBCH	7/5	11820	0.06	0.018	0.03	
206.35	209.40	3.05	940064	HYP	MBCH	7/5	11340	0.03	0.012	0.03	
209.40	212.14	2.74	940065	HYP	MBCH	7/5	13120	0.04	0.010	<0.03	
212.14	215.19	3.05	940066	HYP	MBCH	7/5	11360	0.10	0.020	0.17	
215.19	218.54	3.35	940067	HYP	MBCH	7/5	12360	0.07	0.015	0.03	
218.54	221.59	3.05	940068	HYP	MBCH	7/5	11520	0.04	0.037	0.10	
221.59	224.33	2.74	940069	HYP	MBCH	7/5	9120	0.02	0.010	0.17	
224.33	227.08	2.75	940070	HYP	MBCH	7/5	8660	0.03	0.008	0.03	
227.08	228.60	1.52	940071	HYP	MBCH	7/5	4160	0.02	0.016	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-227

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
228.60	230.73	2.13	940072	HYP	MBCH	7/5	6940	0.06	0.360	0.21	
230.73	234.09	3.36	940073	HYP	MBCH	7/5	10520	0.03	0.017	0.07	
234.09	236.83	2.74	940074	HYP	MBCH	7/5	8940	0.01	0.003	<0.03	
236.83	239.88	3.05	940075	HYP	MBCH	7/5	9700	0.04	0.019	0.07	
239.88	242.93	3.05	940076	HYP	MBCH	7/5	10140	0.02	0.007	0.07	
242.93	245.97	3.04	940077	HYP	MBCH	7/5	8940	0.05	0.048	0.10	
245.97	249.02	3.05	940078	HYP	MBCH	7/5	9800	0.05	0.020	0.14	
249.02	252.07	3.05	940079	HYP	MBCH	7/5	9200	0.04	0.014	0.03	
252.07	255.12	3.05	940080	HYP	MBCH	7/5	10260	0.05	0.015	0.07	
255.12	257.25	2.13	940081	HYP	MBCH	7	6140	0.03	0.008	0.03	
257.25	260.60	3.35	940082	HYP	MBCH	7	11480	0.04	0.013	0.07	
260.60	263.65	3.05	940083	HYP	MBCH	7	6980	0.03	0.014	0.07	
263.65	266.70	3.05	940084	HYP	MBCH	7	10180	0.04	0.034	0.07	
266.70	269.44	2.74	940085	HYP	MBCH	7	8020	0.03	0.018	0.10	
269.44	270.97	1.53	940086	HYP	MBCH	7	6720	0.01	0.015	<0.03	
270.97	273.41	2.44	940087	HYP	MBCH	7	7640	0.01	0.007	0.03	
273.41	275.23	1.82	940088	HYP	MBCH	7	6380	0.02	0.023	<0.03	
275.23	276.45	1.22	940089	HYP	MBCH	7	3440	<0.01	0.025	<0.03	
276.45	279.50	3.05	940090	HYP	MBCH	7	10140	0.01	0.027	<0.03	
279.50	282.55	3.05	940091	HYP	MBCH	7	9440	0.04	0.018	0.07	
282.55	285.60	3.05	940092	HYP	MBCH	7	8860	0.04	0.010	0.07	
285.60	288.04	2.44	940093	HYP	MBCH	7	7700	0.04	0.023	0.07	
288.04	289.56	1.52	940094	HYP	MBCH	7	3800	0.01	0.008	<0.03	
289.56	291.69	2.13	940095	HYP	MBCH	7	8140	<0.01	0.004	<0.03	
291.69	294.74	3.05	940096	HYP	MBCH	7	10740	0.01	0.006	<0.03	
294.74	297.79	3.05	940097	HYP	MBCH	7	7820	0.01	0.005	<0.03	
297.79	300.84	3.05	940098	HYP	MBCH	7	14860	0.01	0.044	0.10	
300.84	303.89	3.05	940099	HYP	MBCH	7	11070	0.03	0.026	0.14	
303.89	306.93	3.04	940100	HYP	MBCH	7	9140	0.01	0.025	<0.03	
306.93	309.98	3.05	940101	HYP	MBCH	7	10560	0.01	0.007	<0.03	
309.98	313.03	3.05	940102	HYP	MBCH	7	10100	0.07	0.016	0.07	
313.03	316.08	3.05	940103	HYP	MBCH	7	10200	0.04	0.008	<0.03	
316.08	319.13	3.05	940104	HYP	MBCH	7	10980	0.03	0.011	<0.03	
319.13	322.17	3.04	940105	HYP	MBCH	7	12560	0.05	0.049	0.14	
322.17	325.22	3.05	940106	HYP	MBCH	7	6900	0.02	0.009	0.03	
325.22	328.27	3.05	940107	HYP	MBCH	7	10920	0.01	0.028	<0.03	
328.27	331.32	3.05	940108	HYP	MBCH	7	11600	0.01	0.009	0.03	
331.32	334.37	3.05	940109	HYP	MBCH	7	10980	0.02	0.009	0.07	
334.37	335.58	1.21	940110	HYP	MBCH	7	4500	0.02	0.004	<0.03	
335.58	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-228	Total Depth	331.32 m
Northing	254,903.95	Casing Depth	10.97 m Left Out
Easting	110,398.93	Survey Data	Azimuth Dip Instrument
Elevation	1238.26 m	Collar	-90.0°
Core Size	HQ	154.53 m	225° -88.0° Sperry Sun
Drilling Started	October 12, 1993	304.80 m	020° -88.7° Sperry Sun
Drilling Finished	October 18, 1993		
Logged by	P. Fischl		

Purpose/Target: To extend zone of copper mineralization encountered in Holes P-5, 93-148 and 93-160 (West Zone).

Comments: This hole encountered weakly mineralized, potassic-altered Patton Porphyry (PPDP), with a few short sections of milled breccia (MBCX, MBNX), intrusion breccia (IXAX) and granodiorite (WRGD).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	10.97	10.97		OVB							
10.97	12.19	1.22	589915	CAP	MBCX	3/7	3060	0.05	0.090	0.31	
12.19	15.24	3.05	589916	CAP	MBCX	3/7	10200	0.04	0.110	0.31	
15.24	18.29	3.05	589917	CAP	MBCX	3/7	8440	0.03	0.104	0.27	
18.29	20.42	2.13	589918	CAP	MBCX	3/7	6960	0.04	0.104	0.21	
20.42	23.47	3.05	589919	CAP	MBCX	3/7	9680	0.04	0.046	0.24	
23.47	26.52	3.05	589920	CAP	MBCX	3/7	9720	0.04	0.065	0.31	
26.52	29.26	2.74	589921	CAP	MBCX	3/7	9140	0.04	0.076	0.31	
29.26	32.31	3.05	589922	CAP	MBCX	3/7	8320	0.04	0.061	0.27	
32.31	34.44	2.13	589923	CAP	MBCX	3/7	7460	0.05	0.080	0.41	
34.44	37.49	3.05	589924	SUS	MBCX	3	8740	0.04	0.055	0.21	
37.49	41.45	3.96	589925	CAP	MBCX	3/7	11840	0.03	0.073	0.38	
41.45	44.50	3.05	589926	CAP	PPDP	3/7	8520	0.03	0.031	0.14	
44.50	47.55	3.05	589927	HYP	PPDP	3/7	9800	0.03	0.036	0.03	
47.55	50.60	3.05	589928	HYP	PPDP	3/7	8060	0.03	0.022	0.03	
50.60	53.34	2.74	589929	HYP	PPDP	3/7	9220	0.02	0.026	0.07	
53.34	56.39	3.05	589930	HYP	PPDP	3/7	10180	0.05	0.030	0.07	
56.39	59.74	3.35	589931	HYP	PPDP	3/7	5880	0.08	0.021	0.07	
59.74	61.87	2.13	589932	HYP	MBNX	7/1	6080	0.16	0.063	0.21	
61.87	64.31	2.44	589933	SUS	PPDP	3/7	7400	0.20	0.058	0.14	
64.31	67.06	2.75	589934	SUS	PPDP	3/7	7120	0.08	0.017	<0.03	
67.06	70.10	3.04	589935	SUS	MBNX	7/3	9460	0.09	0.047	0.24	
70.10	73.15	3.05	589936	SUS	MBNX	7/3	9920	0.26	0.052	0.41	
73.15	75.29	2.14	589937	SUS	MBNX	7/3	6520	0.32	0.056	0.31	
75.29	78.33	3.04	589938	SUS	MBNX	7/3	10140	0.28	0.054	0.31	
78.33	81.38	3.05	589939	SUS	MBNX	7/3	9780	0.22	0.120	0.27	
81.38	84.43	3.05	589940	SUS	MBNX	7/3	10500	0.14	0.090	0.17	
84.43	86.25	1.82	589941	SUS	PPDP	3/7	4520	0.07	0.010	0.03	
86.25	89.00	2.75	589942	SUS	WRGD	3/7	9120	0.23	0.022	0.17	
89.00	92.05	3.05	589943	SUS	PPDP	3/7	10960	0.18	0.028	<0.03	
92.05	95.10	3.05	589944	SUS	PPDP	3/7	11860	0.22	0.005	<0.03	
95.10	97.23	2.13	589945	HYP	PPDP	3/7	7000	0.23	0.003	<0.03	
97.23	99.67	2.44	589946	HYP	PPDP	3/7	7380	0.16	0.005	<0.03	
99.67	102.41	2.74	589947	HYP	PPDP	7/3	10840	0.07	0.004	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.41	105.16	2.75	589948	HYP	PPDP	7/3	9320	0.08	0.003	<0.03	
105.16	108.81	3.65	589949	HYP	PPDP	7/3	13680	0.05	0.005	<0.03	
108.81	111.86	3.05	589950	HYP	PPDP	7/3	12880	0.04	0.003	<0.03	
111.86	114.91	3.05	940501	HYP	PPDP	7/3	11200	0.05	0.005	<0.03	
114.91	117.35	2.44	940502	HYP	PPDP	7/3	9400	0.06	0.007	<0.03	
117.35	120.40	3.05	940503	HYP	PPDP	7/3	12040	0.06	0.003	<0.03	
120.40	124.05	3.65	940504	HYP	PPDP	7/3	12180	0.06	0.011	<0.03	
124.05	127.10	3.05	940505	HYP	PPDP	7/3	12940	0.04	0.013	0.07	
127.10	130.15	3.05	940506	HYP	PPDP	7	11560	0.05	0.005	<0.03	
130.15	133.20	3.05	940507	HYP	PPDP	7	10820	0.06	0.008	<0.03	
133.20	134.72	1.52	940508	HYP	PPDP	7	5060	0.05	0.004	<0.03	
134.72	137.77	3.05	940509	HYP	PPDP	7	11400	0.05	0.006	<0.03	
137.77	140.82	3.05	940510	HYP	PPDP	7	9920	0.06	0.004	<0.03	
140.82	143.56	2.74	940511	HYP	PPDP	7	9740	0.05	0.002	<0.03	
143.56	145.39	1.83	940512	HYP	PPDP	7	7400	0.16	0.004	<0.03	
145.39	148.44	3.05	940513	HYP	PPDP	7	12020	0.05	0.006	<0.03	
148.44	151.49	3.05	940514	HYP	PPDP	7	11000	0.07	0.004	0.07	
151.49	154.53	3.04	940515	HYP	PPDP	7	11420	0.04	0.008	<0.03	
154.53	157.58	3.05	940516	HYP	PPDP	7	11940	0.04	0.009	0.03	
157.58	160.63	3.05	940517	HYP	PPDP	7	12000	0.10	0.016	<0.03	
160.63	163.68	3.05	940518	HYP	PPDP	7	12980	0.07	0.004	0.10	
163.68	166.73	3.05	940519	HYP	PPDP	7	12180	0.05	0.008	0.07	
166.73	169.77	3.04	940520	HYP	PPDP	7	12080	0.06	0.010	<0.03	
169.77	172.82	3.05	940521	HYP	PPDP	7	11260	0.08	0.003	<0.03	
172.82	175.87	3.05	940522	HYP	PPDP	7	12360	0.09	0.009	0.10	
175.87	178.92	3.05	940523	HYP	PPDP	7	11120	0.05	0.006	<0.03	
178.92	181.97	3.05	940524	HYP	PPDP	7	10080	0.06	0.004	<0.03	
181.97	185.01	3.04	940525	HYP	PPDP	7	13740	0.05	0.003	<0.03	
185.01	187.15	2.14	940526	HYP	PPDP	7	8940	0.07	0.006	0.07	
187.15	189.28	2.13	940527	HYP	PPDP	7	7760	0.05	0.004	<0.03	
189.28	192.33	3.05	940528	HYP	PPDP	7	12540	0.08	0.006	<0.03	
192.33	195.38	3.05	940529	HYP	PPDP	7	10740	0.06	0.004	0.07	
195.38	197.21	1.83	940530	HYP	PPDP	7	6340	0.05	0.002	<0.03	
197.21	200.25	3.04	940531	HYP	PPDP	7	11860	0.04	0.005	<0.03	
200.25	203.30	3.05	940532	HYP	PPDP	7	12780	0.04	0.003	0.07	
203.30	206.35	3.05	940533	HYP	PPDP	7	13060	0.03	0.004	0.07	
206.35	209.40	3.05	940534	HYP	WRGD	7	13240	0.01	0.043	<0.03	
209.40	212.45	3.05	940535	HYP	WRGD	7	13000	0.02	0.013	<0.03	
212.45	215.50	3.05	940536	HYP	PPDP	7	13540	0.03	0.004	<0.03	
215.50	218.54	3.04	940537	HYP	PPDP	7	12800	0.03	0.009	<0.03	
218.54	221.59	3.05	940538	HYP	PPDP	7	12740	0.03	0.012	<0.03	
221.59	224.64	3.05	940539	HYP	PPDP	7	13680	0.09	0.055	0.10	
224.64	227.69	3.05	940540	HYP	PPDP	7	13200	0.10	0.025	0.07	
227.69	230.73	3.04	940541	HYP	IXAX	7	12960	0.09	0.063	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-228

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
230.73	233.78	3.05	940542	HYP	IXAX	7	13540	0.10	0.035	0.10	
233.78	236.83	3.05	940543	HYP	IXAX	7	13400	0.10	0.037	0.14	
236.83	239.88	3.05	940544	HYP	IXAX	7	13080	0.14	0.041	0.14	
239.88	242.93	3.05	940545	HYP	IXAX	7	13180	0.10	0.033	0.07	
242.93	245.97	3.04	940546	HYP	IXAX	7	12580	0.12	0.033	0.10	
245.97	249.02	3.05	940547	HYP	PPDP	7	12220	0.06	0.019	0.07	
249.02	252.07	3.05	940548	HYP	PPDP	7	12600	0.04	0.009	0.03	
252.07	255.12	3.05	940549	HYP	PPDP	7	11620	0.02	0.005	0.07	
255.12	258.17	3.05	940550	HYP	PPDP	7	12640	0.03	0.003	<0.03	
258.17	261.21	3.04	940551	HYP	PPDP	7	11160	0.04	0.004	0.07	
261.21	264.26	3.05	940552	HYP	PPDP	7	11980	0.02	0.003	<0.03	
264.26	267.31	3.05	940553	HYP	PPDP	7	12420	0.04	0.002	0.10	
267.31	270.36	3.05	940554	HYP	PPDP	6	11220	0.19	0.008	0.69	
270.36	273.41	3.05	940555	HYP	PPDP	6	12260	0.06	0.012	0.07	
273.41	276.45	3.04	940556	HYP	PPDP	6	12780	0.07	0.004	0.07	
276.45	279.50	3.05	940557	HYP	PPDP	6	11360	0.05	0.003	0.10	
279.50	282.55	3.05	940558	HYP	PPDP	7	11320	0.02	0.002	<0.03	
282.55	285.60	3.05	940559	HYP	PPDP	7/3	11760	0.03	0.009	0.07	
285.60	288.65	3.05	940560	HYP	PPDP	7/3	13300	0.02	0.003	<0.03	
288.65	291.69	3.04	940561	HYP	PPDP	7/3	12560	0.06	0.002	0.07	
291.69	294.74	3.05	940562	HYP	PPDP	7/3	11920	0.07	0.002	0.10	
294.74	297.79	3.05	940563	HYP	PPDP	7/3	11900	0.03	0.001	0.03	
297.79	300.84	3.05	940564	HYP	PPDP	7/3	13020	0.03	0.001	0.07	
300.84	303.89	3.05	940565	HYP	PPDP	7/3	12500	0.03	0.004	<0.03	
303.89	306.93	3.04	940566	HYP	PPDP	7/3	11900	0.04	0.003	<0.03	
306.93	309.98	3.05	940567	HYP	PPDP	7/3	12460	0.04	0.002	<0.03	
309.98	313.03	3.05	940568	HYP	PPDP	7/3	13040	0.05	0.004	<0.03	
313.03	316.08	3.05	940569	HYP	PPDP	7/3	11000	0.06	0.003	<0.03	
316.08	319.13	3.05	940570	HYP	PPDP	7/3	12500	0.03	0.009	<0.03	
319.13	322.17	3.04	940571	HYP	PPDP	7	12880	0.02	0.004	<0.03	
322.17	325.22	3.05	940572	HYP	PPDP	7	12740	0.01	0.006	<0.03	
325.22	328.27	3.05	940573	HYP	PPDP	7	12680	0.02	0.005	<0.03	
328.27	331.32	3.05	940574	HYP	PPDP	7	12460	0.02	0.006	<0.03	
331.32	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-229	Total Depth	270.36 m		
Northing	254,705.02	Casing Depth	7.01m		Left Out
Easting	110,797.26	Survey Data	Azimuth	Dip	Instrument
Elevation	1302.61 m	Collar		-90.0°	
Core Size	HQ	270.36 m	045°	-89.5°	Sperry Sun
Drilling Started	October 11, 1993				
Drilling Finished	October 17, 1993				
Logged by	T. Becker				

Purpose/Target: Delineation hole to test west-central area of deposit.

Comments: Drill hole intersected Patton Porphyry with weak potassic alteration cut by weak to moderate phyllic (5) veins. No major structures or shears intersected.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.71	6.71		OVB							
6.71	9.45	2.74	566959	CAP	PPDP	7/3	7520	0.03	0.002	0.07	
9.45	12.80	3.35	566960	CAP	PPDP	7/3	10380	0.03	0.023	0.10	
12.80	15.85	3.05	566961	CAP	PPDP	7/3	10980	0.02	0.008	0.10	
15.85	18.90	3.05	566962	CAP	PPDP	7/3	10000	0.02	0.003	0.10	
18.90	21.64	2.74	566963	CAP	PPDP	7/3	10000	0.03	0.010	0.07	
21.64	24.69	3.05	566964	CAP	PPDP	7/3	7900	0.03	0.002	0.10	
24.69	28.04	3.35	566965	CAP	PPDP	7/3	11000	0.03	0.014	0.03	
28.04	30.78	2.74	566966	CAP	PPDP	7/3	9580	0.03	0.006	0.07	
30.78	34.14	3.36	566967	CAP	PPDP	7/3	10380	0.03	0.006	0.07	
34.14	37.19	3.05	566968	CAP	PPDP	7/3	10100	0.03	0.015	0.07	
37.19	40.08	2.89	566969	CAP	PPDP	7/3	7400	0.02	0.003	0.03	
40.08	43.28	3.20	566970	CAP	PPDP	7/3	7920	0.02	0.003	0.07	
43.28	46.33	3.05	566971	CAP	PPDP	7/3	10480	0.03	0.005	0.03	
46.33	48.77	2.44	566972	CAP	PPDP	5/3	7680	0.02	0.004	0.07	
48.77	50.90	2.13	566973	SOX	PPDP	5/3	7320	0.01	0.002	0.03	
50.90	53.95	3.05	566974	SOX	PPDP	5/3	9680	0.02	0.009	0.10	
53.95	57.00	3.05	566975	SOX	PPDP	7/3	12780	0.04	0.025	<0.03	
57.00	60.05	3.05	566976	SUS	PPDP	7/3	13800	0.05	0.002	0.03	
60.05	63.09	3.04	566977	SUS	PPDP	5/3	11580	0.04	0.005	<0.03	
63.09	66.14	3.05	566978	SUS	PPDP	7/5	10900	0.14	0.036	0.07	
66.14	69.19	3.05	566979	SUS	PPDP	7/5	11280	0.20	0.004	<0.03	
69.19	71.63	2.44	566980	SUS	PPDP	7/5	9020	0.22	0.003	0.34	
71.63	75.29	3.66	566981	SUS	PPDP	7/5	12920	0.05	0.004	<0.03	
75.29	78.33	3.04	566982	SUS	PPDP	7/5	11080	0.07	0.005	0.03	
78.33	81.38	3.05	566983	SUS	PPDP	7/5	12840	0.07	0.007	0.07	
81.38	84.43	3.05	566984	SUS	PPDP	7/5	11360	0.03	0.022	0.03	
84.43	87.48	3.05	566985	SUS	PPDP	7/5	12340	0.26	0.007	0.07	
87.48	90.53	3.05	566986	SUS	PPDP	7/5	11160	0.19	0.006	<0.03	
90.53	93.57	3.04	566987	SUS	PPDP	7/5	11880	0.09	0.007	0.07	
93.57	96.62	3.05	566988	SUS	PPDP	7/5	11000	0.11	0.010	<0.03	
96.62	99.67	3.05	566989	SUS	PPDP	7/5	12220	0.18	0.021	0.03	
99.67	102.72	3.05	566990	SUS	PPDP	7/5	11040	0.28	0.005	<0.03	
102.72	105.77	3.05	566991	SUS	PPDP	7/5	12740	0.16	0.005	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	566992	SUS	PPDP	7/5	12260	0.20	0.005	<0.03	
108.81	111.10	2.29	566993	SUS	PPDP	7/5	6820	0.70	0.009	<0.03	
111.10	113.54	2.44	566994	SUS	PPDP	7/5	10600	0.22	0.012	<0.03	
113.54	114.91	1.37	566995	SUS	PPDP	7/5	5900	0.05	0.002	<0.03	
114.91	117.96	3.05	566996	SUS	PPDP	7/5	12440	0.15	0.004	0.03	
117.96	120.40	2.44	566997	SUS	PPDP	7/5	11300	0.27	0.016	<0.03	
120.40	123.44	3.04	566998	SUS	PPDP	7/5	12040	0.24	0.025	<0.03	
123.44	126.49	3.05	566999	SUS	PPDP	7/5	13440	0.22	0.016	0.07	
126.49	130.15	3.66	567000	SUS	PPDP	7/5	14620	0.40	0.024	0.07	
130.15	133.20	3.05	567001	SUS	PPDP	7/5	12640	0.04	0.004	0.07	
133.20	136.25	3.05	567002	SUS	PPDP	7/5	11960	0.12	0.004	0.07	
136.25	139.29	3.04	567003	SUS	PPDP	7/5	12520	0.11	0.004	<0.03	
139.29	142.04	2.75	567004	SUS	PPDP	7/5	11160	0.04	0.006	<0.03	
142.04	145.39	3.35	567005	SUS	PPDP	7/5	14920	0.12	0.009	0.03	
145.39	148.44	3.05	567006	SUS	PPDP	7/5	12320	0.37	0.006	0.14	
148.44	151.49	3.05	567007	SUS	PPDP	7/5	13360	0.08	0.004	0.14	
151.49	153.62	2.13	567008	SUS	PPDP	7/5	7920	0.10	0.010	0.75	
153.62	156.36	2.74	567009	SUS	PPDP	7/5	10560	0.06	0.002	<0.03	
156.36	158.50	2.14	567010	SUS	PPDP	7/5	7740	0.15	0.015	0.07	
158.50	160.63	2.13	567011	SUS	PPDP	7/5	7620	0.04	0.014	0.03	
160.63	163.68	3.05	567012	SUS	PPDP	7/5	12040	0.06	0.005	0.03	
163.68	166.73	3.05	567013	SUS	PPDP	7/5	10780	0.05	0.015	<0.03	
166.73	169.77	3.04	567014	SUS	PPDP	7/5	13360	0.11	0.007	<0.03	
169.77	172.82	3.05	567015	SUS	PPDP	7/5	13340	0.12	0.071	<0.03	
172.82	175.87	3.05	567016	SUS	PPDP	7/5	11740	0.14	0.015	0.07	
175.87	178.92	3.05	567017	SUS	PPDP	7/5	12340	0.07	0.011	<0.03	
178.92	181.97	3.05	567018	TRN	PPDP	7/5	11300	0.05	0.013	0.07	
181.97	185.01	3.04	567019	TRN	PPDP	7/5	12380	0.08	0.022	0.10	
185.01	188.06	3.05	567020	TRN	PPDP	7/5	12620	0.03	0.009	<0.03	
188.06	191.11	3.05	567021	TRN	PPDP	7/5	12640	0.02	0.010	0.03	
191.11	194.16	3.05	567022	TRN	PPDP	7/5	11700	0.11	0.013	0.27	
194.16	197.21	3.05	567023	TRN	PPDP	7/5	11820	0.13	0.018	0.07	
197.21	200.25	3.04	567024	TRN	PPDP	7/5	11960	0.15	0.036	0.07	
200.25	203.30	3.05	567025	TRN	PPDP	7/5	11840	0.06	0.010	<0.03	
203.30	206.35	3.05	567026	TRN	PPDP	7/5	12220	0.04	0.009	<0.03	
206.35	209.40	3.05	567027	TRN	PPDP	7/5	11120	0.07	0.019	0.18	
209.40	212.45	3.05	567028	TRN	PPDP	7/5	13260	0.04	0.012	<0.03	
212.45	215.49	3.04	567029	HYP	PPDP	7/5	14180	0.03	0.010	<0.03	
215.49	218.54	3.05	567030	HYP	PPDP	7/5	14080	0.01	0.009	<0.03	
218.54	221.59	3.05	567031	HYP	PPDP	7/5	13180	0.01	0.119	<0.03	
221.59	224.64	3.05	567032	HYP	PPDP	7/5	12540	0.03	0.012	<0.03	
224.64	227.69	3.05	567033	HYP	PPDP	7/5	13880	0.10	0.026	0.48	
227.69	230.73	3.04	567034	HYP	PPDP	7/5	13060	0.03	0.010	<0.03	
230.73	233.78	3.05	567035	HYP	PPDP	7/5	13920	0.02	0.011	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-229

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	567036	HYP	PPDP	7/5	12920	0.02	0.008	<0.03	
236.83	239.88	3.05	567037	HYP	PPDP	7/5	12400	0.04	0.010	<0.03	
239.88	242.93	3.05	567038	HYP	PPDP	7/5	13000	0.03	0.003	<0.03	
242.93	245.97	3.04	567039	HYP	PPDP	7/5	12680	0.03	0.015	<0.03	
245.97	249.02	3.05	567040	HYP	PPDP	7/5	13600	0.04	0.011	<0.03	
249.02	252.07	3.05	567041	HYP	PPDP	7/5	12780	0.02	0.012	<0.03	
252.07	255.12	3.05	567042	HYP	PPDP	7/5	12900	0.05	0.021	<0.03	
255.12	258.17	3.05	567043	HYP	PPDP	7/5	12400	0.02	0.013	<0.03	
258.17	261.21	3.04	567044	HYP	PPDP	7/5	11500	0.02	0.002	<0.03	
261.21	264.26	3.05	567045	HYP	PPDP	7/5	12160	0.02	0.013	<0.03	
264.26	267.31	3.05	567046	HYP	PPDP	7/5	13000	0.02	0.013	<0.03	
267.31	270.36	3.05	567047	HYP	PPDP	7/5	12720	0.02	0.007	<0.03	
270.36	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-230	Total Depth	246.89 m		
Northing	224,999.77	Casing Depth	40.54 m		Left Out
Easting	110,098.53	Survey Data	Azimuth	Dip	Instrument
Elevation	1222.68 m	Collar		-90.00°	Brunton Compass
Core Size	HQ	164.59 m	160°	-89.25°	Sperry Sun
Drilling Started	October 12, 1993				
Drilling Finished	October 16, 1993				
Logged by	M. Sze/T. Case				

Purpose/Target: To confirm extent of supergene mineralization seen in Hole P-11 (at 254,984N; 110,062E) and test the extent of the west pit.

Comments: Strong supergene Cu mineralization, very weak hypogene Cu mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	7.62	7.62									
7.62	9.14	1.52	589327	CAP	QMCX	3	2280	0.02	0.020	0.27	
9.14	12.19	3.05	589328	CAP	QMCX	3	5780	0.01	0.019	0.21	
12.19	15.24	3.05	589329	CAP	QMCX	3	8160	0.02	0.040	0.17	
15.24	18.29	3.05	589330	CAP	QMCX	3	7720	0.01	0.049	0.14	
18.29	21.34	3.05	589331	CAP	QMCX	3	7800	0.01	0.027	0.21	
21.34	24.38	3.04	589332	CAP	QMCX	3	8040	0.01	0.028	0.21	
24.38	27.43	3.05	589333	CAP	QMCX	3	8800	<0.01	0.035	0.24	
27.43	30.48	3.05	589334	CAP	QMCX	3	9620	0.01	0.039	0.34	
30.48	33.53	3.05	589335	CAP	QMCX	3/5	9160	0.01	0.014	0.17	
33.53	36.58	3.05	589336	TRN	QMCX	3/5	8080	<0.01	0.034	0.17	
36.58	39.62	3.04	589337	TRN	QMCX	3/5	8140	0.03	0.058	0.21	
39.62	42.67	3.05	589338	TRN	QMCX	3/5	8600	0.02	0.063	0.24	
42.67	45.72	3.05	589339	SUS	QXAX	3/5	10180	0.28	0.086	0.45	
45.72	48.77	3.05	589340	SUS	WRDR	3/5/7	9420	0.72	0.024	0.51	
48.77	51.21	2.44	589341	SUS	WRDR	3/5/7	6800	0.57	0.021	0.34	
51.21	54.86	3.65	589342	SUS	WRDR	3/5/7	11500	0.55	0.013	0.45	
54.86	57.91	3.05	589343	SUS	WRDR	3/5/7	8720	0.74	0.011	0.51	
57.91	60.96	3.05	589344	SUS	WRDR	3/5/7	8660	0.88	0.028	0.58	
60.96	64.01	3.05	589345	SUS	WRDR	3/5/7	10880	0.46	0.012	0.31	
64.01	67.06	3.05	589346	SUS	WRDR	3/5/7	9340	0.62	0.016	0.31	
67.06	70.10	3.04	589347	SUS	WRDR	3/5/7	7060	0.66	0.018	0.38	
70.10	73.15	3.05	589348	SUS	WRDR	3/5/7	9100	0.76	0.053	0.51	
73.15	75.59	2.44	589349	SUS	WRDR	3/5/7	7480	1.05	0.063	0.65	
75.59	78.03	2.44	589350	SUS	WRDR	3/5/7	7840	0.98	0.015	0.62	
78.03	80.47	2.44	589351	SUS	WRDR	3/5/7	6880	0.81	0.015	0.48	
80.47	82.30	1.83	589352	SUS	WRDR	3/5/7	7060	0.82	0.011	0.34	
82.30	84.73	2.43	589353	SUS	WRDR	3/5/7	8240	0.66	0.012	0.38	
84.73	87.17	2.44	589354	SUS	WRDR	3/5/7	5400	0.74	0.042	0.31	
87.17	89.92	2.75	589355	SUS	IXAF	5/3	8600	0.47	0.053	0.31	
89.92	93.88	3.96	589356	SUS	IXAF	5/3	15620	0.20	0.028	0.14	
93.88	96.93	3.05	589357	SUS	IXAF	5/3	12420	0.17	0.027	0.07	
96.93	100.58	3.65	589358	SUS	WRGD	5/3/7	14820	0.13	0.044	0.14	
100.58	103.63	3.05	589359	SUS	WRGD	5/3/7	10140	0.31	0.012	0.34	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
103.63	106.68	3.05	589360	HYP	WRGD	5/3/7	11900	0.21	0.022	0.21	
106.68	109.73	3.05	589361	HYP	WRGD	5/3/7	10220	0.29	0.020	0.45	
109.73	112.78	3.05	589362	HYP	WRGD	5/3/7	10380	0.24	0.024	0.34	
112.78	115.82	3.04	589363	HYP	WRGD	5/3/7	11860	0.10	0.030	0.17	
115.82	118.87	3.05	589364	HYP	WRGD	5/3/7	11820	0.23	0.022	0.31	
118.87	121.92	3.05	589365	HYP	WRGD	5/3/7	10040	0.23	0.051	0.24	
121.92	124.97	3.05	589366	HYP	WRGD	5/3/7	12420	0.20	0.028	0.21	
124.97	128.02	3.05	589367	HYP	WRGD	5/4/7	10440	0.24	0.041	0.24	
128.02	131.06	3.04	589368	HYP	WRGD	5/4/7	12960	0.24	0.024	0.27	
131.06	134.11	3.05	589369	HYP	WRGD	5/4/7	13260	0.16	0.034	0.14	
134.11	137.16	3.05	589370	HYP	WRGD	5/4/7	11480	0.15	0.024	0.14	
137.16	140.21	3.05	589371	HYP	WRGD	5/4/7	12640	0.23	0.032	0.24	
140.21	143.26	3.05	589372	HYP	WRGD	5/4/7	13180	0.10	0.012	0.10	
143.26	146.30	3.04	589373	HYP	WRGD	5/4/7	12380	0.23	0.020	0.24	
146.30	149.35	3.05	589374	HYP	WRGD	5/4/7	11640	0.21	0.044	0.21	
149.35	152.40	3.05	589375	HYP	WRGD	5/4/7	11580	0.19	0.040	0.14	
152.40	155.45	3.05	589376	HYP	WRGD	5/4/7	12140	0.21	0.041	0.10	
155.45	158.50	3.05	589377	HYP	WRGD	5/4/7	13480	0.18	0.029	0.17	
158.50	161.54	3.04	589378	HYP	WRGD	5/4/7	12460	0.15	0.028	0.48	
161.54	164.59	3.05	589379	HYP	QMFX	5/4/7	12580	0.11	0.059	0.10	
164.59	167.64	3.05	589380	HYP	QMFX	5/4/7	12060	0.15	0.050	0.07	
167.64	170.69	3.05	589381	HYP	WRGD	5/4/7	12620	0.11	0.022	0.07	
170.69	173.74	3.05	589382	HYP	WRGD	5/4/7	12660	0.17	0.021	0.17	
173.74	176.78	3.04	589383	HYP	WRGD	5/4/7	12240	0.09	0.017	0.10	
176.78	179.83	3.05	589384	HYP	WRGD	5/4/7	12960	0.07	0.006	0.07	
179.83	182.88	3.05	589385	HYP	WRGD	5/4/7	12060	0.09	0.015	0.17	
182.88	185.93	3.05	589386	HYP	WRGD	5/4/7	13600	0.09	0.009	0.07	
185.93	188.98	3.05	589387	HYP	WRGD	5/4/7	12900	0.13	0.017	0.10	
188.98	192.02	3.04	589388	HYP	WRGD	5/4/7	13000	0.13	0.020	0.07	
192.02	195.07	3.05	589389	HYP	WRGD	5/4/7	12320	0.08	0.010	0.10	
195.07	198.12	3.05	589390	HYP	WRGD	5/4/7	12740	0.08	0.009	0.07	
198.12	201.17	3.05	589391	HYP	WRGD	5/4/7	12040	0.09	0.013	0.07	
201.17	204.22	3.05	589392	HYP	WRGD	5/4/7	12180	0.05	0.016	0.07	
204.22	207.26	3.04	589393	HYP	WRGD	5/4/7	12780	0.03	0.046	0.03	
207.26	210.31	3.05	589394	HYP	WRGD	5/4/7	12200	0.11	0.026	0.10	
210.31	213.36	3.05	589395	HYP	WRGD	5/4/7	12000	0.11	0.015	0.14	
213.36	216.41	3.05	589396	HYP	WRGD	5/4/7	12820	0.06	0.072	0.10	
216.41	219.46	3.05	589397	HYP	WRGD	5/4/7	14000	0.07	0.008	0.10	
219.46	222.50	3.04	589398	HYP	WRGD	5/4/7	12400	0.11	0.024	0.10	
222.50	225.55	3.05	589399	HYP	WRGD	5/4/7	12620	0.09	0.009	0.07	
225.55	228.60	3.05	589400	HYP	WRGD	5/4/7	12960	0.15	0.059	0.10	
228.60	231.65	3.05	589401	HYP	WRGD	5/4/7	12420	0.13	0.439	0.10	
231.65	234.70	3.05	589402	HYP	WRGD	7/5	11920	0.10	0.025	0.07	
234.70	237.74	3.04	589403	HYP	WRGD	7/5	12060	0.13	0.057	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
237.74	240.79	3.05	589404	HYP	WRGD	7/5	11060	0.14	0.337	0.10	
240.79	243.84	3.05	589405	HYP	WRGD	7/5	11260	0.14	0.187	0.10	
243.84	246.89	3.05	589406	HYP	WRGD	7/5	13460	0.18	0.053	0.21	
246.89	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-231	Total Depth	268.22 m
Northing	254,899.99	Casing Depth	23.47 m Left Out
Easting	110,199.89	Survey Data	Azimuth Dip Instrument
Elevation	1235.77 m	Collar	-90.0°
Core Size	HW	152.40 m	320° -88.9° Sperry Sun
Drilling Started	October 16, 1993		
Drilling Finished	October 21, 1993		
Logged by	S. de Wit/M. Dittrick		

Purpose/Target: West Pit

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	24.38	24.38		OVB							
24.38	27.43	3.05	589407	CAP	WRGD	3	10620	0.03	0.066	0.34	
27.43	30.48	3.05	589408	CAP	QMFX	7/3	10920	0.02	0.065	0.21	
30.48	33.53	3.05	589409	CAP	WRGD	7/3	10410	0.02	0.045	0.14	
33.53	36.58	3.05	589410	CAP	PPDP	7/3	12120	0.01	0.031	0.17	
36.58	39.62	3.04	589411	CAP	WRGD	7/3	10200	0.02	0.033	0.17	
39.62	42.67	3.05	589412	CAP	PPDP	7	11020	0.02	0.032	0.17	
42.67	45.72	3.05	589413	TRN	WRGD	7	11620	0.03	0.030	0.14	
45.72	48.77	3.05	589414	TRN	WRGD	5	11000	0.07	0.093	0.10	
48.77	51.21	2.44	589415	SUS	WRGD	5/3	8120	0.17	0.033	0.10	
51.21	54.86	3.65	589416	SUS	PPDQ	5	12820	0.22	0.020	0.14	
54.86	57.91	3.05	589417	SUS	WRGD	5	9690	0.31	0.071	0.17	
57.91	60.96	3.05	589418	SUS	WRGD	5/7	10980	0.41	0.050	0.38	
60.96	64.01	3.05	589419	SUS	WRGD	5/7	10040	0.31	0.029	0.14	
64.01	67.06	3.05	589420	SUS	WRGD	5/7	11000	0.28	0.085	0.27	
67.06	70.10	3.04	589421	SUS	WRGD	5/7	11960	0.44	0.064	0.21	
70.1	73.15	3.05	589422	SUS	WRGD	5/7	11100	0.37	0.058	0.17	
73.15	76.20	3.05	589423	SUS	WRGD	6	10220	0.45	0.076	0.24	
76.2	79.25	3.05	589424	SUS	WRGD	6	12400	0.38	0.067	0.24	
79.25	82.30	3.05	589425	SUS	WRGD	6	10940	0.49	0.045	0.27	
82.3	85.34	3.04	589426	SUS	WRGD	6	11520	0.38	0.027	0.21	
85.34	88.39	3.05	589427	SUS	WRGD	6/5	11700	0.35	0.045	0.24	
88.39	91.44	3.05	589428	SUS	QMFX	6/5	11780	0.29	0.049	0.14	
91.44	94.49	3.05	589429	SUS	QMFX	6/5	11580	0.35	0.048	0.21	
94.49	97.54	3.05	589430	SUS	WRGD	6/5	12180	0.24	0.044	0.21	
97.54	100.58	3.04	589431	SUS	WRGD	6/5	11740	0.12	0.039	0.14	
100.58	103.63	3.05	589432	SUS	WRGD	6	12300	0.18	0.038	0.21	
103.63	106.68	3.05	589433	SUS	WRGD	6	11220	0.21	0.076	0.21	
106.68	109.73	3.05	589434	SUS	WRGD	6	11120	0.17	0.041	0.10	
109.73	112.78	3.05	589435	SUS	WRGD	6	11900	0.14	0.057	0.14	
112.78	115.82	3.04	589436	SUS	WRGD	7	11100	0.14	0.064	0.17	
115.82	118.87	3.05	589437	HYP	WRGD	7	12320	0.07	0.065	0.07	
118.87	121.92	3.05	589438	HYP	WRGD	7	11900	0.13	0.110	0.14	
121.92	124.97	3.05	589439	HYP	WRGD	7	11880	0.15	0.067	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
124.97	128.02	3.05	589440	HYP	WRGD	7/6	12580	0.11	0.042	0.10	
128.02	131.06	3.04	589441	HYP	WRGD	7	12900	0.14	0.034	0.10	
131.06	134.11	3.05	589442	HYP	WRGD	7	12620	0.10	0.025	0.07	
134.11	137.16	3.05	589443	HYP	WRGD	7	12780	0.08	0.028	0.07	
137.16	140.21	3.05	589444	HYP	WRGD	7	13460	0.12	0.013	0.10	
140.21	143.26	3.05	589445	HYP	WRGD	7	13980	0.15	0.021	0.14	
143.26	146.30	3.04	589446	HYP	WRGD	7/6	12860	0.11	0.049	0.10	
146.30	149.35	3.05	589447	HYP	WRGD	7/6	12460	0.08	0.036	0.10	
149.35	152.40	3.05	589448	HYP	WRGD	7/6	12350	0.08	0.045	0.10	
152.40	155.45	3.05	589449	HYP	WRGD	7	12900	0.08	0.024	0.14	
155.45	158.50	3.05	589450	HYP	WRGD	7	12960	0.10	0.028	0.14	
158.50	161.54	3.04	589451	HYP	WRGD	7	11960	0.09	0.024	0.14	
161.54	164.59	3.05	589452	HYP	WRGD	7	12780	0.11	0.027	0.21	
164.59	167.64	3.05	589453	HYP	WRGD	7	11520	0.07	0.026	0.07	
167.64	170.69	3.05	589454	HYP	WRGD	7	12200	0.07	0.023	0.10	
170.69	173.74	3.05	589455	HYP	WRGD	7	13800	0.07	0.048	0.07	
173.74	176.78	3.04	589456	HYP	WRGD	7	13520	0.06	0.032	0.14	
176.78	179.83	3.05	589457	HYP	WRGD	7	13400	0.06	0.071	0.07	
179.83	182.88	3.05	589458	HYP	WRGD	7	11960	0.15	0.045	0.14	
182.88	185.93	3.05	589459	HYP	WRGD	7	12180	0.09	0.048	0.07	
185.93	188.98	3.05	589460	HYP	WRGD	7	12480	0.12	0.073	0.10	
188.98	192.02	3.04	589461	HYP	WRGD	7	11100	0.07	0.112	0.03	
192.02	195.07	3.05	589462	HYP	WRGD	7	12060	0.08	0.084	0.07	
195.07	198.12	3.05	589463	HYP	WRGD	7	12070	0.08	0.236	0.10	
198.12	201.17	3.05	589464	HYP	WRGD	7	12100	0.13	0.080	0.10	
201.17	204.22	3.05	589465	HYP	WRGD	7	13040	0.07	0.064	0.07	
204.22	207.26	3.04	589466	HYP	WRGD	7	12020	0.12	0.230	0.10	
207.26	210.31	3.05	589467	HYP	WRGD	7	12200	0.10	0.151	0.07	
210.31	213.36	3.05	589468	HYP	WRGD	7	12820	0.14	0.124	0.17	
213.36	216.41	3.05	589469	HYP	WRGD	7	12080	0.17	0.105	0.17	
216.41	219.46	3.05	589470	HYP	WRGD	7	13000	0.14	0.075	0.14	
219.46	222.50	3.04	589471	HYP	WRGD	7	14020	0.12	0.080	0.10	
222.50	225.55	3.05	589472	HYP	WRGD	7	12380	0.07	0.120	0.03	
225.55	228.60	3.05	589473	HYP	WRGD	7	11100	0.16	0.086	0.17	
228.60	231.65	3.05	589474	HYP	WRGD	7	10040	0.15	0.086	0.17	
231.65	234.70	3.05	589475	HYP	WRGD	7	10760	0.15	0.070	0.14	
234.70	237.74	3.04	589476	HYP	WRGD	7	10940	0.17	0.083	0.17	
237.74	240.79	3.05	589477	HYP	WRGD	7	10540	0.14	0.052	0.10	
240.79	243.84	3.05	589478	HYP	WRGD	7	12000	0.12	0.022	0.14	
243.84	246.89	3.05	589479	HYP	WRGD	7	12760	0.09	0.025	0.10	
246.89	249.94	3.05	589480	HYP	IXPA	7	12060	0.05	0.017	0.07	
249.94	252.98	3.04	589481	HYP	IXPA	7	11820	0.09	0.025	0.10	
252.98	256.03	3.05	589482	HYP	IXPA	7	12000	0.16	0.035	0.14	
256.03	259.08	3.05	589483	HYP	IXPA	7	12420	0.13	0.035	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
259.08	262.13	3.05	589484	HYP	IXPA	7	12100	0.15	0.033	0.10	
262.13	265.18	3.05	589485	HYP	IXPA	7	11920	0.11	0.030	0.10	
265.18	268.22	3.04	589486	HYP	IXPA	7	11960	0.20	0.078	0.17	
268.22	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-232	Total Depth	397.76 m		
Northing	254,999.01	Casing Depth	22.5 m		Left Out
Easting	110,599.96	Survey Data	Azimuth	Dip	Instrument
Elevation	1255.89 m	Collar		-90.0°	Brunton Compass
Core Size	HQ	154.5 m	035°	-88.0°	Sperry Sun
Drilling Started	October 17, 1993	306.9 m	060°	-88.5°	Sperry Sun
Drilling Finished	October 26, 1993				
Logged by	M.P. Phillips				

Purpose/Target: Define easterly limits of mineralization in Hole 93-148.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.18	5.18		OVB							
5.18	8.23	3.05	940111	CAP	PPDP	3	3060	0.09	0.008	0.07	
8.23	10.67	2.44	940112	CAP	PPDP	3	4100	0.06	0.010	0.07	
10.67	13.87	3.20	940113	CAP	PPDP	3	7980	0.04	0.010	0.07	
13.87	17.07	3.20	940114	CAP	PPDP	3	9320	0.05	0.012	0.10	
17.07	20.42	3.35	940115	CAP	PPDP	3	6140	0.03	0.015	0.07	
20.42	23.47	3.05	940116	CAP	PPDP	3	9460	0.03	0.014	0.10	
23.47	26.52	3.05	940117	SOX	PPDP	3	9760	0.03	0.007	0.10	
26.52	29.57	3.05	940118	SOX	PPDP	3	9460	0.02	0.028	0.72	
29.57	32.61	3.04	940119	SOX	PPDP	3	7760	0.02	0.020	0.21	
32.61	35.66	3.05	940120	SOX	PPDP	3	11140	0.03	0.021	0.10	
35.66	38.71	3.05	940121	SOX	PPDP	3/7	10200	0.04	0.014	0.07	
38.71	41.76	3.05	940122	SOX	PPDP	3/7	12340	0.22	0.022	0.14	
41.76	44.81	3.05	940123	SOX	PPDP	3/7	11700	0.62	0.038	0.10	
44.81	47.85	3.04	940124	SUS	PPDP	3/7	11000	0.40	0.050	0.17	
47.85	50.90	3.05	940125	SUS	PPDP	3/7	11620	0.21	0.023	0.24	
50.90	53.95	3.05	940126	SUS	PPDP	7	10960	0.21	0.027	0.07	
53.95	55.78	1.83	940127	SUS	PPDP	7	6500	0.26	0.024	0.17	
55.78	58.83	3.05	940128	SUS	PPDP	7	11320	0.26	0.023	0.07	
58.83	61.87	3.04	940129	SUS	PPDP	7	11640	0.13	0.012	0.07	
61.87	64.92	3.05	940130	SUS	PPDP	7	11720	0.26	0.011	0.10	
64.92	67.82	2.90	940131	TRN	PPDP	7	10080	0.24	0.014	0.27	
67.82	71.02	3.20	940132	TRN	PPDP	7	13360	0.14	0.011	0.07	
71.02	74.68	3.66	940133	TRN	PPDP	7	12200	0.15	0.014	0.07	
74.68	78.33	3.65	940134	TRN	PPDP	7	12520	0.12	0.013	0.10	
78.33	81.38	3.05	940135	TRN	PPDP	7	10180	0.18	0.015	0.10	
81.38	84.43	3.05	940136	TRN	PPDP	7	10120	0.20	0.023	0.21	
84.43	86.56	2.13	940137	TRN	PPDP	7	4680	0.17	0.040	0.10	
86.56	89.61	3.05	940138	TRN	PPDP	7	10660	0.11	0.029	0.10	
89.61	93.57	3.96	940139	HYP	PPDP	7	14700	0.14	0.032	0.07	
93.57	96.62	3.05	940140	HYP	PPDP	7	11340	0.19	0.030	0.14	
96.62	99.67	3.05	940141	HYP	PPDP	7	11820	0.17	0.015	0.14	
99.67	102.72	3.05	940142	HYP	PPDP	7	9000	0.25	0.014	0.31	
102.72	105.77	3.05	940143	HYP	PPDP	7	11260	0.16	0.012	0.21	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	940144	HYP	PPDP	7	12120	0.16	0.015	0.21	
108.81	111.86	3.05	940145	HYP	PPDP	7	10020	0.22	0.036	0.17	
111.86	114.91	3.05	940146	HYP	PPDP	7	11780	0.15	0.023	0.24	
114.91	117.96	3.05	940147	HYP	PPDP	7	12000	0.23	0.015	0.14	
117.96	120.40	2.44	940148	HYP	PPDP	7	10480	0.09	0.013	0.03	
120.40	122.53	2.13	940149	HYP	PPDP	7	7100	0.08	0.011	0.10	
122.53	125.58	3.05	940150	HYP	PPDP	7	15140	0.21	0.020	1.30	
125.58	128.63	3.05	940151	HYP	PPDP	7	11200	0.20	0.044	0.24	
128.63	131.67	3.04	940152	HYP	PPDP	7	11420	0.16	0.050	0.17	
131.67	134.72	3.05	940153	HYP	PPDP	7	12540	0.19	0.063	0.21	
134.72	137.77	3.05	940154	HYP	PPDP	7	12480	0.13	0.019	0.10	
137.77	140.82	3.05	940155	HYP	PPDP	7	11780	0.16	0.072	0.14	
140.82	143.87	3.05	940156	HYP	PPDP	7	12080	0.11	0.023	0.14	
143.87	145.39	1.52	940157	HYP	PPDP	7	5500	0.13	0.036	0.21	
145.39	148.44	3.05	940158	HYP	PPDP	7	12680	0.16	0.030	0.27	
148.44	151.49	3.05	940159	HYP	PPDP	7	12860	0.13	0.016	0.17	
151.49	154.53	3.04	940160	HYP	PPDP	7	13420	0.18	0.017	0.17	
154.53	157.58	3.05	940161	HYP	PPDP	7	12280	0.15	0.020	0.21	
157.58	160.63	3.05	940162	HYP	PPDP	7	13060	0.13	0.019	0.17	
160.63	163.68	3.05	940163	HYP	PPDP	7	12180	0.23	0.022	0.17	
163.68	166.73	3.05	940164	HYP	PPDP	7	12060	0.10	0.026	0.17	
166.73	169.47	2.74	940165	HYP	PPDP	7	10000	0.11	0.028	0.10	
169.47	172.82	3.35	940166	HYP	PPDP	7	11960	0.18	0.026	0.17	
172.82	175.87	3.05	940167	HYP	PPDP	7	10700	0.11	0.024	0.10	
175.87	178.92	3.05	940168	HYP	PPDP	7	11180	0.11	0.018	0.07	
178.92	181.97	3.05	940169	HYP	PPDP	7	11600	0.15	0.045	0.17	
181.97	185.01	3.04	940170	HYP	PPDP	7	11780	0.18	0.025	0.17	
185.01	188.06	3.05	940171	HYP	PPDP	7	11860	0.17	0.031	0.14	
188.06	191.11	3.05	940172	HYP	PPDP	7	11380	0.21	0.022	0.14	
191.11	193.55	2.44	940173	HYP	PPDP	7	9320	0.20	0.035	0.21	
193.55	196.60	3.05	940174	HYP	PPDP	7	11880	0.19	0.023	0.14	
196.60	199.34	2.74	940175	HYP	PPDP	7	10440	0.19	0.020	0.24	
199.34	203.30	3.96	940176	HYP	PPDP	7	13260	0.23	0.026	0.31	
203.30	206.35	3.05	940177	HYP	PPDP	7	12360	0.32	0.025	0.24	
206.35	209.40	3.05	940178	HYP	PPDP	7	11780	0.14	0.016	0.14	
209.40	212.44	3.04	940179	HYP	PPDP	7	13380	0.16	0.023	0.10	
212.44	215.49	3.05	940180	HYP	PPDP	7	12780	0.05	0.007	0.07	
215.49	218.24	2.75	940181	HYP	PPDP	7	10120	0.18	0.020	0.27	
218.24	221.44	3.20	940182	HYP	PPDP	7	12120	0.21	0.020	0.21	
221.44	224.64	3.20	940183	HYP	PPDP	7	13220	0.31	0.012	0.27	
224.64	227.69	3.05	940184	HYP	PPDP	7	10480	0.25	0.035	0.21	
227.69	230.43	2.74	940185	HYP	PPDP	7	10820	0.08	0.018	0.10	
230.43	233.78	3.35	940186	HYP	PPDP	7	13060	0.20	0.031	0.14	
233.78	235.61	1.83	940187	HYP	PPDP	7	7100	0.19	0.031	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
235.61	238.96	3.35	940188	HYP	PPDP	7	11600	0.14	0.026	0.10	
238.96	242.01	3.05	940189	HYP	PPDP	7	12820	0.12	0.013	0.10	
242.01	245.06	3.05	940190	HYP	PPDP	7	12440	0.27	0.030	0.31	
245.06	248.72	3.66	940191	HYP	PPDP	7	13300	0.15	0.015	0.14	
248.72	252.07	3.35	940192	HYP	PPDP	7	12020	0.16	0.026	0.14	
252.07	254.51	2.44	940193	HYP	PPDP	7	9640	0.16	0.026	0.10	
254.51	258.17	3.66	940194	HYP	PPDP	7	13950	0.13	0.021	0.10	
258.17	261.21	3.04	940195	HYP	PPDP	7	12720	0.08	0.013	0.14	
261.21	263.96	2.75	940196	HYP	PPDP	7	10200	0.14	0.052	0.21	
263.96	267.00	3.04	940197	HYP	PPDP	7	12580	0.13	0.018	0.17	
267.00	270.05	3.05	940198	HYP	WRGD	7	12220	0.14	0.018	0.17	
270.05	273.41	3.36	940199	HYP	WRGD	7	12280	0.11	0.008	0.14	
273.41	276.45	3.04	940200	HYP	WRGD	7	12380	0.14	0.011	0.17	
276.45	279.50	3.05	940201	HYP	PPDP	7	10640	0.27	0.034	0.34	
279.50	282.55	3.05	940202	HYP	PPDP	7	10420	0.19	0.029	0.21	
282.55	285.60	3.05	940203	HYP	PPDP	7	11400	0.21	0.051	0.21	
285.60	288.65	3.05	940204	HYP	IXBX	7	11280	0.17	0.058	0.21	
288.65	291.69	3.04	940205	HYP	IXBX	7	10340	0.19	0.046	0.38	
291.69	294.74	3.05	940206	HYP	IXBX	7	11520	0.13	0.025	0.17	
294.74	297.79	3.05	940207	HYP	IXBX	7	12340	0.22	0.032	0.27	
297.79	300.84	3.05	940208	HYP	IXBX	7	10940	0.14	0.013	0.14	
300.84	303.89	3.05	940209	HYP	PPDP	7	12840	0.14	0.035	0.10	
303.89	306.63	2.74	940210	HYP	PPDP	7	10560	0.21	0.052	0.21	
306.63	309.68	3.05	940211	HYP	PPDP	7	12000	0.36	0.030	0.48	
309.68	311.20	1.52	940212	HYP	PPDP	7	4660	0.17	0.015	0.21	
311.20	313.03	1.83	940213	HYP	PPDP	7	7820	0.12	0.010	0.14	
313.03	316.08	3.05	940214	HYP	PPDP	7	11400	0.23	0.029	0.17	
316.08	319.13	3.05	940215	HYP	PPDP	7	12260	0.25	0.025	0.34	
319.13	322.17	3.04	940216	HYP	PPDP	7	11700	0.32	0.061	0.45	
322.17	325.22	3.05	940217	HYP	PPDP	7	14380	0.22	0.038	0.21	
325.22	328.27	3.05	940218	HYP	IXPB	7	11900	0.33	0.054	0.38	
328.27	331.32	3.05	940219	HYP	IXPB	7	11340	0.19	0.022	0.24	
331.32	334.37	3.05	940220	HYP	IXPB	7	11720	0.16	0.030	0.21	
334.37	337.41	3.04	940221	HYP	IXBX	7	13420	0.17	0.014	0.21	
337.41	340.46	3.05	940222	HYP	IXBX	7	11820	0.24	0.037	0.27	
340.46	343.51	3.05	940223	HYP	IXBX	7	12820	0.32	0.037	0.58	
343.51	346.56	3.05	940224	HYP	IXBX	7	12800	0.40	0.040	0.48	
346.56	349.61	3.05	940225	HYP	IXBX	7	12280	0.33	0.045	0.58	
349.61	352.66	3.05	940226	HYP	IXBX	7	13060	0.17	0.035	0.24	
352.66	355.70	3.04	940227	HYP	IXBX	7	12120	0.29	0.031	0.45	
355.70	358.75	3.05	940228	HYP	IXBX	7	13040	0.38	0.030	0.62	
358.75	361.80	3.05	940229	HYP	IXBX	7	12980	0.20	0.017	0.24	
361.80	364.85	3.05	940230	HYP	IXBX	7	12680	0.23	0.016	0.27	
364.85	367.89	3.04	940231	HYP	IXBX	7	12560	0.20	0.018	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
367.89	370.94	3.05	940232	HYP	IXBX	7	14680	0.29	0.019	0.62	
370.94	373.99	3.05	940233	HYP	IXBX	7	12240	0.11	0.012	0.14	
373.99	377.04	3.05	940234	HYP	IXBX	7	12380	0.06	0.005	0.10	
377.04	380.09	3.05	940235	HYP	IXBX	7	11340	0.07	0.005	0.07	
380.09	383.13	3.04	940236	HYP	IXBX	7	13220	0.08	0.007	0.14	
383.13	386.18	3.05	940237	HYP	IXBX	7	12460	0.08	0.004	0.10	
386.18	388.62	2.44	940238	HYP	IXBX	7	9140	0.10	0.012	0.07	
388.62	391.67	3.05	940239	HYP	IXBX	7	13060	0.06	0.007	0.07	
391.67	394.72	3.05	940240	HYP	IXBX	7	11780	0.09	0.006	0.14	
394.72	397.76	3.04	940241	HYP	IXBX	7	13360	0.11	0.007	0.10	
397.76	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-233	Total Depth	215.80 m		
Northing	254,899.20	Casing Depth	4.88 m		Left In
Easting	110,799.54	Survey Data	Azimuth	Dip	Instrument
Elevation	1285.15 m	Collar		-90.00°	
Core Size	HW	152.4 m	242°	-89.75°	Sperry Sun
Drilling Started	October 18, 1993	215.8 m	128°	-89.50°	Sperry Sun
Drilling Finished	October 21, 1993				
Logged by	S. de Wit				

Purpose/Target: West Pit

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.18	5.18		OVB							
5.18	8.23	3.05	567048	CAP	PPDP	7/3	11420	0.04	0.024	0.10	
8.23	11.28	3.05	567049	CAP	PPDP	7/3	11500	0.07	0.013	0.21	
11.28	14.33	3.05	567050	CAP	PPDP	7/3	11740	0.05	0.011	0.14	
14.33	17.37	3.04	567051	CAP	PPDP	7/3	11420	0.06	0.017	0.14	
17.37	20.42	3.05	567052	CAP	PPDP	7	12100	0.09	0.020	0.21	
20.42	23.47	3.05	567053	CAP	PPDP	7	11460	0.06	0.020	0.17	
23.47	26.52	3.05	567054	CAP	PPDP	7	13040	0.04	0.028	0.14	
26.52	29.57	3.05	567055	CAP	PPDP	7/3	10840	0.03	0.023	0.14	
29.57	32.61	3.04	567056	CAP	PPDP	7/3	10960	0.04	0.015	0.17	
32.61	35.66	3.05	567057	TRN	PPDP	7/3	12280	0.03	0.020	0.14	
35.66	38.71	3.05	567058	TRN	PPDP	7/3	12720	0.13	0.017	0.10	
38.71	41.76	3.05	567059	TRN	PPDP	7/5	13120	0.17	0.013	0.14	
41.76	44.81	3.05	567060	HYP	PPDP	7/5	12600	0.15	0.015	0.21	
44.81	47.85	3.04	567061	HYP	PPDP	7/5	11700	0.20	0.014	0.21	
47.85	50.90	3.05	567062	HYP	PPDP	7/5	11880	0.18	0.016	0.17	
50.90	53.95	3.05	567063	HYP	PPDP	7/5	12840	0.12	0.010	0.07	
53.95	57.00	3.05	567064	HYP	PPDP	7/5	12260	0.12	0.015	0.14	
57.00	60.05	3.05	567065	HYP	PPDP	7/5	10740	0.17	0.027	0.10	
60.05	63.09	3.04	567066	HYP	PPDP	7/5	12180	0.18	0.033	0.14	
63.09	66.14	3.05	567067	HYP	PPDP	7/5	12580	0.15	0.036	0.14	
66.14	69.19	3.05	567068	HYP	PPDP	7/5	9080	0.18	0.031	0.21	
69.19	72.24	3.05	567069	HYP	PPDP	7/5	14980	0.14	0.027	0.14	
72.24	75.29	3.05	567070	HYP	PPDP	7/5	10760	0.09	0.021	0.10	
75.29	78.33	3.04	567071	HYP	PPDP	7/6	13860	0.07	0.010	0.07	
78.33	81.38	3.05	567072	HYP	PPDP	7/2	11740	0.03	0.006	0.14	
81.38	84.43	3.05	567073	HYP	PPDP	7/5	12360	0.11	0.039	0.10	
84.43	87.48	3.05	567074	HYP	PPDP	7/5	12640	0.15	0.018	0.17	
87.48	90.53	3.05	567075	HYP	PPDP	7/5	13080	0.08	0.009	0.07	
90.53	93.57	3.04	567076	HYP	PPDP	7/5	11080	0.08	0.007	0.07	
93.57	96.62	3.05	567077	HYP	PPDP	7/5	12940	0.13	0.016	0.10	
96.62	99.67	3.05	567078	HYP	PPDP	7	11980	0.18	0.018	0.24	
99.67	102.72	3.05	567079	HYP	PPDP	7	10520	0.16	0.024	0.17	
102.72	105.77	3.05	567080	HYP	PPDP	7	13120	0.10	0.009	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-233

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	108.81	3.04	567081	HYP	PPDP	7	13040	0.13	0.011	0.17	
108.81	111.86	3.05	567082	HYP	PPDP	7	14300	0.10	0.015	0.10	
111.86	114.60	2.74	567083	HYP	PPDP	7	11060	0.16	0.012	0.17	
114.60	117.96	3.36	567084	HYP	PPDP	7	13240	0.15	0.018	0.17	
117.96	121.01	3.05	567085	HYP	PPDP	7	11540	0.24	0.075	0.24	
121.01	124.05	3.04	567086	HYP	PPDP	7	13020	0.21	0.045	0.31	
124.05	127.10	3.05	567087	HYP	PPDP	7/5	12260	0.28	0.016	0.31	
127.10	130.15	3.05	567088	HYP	PPDP	7/5	12760	0.26	0.033	0.41	
130.15	133.20	3.05	567089	HYP	PPDP	7/5	13400	0.19	0.018	0.24	
133.20	136.25	3.05	567090	HYP	PPDP	7/5	13680	0.26	0.028	0.21	
136.25	139.29	3.04	567091	HYP	PPDP	7/5	12120	0.15	0.020	0.21	
139.29	142.34	3.05	567092	HYP	PPDP	7/5	12880	0.16	0.028	0.17	
142.34	145.39	3.05	567093	HYP	PPDP	7/5	13400	0.12	0.020	0.10	
145.39	148.44	3.05	567094	HYP	PPDP	7/5	12040	0.12	0.017	0.10	
148.44	150.88	2.44	567095	HYP	PPDP	7/5	9300	0.14	0.020	0.17	
150.88	154.53	3.65	567096	HYP	PPDP	7/5	15200	0.13	0.011	0.14	
154.53	157.58	3.05	567097	HYP	PPDP	7/5	12600	0.20	0.020	0.24	
157.58	160.63	3.05	567098	HYP	LPXX	5	11900	0.02	0.002	<0.03	
160.63	163.68	3.05	567099	HYP	LPXX	5	12640	0.02	0.001	<0.03	
163.68	166.73	3.05	567100	HYP	LPXX	5	12841	0.04	0.003	0.10	
166.73	169.77	3.04	567101	HYP	PPDP	7/5	13200	0.10	0.014	0.10	
169.77	172.82	3.05	567102	HYP	PPDP	7/5	13060	0.26	0.009	1.32	
172.82	175.87	3.05	567103	HYP	PPDP	7/5	12760	0.08	0.013	0.07	
175.87	178.92	3.05	567104	HYP	PPDP	7/5	13560	0.08	0.030	0.07	
178.92	181.97	3.05	567105	HYP	PPDP	7/5	13320	0.10	0.032	0.21	
181.97	185.01	3.04	567106	HYP	PPDP	7/5	13240	0.09	0.026	0.07	
185.01	188.06	3.05	567107	HYP	PPDP	7/5	14500	0.10	0.021	0.10	
188.06	191.11	3.05	567108	HYP	PPDP	7/5	13520	0.10	0.025	0.07	
191.11	194.16	3.05	567109	HYP	PPDP	7/5	12600	0.08	0.021	0.07	
194.16	197.21	3.05	567110	HYP	PPDP	7/5	13000	0.08	0.033	0.07	
197.21	200.27	3.06	567111	HYP	PPDP	7/5	12920	0.07	0.019	0.10	
200.27	203.30	3.03	567112	HYP	PPDP	7/5	13080	0.07	0.021	0.03	
203.30	206.35	3.05	567113	HYP	PPDP	5	12800	0.04	0.020	0.03	
206.35	209.40	3.05	567114	HYP	PPDP	7/5	7960	0.06	0.013	0.07	
209.40	211.23	1.83	567115	HYP	PPDP	7/5	14680	0.09	0.018	0.07	
211.23	212.45	1.22	567116	HYP	PPDP	7/5	5800	0.07	0.021	0.10	
212.45	215.80	3.35	567117	HYP	PPDP	7/5	12780	0.07	0.029	0.07	
215.80	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-234	Total Depth	343.51 m
Northing	255,000.76	Casing Depth	20.7 m Left Out
Easting	110,400.35	Survey Data	Azimuth / Dip / Instrument
Elevation	1229.24 m	Collar	-90°
Core Size	HQ	157.8 m	010° / -89° / Sperry Sun
Drilling Started	October 19, 1993	304.8 m	015° / -89° / Sperry Sun
Drilling Finished	October 25, 1993		
Logged by	P. Fischl		

Purpose/Target: To delineate zone of copper mineralization encountered in Holes 93-148 and 93-160 (West Zone).

Comments: This hole encountered a section of heterolithic intrusion breccia (IXAX, IXAC, IXAF) with minor granodiorite (WRGD) and milled breccia (MBFW) containing a moderately mineralized supergene zone and a weakly mineralized hypogene zone.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	14.33	14.33		OVB							
14.33	17.37	3.04	940575	CAP	WRGD	3/5	5740	0.07	0.018	0.17	
17.37	20.42	3.05	940576	CAP	WRGD	3/5	2960	0.09	0.017	0.14	
20.42	23.47	3.05	940577	CAP	WRGD	3/5	1980	0.04	0.019	0.17	
23.47	26.52	3.05	940578	CAP	WRGD	3/5	2000	0.05	0.037	0.21	
26.52	29.57	3.05	940579	CAP	WRGD	3/5	2840	0.02	0.036	0.41	
29.57	32.61	3.04	940580	CAP	WRGD	3/5	2560	0.03	0.041	0.62	
32.61	34.75	2.14	940581	CAP	WRGD	3/5/7	2360	0.03	0.066	0.69	
34.75	38.10	3.35	940582	CAP	WRGD	3/5/7	4740	0.03	0.048	0.45	
38.10	41.76	3.66	940583	CAP	WRGD	3/5/7	6840	0.05	0.043	1.23	
41.76	44.81	3.05	940584	TRN	WRGD	3/5/7	1760	0.04	0.024	0.24	
44.81	48.16	3.35	940585	TRN	WRGD	3/5/7	9600	0.16	0.028	0.27	
48.16	51.82	3.66	940586	TRN	WRGD	3/5/7	4640	0.06	0.034	0.31	
51.82	53.95	2.13	940587	SUS	WRGD	3/5/7	1420	0.04	0.042	0.38	
53.95	57.00	3.05	940588	SUS	WRGD	5/7	4040	0.18	0.042	0.14	
57.00	60.05	3.05	940589	SUS	WRGD	3	4180	0.44	0.075	0.27	
60.05	63.09	3.04	940590	SUS	WRGD	3	7420	0.33	0.048	0.17	
63.09	65.53	2.44	940591	SUS	WRGD	3	4200	0.33	0.039	0.17	
65.53	68.58	3.05	940592	SUS	WRGD	7/3	9720	0.40	0.041	0.24	
68.58	71.63	3.05	940593	SUS	WRGD	7/3	7280	0.54	0.037	0.38	
71.63	74.98	3.35	940594	SUS	MBFW	7/3	10420	0.47	0.046	0.27	
74.98	78.03	3.05	940595	SUS	MBFW	7/3	9140	0.53	0.105	0.55	
78.03	80.47	2.44	940596	SUS	MBFW	7/3	7300	0.40	0.060	0.41	
80.47	82.30	1.83	940597	SUS	MBFW	7/3	4600	0.46	0.043	0.41	
82.30	84.43	2.13	940598	SUS	MBFW	7/3	5840	0.41	0.030	0.38	
84.43	87.48	3.05	940599	SUS	MBFW	7/3	9140	0.32	0.034	0.31	
87.48	90.53	3.05	940600	SUS	MBFW	7/3	10380	0.32	0.050	0.21	
90.53	92.66	2.13	940601	SUS	MBFW	7/3	6080	0.62	0.040	0.51	
92.66	95.10	2.44	940602	SUS	MBFW	7/3	5140	0.41	0.029	0.38	
95.10	96.62	1.52	940603	SUS	MBFW	7/3	5360	0.26	0.034	0.21	
96.62	99.67	3.05	940604	HYP	MBFW	7/3	9340	0.36	0.034	0.34	
99.67	102.72	3.05	940605	HYP	MBFW	7/3	10900	0.48	0.018	0.31	
102.72	105.76	3.04	940606	HYP	MBFW	7/3	8580	0.47	0.040	0.72	
105.76	108.81	3.05	940607	HYP	IXAC	7/3	10320	0.26	0.028	0.31	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
108.81	110.64	1.83	940608	HYP	IXAC	7/3	5080	0.21	0.024	0.24	
110.64	112.47	1.83	940609	HYP	IXAC	7/3	6620	0.15	0.021	0.17	
112.47	114.91	2.44	940610	HYP	IXAC	7/3	7500	0.17	0.018	0.21	
114.91	117.96	3.05	940611	HYP	IXAC	7/3	11580	0.32	0.038	0.51	
117.96	120.09	2.13	940612	HYP	IXAC	7/3	7500	0.27	0.024	0.45	
120.09	121.92	1.83	940613	HYP	IXAC	7/3	7040	0.21	0.023	0.21	
121.92	124.05	2.13	940614	HYP	IXAC	7/3	8200	0.34	0.040	0.51	
124.05	127.10	3.05	940615	HYP	IXAC	7/3	10380	0.30	0.064	0.31	
127.10	128.93	1.83	940616	HYP	IXAC	7/3	6660	0.20	0.029	0.21	
128.93	131.98	3.05	940617	HYP	IXAC	7/3	8680	0.25	0.038	0.27	
131.98	135.03	3.05	940618	HYP	IXAC	7/6	8520	0.23	0.043	0.27	
135.03	137.77	2.74	940619	HYP	IXAC	7/6	8860	0.19	0.024	0.24	
137.77	139.90	2.13	940620	HYP	IXAC	7/6	7800	0.17	0.020	0.17	
139.90	141.73	1.83	940621	HYP	IXAC	7/6	6060	0.18	0.028	0.14	
141.73	143.56	1.83	940622	HYP	IXAC	7/6	5760	0.24	0.028	0.17	
143.56	146.00	2.44	940623	HYP	IXAC	7/6	6480	0.13	0.033	0.07	
146.00	148.44	2.44	940624	HYP	IXAC	7/6	9120	0.15	0.019	0.14	
148.44	151.18	2.74	940625	HYP	IXAC	7/6	6400	0.19	0.017	0.17	
151.18	153.62	2.44	940626	HYP	IXAC	7/6	8860	0.19	0.020	0.21	
153.62	156.67	3.05	940627	HYP	IXAC	7/6	11840	0.18	0.024	0.21	
156.67	159.41	2.74	940628	HYP	IXAC	7/6	9380	0.21	0.028	0.27	
159.41	160.63	1.22	940629	HYP	IXAC	7/6	3400	0.21	0.086	0.17	
160.63	163.68	3.05	940630	HYP	IXAC	7/6	10100	0.23	0.061	0.17	
163.68	165.51	1.83	940631	HYP	IXAC	7/6	5500	0.22	0.032	0.21	
165.51	168.55	3.04	940632	HYP	IXAC	7/6	10980	0.17	0.029	0.21	
168.55	170.54	1.99	940633	HYP	IXAC	7/6	4580	0.27	0.032	0.24	
170.54	172.21	1.67	940634	HYP	IXAC	7/6	5360	0.22	0.035	0.24	
172.21	175.26	3.05	940635	HYP	IXAC	7/6	11460	0.23	0.043	0.38	
175.26	178.31	3.05	940636	HYP	IXAC	7/6	10320	0.17	0.031	0.24	
178.31	181.36	3.05	940637	HYP	IXAC	7/6	13260	0.13	0.030	0.14	
181.36	183.79	2.43	940638	HYP	IXAC	7/6	11300	0.11	0.025	0.17	
183.79	186.84	3.05	940639	HYP	IXAC	7/6	13060	0.08	0.025	0.07	
186.84	189.89	3.05	940640	HYP	IXAC	7	10060	0.11	0.026	0.14	
189.89	192.94	3.05	940641	HYP	IXAC	7	12860	0.13	0.022	0.07	
192.94	195.98	3.04	940642	HYP	IXAC	7	12380	0.13	0.082	0.14	
195.98	199.03	3.05	940643	HYP	IXAC	7	13060	0.15	0.017	0.17	
199.03	202.08	3.05	940644	HYP	IXAX	7	12420	0.15	0.031	0.14	
202.08	205.13	3.05	940645	HYP	IXAX	7	12740	0.15	0.021	0.21	
205.13	208.18	3.05	940646	HYP	IXAX	7	12980	0.11	0.025	0.10	
208.18	211.23	3.05	940647	HYP	IXAX	7	12540	0.16	0.031	0.10	
211.23	214.27	3.04	940648	HYP	IXAX	7	12780	0.08	0.021	0.10	
214.27	217.32	3.05	940649	HYP	IXAX	7	11680	0.10	0.026	0.03	
217.32	220.37	3.05	940650	HYP	IXAX	7	13060	0.07	0.023	0.03	
220.37	223.42	3.05	940651	HYP	IXAX	7	12840	0.07	0.023	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
223.42	226.47	3.05	940652	HYP	IXAX	7	11940	0.12	0.019	0.14	
226.47	229.51	3.04	940653	HYP	IXAX	7	12120	0.13	0.033	0.17	
229.51	232.56	3.05	940654	HYP	IXAX	7	13000	0.11	0.022	0.17	
232.56	235.61	3.05	940655	HYP	IXAX	7	12060	0.09	0.044	0.10	
235.61	236.83	1.22	940656	HYP	IXAX	7	5480	0.03	0.026	0.03	
236.83	239.88	3.05	940657	HYP	IXAX	7	12100	0.08	0.039	0.10	
239.88	242.93	3.05	940658	HYP	IXAX	7	12200	0.08	0.029	0.10	
242.93	245.97	3.04	940659	HYP	IXAX	7	12060	0.14	0.034	0.14	
245.97	249.02	3.05	940660	HYP	IXAX	7	13580	0.13	0.026	0.21	
249.02	252.07	3.05	940661	HYP	IXAX	7	13300	0.13	0.022	0.17	
252.07	255.12	3.05	940662	HYP	IXAX	7	12880	0.16	0.049	0.17	
255.12	258.17	3.05	940663	HYP	IXAX	7	12380	0.08	0.029	0.21	
258.17	261.21	3.04	940664	HYP	IXAX	7	12560	0.08	0.023	0.14	
261.21	264.26	3.05	940665	HYP	IXAX	7	12620	0.10	0.028	0.10	
264.26	267.31	3.05	940666	HYP	IXAC	7	11700	0.07	0.017	0.07	
267.31	270.36	3.05	940667	HYP	IXAC	7	10880	0.07	0.017	0.07	
270.36	273.41	3.05	940668	HYP	IXAC	7	12280	0.08	0.013	0.03	
273.41	276.45	3.04	940669	HYP	IXAC	7	11680	0.06	0.017	0.03	
276.45	279.50	3.05	940670	HYP	IXAC	7	11500	0.08	0.019	<0.03	
279.50	282.55	3.05	940671	HYP	IXAC	7	11060	0.07	0.023	<0.03	
282.55	285.60	3.05	940672	HYP	IXAC	7	11180	0.07	0.014	0.03	
285.60	288.65	3.05	940673	HYP	IXAC	7	12780	0.13	0.021	0.14	
288.65	291.69	3.04	940674	HYP	IXAC	7	13120	0.09	0.018	0.10	
291.69	294.74	3.05	940675	HYP	IXAC	7	13020	0.14	0.025	0.17	
294.74	297.79	3.05	940676	HYP	IXAC	7	12160	0.11	0.066	0.10	
297.79	300.84	3.05	940677	HYP	IXAC	7	12280	0.10	0.040	0.10	
300.84	303.89	3.05	940678	HYP	IXAC	7	12580	0.08	0.031	0.10	
303.89	306.93	3.04	940679	HYP	IXAC	7	12480	0.11	0.054	0.14	
306.93	309.98	3.05	940680	HYP	IXAC	7	12500	0.12	0.077	0.10	
309.98	313.03	3.05	940681	HYP	IXAC	7	13480	0.14	0.053	0.14	
313.03	316.08	3.05	940682	HYP	IXAC	7	12600	0.08	0.046	0.07	
316.08	319.12	3.04	940683	HYP	IXAC	7	12900	0.09	0.048	0.07	
319.12	322.17	3.05	940684	HYP	IXAC	7	11080	0.07	0.328	0.07	
322.17	325.22	3.05	940685	HYP	IXAF	7	12880	0.06	0.042	0.03	
325.22	328.27	3.05	940686	HYP	IXAF	7	12160	0.04	0.047	<0.03	
328.27	331.32	3.05	940687	HYP	IXAF	7	11380	0.06	0.026	0.03	
331.32	334.37	3.05	940688	HYP	IXAF	7	12560	0.06	0.044	<0.03	
334.37	337.41	3.04	940689	HYP	IXAF	7	12860	0.06	0.026	0.07	
337.41	340.46	3.05	940690	HYP	IXAF	7	12400	0.06	0.028	0.03	
340.46	343.51	3.05	940691	HYP	IXAF	7	12660	0.02	0.029	<0.03	
343.51	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-235	Total Depth	313.03 m
Northing	255,101.51	Casing Depth	37.8 m Left Out
Easting	111,400.06	Survey Data	Azimuth Dip Instrument
Elevation	1187.48 m	Collar	
Core Size	HQ	152.40 m	-90° Sperry Sun
Drilling Started	October 21, 1993	306.93 m	218° -88° Sperry Sun
Drilling Finished	October 28, 1993		
Logged by	W.D. Mann		

Purpose/Target: Delineation east of Casino Fault.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	12.80	12.80		OVB							
12.80	15.85	3.05	588168	CAP	WRDR	3	1360	0.04	0.010	0.10	
15.85	29.57	13.72	588169	CAP	WRDR	3	2400	0.04	0.011	0.17	
29.57	32.46	2.89	588170	CAP	WRDR	3	5880	0.04	0.012	0.34	
32.46	35.66	3.20	588171	CAP	WRDR	3	9640	0.04	0.008	0.27	
35.66	38.71	3.05	588172	CAP	WRDR	3	5780	0.03	0.010	0.17	
38.71	41.45	2.74	588173	CAP	WRDR	3	3480	0.02	0.019	0.31	
41.45	43.89	2.44	588174	CAP	WRDR	3	6880	0.08	0.004	0.10	
43.89	46.94	3.05	588175	CAP	WRDR	3	5700	0.06	0.004	0.10	
46.94	48.16	1.22	588176	CAP	WRDR	3	3580	0.05	0.008	0.27	
48.16	50.75	2.59	588177	CAP	WRDR	3	6740	0.07	0.006	0.24	
50.75	52.12	1.37	588178	CAP	WRDR	3	4700	0.17	0.011	0.24	
52.12	54.25	2.13	588179	SUS	WRDR	3	7340	0.21	0.010	0.31	
54.25	57.61	3.36	588180	SUS	WRDR	3	5780	0.17	0.019	0.31	
57.61	61.87	4.26	588181	SUS	WRDR	3	4880	0.10	0.008	0.21	
61.87	63.70	1.83	588182	SUS	WRDR	3	6920	0.24	0.011	0.17	
63.70	65.84	2.14	588183	SUS	WRDR	3	4840	0.30	0.009	0.24	
65.84	68.28	2.44	588184	SUS	QMIE	7/3	7400	0.27	0.145	0.17	
68.28	71.63	3.35	588185	SUS	QMIE	7/3	10870	0.33	0.015	0.27	
71.63	74.68	3.05	588186	SUS	QMIE	7/3	7240	0.25	0.020	0.14	
74.68	76.50	1.82	588187	SUS	QMIE	7/3	6600	0.23	0.010	0.10	
76.50	79.86	3.36	588188	SUS	QMIE	7/3	12320	0.23	0.011	0.07	
79.86	82.30	2.44	588189	HYP	QMIE	7/3	8700	0.11	0.017	0.14	
82.30	85.34	3.04	588190	HYP	QMIE	7/3	10040	0.16	0.025	0.14	
85.34	87.78	2.44	588191	HYP	QMIE	7/3	9320	0.17	0.013	0.17	
87.78	90.53	2.75	588192	HYP	WRDR	7/3	10581	0.17	0.011	0.21	
90.53	93.57	3.04	588193	HYP	WRDR	7/3	9540	0.14	0.013	0.21	
93.57	96.47	2.90	588194	HYP	WRDR	7/3	9300	0.24	0.010	0.24	
96.47	99.67	3.20	588195	HYP	WRDR	7/3	13020	0.36	0.014	0.38	
99.67	102.72	3.05	588196	HYP	WRDR	7/3	11620	0.49	0.009	0.34	
102.72	105.16	2.44	588197	HYP	WRDR	7/3	4440	0.35	0.028	0.34	
105.16	107.90	2.74	588198	HYP	WRDR	7/3	10120	0.19	0.015	0.21	
107.90	110.34	2.44	588199	HYP	WRDR	7	10320	0.16	0.039	0.17	
110.34	111.25	0.91	588200	HYP	WRDR	7	3540	0.25	0.029	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
111.25	114.00	2.75	588201	HYP	WRDR	7	9280	0.39	0.027	0.38	
114.00	117.04	3.04	588202	HYP	WRDR	7	12800	0.16	0.012	0.27	
117.04	119.18	2.14	588203	HYP	WRDR	7	7340	0.42	0.035	0.38	
119.18	122.07	2.89	588204	HYP	WRDR	7	9640	0.18	0.033	0.21	
122.07	124.05	1.98	588205	HYP	WRDR	7	8660	0.25	0.017	0.21	
124.05	126.34	2.29	588206	HYP	WRDR	7	8720	0.25	0.025	0.21	
126.34	129.39	3.05	588207	HYP	WRDR	7	10040	0.24	0.023	0.21	
129.39	131.37	1.98	588208	HYP	WRDR	7	7000	0.32	0.012	0.24	
131.37	133.20	1.83	588209	HYP	WRDR	7/2	7560	0.27	0.047	0.31	
133.20	136.25	3.05	588210	HYP	WRDR	7/2	11350	0.25	0.035	0.24	
136.25	138.23	1.98	588211	HYP	WRDR	7/2	7200	0.20	0.054	0.21	
138.23	140.36	2.13	588212	HYP	WRDR	7/2	8500	0.16	0.046	0.21	
140.36	143.56	3.20	588213	HYP	WRDR	7/2	11700	0.19	0.012	0.21	
143.56	145.39	1.83	588214	HYP	WRDR	7/2	6760	0.14	0.015	0.41	
145.39	148.44	3.05	588215	HYP	LTDA	7/2	12180	0.17	0.018	0.17	
148.44	151.49	3.05	588216	HYP	WRDR	7/2	12140	0.26	0.045	0.31	
151.49	154.53	3.04	588217	HYP	WRDR	7/2	12120	0.23	0.023	0.21	
154.53	157.58	3.05	588218	HYP	WRDR	7/2	15320	0.48	0.031	0.27	
157.58	160.63	3.05	588219	HYP	WRGD	7	12240	0.20	0.112	0.21	
160.63	163.68	3.05	588220	HYP	WRGD	7	13560	0.09	0.042	0.14	
163.68	166.73	3.05	588221	HYP	WRGD	7	12780	0.16	0.022	0.21	
166.73	169.77	3.04	588222	HYP	WRGD	7	12240	0.19	0.035	0.14	
169.77	172.82	3.05	588223	HYP	WRGD	7	13000	0.09	0.045	0.10	
172.82	175.87	3.05	588224	HYP	WRGD	7	13740	0.13	0.034	0.14	
175.87	178.92	3.05	588225	HYP	WRGD	7	14700	0.09	0.020	0.14	
178.92	181.97	3.05	588226	HYP	WRGD	7	13600	0.08	0.025	0.14	
181.97	185.01	3.04	588227	HYP	QMCX	7/5	13440	0.13	0.052	0.14	
185.01	188.06	3.05	588228	HYP	QMCX	7/5	11900	0.18	0.200	0.10	
188.06	191.11	3.05	588229	HYP	WRGD	7	13400	0.10	0.049	0.07	
191.11	193.55	2.44	588230	HYP	WRGD	7	11980	0.12	0.031	0.14	
193.55	196.60	3.05	588231	HYP	WRGD	7	14980	0.14	0.035	0.14	
196.60	199.95	3.35	588232	HYP	WRGD	7	15060	0.11	0.029	0.14	
199.95	203.00	3.05	588233	HYP	QMCX	7	12000	0.15	0.024	0.10	
203.00	206.04	3.04	588234	HYP	QMCX	7	9580	0.11	0.025	0.07	
206.04	208.79	2.75	588235	HYP	QMCX	7	8740	0.11	0.022	0.10	
208.79	212.44	3.65	588236	HYP	QMCX	7	12540	0.08	0.030	0.10	
212.44	214.88	2.44	588237	HYP	WRGD	7	10700	0.12	0.037	0.10	
214.88	217.93	3.05	588238	HYP	WRGD	7	12560	0.12	0.039	0.17	
217.93	220.98	3.05	588239	HYP	WRGD	7	12320	0.16	0.032	0.27	
220.98	224.03	3.05	588240	HYP	WRGD	7	12800	0.18	0.058	0.24	
224.03	227.07	3.04	588241	HYP	WRGD	7	11720	0.12	0.051	0.14	
227.07	230.43	3.36	588242	HYP	WRGD	6	11560	0.32	0.058	0.27	
230.43	233.78	3.35	588243	HYP	WRGD	6	11700	0.31	0.072	0.31	
233.78	236.83	3.05	588244	HYP	WRGD	6	12800	0.14	0.090	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-235

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	588245	HYP	WRGD	6	11200	0.10	0.062	0.10	
239.88	242.93	3.05	588246	HYP	WRDR	7	11360	0.16	0.086	0.14	
242.93	245.97	3.04	588247	HYP	WRDR	7	12640	0.10	0.064	0.14	
245.97	249.02	3.05	588248	HYP	WRDR	7	12320	0.28	0.045	0.24	
249.02	252.07	3.05	588249	HYP	WRDR	7	11200	0.16	0.081	0.17	
252.07	255.12	3.05	588250	HYP	WRGD	7	12140	0.11	0.123	0.21	
255.12	258.17	3.05	588251	HYP	WRGD	7	11920	0.09	0.037	0.10	
258.17	260.30	2.13	588252	HYP	WRGD	7	7900	0.08	0.059	0.24	
260.30	263.35	3.05	588253	HYP	WRGD	7	11440	0.11	0.030	0.10	
263.35	266.40	3.05	588254	HYP	WRGD	7	11580	0.09	0.055	0.10	
266.40	269.44	3.04	588255	HYP	WRGD	7	8640	0.10	0.043	0.14	
269.44	272.49	3.05	588256	HYP	WRGD	7	12580	0.10	0.025	0.10	
272.49	275.54	3.05	588257	HYP	WRGD	7	12640	0.05	0.097	0.10	
275.54	278.59	3.05	588258	HYP	WRGD	7	11760	0.07	0.050	0.07	
278.59	281.64	3.05	588259	HYP	WRGD	7	12780	0.07	0.061	0.10	
281.64	285.60	3.96	588260	HYP	WRGD	7	16040	0.05	0.064	0.31	
285.60	288.65	3.05	588261	HYP	QXAX	7	11160	0.06	0.066	0.10	
288.65	291.69	3.04	588262	HYP	QXAX	7	11980	0.05	0.150	0.10	
291.69	294.74	3.05	588263	HYP	QXAX	7	11320	0.03	0.082	0.07	
294.74	297.79	3.05	588264	HYP	QXAX	7	11120	0.07	0.080	0.10	
297.79	300.84	3.05	588265	HYP	WRGD	7	11240	0.06	0.059	0.17	
300.84	303.89	3.05	588266	HYP	WRGD	7	11860	0.02	0.165	0.03	
303.89	306.93	3.04	588267	HYP	WRGD	7	11600	0.04	0.088	0.07	
306.93	309.98	3.05	588268	HYP	WRGD	7	11200	0.05	0.060	0.10	
309.98	313.03	3.05	588269	HYP	WRGD	7	11120	0.08	0.147	0.14	
313.03	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-236	Total Depth	337.41 m		
Northing	255,098.83	Casing Depth	40.8 m		Left Out
Easting	111,499.22	Survey Data	Azimuth	Dip	Instrument
Elevation	1185.69 m	Collar		-90.0°	
Core Size	HQ	160.6 m	206°	-89.2°	Sperry Sun
Drilling Started	October 21, 1993	306.9 m	102°	-89.0°	Sperry Sun
Drilling Finished	October 29, 1993				
Logged by	C. DeLong				

Purpose/Target: To delineate the north side of the starter pit.

Comments: Some zones of good fracture-controlled chalcopyrite.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	29.26	29.26		OVB							
29.26	32.31	3.05	941517	CAP	WRGD	3	8620	0.05	0.012	0.34	
32.31	35.66	3.35	941518	CAP	F/ZN	3	8260	0.07	0.012	0.45	
35.66	38.10	2.44	941519	SOX	WRDR	3	9540	0.45	0.017	0.41	
38.10	41.45	3.35	941520	SUS	WRDR	3	8620	0.55	0.015	0.31	
41.45	44.50	3.05	941521	SUS	WRDR	7	12900	0.34	0.011	0.17	
44.50	47.55	3.05	941522	SUS	WRDR	7	9660	0.56	0.047	0.41	
47.55	50.75	3.20	941523	SUS	WRGD	3	11060	0.44	0.012	0.27	
50.75	53.95	3.20	941524	SUS	WRGD	3	10340	0.47	0.021	0.24	
53.95	57.00	3.05	941525	SUS	WRGD	7	8780	0.36	0.015	0.31	
57.00	60.05	3.05	941526	SUS	WRDR	7	11380	0.39	0.015	0.24	
60.05	63.09	3.04	941527	SUS	QMCX	7	11260	0.28	0.022	0.34	
63.09	66.14	3.05	941528	SUS	QMCX	7	10960	0.23	0.012	0.24	
66.14	68.89	2.75	941529	SUS	QMCX	7/5	7500	0.46	0.011	0.38	
68.89	71.73	2.84	941530	SUS	QMCX	7/5	10380	0.21	0.020	0.24	
71.73	74.98	3.25	941531	SUS	QMCX	7	10980	0.27	0.017	0.24	
74.98	78.94	3.96	941532	HYP	WRGD	7	12400	0.20	0.035	0.17	
78.94	80.77	1.83	941533	HYP	WRGD	7	8080	0.19	0.037	0.17	
80.77	82.60	1.83	941534	HYP	WRGD	7/5	4860	0.31	0.159	0.38	
82.60	85.04	2.44	941535	HYP	WRGD	7	6480	0.17	0.012	0.17	
85.04	87.48	2.44	941536	HYP	WRGD	7	6600	0.11	0.005	0.14	
87.48	90.53	3.05	941537	HYP	QMFX	7	7860	0.21	0.030	0.27	
90.53	93.27	2.74	941538	HYP	QMFX	7	11020	0.18	0.027	0.21	
93.27	95.71	2.44	941539	HYP	QMFX	7	10280	0.12	0.010	0.10	
95.71	98.30	2.59	941540	HYP	QMFX	7	8180	0.12	0.020	0.14	
98.30	101.80	3.50	941541	HYP	QMFX	7	10500	0.20	0.010	0.21	
101.80	105.77	3.97	941542	HYP	WRGD	7	12160	0.27	0.029	0.24	
105.77	108.81	3.04	941543	HYP	WRGF	7	10260	0.26	0.015	0.24	
108.81	110.79	1.98	941544	HYP	WRGD	7	7040	0.15	0.010	0.27	
110.79	113.69	2.90	941545	HYP	WRGF	7	11560	0.16	0.017	0.21	
113.69	116.74	3.05	941546	HYP	WRGD	7	11100	0.17	0.009	0.17	
116.74	119.33	2.59	941547	HYP	WRGF	7	11900	0.19	0.018	0.17	
119.33	122.53	3.20	941548	HYP	IXAC	7	13580	0.23	0.014	0.21	
122.53	124.05	1.52	941549	HYP	IXAC	7	5140	0.11	0.019	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
124.05	127.10	3.05	941550	HYP	IXAC	7	13760	0.18	0.018	0.21	
127.10	130.15	3.05	941551	HYP	IXAC	7	11800	0.19	0.012	0.24	
130.15	133.20	3.05	941552	HYP	IXAC	7	13640	0.25	0.008	0.24	
133.20	136.25	3.05	941553	HYP	IXAC	7	13600	0.17	0.012	0.17	
136.25	139.29	3.04	941554	HYP	IXAC	7	13860	0.24	0.018	0.24	
139.29	142.34	3.05	941555	HYP	IXAC	7	12380	0.36	0.015	0.38	
142.34	145.39	3.05	941556	HYP	IXAC	7	13120	0.30	0.006	0.24	
145.39	148.44	3.05	941557	HYP	IXAC	7	13840	0.14	0.009	0.14	
148.44	150.27	1.83	941558	HYP	IXAC	7	9020	0.30	0.012	0.31	
150.27	153.31	3.04	941559	HYP	IXAC	7	13460	0.33	0.008	0.27	
153.31	156.36	3.05	941560	HYP	IXAC	7	13780	0.19	0.007	0.14	
156.36	159.41	3.05	941561	HYP	IXAC	7	13460	0.15	0.016	0.14	
159.41	161.24	1.83	941562	HYP	IXAC	7	9740	0.24	0.049	0.24	
161.24	163.07	1.83	941563	HYP	IXAC	7	7960	0.09	0.007	0.10	
163.07	166.73	3.66	941564	HYP	IXAC	7	12900	0.18	0.027	0.17	
166.73	169.77	3.04	941565	HYP	IXAC	7	14220	0.20	0.010	0.27	
169.77	172.82	3.05	941566	HYP	IXAC	7	13960	0.22	0.009	0.41	
172.82	175.87	3.05	941567	HYP	IXAC	7	13560	0.17	0.019	0.21	
175.87	178.92	3.05	941568	HYP	IXAC	7	13420	0.15	0.015	0.17	
178.92	181.97	3.05	941569	HYP	IXAC	7	13100	0.25	0.022	0.27	
181.97	185.01	3.04	941570	HYP	IXAC	7	12900	0.22	0.017	0.17	
185.01	188.06	3.05	941571	HYP	IXAC	7	14080	0.15	0.008	0.27	
188.06	191.10	3.04	941572	HYP	IXAC	7	14360	0.13	0.007	0.14	
191.10	194.16	3.06	941573	HYP	IXAC	7	13240	0.15	0.006	0.17	
194.16	197.21	3.05	941574	HYP	WRGD	7	14040	0.28	0.016	0.27	
197.21	200.25	3.04	941575	HYP	WRGD	7	13960	0.18	0.005	0.14	
200.25	203.30	3.05	941576	HYP	WRGD	7	14360	0.26	0.027	0.24	
203.30	206.35	3.05	941577	HYP	WRGD	7	13100	0.13	0.009	0.21	
206.35	209.40	3.05	941578	HYP	WRGD	7	13720	0.18	0.019	0.14	
209.40	212.45	3.05	941579	HYP	WRGD	7	13460	0.20	0.014	0.21	
212.45	215.49	3.04	941580	HYP	WRGD	7	14300	0.16	0.012	0.14	
215.49	218.54	3.05	941581	HYP	WRGD	7	13280	0.17	0.009	0.27	
218.54	220.98	2.44	941582	HYP	WRGD	7	10460	0.23	0.040	0.21	
220.98	224.03	3.05	941583	HYP	IXAC	7	12260	0.11	0.016	0.10	
224.03	227.69	3.66	941584	HYP	IXAC	7	14920	0.16	0.030	0.10	
227.69	230.73	3.04	941585	HYP	IXAC	7	14240	0.28	0.088	0.21	
230.73	233.78	3.05	941586	HYP	IXAC	7	11860	0.19	0.026	0.10	
233.78	236.83	3.05	941587	HYP	IXAC	7	12720	0.38	0.025	0.34	
236.83	239.88	3.05	941588	HYP	QMFX	7	9780	0.08	0.013	0.03	
239.88	242.93	3.05	941589	HYP	QMFX	7	12640	0.08	0.011	0.10	
242.93	245.57	2.64	941590	HYP	QMFX	7	10260	0.10	0.083	0.07	
245.57	248.72	3.15	941591	HYP	QMFX	7	12460	0.22	0.062	0.14	
248.72	251.76	3.04	941592	HYP	QMFX	7	13220	0.15	0.072	0.17	
251.76	254.81	3.05	941593	HYP	QMFX	7	12420	0.08	0.023	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-236

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
254.81	258.01	3.20	941594	HYP	QMFX	7/5	11520	0.07	0.041	0.07	
258.01	260.91	2.90	941595	HYP	QMFX	7	12540	0.06	0.052	0.07	
260.91	263.96	3.05	941596	HYP	QMFX	7	11800	0.12	0.032	0.10	
263.96	267.16	3.20	941597	HYP	QMFX	7/5	12900	0.11	0.023	0.14	
267.16	270.36	3.20	941598	HYP	IXBC	7	13160	0.20	0.039	0.17	
270.36	272.49	2.13	941599	HYP	IXBC	7	8220	0.24	0.020	0.17	
272.49	274.32	1.83	941600	HYP	IXBC	7	6560	0.14	0.091	0.14	
274.32	276.45	2.13	941601	HYP	IXBC	7	7040	0.10	0.066	0.10	
276.45	279.50	3.05	941602	HYP	IXBC	7	12540	0.18	0.013	0.17	
279.50	282.55	3.05	941603	HYP	IXBC	7	12141	0.20	0.086	0.17	
282.55	285.60	3.05	941604	HYP	IXBC	7	12640	0.36	0.080	0.21	
285.60	288.65	3.05	941605	HYP	IXBC	7	12480	0.34	0.118	0.38	
288.65	291.69	3.04	941606	HYP	IXBC	7	12860	0.23	0.030	0.21	
291.69	294.74	3.05	941607	HYP	IXBC	7	12340	0.18	0.027	0.10	
294.74	297.79	3.05	941608	HYP	IXBC	7	11560	0.15	0.028	0.14	
297.79	300.84	3.05	941609	HYP	IXBC	7	12000	0.13	0.025	0.14	
300.84	303.89	3.05	941610	HYP	IXBC	7	12040	0.10	0.014	0.10	
303.89	306.93	3.04	941611	HYP	IXBC	7	12340	0.12	0.130	0.10	
306.93	309.98	3.05	941612	HYP	IXBC	7	12920	0.11	0.055	0.10	
309.98	313.64	3.66	941613	HYP	IXBC	7	14280	0.21	0.037	0.14	
313.64	316.08	2.44	941614	HYP	IXBC	7	10740	0.18	0.118	0.10	
316.08	319.13	3.05	941615	HYP	QMFX	7/5	11460	0.10	0.022	0.14	
319.13	322.17	3.04	941616	HYP	QMFX	7/5	12880	0.07	0.021	0.03	
322.17	325.22	3.05	941617	HYP	IXBC	7	12900	0.07	0.111	0.07	
325.22	328.27	3.05	941618	HYP	IXBC	7	12540	0.17	0.027	0.10	
328.27	331.32	3.05	941619	HYP	QMFX	7/5	12200	0.12	0.028	0.10	
331.32	334.37	3.05	941620	HYP	QMFX	7/5	11360	0.08	0.109	0.07	
334.37	337.41	3.04	941621	HYP	QMFX	7	11500	0.08	0.013	0.10	
337.41	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-237	Total Depth	233.17 m
Northing	255,100.91	Casing Depth	36.58 m Left Out
Easting	110.200.75	Survey Data	Azimuth Dip Instrument
Elevation	1215.87 m	Collar	-90°
Core Size	HQ	152.40 m	190° -89° Sperry Sun
Drilling Started	October 21, 1993		
Drilling Finished	October 28, 1993		
Logged by	M. Dittrick		

Purpose/Target: Delineation drilling in West Pit Zone.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	13.11	13.11		OVB							
13.11	15.24	2.13	589487	CAP	WRGD	3	3560	0.03	0.041	0.21	
15.24	18.29	3.05	589488	CAP	WRGD	3	6280	0.03	0.054	0.17	
18.29	21.34	3.05	589489	CAP	WRGD	3	6440	0.03	0.044	0.17	
21.34	24.38	3.04	589490	CAP	WRGD	3	7700	0.03	0.043	0.17	
24.38	27.43	3.05	589491	CAP	WRGD	3	7020	0.03	0.027	0.17	
27.43	30.48	3.05	589492	CAP	WRGD	3	6200	0.03	0.044	0.24	
30.48	33.53	3.05	589493	CAP	WRGD	3	4740	0.02	0.046	0.17	
33.53	36.58	3.05	589494	CAP	WRGD	3	4920	0.03	0.042	0.24	
36.58	39.62	3.04	589495	CAP	WRGD	3	7580	0.22	0.022	0.21	
39.62	42.67	3.05	589496	CAP	WRGD	3	5480	0.29	0.035	0.21	
42.67	45.72	3.05	589497	CAP	WRGD	3	4460	0.40	0.034	0.24	
45.72	48.77	3.05	589498	SUS	WRGD	3	5360	0.41	0.033	0.14	
48.77	51.82	3.05	589499	SUS	WRGD	3	4700	0.48	0.017	0.21	
51.82	54.56	2.74	589500	SUS	WRGD	3	6880	0.20	0.040	0.07	
54.56	57.15	2.59	941001	SUS	WRGD	3	4880	0.35	0.036	0.10	
57.15	60.66	3.51	941002	SUS	WRGD	3	5760	0.51	0.023	0.17	
60.66	64.01	3.35	941003	SUS	WRGD	3	6540	0.55	0.047	0.17	
64.01	67.06	3.05	941004	SUS	WRGD	3	7660	0.21	0.023	0.14	
67.06	69.80	2.74	941005	SUS	WRGD	3	6400	0.44	0.123	0.17	
69.80	71.93	2.13	941006	SUS	WRDR	3/7	5560	0.42	0.503	0.14	
71.93	74.68	2.75	941007	SUS	WRDR	3/7	7500	0.32	0.027	0.24	
74.68	76.20	1.52	941008	SUS	WRDR	3/7	4300	0.24	0.027	0.17	
76.20	79.25	3.05	941009	SUS	WRDR	3/7	8940	0.21	0.012	0.17	
79.25	82.30	3.05	941010	SUS	WRDR	3/7	10960	0.22	0.016	0.17	
82.30	85.34	3.04	941011	SUS	WRDR	3/7	9560	0.20	0.029	0.17	
85.34	87.28	1.94	941012	HYP	WRDR	3/7	8320	0.24	0.017	0.14	
87.28	90.83	3.55	941013	HYP	WRDR	3/7	11840	0.16	0.131	0.14	
90.83	92.96	2.13	941014	HYP	WRDR	3/7	6620	0.16	0.255	0.21	
92.96	96.32	3.36	941015	HYP	WRGD	3/7	10780	0.15	0.082	0.17	
96.32	99.36	3.04	941016	HYP	WRGD	6	11780	0.11	0.056	0.14	
99.36	102.41	3.05	941017	HYP	WRGD	6	11340	0.08	0.160	0.10	
102.41	105.46	3.05	941018	HYP	WRGD	6	11360	0.15	0.051	0.17	
105.46	106.68	1.22	941019	HYP	WRGD	6	3220	0.20	0.174	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
106.68	109.73	3.05	941020	HYP	WRGD	6/2	11540	0.15	0.070	0.17	
109.73	112.17	2.44	941021	HYP	WRGD	6	10400	0.10	0.102	0.10	
112.17	115.21	3.04	941022	HYP	WRGD	6/2	10080	0.18	0.070	0.14	
115.21	117.04	1.83	941023	HYP	WRGD	6/2	5140	0.16	0.055	0.17	
117.04	120.09	3.05	941024	HYP	WRGD	6	11640	0.11	0.044	0.10	
120.09	121.92	1.83	941025	HYP	WRGD	7	7260	0.08	0.009	0.10	
121.92	124.97	3.05	941026	HYP	WRGD	7	12320	0.12	0.022	0.14	
124.97	128.02	3.05	941027	HYP	WRGD	6	10400	0.11	0.047	0.14	
128.02	131.06	3.04	941028	HYP	WRGD	6/5	11560	0.10	0.058	0.10	
131.06	134.11	3.05	941029	HYP	WRGD	6/5	13030	0.09	0.050	0.10	
134.11	137.16	3.05	941030	HYP	WRGD	6/5	13500	0.08	0.038	0.10	
137.16	140.21	3.05	941031	HYP	WRGD	5/6	10920	0.04	0.098	0.03	
140.21	143.26	3.05	941032	HYP	WRGD	6/5	12900	0.14	0.022	0.17	
143.26	146.30	3.04	941033	HYP	WRGD	6/5	12940	0.13	0.108	0.14	
146.30	149.35	3.05	941034	HYP	WRGD	6/5	13260	0.13	0.107	0.10	
149.35	152.40	3.05	941035	HYP	WRGD	6/5	12680	0.11	0.083	0.07	
152.40	155.45	3.05	941036	HYP	WRGD	6/5	11940	0.12	0.071	0.14	
155.45	158.50	3.05	941037	HYP	WRGD	6/5	13360	0.07	0.044	0.10	
158.50	161.54	3.04	941038	HYP	WRGD	6/5	12060	0.09	0.051	0.03	
161.54	164.59	3.05	941039	HYP	WRGD	6/5	11580	0.10	0.046	0.07	
164.59	167.64	3.05	941040	HYP	WRGD	6/5	11360	0.15	0.042	0.10	
167.64	170.69	3.05	941041	HYP	WRGD	6/5	13100	0.13	0.024	0.10	
170.69	173.74	3.05	941042	HYP	WRGD	5	11820	0.14	0.098	0.07	
173.74	176.78	3.04	941043	HYP	WRGD	6/5	13860	0.13	0.096	0.07	
176.78	179.83	3.05	941044	HYP	WRGD	6/5	12000	0.10	0.051	0.07	
179.83	182.88	3.05	941045	HYP	WRGD	6/5	13200	0.17	0.049	0.14	
182.88	185.93	3.05	941046	HYP	WRGD	5	12420	0.11	0.084	0.34	
185.93	188.98	3.05	941047	HYP	WRGD	5	15020	0.09	0.052	0.17	
188.98	192.02	3.04	941048	HYP	WRGD	6	14120	0.15	0.050	0.21	
192.02	195.07	3.05	941049	HYP	WRGD	7	13000	0.15	0.052	0.17	
195.07	198.12	3.05	941050	HYP	WRGD	7	12680	0.15	0.050	0.14	
198.12	201.17	3.05	941051	HYP	WRGD	7	13100	0.12	0.053	0.10	
201.17	204.22	3.05	941052	HYP	WRGD	7	13700	0.12	0.063	0.10	
204.22	207.26	3.04	941053	HYP	WRGD	7	12360	0.13	0.039	0.07	
207.26	210.31	3.05	941054	HYP	WRGD	7	13560	0.13	0.023	0.14	
210.31	213.36	3.05	941055	HYP	WRGD	7	12480	0.10	0.088	0.10	
213.36	216.41	3.05	941056	HYP	WRGD	7	13160	0.06	0.047	0.10	
216.41	219.46	3.05	941057	HYP	WRGD	7	12740	0.08	0.036	0.10	
219.46	222.50	3.04	941058	HYP	WRGD	7	12760	0.13	0.037	0.14	
222.50	224.95	2.45	941059	HYP	WRGD	7	9460	0.10	0.065	0.14	
224.95	226.47	1.52	941060	HYP	WRGD	7	7380	0.07	0.058	0.10	
226.47	228.60	2.13	941061	HYP	WRGD	7	11720	0.12	0.124	0.17	
228.60	231.65	3.05	941062	HYP	WRGD	7	9160	0.16	0.039	0.17	
231.65	233.17	1.52	941063	HYP	WRGD	7	5160	0.19	0.055	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-238	Total Depth	352.65 m
Northing	255,100.23	Casing Depth	3.66 m Left Out
Easting	110,599.92	Survey Data	Azimuth Dip Instrument
Elevation	1253.30 m	Collar	-90.00°
Core Size	HQ	157.6 m	138° -88.25° Sperry Sun
Drilling Started	October 21, 1993	310.0 m	131° -89.00° Sperry Sun
Drilling Finished	October 28, 1993		
Logged by	B. Thurston		
Purpose/Target:	West Pit		

Comments:

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	4.88	4.88		OVB							
4.88	7.92	3.04	567118	CAP	QMFX	7/5	11160	0.05	0.005	0.07	
7.92	10.97	3.05	567119	CAP	QMFX	7/5	12060	0.05	0.004	0.07	
10.97	14.33	3.36	567120	CAP	QMFX	7/5	11000	0.11	0.005	0.03	
14.33	16.46	2.13	567121	CAP	QMFX	7/5	5820	0.08	0.004	0.07	
16.46	19.96	3.50	567122	CAP	QMFX	7/5	12020	0.06	0.004	0.03	
19.96	22.40	2.44	567123	CAP	QMFX	7/5	8380	0.01	0.008	0.07	
22.40	25.30	2.90	567124	CAP	QMFX	7/5	9600	0.01	0.006	0.07	
25.30	29.26	3.96	567125	CAP	WRGD	7/5	14100	0.01	0.007	0.10	
29.26	32.46	3.20	567126	CAP	WRGD	7/5	11800	0.02	0.012	0.14	
32.46	35.51	3.05	567127	CAP	WRGD	7/5	11500	0.01	0.013	0.24	
35.51	38.71	3.20	567128	CAP	WRGD	7/5	11260	0.01	0.006	0.07	
38.71	41.76	3.05	567129	CAP	WRGD	7/5	11300	0.02	0.011	0.17	
41.76	44.81	3.05	567130	CAP	WRGD	7/5	11780	0.02	0.010	0.27	
44.81	47.85	3.04	567131	CAP	WRGD	7/5	13100	0.05	0.013	0.31	
47.85	50.44	2.59	567132	CAP	WRGD	7/5	9300	0.04	0.006	0.07	
50.44	53.95	3.51	567133	CAP	WRGD	7/5	13480	0.04	0.005	0.07	
53.95	56.39	2.44	567134	CAP	WRGD	7/5	8040	0.04	0.003	0.07	
56.39	59.59	3.20	567135	CAP	WRGD	7/5	11680	0.04	0.005	0.03	
59.59	63.40	3.81	567136	SUS	WRGD	7/5	13800	0.13	0.004	<0.03	
63.40	65.53	2.13	567137	SUS	WRGD	7/5	6960	0.21	0.012	<0.03	
65.53	69.19	3.66	567138	SUS	WRGD	7/5	12880	0.13	0.004	<0.03	
69.19	72.54	3.35	567139	SUS	WRGD	7/5	11900	0.14	0.006	<0.03	
72.54	75.29	2.75	567140	SUS	WRGD	7/5	9920	0.19	0.006	0.07	
75.29	78.33	3.04	567141	SUS	WRGD	7/5	11900	0.13	0.004	0.07	
78.33	81.38	3.05	567142	SUS	PPDP	7/5	11500	0.07	0.004	0.03	
81.38	84.43	3.05	567143	SUS	PPDP	7/5	11600	0.08	0.010	0.10	
84.43	87.48	3.05	567144	SUS	PPDP	7/5	10740	0.09	0.011	<0.03	
87.48	90.53	3.05	567145	SUS	PPDP	7/5	11880	0.07	0.004	0.07	
90.53	93.57	3.04	567146	SUS	PPDP	7/5	13100	0.07	0.006	0.07	
93.57	96.62	3.05	567147	SUS	PPDP	7/5	11500	0.08	0.009	0.07	
96.62	99.67	3.05	567148	SUS	PPDP	7/5	12700	0.10	0.012	0.07	
99.67	102.72	3.05	567149	SUS	PPDP	7/5	13360	0.18	0.011	0.14	
102.72	105.77	3.05	567150	SUS	PPDP	7/5	12540	0.11	0.010	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
105.77	109.27	3.50	567151	SUS	PPDP	7/5	15340	0.04	0.007	0.07	
109.27	111.86	2.59	567152	SUS	PPDP	7/5	9900	0.04	0.005	0.07	
111.86	114.60	2.74	567153	HYP	LPXX	5	9860	0.02	0.001	0.03	
114.60	117.65	3.05	567154	HYP	LPXX	5	11800	0.05	0.002	0.07	
117.65	120.40	2.75	567155	HYP	LPXX	5	10680	0.02	0.002	0.72	
120.40	122.53	2.13	567156	HYP	PPDP	7/5	6620	0.02	0.010	0.34	
122.53	125.58	3.05	567157	HYP	PPDP	7/5	11860	0.12	0.027	0.62	
125.58	128.63	3.05	567158	HYP	PPDP	7/5	11840	0.11	0.031	0.27	
128.63	130.76	2.13	567159	HYP	PPDP	7/5	8460	0.10	0.024	0.10	
130.76	133.20	2.44	567160	HYP	PPDP	7/5	8620	0.08	0.020	0.10	
133.20	136.25	3.05	567161	HYP	PPDK	7/5	12000	0.03	0.039	0.00	
136.25	139.29	3.04	567162	HYP	PPDK	7/5	11640	0.03	0.004	<0.03	
139.29	142.34	3.05	567163	HYP	PPDK	7/5	14060	0.05	0.008	<0.03	
142.34	145.39	3.05	567164	HYP	PPDP	7/5	12120	0.03	0.003	<0.03	
145.39	148.44	3.05	567165	HYP	PPDP	7/5	12020	0.03	0.003	<0.03	
148.44	151.49	3.05	567166	HYP	PPDP	7/5	12300	0.05	0.008	<0.03	
151.49	154.53	3.04	567167	HYP	PPDP	7/5	10420	0.05	0.004	0.07	
154.53	157.58	3.05	567168	HYP	PPDP	7/5	13280	0.03	0.005	0.24	
157.58	160.63	3.05	567169	HYP	PPDP	7/5	11500	0.03	0.023	0.03	
160.63	163.68	3.05	567170	HYP	PPDP	7/5	11860	0.03	0.004	0.07	
163.68	166.73	3.05	567171	HYP	PPDP	7/5	12660	0.02	0.005	0.07	
166.73	169.77	3.04	567172	HYP	PPDP	7/5	12100	0.04	0.004	0.07	
169.77	172.82	3.05	567173	HYP	PPDP	7/5	11860	0.03	0.007	0.07	
172.82	175.87	3.05	567174	HYP	PPDP	7/5	12540	0.03	0.006	0.07	
175.87	178.49	2.62	567175	HYP	PPDP	7/5	9980	0.01	0.008	0.07	
178.49	181.54	3.05	567176	HYP	PPDP	7/5	12460	0.03	0.004	0.07	
181.54	184.59	3.05	567177	HYP	PPDP	7/5	10720	0.05	0.015	0.10	
184.59	187.63	3.04	567178	HYP	PPDP	7/5	12000	0.04	0.005	0.10	
187.63	190.80	3.17	567179	HYP	PPDP	7/5	11840	0.07	0.011	0.14	
190.80	193.85	3.05	567180	HYP	PPDP	7/5	11860	0.04	0.013	0.07	
193.85	196.90	3.05	567181	HYP	PPDP	7/5	15460	0.02	0.002	0.07	
196.90	200.25	3.35	567182	HYP	PPDP	7/5	12060	0.03	0.009	<0.03	
200.25	203.30	3.05	567183	HYP	PPDP	7/5	12860	0.03	0.006	<0.03	
203.30	206.35	3.05	567184	HYP	PPDP	7/5	9560	0.04	0.006	<0.03	
206.35	209.40	3.05	567185	HYP	PPDP	7/5	13040	0.05	0.011	<0.03	
209.40	212.45	3.05	567186	HYP	PPDP	7/5	13060	0.03	0.005	<0.03	
212.45	215.49	3.04	567187	HYP	PPDP	7/5	12400	0.02	0.005	<0.03	
215.49	218.54	3.05	567188	HYP	PPDP	7/5	12720	0.02	0.003	0.07	
218.54	221.59	3.05	567189	HYP	PPDP	7/6/5	11820	0.02	0.002	0.03	
221.59	224.64	3.05	567190	HYP	PPDP	7/6/5	12180	0.02	0.003	0.07	
224.64	227.69	3.05	567191	HYP	PPDP	7/6/5	12700	0.06	0.014	0.07	
227.69	230.73	3.04	567192	HYP	PPDP	7/6/5	11740	0.02	0.002	<0.03	
230.73	233.78	3.05	567193	HYP	PPDP	7/6/5	10420	0.02	0.005	<0.03	
233.78	236.83	3.05	567194	HYP	PPDP	7/5	13120	0.02	0.003	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-238

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
236.83	239.88	3.05	567195	HYP	PPDP	6/7/5	11300	0.02	0.004	<0.03	
239.88	242.93	3.05	567196	HYP	PPDP	6/7/5	11900	0.11	0.012	0.14	
242.93	245.97	3.04	567197	HYP	PPDP	6/7/5	12580	0.03	0.005	0.03	
245.97	249.02	3.05	567198	HYP	PPDP	6/7/5	13540	0.07	0.010	0.07	
249.02	252.07	3.05	567199	HYP	PPDP	6/7/5	12860	0.02	0.004	<0.03	
252.07	255.12	3.05	567200	HYP	PPDP	6/7/5	13080	0.04	0.003	<0.03	
255.12	258.17	3.05	567201	HYP	PPDP	6/7/5	12300	0.03	0.016	<0.03	
258.17	261.21	3.04	567202	HYP	PPDP	6/7/5	11540	0.02	0.009	0.10	
261.21	264.26	3.05	567203	HYP	PPDP	7/5	12360	0.03	0.019	0.10	
264.26	267.31	3.05	567204	HYP	PPDP	7/5	11760	0.03	0.003	0.10	
267.31	270.36	3.05	567205	HYP	PPDP	7/5	12620	0.04	0.007	0.07	
270.36	273.41	3.05	567206	HYP	PPDP	7/5	11880	0.02	0.007	<0.03	
273.41	276.45	3.04	567207	HYP	PPDP	7/5	13000	0.02	0.006	<0.03	
276.45	279.50	3.05	567208	HYP	PPDP	6/7/5	12240	0.05	0.024	0.07	
279.50	282.55	3.05	567209	HYP	PPDP	6/7/5	12940	0.02	0.015	<0.03	
282.55	285.60	3.05	567210	HYP	PPDP	6/7/5	13460	0.04	0.003	0.10	
285.60	288.65	3.05	567211	HYP	PPDP	6/7/5	14440	0.02	0.009	0.07	
288.65	291.69	3.04	567212	HYP	PPDP	7/5	11000	0.03	0.005	0.10	
291.69	294.74	3.05	567213	HYP	PPDP	7/5	10960	0.02	0.004	0.10	
294.74	297.79	3.05	567214	HYP	PPDP	7/5	11740	0.02	0.004	<0.03	
297.79	300.84	3.05	567215	HYP	PPDP	7/5	11260	0.02	0.004	<0.03	
300.84	303.89	3.05	567216	HYP	PPDP	7/5	12020	0.02	0.008	<0.03	
303.89	306.93	3.04	567217	HYP	PPDP	7/5	12700	0.09	0.006	0.07	
306.93	309.98	3.05	567218	HYP	PPDP	7/5	11240	0.02	0.008	0.07	
309.98	313.03	3.05	567219	HYP	PPDP	7/5	12840	0.04	0.012	0.07	
313.03	316.08	3.05	567220	HYP	PPDP	7/5	11120	0.01	0.007	<0.03	
316.08	319.13	3.05	567221	HYP	PPDP	7/5	12740	0.02	0.005	<0.03	
319.13	322.17	3.04	567222	HYP	PPDP	7/5	12640	0.01	0.002	<0.03	
322.17	325.22	3.05	567223	HYP	PPDP	7/5	12340	0.01	0.001	<0.03	
325.22	328.27	3.05	567224	HYP	PPDP	7/5	12200	0.01	0.001	<0.03	
328.27	331.32	3.05	567225	HYP	PPDP	7/5	13060	0.03	0.004	0.03	
331.32	334.37	3.05	567226	HYP	PPDP	7/5	11920	0.05	0.017	0.10	
334.37	337.41	3.04	567227	HYP	PPDP	7/5	11380	0.02	0.001	0.07	
337.41	340.46	3.05	567228	HYP	PPDP	7/5	12080	0.02	0.007	0.07	
340.46	343.51	3.05	567229	HYP	PPDP	7/5	11420	0.03	0.007	0.10	
343.51	346.56	3.05	567230	HYP	PPDP	7/5	13030	0.02	0.004	<0.03	
346.56	349.61	3.05	567231	HYP	PPDP	7/5	11960	0.01	0.002	<0.03	
349.61	352.65	3.04	567232	HYP	PPDP	7/5	12020	0.01	0.001	<0.03	
352.65	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-239	Total Depth	366.98 m
Northing	255,098.83	Casing Depth	19.51 m Left Out
Easting	110,399.45	Survey Data	Azimuth / Dip / Instrument
Elevation	1230.21 m	Collar	-90.00°
Core Size	HQ	154.53 m	104° / -89.00° / Sperry Sun
Drilling Started	October 26, 1993	304.80 m	117° / -89.25° / Sperry Sun
Drilling Finished	November 2, 1993		
Logged by	P. Fischl		

Purpose/Target: Delineation drilling of the West Zone.

Comments: This hole encountered a section of granodiorite (WRGD) with a moderately mineralized supergene zone and a weakly mineralized hypogene zone.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.53	8.53		OVB							
8.53	12.19	3.66	940692	CAP	WRGD	3	8860	0.16	0.116	0.21	
12.19	14.33	2.14	940693	CAP	WRGD	3/7	5020	0.11	0.091	0.14	
14.33	17.37	3.04	940694	CAP	WRGD	3/7	7780	0.08	0.047	0.10	
17.37	20.73	3.36	940695	CAP	WRGD	3/7	8500	0.04	0.023	0.27	
20.73	23.47	2.74	940696	CAP	WRGD	3/7	6140	0.02	0.066	0.24	
23.47	25.60	2.13	940697	CAP	WRGD	3/5/7	4740	0.02	0.044	0.17	
25.60	28.96	3.36	940698	CAP	WRGD	3/5/7	7560	0.02	0.084	0.24	
28.96	32.61	3.65	940699	CAP	WRGD	3/7	10520	0.02	0.021	0.21	
32.61	35.97	3.36	940700	CAP	WRDR	3/7	9140	0.02	0.049	0.17	
35.97	37.19	1.22	940701	SOX	WRDR	3	3880	0.01	0.017	0.14	
37.19	39.93	2.74	940702	SOX	WRDR	3	7380	0.05	0.023	0.27	
39.93	41.76	1.83	940703	SOX	WRDR	3	6040	0.03	0.015	0.17	
41.76	44.20	2.44	940704	SUS	WRDR	3	6920	0.27	0.019	0.24	
44.20	46.94	2.74	940705	SUS	WRDR	3/5	10900	0.31	0.020	0.27	
46.94	49.99	3.05	940706	SUS	QMFX	7/3/5	9860	0.30	0.031	0.31	
49.99	51.51	1.52	940707	SUS	QMFX	7/3/5	4920	0.29	0.032	0.21	
51.51	53.95	2.44	940708	SUS	QMFX	7/3/5	7800	0.34	0.044	0.17	
53.95	56.39	2.44	940709	SUS	QMFX	7/3/5	7480	0.15	0.023	0.10	
56.39	60.05	3.66	940710	SUS	QMFX	3/7/5	11180	0.35	0.025	0.10	
60.05	63.70	3.65	940711	SUS	WRGD	6/7/5	11620	0.32	0.096	0.07	
63.70	66.14	2.44	940712	SUS	WRGD	6/7/5	8980	0.33	0.015	0.10	
66.14	68.28	2.14	940713	SUS	WRGD	6/7/5	6780	0.29	0.015	0.07	
68.28	70.71	2.43	940714	SUS	WRGD	6/7/5	9660	0.37	0.032	0.03	
70.71	74.07	3.36	940715	SUS	WRGD	6/7/5	9220	0.23	0.031	0.07	
74.07	75.90	1.83	940716	SUS	WRGD	6/7/5	5840	0.17	0.007	0.10	
75.90	77.88	1.98	940717	SUS	WRGD	6/7/5	7700	0.44	0.040	0.17	
77.88	80.47	2.59	940718	SUS	WRGD	6/7/5	8640	0.35	0.024	0.07	
80.47	83.52	3.05	940719	SUS	WRGD	6/7/5	11120	0.39	0.019	0.10	
83.52	85.95	2.43	940720	SUS	WRGD	6/5/7	8720	0.13	0.029	0.14	
85.95	89.61	3.66	940721	SUS	WRGD	6/5/7	10140	0.15	0.038	0.10	
89.61	91.75	2.14	940722	SUS	WRGD	6/5/7	3860	0.29	0.060	0.17	
91.75	93.88	2.13	940723	SUS	WRGD	6/5/7	4860	0.16	0.016	0.10	
93.88	96.62	2.74	940724	SUS	WRGD	6/7/5	10900	0.14	0.044	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
96.62	99.67	3.05	940725	SUS	WRGD	6/5/7	7220	0.07	0.036	0.07	
99.67	102.72	3.05	940726	SUS	WRGD	6/7/5	7580	0.09	0.018	0.10	
102.72	105.61	2.89	940727	SUS	WRGD	6/7/5	9860	0.10	0.022	0.03	
105.61	108.91	3.30	940728	HYP	WRGD	6/5/7	11540	0.14	0.038	0.10	
108.91	111.86	2.95	940729	HYP	WRGD	6/5/7	10200	0.12	0.020	0.10	
111.86	114.30	2.44	940730	HYP	WRGD	6/5/7	9700	0.16	0.019	0.14	
114.30	116.74	2.44	940731	HYP	WRGD	6/7/5	8000	0.12	0.035	0.10	
116.74	119.48	2.74	940732	HYP	WRGD	6/7/5	9860	0.09	0.018	0.03	
119.48	122.53	3.05	940733	HYP	WRGD	6/5/7	11300	0.13	0.009	0.07	
122.53	125.58	3.05	940734	HYP	WRGD	6/5/7	11980	0.11	0.030	0.10	
125.58	128.02	2.44	940735	HYP	WRGD	6/7/5	9080	0.09	0.020	0.10	
128.02	130.15	2.13	940736	HYP	WRGD	6/5/7	8500	0.10	0.016	0.07	
130.15	133.20	3.05	940737	HYP	WRGD	6/5/7	11640	0.14	0.041	0.14	
133.20	136.25	3.05	940738	HYP	WRGD	6/7/5	10420	0.15	0.021	0.24	
136.25	139.29	3.04	940739	HYP	WRGD	6/7/5	12180	0.05	0.011	0.07	
139.29	142.34	3.05	940740	HYP	WRGD	6/7/5	10980	0.12	0.030	0.14	
142.34	145.39	3.05	940741	HYP	WRGD	6/7/5	11780	0.21	0.035	0.24	
145.39	148.44	3.05	940742	HYP	WRGD	6/7/5	10680	0.13	0.039	0.10	
148.44	149.66	1.22	940743	HYP	WRGD	6/7/5	4760	0.11	0.017	0.10	
149.66	152.70	3.04	940744	HYP	WRGD	7/5	10600	0.11	0.019	0.17	
152.70	154.53	1.83	940745	HYP	WRGD	6/7/5	7600	0.09	0.016	0.14	
154.53	157.58	3.05	940746	HYP	WRGD	6/7/5	12720	0.12	0.017	0.24	
157.58	160.63	3.05	940747	HYP	WRGD	6/7/5	12780	0.09	0.016	0.10	
160.63	163.68	3.05	940748	HYP	WRGD	7/6/5	12900	0.09	0.027	0.10	
163.68	166.73	3.05	940749	HYP	WRGD	6/7/5	13000	0.09	0.016	0.07	
166.73	169.77	3.04	940750	HYP	WRGD	6/7/5	11180	0.10	0.011	0.10	
169.77	172.88	3.11	940751	HYP	WRGD	6/7/5	10740	0.08	0.009	0.10	
172.88	174.35	1.47	940752	HYP	WRGD	7/6	6560	0.09	0.014	0.14	
174.35	177.09	2.74	940753	HYP	WRGD	7/6	10900	0.10	0.015	0.10	
177.09	178.92	1.83	940754	HYP	WRGD	7/6	6940	0.14	0.014	0.14	
178.92	181.97	3.05	940755	HYP	WRGD	6/7	13560	0.11	0.079	0.14	
181.97	185.01	3.04	940756	HYP	WRGD	6/7	11340	0.12	0.012	0.14	
185.01	188.06	3.05	940757	HYP	WRGD	6/7	9860	0.18	0.020	0.17	
188.06	191.11	3.05	940758	HYP	WRGD	7/6	12120	0.18	0.028	0.17	
191.11	194.16	3.05	940759	HYP	WRGD	7/6	10520	0.06	0.025	0.03	
194.16	197.21	3.05	940760	HYP	WRGD	6/7	12100	0.06	0.013	0.07	
197.21	200.25	3.04	940761	HYP	WRGD	7/6	14560	0.09	0.012	0.07	
200.25	203.30	3.05	940762	HYP	WRGD	7	13140	0.09	0.014	0.10	
203.30	206.35	3.05	940763	HYP	WRGD	7	12580	0.05	0.016	0.07	
206.35	209.40	3.05	940764	HYP	WRGD	7	12040	0.09	0.012	0.10	
209.40	212.45	3.05	940765	HYP	WRGD	7	12220	0.12	0.025	0.07	
212.45	215.49	3.04	940766	HYP	WRGD	7	12020	0.22	0.025	0.21	
215.49	218.54	3.05	940767	HYP	WRGD	7	12160	0.09	0.071	0.10	
218.54	221.59	3.05	940768	HYP	WRGD	7	11100	0.06	0.019	0.07	

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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
221.59	224.64	3.05	940769	HYP	WRGD	7	11740	0.11	0.043	0.07	
224.64	227.69	3.05	940770	HYP	WRGD	7	11360	0.12	0.070	0.10	
227.69	230.73	3.04	940771	HYP	WRGD	7	11460	0.12	0.067	0.07	
230.73	233.78	3.05	940772	HYP	WRGD	7	13200	0.04	0.017	0.03	
233.78	236.68	2.90	940773	HYP	WRGD	7	11720	0.07	0.008	0.07	
236.68	239.88	3.20	940774	HYP	WRGD	7	12380	0.05	0.021	0.03	
239.88	242.93	3.05	940775	HYP	WRGD	7	12180	0.05	0.016	0.07	
242.93	245.97	3.04	940776	HYP	WRGD	7	13260	0.07	0.019	0.07	
245.97	249.02	3.05	940777	HYP	WRGD	7	12880	0.09	0.012	0.07	
249.02	252.07	3.05	940778	HYP	WRGD	7	12460	0.08	0.015	0.07	
252.07	255.12	3.05	940779	HYP	WRGD	7	12940	0.03	0.020	<0.03	
255.12	258.17	3.05	940780	HYP	WRGD	7	12420	0.05	0.020	0.03	
258.17	261.21	3.04	940781	HYP	WRGD	7	12980	0.06	0.012	0.07	
261.21	264.26	3.05	940782	HYP	WRGD	7	12400	0.06	0.011	0.07	
264.26	267.31	3.05	940783	HYP	WRGD	7	13200	0.05	0.010	0.03	
267.31	270.36	3.05	940784	HYP	WRGD	7	11700	0.02	0.004	<0.03	
270.36	273.41	3.05	940785	HYP	WRGD	7	12860	0.02	0.006	<0.03	
273.41	276.45	3.04	940786	HYP	WRGD	7	12880	0.04	0.010	<0.03	
276.45	279.50	3.05	940787	HYP	WRGD	7	12560	0.06	0.007	0.03	
279.50	282.55	3.05	940788	HYP	WRGD	7	12400	0.17	0.024	0.21	
282.55	285.60	3.05	940789	HYP	WRGD	7	12860	0.10	0.016	0.10	
285.60	288.65	3.05	940790	HYP	WRGD	7	12820	0.12	0.018	0.07	
288.65	291.69	3.04	940791	HYP	WRGD	7	12600	0.09	0.011	0.10	
291.69	294.74	3.05	940792	HYP	WRGD	7	13300	0.06	0.013	0.07	
294.74	297.79	3.05	940793	HYP	WRGD	7	11640	0.07	0.014	0.10	
297.79	300.84	3.05	940794	HYP	WRGD	7	12220	0.03	0.009	0.07	
300.84	303.89	3.05	940795	HYP	WRGD	7	12660	0.04	0.013	0.03	
303.89	306.93	3.04	940796	HYP	WRGD	7	13360	0.07	0.009	0.07	
306.93	309.98	3.05	940797	HYP	WRGD	7	11800	0.04	0.013	<0.03	
309.98	313.03	3.05	940798	HYP	WRGD	7/4	11660	0.06	0.123	0.14	
313.03	316.08	3.05	940799	HYP	WRGD	7/4	11860	0.08	0.016	0.07	
316.08	319.13	3.05	940800	HYP	WRGD	7/4	11620	0.07	0.014	0.03	
319.13	322.17	3.04	940801	HYP	WRGD	7/4	11900	0.03	0.015	0.03	
322.17	325.22	3.05	940802	HYP	WRGD	7/4	11680	0.03	0.014	<0.03	
325.22	328.27	3.05	940803	HYP	WRGD	4/7	12260	0.04	0.007	<0.03	
328.27	331.32	3.05	940804	HYP	WRGD	4/7	12000	0.03	0.012	0.14	
331.32	334.37	3.05	940805	HYP	WRGD	7	12300	0.04	0.008	<0.03	
334.37	337.41	3.04	940806	HYP	WRGD	7	12320	0.04	0.011	<0.03	
337.41	340.46	3.05	940807	HYP	WRGD	7	12180	0.03	0.009	<0.03	
340.46	343.51	3.05	940808	HYP	WRGD	7	13580	0.04	0.033	<0.03	
343.51	346.56	3.05	940809	HYP	WRGD	7	12640	0.05	0.018	<0.03	
346.56	349.61	3.05	940810	HYP	WRGD	7	12440	0.05	0.012	<0.03	
349.61	352.65	3.04	940811	HYP	WRGD	7	12380	0.03	0.011	<0.03	
352.65	355.70	3.05	940812	HYP	WRGD	7	12560	0.02	0.007	<0.03	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
355.70	358.75	3.05	940813	HYP	WRGD	7	12000	0.08	0.010	0.07	
358.75	361.80	3.05	940814	HYP	WRGD	7	13440	0.11	0.057	0.07	
361.80	364.85	3.05	940815	HYP	WRGD	7	12140	0.13	0.053	0.14	
364.85	366.98	2.13	940816	HYP	WRGD	7	8860	0.09	0.094	0.10	
366.98	END OF HOLE										

SUMMARY DRILL LOG
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Hole Number	93-240	Total Depth	316.08 m
Northing	254,899.86	Casing Depth	7.32 m Left In
Easting	110,601.81	Survey Data	Azimuth / Dip / Instrument
Elevation	1258.12 m	Collar	-90.00° Brunton Compass
Core Size	HQ	152.40 m	030° -89.25° Sperry Sun
Drilling Started	October 26, 1993	305.53 m	355° -89.00° Sperry Sun
Drilling Finished	November 1, 1993		
Logged by	M.P. Phillips		

Purpose/Target: Define southeast limits of mineralization seen in Hole 93-148.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.66	3.66		OVB							
3.66	5.18	1.52	940242	CAP	PPDP	3	3900	0.05	0.026	0.07	
5.18	8.23	3.05	940243	CAP	PPDP	3	6140	0.04	0.024	0.03	
8.23	11.28	3.05	940244	CAP	PPDP	3	10720	0.03	0.036	0.07	
11.28	14.33	3.05	940245	CAP	PPDP	3	9740	0.04	0.030	0.10	
14.33	17.37	3.04	940246	CAP	PPDP	3	11640	0.05	0.026	0.03	
17.37	19.96	2.59	940247	CAP	PPDP	3	7800	0.04	0.037	<0.03	
19.96	23.01	3.05	940248	CAP	PPDP	3	12100	0.03	0.017	<0.03	
23.01	26.52	3.51	940249	CAP	PPDP	3	13160	0.03	0.022	<0.03	
26.52	29.57	3.05	940250	CAP	PPDP	3	11540	0.02	0.035	<0.03	
29.57	32.61	3.04	940251	CAP	PPDP	3	11280	0.03	0.063	<0.03	
32.61	35.66	3.05	940252	CAP	PPDP	3	11720	0.05	0.026	<0.03	
35.66	38.71	3.05	940253	CAP	PPDP	3	10980	0.06	0.028	<0.03	
38.71	41.76	3.05	940254	SUS	PPDP	7/3	11900	0.16	0.018	<0.03	
41.76	44.81	3.05	940255	SUS	PPDP	7/3	11780	0.31	0.027	0.10	
44.81	47.85	3.04	940256	SUS	PPDP	7/3	11160	0.37	0.025	0.10	
47.85	50.90	3.05	940257	SUS	PPDP	7/3	11660	0.23	0.033	0.07	
50.90	53.95	3.05	940258	SUS	PPDP	7	11860	0.20	0.020	0.03	
53.95	57.00	3.05	940259	SUS	PPDP	7	12640	0.43	0.018	0.17	
57.00	60.05	3.05	940260	SUS	PPDP	7	11580	0.15	0.007	<0.03	
60.05	63.09	3.04	940261	SUS	PPDP	7	11020	0.24	0.006	<0.03	
63.09	65.53	2.44	940262	SUS	PPDP	7	7940	0.19	0.005	<0.03	
65.53	68.58	3.05	940263	SUS	PPDP	7	11760	0.30	0.005	0.07	
68.58	72.24	3.66	940264	TRN	PPDP	7	14500	0.17	0.007	<0.03	
72.24	74.37	2.13	940265	TRN	PPDP	7	8880	0.12	0.004	0.07	
74.37	77.42	3.05	940266	TRN	PPDP	7	10880	0.16	0.033	0.07	
77.42	79.24	1.82	940267	TRN	PPDP	7	6880	0.15	0.029	<0.03	
79.24	82.91	3.67	940268	TRN	PPDP	7	12340	0.15	0.057	<0.03	
82.91	85.65	2.74	940269	TRN	PPDP	7	8460	0.38	0.183	0.21	
85.65	87.43	1.78	940270	TRN	PPDP	7	6620	0.17	0.054	0.07	
87.43	90.53	3.10	940271	TRN	PPDB	7	10040	0.11	0.026	0.07	
90.53	93.57	3.04	940272	TRN	PPDB	7	10560	0.12	0.028	<0.03	
93.57	96.62	3.05	940273	TRN	PPDB	7	10580	0.10	0.028	<0.03	
96.62	99.06	2.44	940274	TRN	PPDB	7	7920	0.06	0.004	<0.03	

SUMMARY DRILL LOG
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From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.06	102.11	3.05	940275	TRN	PPDB	7	12160	0.05	0.006	<0.03	
102.11	105.16	3.05	940276	TRN	PPDB	7	11060	0.07	0.012	<0.03	
105.16	108.20	3.04	940277	TRN	PPDB	7	11640	0.10	0.022	<0.03	
108.20	110.64	2.44	940278	TRN	PPDB	7	14560	0.10	0.025	<0.03	
110.64	113.69	3.05	940279	TRN	PPDP	7	5080	0.14	0.050	<0.03	
113.69	115.52	1.83	940280	TRN	PPDP	7	6720	0.23	0.022	0.07	
115.52	117.96	2.44	940281	TRN	PPDP	7	8140	0.19	0.017	0.07	
117.96	121.01	3.05	940282	TRN	PPDP	7	10820	0.08	0.012	<0.03	
121.01	124.05	3.04	940283	TRN	PPDP	7	10760	0.13	0.019	0.07	
124.05	127.10	3.05	940284	TRN	PPDP	7	11500	0.20	0.032	0.14	
127.10	130.15	3.05	940285	TRN	PPDP	7	11680	0.12	0.033	0.10	
130.15	133.20	3.05	940286	HYP	PPDP	7	11200	0.11	0.030	0.07	
133.20	135.03	1.83	940287	HYP	PPDP	7	5160	0.10	0.047	<0.03	
135.03	138.07	3.04	940288	HYP	PPDP	7	9800	0.06	0.008	<0.03	
138.07	141.12	3.05	940289	HYP	PPDP	7	11560	0.09	0.016	0.03	
141.12	145.08	3.96	940290	HYP	PPDP	7	12680	0.12	0.025	0.07	
145.08	148.13	3.05	940291	HYP	PPDP	7	10460	0.06	0.019	0.03	
148.13	151.49	3.36	940292	HYP	PPDP	7	11020	0.04	0.024	<0.03	
151.49	154.53	3.04	940293	HYP	PPDP	7	10040	0.04	0.080	<0.03	
154.53	157.58	3.05	940294	HYP	PPDP	7	10900	0.07	0.017	<0.03	
157.58	160.63	3.05	940295	HYP	PPDP	7	11460	0.14	0.024	0.10	
160.63	162.76	2.13	940296	HYP	PPDP	7	6600	0.12	0.023	0.07	
162.76	164.90	2.14	940297	HYP	PPDP	7	7000	0.10	0.023	0.07	
164.90	166.73	1.83	940298	HYP	PPDP	7	8200	0.08	0.032	0.03	
166.73	169.16	2.43	940299	HYP	PPDP	7	9120	0.10	0.034	<0.03	
169.16	170.99	1.83	940300	HYP	PPDP	7	6900	0.07	0.044	<0.03	
170.99	172.82	1.83	940301	HYP	PPDP	7	6180	0.06	0.045	<0.03	
172.82	175.87	3.05	940302	HYP	PPDP	7	10800	0.07	0.026	<0.03	
175.87	178.92	3.05	940303	HYP	PPDP	7	12120	0.04	0.015	<0.03	
178.92	181.97	3.05	940304	HYP	PPDP	7	13120	0.03	0.015	<0.03	
181.97	185.01	3.04	940305	HYP	PPDP	7	12700	0.11	0.099	0.10	
185.01	188.06	3.05	940306	HYP	PPDP	7	13120	0.10	0.031	0.14	
188.06	191.11	3.05	940307	HYP	PPDP	7	12920	0.02	0.032	<0.03	
191.11	194.16	3.05	940308	HYP	PPDP	7	11460	0.08	0.011	<0.03	
194.16	197.21	3.05	940309	HYP	PPDP	7	12600	0.04	0.018	<0.03	
197.21	200.25	3.04	940310	HYP	PPDP	7	12280	0.03	0.006	<0.03	
200.25	203.30	3.05	940311	HYP	PPDP	7	12800	0.06	0.015	0.07	
203.30	206.35	3.05	940312	HYP	PPDP	7	12360	0.06	0.023	0.07	
206.35	209.40	3.05	940313	HYP	PPDP	7	11880	0.03	0.034	<0.03	
209.40	212.45	3.05	940314	HYP	PPDP	7	12620	0.05	0.014	<0.03	
212.45	215.49	3.04	940315	HYP	PPDP	7	12780	0.09	0.011	<0.03	
215.49	218.54	3.05	940316	HYP	PPDP	7	11740	0.05	0.009	<0.03	
218.54	221.59	3.05	940317	HYP	PPDP	7	9620	0.07	0.017	<0.03	
221.59	224.64	3.05	940318	HYP	PPDP	7	13160	0.03	0.007	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
224.64	227.69	3.05	940319	HYP	PPDP	7	14040	0.04	0.015	0.03	
227.69	230.73	3.04	940320	HYP	PPDP	7	14120	0.05	0.008	<0.03	
230.73	233.78	3.05	940321	HYP	PPDP	7	13300	0.14	0.017	<0.03	
233.78	236.83	3.05	940322	HYP	PPDP	7	13560	0.03	0.013	0.10	
236.83	239.88	3.05	940323	HYP	PPDP	7	11500	0.05	0.007	<0.03	
239.88	242.93	3.05	940324	HYP	PPDP	7	13840	0.08	0.012	<0.03	
242.93	245.97	3.04	940325	HYP	PPDP	7	12920	0.04	0.032	0.31	
245.97	249.02	3.05	940326	HYP	PPDP	7	11850	0.04	0.026	<0.03	
249.02	252.07	3.05	940327	HYP	PPDP	7	12280	0.04	0.021	<0.03	
252.07	255.12	3.05	940328	HYP	PPDP	7	12960	0.04	0.032	0.03	
255.12	258.17	3.05	940329	HYP	PPDB	7	11480	0.13	0.025	0.10	
258.17	261.21	3.04	940330	HYP	PPDB	7	13720	0.08	0.025	0.07	
261.21	264.26	3.05	940331	HYP	PPDB	7	12960	0.09	0.020	0.10	
264.26	267.31	3.05	940332	HYP	PPDB	7	11580	0.03	0.012	0.03	
267.31	270.36	3.05	940333	HYP	PPDP	7	13960	0.08	0.013	0.07	
270.36	273.41	3.05	940334	HYP	PPDP	7	12100	0.06	0.007	0.07	
273.41	276.45	3.04	940335	HYP	PPDB	7	12360	0.07	0.013	0.07	
276.45	279.50	3.05	940336	HYP	PPDB	7	12560	0.09	0.019	0.07	
279.50	282.55	3.05	940337	HYP	PPDB	7	12240	0.07	0.006	<0.03	
282.55	285.60	3.05	940338	HYP	PPDB	7	12360	0.15	0.025	0.03	
285.60	288.65	3.05	940339	HYP	PPDB	7	12760	0.17	0.017	0.17	
288.65	291.69	3.04	940340	HYP	PPDB	7	13080	0.12	0.018	0.07	
291.69	294.74	3.05	940341	HYP	PPDB	7	13440	0.15	0.028	0.07	
294.74	297.79	3.05	940342	HYP	PPDB	7	13160	0.10	0.018	0.07	
297.79	300.84	3.05	940343	HYP	PPDP	7	13220	0.14	0.010	0.21	
300.84	303.89	3.05	940344	HYP	PPDP	7	12000	0.07	0.017	<0.03	
303.89	306.93	3.04	940345	HYP	PPDP	7	12180	0.07	0.009	0.07	
306.93	309.98	3.05	940346	HYP	PPDP	7	11500	0.10	0.013	0.07	
309.98	313.03	3.05	940347	HYP	PPDP	7	12780	0.09	0.022	<0.03	
313.03	316.08	3.05	940348	HYP	PPDP	7	10381	0.06	0.032	<0.03	
316.08	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-241	Total Depth	237.74 m		
Northing	254,998.96	Casing Depth	8.23 m		Left Out
Easting	110,200.34	Survey Data	Azimuth	Dip	Instrument
Elevation	1226.58 m	Collar		-90.0°	
Core Size	HQ	152.40 m	1°	-87.2°	Sperry Sun
Drilling Started	October 29, 1993				
Drilling Finished	November 2, 1993				
Logged by	M. Dittrick				

Purpose/Target: Delineation drilling in West Pit Zone to test lithology, alteration and mineralization to depth.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.23	8.23		OVB							
8.23	10.36	2.13	941064	CAP	WRGD	3	5120	0.02	0.052	0.10	
10.36	12.80	2.44	941065	CAP	WRGD	3	4340	0.02	0.067	0.10	
12.80	15.24	2.44	941066	CAP	WRGD	3	4360	0.01	0.105	0.07	
15.24	18.29	3.05	941067	CAP	WRGD	3	6520	0.02	0.038	0.17	
18.29	21.34	3.05	941068	CAP	WRGD	3	8740	0.03	0.125	0.10	
21.34	24.38	3.04	941069	CAP	WRGD	3	11500	0.03	0.100	0.17	
24.38	28.04	3.66	941070	CAP	WRGD	3	11420	0.02	0.089	0.10	
28.04	31.09	3.05	941071	CAP	WRGD	3	9040	0.02	0.084	0.17	
31.09	33.53	2.44	941072	CAP	WRGD	3	9760	0.02	0.115	0.14	
33.53	36.58	3.05	941073	CAP	WRGD	3	9780	0.02	0.343	0.17	
36.58	38.71	2.13	941074	CAP	WRGD	3	8860	0.09	0.225	0.10	
38.71	42.67	3.96	941075	CAP	WRGD	3	6260	0.10	0.125	0.10	
42.67	45.72	3.05	941076	CAP	WRGD	3	6780	0.08	0.112	0.21	
45.72	48.31	2.59	941077	CAP	WRGD	3	10000	0.16	0.119	0.17	
48.31	51.82	3.51	941078	SUS	WRGD	3/7	8760	0.34	0.087	0.21	
51.82	54.56	2.74	941079	SUS	WRGD	3/7	7660	0.38	0.052	0.24	
54.56	57.61	3.05	941080	SUS	WRGD	3/7	8020	0.15	0.082	0.14	
57.61	60.96	3.35	941081	SUS	WRGD	3/7	10420	0.31	0.054	0.27	
60.96	63.40	2.44	941082	SUS	WRGD	3/7	8580	0.26	0.035	0.24	
63.40	65.23	1.83	941083	SUS	WRGD	3/7	5140	0.32	0.178	0.14	
65.23	67.97	2.74	941084	SUS	WRGD	3/7	8360	0.49	0.054	0.24	
67.97	70.10	2.13	941085	SUS	WRGD	3/7	6940	0.37	0.077	0.17	
70.10	73.46	3.36	941086	SUS	WRGD	3/5	11620	0.45	0.116	0.21	
73.46	75.59	2.13	941087	SUS	WRGD	3/5	6880	0.34	0.115	0.10	
75.59	77.72	2.13	941088	SUS	WRGD	3/4	8720	0.26	0.040	0.17	
77.72	80.16	2.44	941089	SUS	WRGD	3/5	7940	0.14	0.057	0.07	
80.16	82.30	2.14	941090	SUS	WRGD	3/5/7	6700	0.29	0.085	0.17	
82.30	85.04	2.74	941091	SUS	WRGD	3/5/7	8380	0.47	0.036	0.31	
85.04	87.48	2.44	941092	SUS	WRGD	3/5/7	5900	0.31	0.070	0.24	
87.48	91.44	3.96	941093	SUS	WRGD	3/5/7	9220	0.20	0.044	0.14	
91.44	94.49	3.05	941094	SUS	WRGD	5/7	10860	0.24	0.071	0.17	
94.49	97.54	3.05	941095	SUS	WRGD	5/7	12000	0.18	0.147	0.10	
97.54	100.28	2.74	941096	SUS	WRGD	5/7	9980	0.36	0.054	0.34	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
100.28	103.63	3.35	941097	SUS	WRGD	5/7	12660	0.24	0.028	0.21	
103.63	106.68	3.05	941098	SUS	WRGD	5/7	12380	0.23	0.041	0.17	
106.68	109.42	2.74	941099	HYP	WRGD	5/7	10440	0.26	0.079	0.14	
109.42	112.47	3.05	941100	HYP	WRGD	5/7	13440	0.22	0.055	0.17	
112.47	115.52	3.05	941101	HYP	WRGD	5/7	12580	0.18	0.068	0.14	
115.52	118.57	3.05	941102	HYP	WRGD	5/7	12900	0.23	0.036	0.24	
118.57	121.77	3.20	941103	HYP	WRGD	7/5	13300	0.19	0.049	0.21	
121.77	124.81	3.04	941104	HYP	WRGD	7/5	12940	0.13	0.121	0.07	
124.81	128.02	3.21	941105	HYP	WRGD	7/5	12760	0.08	0.083	0.03	
128.02	131.06	3.04	941106	HYP	WRGD	7/5	13560	0.27	0.060	0.21	
131.06	134.11	3.05	941107	HYP	WRGD	7/5	13120	0.13	0.095	0.10	
134.11	137.16	3.05	941108	HYP	WRGD	7/5	12500	0.11	0.057	0.10	
137.16	140.21	3.05	941109	HYP	WRGD	7/5	12600	0.12	0.055	0.10	
140.21	143.26	3.05	941110	HYP	WRGD	7/5	12980	0.20	0.038	0.14	
143.26	146.30	3.04	941111	HYP	WRGD	7	12440	0.12	0.060	0.14	
146.30	149.35	3.05	941112	HYP	WRGD	7/5	13840	0.17	0.244	0.17	
149.35	152.40	3.05	941113	HYP	WRGD	7	13020	0.15	0.058	0.14	
152.40	155.45	3.05	941114	HYP	WRGD	7	13080	0.16	0.149	0.14	
155.45	158.49	3.04	941115	HYP	WRGD	7	12480	0.12	0.067	0.10	
158.49	161.54	3.05	941116	HYP	WRGD	7	13360	0.13	0.039	0.10	
161.54	164.59	3.05	941117	HYP	WRGD	7	13800	0.10	0.052	0.21	
164.59	167.64	3.05	941118	HYP	WRGD	7	12880	0.11	0.051	0.07	
167.64	170.69	3.05	941119	HYP	WRGD	7	12900	0.12	0.082	0.03	
170.69	173.74	3.05	941120	HYP	WRGD	7	13480	0.12	0.062	0.10	
173.74	176.78	3.04	941121	HYP	WRGD	7	14200	0.15	0.155	0.10	
176.78	179.83	3.05	941122	HYP	WRGD	7	13040	0.13	0.113	0.10	
179.83	182.88	3.05	941123	HYP	WRGD	7	13300	0.15	0.072	0.14	
182.88	185.93	3.05	941124	HYP	WRGD	7	13600	0.13	0.240	0.10	
185.93	188.98	3.05	941125	HYP	WRGD	7	14200	0.11	0.055	0.03	
188.98	192.02	3.04	941126	HYP	WRGD	7	13440	0.13	0.060	0.07	
192.02	195.07	3.05	941127	HYP	WRGD	7	14040	0.15	0.041	0.07	
195.07	198.12	3.05	941128	HYP	PPDP	4/7	13660	0.08	0.008	0.07	
198.12	201.17	3.05	941129	HYP	PPDP	4/7	12140	0.05	0.001	<0.03	
201.17	204.22	3.05	941130	HYP	WRGD	6/7	12720	0.11	0.045	0.17	
204.22	207.26	3.04	941131	HYP	WRGD	6/7	12860	0.10	0.032	<0.03	
207.26	210.31	3.05	941132	HYP	WRGD	6/7	13520	0.09	0.093	<0.03	
210.31	213.36	3.05	941133	HYP	WRGD	6/7	12920	0.11	0.035	<0.03	
213.36	216.41	3.05	941134	HYP	WRGD	6/7	14000	0.11	0.058	0.07	
216.41	219.46	3.05	941135	HYP	WRGD	6/7	13420	0.07	0.071	<0.03	
219.46	222.50	3.04	941136	HYP	WRGD	6/7	12700	0.06	0.064	0.48	
222.50	225.55	3.05	941137	HYP	WRGD	6/7	11920	0.08	0.098	0.31	
225.55	228.60	3.05	941138	HYP	WRGD	6/7	12020	0.07	0.022	0.07	
228.60	231.65	3.05	941139	HYP	WRGD	6/7	11400	0.07	0.154	0.10	
231.65	234.70	3.05	941140	HYP	WRGD	6/7	12940	0.08	0.044	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-241

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
234.70	237.74	3.04	941141	HYP	WRGD	6/7	13300	0.08	0.052	<0.03	
237.74	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-242	Total Depth	271.62 m		
Northing	255,202.27	Casing Depth	36.58 m		Left Out
Easting	110,099.92	Survey Data	Azimuth	Dip	Instrument
Elevation	1203.57 m	Collar			
Core Size	HQ	154.53 m	085°	-89.4°	Sperry Sun
Drilling Started	October 29, 1993	271.58 m	105°	-88.8°	Sperry Sun
Drilling Finished	November 3, 1993				
Logged by	W.D. Mann				

Purpose/Target: Delineation, West Pit area, Canadian Creek Camp.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	20.42	20.42		OVB							
20.42	32.61	12.19	588270	CAP	WRDR	3	1640	0.18	0.008	0.14	
32.61	35.66	3.05	588271	SUS	WRDR	3	1960	0.10	0.005	0.17	
35.66	38.71	3.05	588272	SUS	WRDR	3	3520	0.54	0.003	0.17	
38.71	41.76	3.05	588273	SUS	WRDR	3	2380	0.79	0.005	0.27	
41.76	44.81	3.05	588274	SUS	WRDR	3	7520	0.39	0.005	0.10	
44.81	47.85	3.04	588275	SUS	WRDR	3	6800	0.23	0.005	0.14	
47.85	50.60	2.75	588276	SUS	WRDR	3	4300	0.31	0.004	0.03	
50.60	54.86	4.26	588277	SUS	WRDR	3	1660	0.59	0.007	0.21	
54.86	57.00	2.14	588278	SUS	WRDR	3	2220	0.75	0.006	0.21	
57.00	60.05	3.05	588279	SUS	QMIE	7/5	3980	0.18	0.009	0.14	
60.05	63.09	3.04	588280	SUS	QMIE	7/5	5860	0.18	0.006	0.07	
63.09	66.14	3.05	588281	SUS	QMIE	7/5	7760	0.17	0.009	0.14	
66.14	69.19	3.05	588282	SUS	QMIE	7/5	9420	0.20	0.007	0.10	
69.19	72.24	3.05	588283	SUS	QMIE	7/5	4660	0.27	0.009	0.07	
72.24	75.29	3.05	588284	SUS	WRDR	7/5	7760	0.26	0.007	0.14	
75.29	76.81	1.52	588285	SUS	WRDR	7/5	5260	0.42	0.004	0.14	
76.81	79.86	3.05	588286	SUS	QMIE	7/5	8740	0.18	0.015	0.14	
79.86	82.75	2.89	588287	SUS	WRGD	7/5	10180	0.17	0.013	0.17	
82.75	86.26	3.51	588288	SUS	WRGD	7	9340	0.16	0.032	0.14	
86.26	88.39	2.13	588289	HYP	WRDR	7	8480	0.14	0.020	0.10	
88.39	90.53	2.14	588290	HYP	WRDR	7	6940	0.09	0.009	0.07	
90.53	93.57	3.04	588291	HYP	WRDR	7	8660	0.18	0.043	0.21	
93.57	96.62	3.05	588292	HYP	WRDR	7	10500	0.16	0.019	0.24	
96.62	99.67	3.05	588293	HYP	WRDR	7	11420	0.12	0.014	0.14	
99.67	102.72	3.05	588294	HYP	WRGD	7	8640	0.16	0.009	0.21	
102.72	105.16	2.44	588295	HYP	WRGD	7	8200	0.21	0.035	0.27	
105.16	108.81	3.65	588296	HYP	WRDR	7	14300	0.14	0.020	0.17	
108.81	110.64	1.83	588297	HYP	WRDR	7	5480	0.18	0.012	0.21	
110.64	113.69	3.05	588298	HYP	WRDR	7	11780	0.11	0.016	0.10	
113.69	114.91	1.22	588299	HYP	WRDR	7	4280	0.15	0.017	0.24	
114.91	117.96	3.05	588300	HYP	WRDR	7	11720	0.11	0.010	0.10	
117.96	121.01	3.05	588301	HYP	WRDR	7	12040	0.14	0.032	0.10	
121.01	124.05	3.04	588302	HYP	WRDR	7	11640	0.20	0.011	0.24	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
124.05	127.10	3.05	588303	HYP	MBFH	7	12000	0.18	0.042	0.21	
127.10	130.15	3.05	588304	HYP	WRDR	7	13300	0.13	0.012	0.10	
130.15	133.20	3.05	588305	HYP	WRDR	7	12620	0.12	0.008	0.10	
133.20	136.25	3.05	588306	HYP	WRDR	7	12640	0.12	0.006	0.10	
136.25	139.29	3.04	588307	HYP	WRGD	7	11840	0.14	0.016	0.14	
139.29	142.34	3.05	588308	HYP	WRGD	7	13080	0.11	0.010	0.10	
142.34	145.39	3.05	588309	HYP	WRDR	7	13260	0.10	0.010	0.14	
145.39	148.44	3.05	588310	HYP	WRDR	7	13180	0.11	0.012	0.10	
148.44	151.49	3.05	588311	HYP	WRDR	7	14180	0.11	0.014	0.10	
151.49	154.53	3.04	588312	HYP	WRDR	7	13180	0.16	0.007	0.21	
154.53	157.58	3.05	588313	HYP	WRDR	7	14140	0.15	0.031	0.17	
157.58	160.63	3.05	588314	HYP	WRDR	7	13160	0.14	0.016	0.10	
160.63	163.68	3.05	588315	HYP	WRDR	7	13940	0.13	0.007	0.17	
163.68	166.73	3.05	588316	HYP	WRDR	7	12980	0.15	0.009	0.10	
166.73	169.77	3.04	588317	HYP	WRDR	7	12720	0.20	0.013	0.27	
169.77	172.82	3.05	588318	HYP	WRDR	7	12140	0.10	0.011	0.14	
172.82	175.87	3.05	588319	HYP	WRDR	7	12440	0.12	0.030	0.10	
175.87	178.92	3.05	588320	HYP	WRDR	7	12020	0.10	0.011	0.10	
178.92	181.97	3.05	588321	HYP	WRDR	7	12700	0.17	0.008	0.21	
181.97	185.01	3.04	588322	HYP	WRDR	7	12560	0.53	0.042	0.55	
185.01	188.06	3.05	588323	HYP	WRDR	7	12140	0.38	0.022	0.41	
188.06	191.11	3.05	588324	HYP	WRDR	7	12980	0.13	0.020	0.17	
191.11	194.16	3.05	588325	HYP	WRDR	7	13240	0.14	0.009	0.17	
194.16	197.21	3.05	588326	HYP	QMIE	7	12560	0.16	0.020	0.10	
197.21	200.25	3.04	588327	HYP	QMIE	7	12200	0.12	0.015	0.10	
200.25	203.30	3.05	588328	HYP	QMIE	7	12420	0.16	0.014	0.17	
203.30	206.35	3.05	588329	HYP	QMIE	7	13220	0.10	0.014	0.10	
206.35	209.40	3.05	588330	HYP	QMIE	7	12700	0.17	0.009	0.14	
209.40	212.45	3.05	588331	HYP	WRGD	7	12800	0.12	0.020	0.14	
212.45	215.49	3.04	588332	HYP	WRGD	7	12860	0.11	0.014	0.14	
215.49	218.54	3.05	588333	HYP	WRGD	7	12460	0.12	0.027	0.14	
218.54	221.59	3.05	588334	HYP	WRGD	7	12100	0.14	0.021	0.14	
221.59	224.64	3.05	588335	HYP	WRGD	7	12260	0.16	0.030	0.21	
224.64	227.69	3.05	588336	HYP	WRGD	7	12700	0.10	0.025	0.10	
227.69	230.73	3.04	588337	HYP	WRGD	7	12520	0.21	0.019	0.24	
230.73	233.78	3.05	588338	HYP	WRGD	7	12940	0.17	0.040	0.24	
233.78	236.83	3.05	588339	HYP	WRGD	7	12500	0.15	0.013	0.17	
236.83	239.88	3.05	588340	HYP	QMIE	7/5	12740	0.11	0.023	0.14	
239.88	242.93	3.05	588341	HYP	QMIE	7/5	11600	0.08	0.015	0.07	
242.93	245.97	3.04	588342	HYP	QMIE	7/5	12960	0.11	0.009	0.10	
245.97	249.02	3.05	588343	HYP	WRGD	7	13320	0.14	0.032	0.10	
249.02	252.07	3.05	588344	HYP	WRGD	7	12840	0.10	0.034	0.10	
252.07	255.12	3.05	588345	HYP	WRGD	7	12080	0.11	0.016	0.17	
255.12	258.17	3.05	588346	HYP	WRGD	7	11020	0.11	0.023	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
258.17	261.21	3.04	588347	HYP	WRGD	7	12920	0.14	0.037	0.14	
261.21	264.26	3.05	588348	HYP	WRDR	7	13020	0.16	0.046	0.14	
264.26	267.31	3.05	588349	HYP	WRDR	7	13000	0.09	0.018	0.07	
267.31	270.36	3.05	588350	HYP	WRDR	7	13860	0.16	0.012	0.24	
270.36	271.62	1.26	588351	HYP	WRDR	7	5440	0.05	0.015	0.03	
271.62	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-243	Total Depth	349.61 m		
Northing	255,099.81	Casing Depth	6.74 m		Left Out
Easting	110,499.78	Survey Data	Azimuth	Dip	Instrument
Elevation	1242.36 m	Collar		-90.0°	
Core Size	HW	157.6 m	280°	-89.1°	Sperry Sun
Drilling Started	October 29, 1993				
Drilling Finished	November 4, 1993				
Logged by	S. de Wit				

Purpose/Target: Supergene mineralization in West Pit.

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.71	6.71		OVB							
6.71	10.06	3.35	567233	CAP	IXAC	3	8480	0.05	0.021	0.24	
10.06	12.19	2.13	567234	CAP	IXAC	3	6360	0.06	0.015	0.14	
12.19	14.33	2.14	567235	CAP	IXAC	3	2400	0.20	0.017	0.31	
14.33	17.37	3.04	567236	CAP	IXAC	3/7	8520	0.12	0.023	0.21	
17.37	20.42	3.05	567237	CAP	IXAC	3/7	9700	0.13	0.025	0.17	
20.42	23.47	3.05	567238	CAP	IXAC	3/7	10300	0.11	0.025	0.14	
23.47	26.52	3.05	567239	CAP	IXAC	3/7	10800	0.08	0.011	0.10	
26.52	29.57	3.05	567240	CAP	IXAC	3/7	11060	0.02	0.018	0.14	
29.57	32.61	3.04	567241	CAP	QMFX	7/5	11380	0.02	0.022	0.17	
32.61	35.05	2.44	567242	CAP	QMFX	7/5	7980	0.03	0.016	0.21	
35.05	38.10	3.05	567243	CAP	QMFX	7/5	11240	0.03	0.011	0.14	
38.10	41.15	3.05	567244	CAP	QMFX	7/5	11040	0.04	0.015	0.14	
41.15	44.20	3.05	567245	CAP	QMFX	7/5	11540	0.03	0.021	0.14	
44.20	47.24	3.04	567246	SOX	QMFX	7/5	12960	0.02	0.023	0.10	
47.24	49.68	2.44	567247	SOX	QMFX	7/5	9740	0.04	0.020	<0.03	
49.68	51.82	2.14	567248	SOX	WRGD	7/5	7680	0.02	0.012	<0.03	
51.82	54.86	3.04	567249	SOX	WRGD	7/5	12300	0.06	0.016	0.07	
54.86	57.91	3.05	567250	SOX	WRGD	7/5	12100	0.14	0.014	<0.03	
57.91	60.96	3.05	567251	SUS	WRGD	7/5	12620	0.13	0.012	<0.03	
60.96	62.79	1.83	567252	SUS	WRGD	7/5	7160	0.12	0.018	<0.03	
62.79	64.92	2.13	567253	SUS	WRGD	7/5	8200	0.28	0.016	0.07	
64.92	67.36	2.44	567254	SUS	WRGD	7/5	8180	0.33	0.026	0.07	
67.36	69.80	2.44	567255	SUS	WRGD	7/5	8100	0.27	0.025	0.10	
69.80	72.85	3.05	567256	SUS	WRGD	7/5	11600	0.20	0.022	0.07	
72.85	75.90	3.05	567257	SUS	WRGD	7/5	7900	0.22	0.014	0.07	
75.90	78.03	2.13	567258	SUS	WRGD	7/5	7920	0.20	0.012	0.03	
78.03	81.08	3.05	567259	SUS	WRGD	7/5	12300	0.19	0.010	<0.03	
81.08	84.31	3.23	567260	SUS	WRGD	7/5	12300	0.13	0.021	0.10	
84.31	87.48	3.17	567261	SUS	WRGD	7/5	11380	0.20	0.028	0.14	
87.48	90.53	3.05	567262	SUS	WRGD	7/5	11400	0.20	0.012	<0.03	
90.53	92.96	2.43	567263	SUS	WRGD	7/5	9180	0.15	0.014	<0.03	
92.96	96.16	3.20	567264	SUS	WRGD	7/5	12200	0.17	0.026	0.10	
96.16	99.36	3.20	567265	SUS	WRGD	7/5	11900	0.16	0.010	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results			
								Cu%	MoS2%	Au (g/t)	Ag (g/t)
99.36	102.41	3.05	567266	SUS	WRGD	7/5	11600	0.19	0.021	0.07	
102.41	105.46	3.05	567267	SUS	WRGD	7/5	11560	0.13	0.015	<0.03	
105.46	108.51	3.05	567268	SUS	WRGD	7/5	11340	0.11	0.019	0.10	
108.51	111.56	3.05	567269	SUS	WRGD	7/5	11920	0.10	0.009	0.14	
111.56	114.60	3.04	567332	SUS	WRGD	7/5	11860	0.08	0.014	<0.03	
114.60	117.96	3.36	567270	SUS	WRGD	7/5	13000	0.09	0.031	0.10	
117.96	121.01	3.05	567271	SUS	WRGD	7/5	12200	0.26	0.066	0.69	
121.01	124.05	3.04	567272	SUS	WRGD	7/5	11800	0.15	0.062	0.24	
124.05	127.10	3.05	567273	SUS	WRGD	7/5	12380	0.06	0.012	0.10	
127.10	130.15	3.05	567274	SUS	WRGD	7/2	11560	0.09	0.010	0.24	
130.15	133.20	3.05	567275	SUS	WRGD	7/2	12640	0.06	0.014	0.07	
133.20	136.25	3.05	567276	SUS	WRGD	7	12060	0.07	0.029	0.10	
136.25	139.29	3.04	567277	SUS	WRDR	7	12920	0.10	0.013	0.17	
139.29	142.34	3.05	567278	SUS	WRDR	7	12640	0.12	0.034	0.14	
142.34	145.39	3.05	567279	SUS	WRDR	7	12000	0.08	0.010	0.03	
145.39	148.44	3.05	567280	SUS	WRDR	7/5	12220	0.10	0.014	0.10	
148.44	151.49	3.05	567281	SUS	WRDR	7/5	12520	0.11	0.009	0.07	
151.49	154.53	3.04	567282	SUS	WRDR	7/5	11200	0.11	0.012	0.10	
154.53	157.58	3.05	567283	SUS	WRDR	7/5	12140	0.12	0.025	0.07	
157.58	160.63	3.05	567284	SUS	WRDR	7/5	12000	0.06	0.005	0.07	
160.63	163.68	3.05	567285	SUS	WRDR	7/5	13260	0.05	0.006	0.07	
163.68	166.73	3.05	567286	SUS	WRDR	7/5	12460	0.06	0.008	0.07	
166.73	169.77	3.04	567287	SUS	WRDR	7/5	10440	0.08	0.008	0.03	
169.77	172.82	3.05	567288	SUS	WRDR	7/5	14080	0.07	0.007	0.07	
172.82	175.87	3.05	567289	SUS	WRGD	7/5	11760	0.13	0.009	0.69	
175.87	178.92	3.05	567290	SUS	WRGD	7/5	11320	0.16	0.010	0.03	
178.92	181.97	3.05	567291	SUS	WRGD	7/5	11540	0.16	0.007	0.10	
181.97	185.01	3.04	567292	SUS	WRGD	7/5	11800	0.14	0.010	0.03	
185.01	188.06	3.05	567293	SUS	WRGD	7/5	11500	0.07	0.008	0.07	
188.06	191.11	3.05	567294	SUS	WRGD	7/5	12000	0.07	0.007	0.07	
191.11	194.16	3.05	567295	SUS	WRGD	7/5	12220	0.08	0.013	0.10	
194.16	197.21	3.05	567296	SUS	WRGD	7/5	11500	0.08	0.015	0.10	
197.21	200.25	3.04	567297	HYP	WRGD	7/5	12200	0.06	0.008	0.07	
200.25	203.30	3.05	567298	HYP	WRGD	7/5	12000	0.11	0.026	0.07	
203.30	206.35	3.05	567299	HYP	WRGD	7/5	11660	0.12	0.014	0.07	
206.35	209.40	3.05	567300	HYP	WRGD	7/5	12560	0.12	0.010	0.10	
209.40	212.45	3.05	567301	HYP	QMFX	5	11440	0.07	0.007	0.03	
212.45	215.49	3.04	567302	HYP	WRGD	5	12000	0.12	0.017	0.07	
215.49	218.54	3.05	567303	HYP	WRGD	5	11860	0.13	0.005	0.14	
218.54	221.59	3.05	567304	HYP	WRGD	5	12141	0.14	0.034	0.14	
221.59	224.64	3.05	567305	HYP	WRGD	5	12300	0.12	0.015	0.10	
224.64	227.69	3.05	567306	HYP	WRGD	5	13000	0.07	0.012	<0.03	
227.69	230.73	3.04	567307	HYP	WRGD	5	11040	0.14	0.019	0.07	
230.73	233.78	3.05	567308	HYP	WRGD	5	10920	0.11	0.015	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

HOLE NO. 93-243

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	567309	HYP	WRGD	5	12160	0.14	0.013	0.03	
236.83	239.88	3.05	567310	HYP	WRGD	5/2	10640	0.08	0.015	<0.03	
239.88	242.93	3.05	567311	HYP	WRGD	5/2	11720	0.13	0.010	0.07	
242.93	245.97	3.04	567312	HYP	WRGD	5/2	11180	0.14	0.006	0.07	
245.97	249.02	3.05	567313	HYP	WRGD	7/5	12060	0.17	0.007	0.07	
249.02	252.07	3.05	567314	HYP	WRGD	7/5	11000	0.06	0.004	0.03	
252.07	255.12	3.05	567315	HYP	WRGD	7/5	10900	0.08	0.006	0.03	
255.12	257.56	2.44	567316	HYP	WRGD	7/5	8300	0.03	0.004	<0.03	
257.56	260.60	3.04	567317	HYP	WRGD	7/5	10700	0.03	0.005	<0.03	
260.60	264.26	3.66	567318	HYP	WRGD	7/5	13780	0.04	0.003	<0.03	
264.26	267.31	3.05	567319	HYP	WRGD	7/5	12000	0.08	0.008	<0.03	
267.31	270.36	3.05	567320	HYP	WRGD	7/5	10920	0.09	0.013	<0.03	
270.36	273.41	3.05	567321	HYP	WRGD	7/5	11420	0.07	0.009	<0.03	
273.41	276.45	3.04	567322	HYP	WRGD	7/5	12020	0.09	0.011	<0.03	
276.45	279.50	3.05	567323	HYP	WRGD	7/5	11240	0.04	0.005	<0.03	
279.50	282.55	3.05	567324	HYP	WRGD	7/5	12300	0.07	0.005	<0.03	
282.55	285.60	3.05	567325	HYP	WRGD	7/5	12120	0.07	0.005	<0.03	
285.60	288.64	3.04	567326	HYP	WRGD	7/5	12920	0.07	0.010	<0.03	
288.64	291.69	3.05	567327	HYP	WRGD	7/5	12420	0.03	0.005	<0.03	
291.69	294.74	3.05	567328	HYP	WRGD	7/5	12800	0.04	0.004	<0.03	
294.74	297.79	3.05	567329	HYP	WRGD	7/5	12940	0.05	0.005	<0.03	
297.79	300.84	3.05	567330	HYP	WRGD	7/5	13520	0.05	0.010	0.15	
300.84	303.89	3.05	567331	HYP	WRGD	7/5	12760	0.04	0.006	<0.03	
303.89	306.93	3.04	567333	HYP	WRGD	7/5	12080	0.08	0.008	<0.03	
306.93	309.98	3.05	567334	HYP	WRGD	7/5	11460	0.05	0.017	<0.03	
309.98	313.03	3.05	567335	HYP	WRGD	7/5	11600	0.07	0.013	0.03	
313.03	316.08	3.05	567336	HYP	WRGD	7	13200	0.04	0.006	0.07	
316.08	319.12	3.04	567337	HYP	WRGD	7	11500	0.05	0.004	<0.03	
319.12	322.17	3.05	567338	HYP	WRGD	7	13240	0.04	0.005	0.07	
322.17	325.22	3.05	567339	HYP	WRGD	7	12000	0.03	0.006	<0.03	
325.22	328.27	3.05	567340	HYP	WRGD	7	13100	0.03	0.004	<0.03	
328.27	331.32	3.05	567341	HYP	WRGD	7	12320	0.03	0.007	<0.03	
331.32	334.37	3.05	567342	HYP	WRGD	7/5	11620	0.07	0.015	0.07	
334.37	337.41	3.04	567343	HYP	WRGD	7/5	13020	0.03	0.004	<0.03	
337.41	340.46	3.05	567344	HYP	WRGD	7/5	12020	0.05	0.007	0.10	
340.46	343.51	3.05	567345	HYP	WRGD	7/5	12760	0.04	0.007	<0.03	
343.51	346.56	3.05	567346	HYP	WRGD	7/5	12540	0.14	0.019	0.14	
346.56	349.61	3.05	567347	HYP	WRGD	7/5	10880	0.07	0.006	0.03	
349.61	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-244	Total Depth	236.83 m		
Northing	255,399.63	Casing Depth	25.30 m		Left Out
Easting	110,299.41	Survey Data	Azimuth	Dip	Instrument
Elevation	1222.67 m	Collar		-90.0°	Brunton Compass
Core Size	HQ	152.4 m	002°	-88.5°	Sperry Sun
Drilling Started	October 30, 1993				
Drilling Finished	November 4, 1993				
Logged by	J. Weber				

Purpose/Target: To test area between Holes 93-166 and 93-167.

Comments: This hole intersected diorite, heterolithic intrusion breccia, quartz monzonite and granodiorite.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	14.63	14.63		OVB							
14.63	17.37	2.74	941622	CAP	WRDR	5	5600	0.18	0.007	0.27	
17.37	20.42	3.05	941623	CAP	WRDR	5	8360	0.16	0.007	0.21	
20.42	23.47	3.05	941624	SOX	WRDR	5	6840	0.13	0.009	0.21	
23.47	26.52	3.05	941625	SOX	WRDR	5	9020	0.21	0.005	0.10	
26.52	28.96	2.44	941626	SOX	WRDR	5	7470	0.18	0.006	0.14	
28.96	32.31	3.35	941627	SOX	WRDR	5	10860	0.12	0.004	0.17	
32.31	35.36	3.05	941628	SOX	WRDR	5	10020	0.13	0.004	0.10	
35.36	38.40	3.04	941629	SOX	WRDR	5	10180	0.14	0.007	0.10	
38.40	41.76	3.36	941630	SUS	WRDR	7	10280	0.22	0.006	0.14	
41.76	44.81	3.05	941631	SUS	LTDA	7	10620	0.34	0.005	0.14	
44.81	47.24	2.43	941632	SUS	WRDR	7	8960	0.32	0.011	0.14	
47.24	49.38	2.14	941633	SUS	WRDR	7	6740	0.23	0.003	0.10	
49.38	52.12	2.74	941634	SUS	WRDR	7	13520	0.25	0.007	0.10	
52.12	55.78	3.66	941635	SUS	QMIE	7	10560	0.20	0.013	0.10	
55.78	59.13	3.35	941636	SUS	WRDR	7	10540	0.18	0.012	0.10	
59.13	62.33	3.20	941637	SUS	WRDR	7	12860	0.22	0.010	0.14	
62.33	65.68	3.35	941638	SUS	QMIE	7	11780	0.20	0.009	0.14	
65.68	68.58	2.90	941639	SUS	WRDR	7	11720	0.22	0.015	0.27	
68.58	71.63	3.05	941640	SUS	WRDR	7/5	9240	0.17	0.038	0.10	
71.63	74.07	2.44	941641	SUS	WRDR	7/5	9580	0.21	0.009	0.14	
74.07	77.11	3.04	941642	SUS	WRDR	7/5	12260	0.14	0.016	0.14	
77.11	80.16	3.05	941643	SUS	QMIE	7/5	10200	0.16	0.026	0.17	
80.16	84.12	3.96	941644	SUS	QMIE	3	13960	0.20	0.021	0.14	
84.12	86.26	2.14	941645	SUS	QMIE	3	9160	0.17	0.024	0.17	
86.26	89.31	3.05	941646	SUS	WRDR	3/7	11840	0.16	0.017	0.21	
89.31	92.96	3.65	941647	SUS	WRDR	7	14480	0.14	0.015	0.10	
92.96	96.32	3.36	941648	HYP	WRDR	7/5	13060	0.23	0.009	0.21	
96.32	99.67	3.35	941649	HYP	WRDR	7	14640	0.16	0.012	0.14	
99.67	102.41	2.74	941650	HYP	LTDA	7	11060	0.12	0.004	0.14	
102.41	105.77	3.36	941651	HYP	WRDR	7/5	11700	0.11	0.012	0.10	
105.77	108.51	2.74	941652	HYP	WRDR	7/5	10300	0.10	0.006	0.14	
108.51	111.86	3.35	941653	HYP	WRDR	7/5	11680	0.10	0.014	0.10	
111.86	114.91	3.05	941654	HYP	IXAC	7/5	12640	0.08	0.011	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
114.91	117.96	3.05	941655	HYP	IXAC	7/5	12080	0.12	0.013	0.07	
117.96	121.01	3.05	941656	HYP	IXAC	7/1/3	12180	0.09	0.010	0.10	
121.01	124.05	3.04	941657	HYP	IXAC	7/5	12720	0.13	0.014	0.10	
124.05	127.10	3.05	941658	HYP	IXAC	7/5	12120	0.11	0.015	0.14	
127.10	130.15	3.05	941659	HYP	IXAC	7/5	9820	0.09	0.012	0.10	
130.15	132.89	2.74	941660	HYP	IXAC	7/5	9820	0.20	0.018	0.24	
132.89	136.25	3.36	941661	HYP	IXAC	7/5	13980	0.20	0.031	0.24	
136.25	139.29	3.04	941662	HYP	IXAC	7/5	12560	0.12	0.006	0.14	
139.29	142.34	3.05	941663	HYP	IXAC	7/5	12760	0.11	0.013	0.10	
142.34	145.39	3.05	941664	HYP	IXAC	7/5	11580	0.06	0.114	0.07	
145.39	148.44	3.05	941665	HYP	IXAC	7/5	12700	0.30	0.008	0.27	
148.44	150.88	2.44	941666	HYP	IXAC	7/5	8600	0.08	0.029	0.14	
150.88	153.01	2.13	941667	HYP	IXAC	7/1/3	8560	0.08	0.034	0.07	
153.01	156.06	3.05	941668	HYP	IXAC	7/1/3	11740	0.12	0.013	0.14	
156.06	157.58	1.52	941669	HYP	IXAC	7/5	5700	0.08	0.024	0.10	
157.58	160.63	3.05	941670	HYP	IXAC	7/5	11140	0.16	0.039	0.21	
160.63	163.68	3.05	941671	HYP	IXAC	3/7	15600	0.13	0.046	0.14	
163.68	166.11	2.43	941672	HYP	IXAC	3	11080	0.26	0.187	0.24	
166.11	169.16	3.05	941673	HYP	IXAC	3	13560	0.27	0.074	0.24	
169.16	172.82	3.66	941674	HYP	IXAC	7/3	13320	0.20	0.047	0.24	
172.82	174.04	1.22	941675	HYP	IXAC	7/5	5840	0.24	0.007	0.34	
174.04	176.78	2.74	941676	HYP	IXAC	7/5	11360	0.21	0.062	0.27	
176.78	178.92	2.14	941677	HYP	IXAC	7/5	7480	0.21	0.046	0.24	
178.92	181.97	3.05	941678	HYP	IXAC	7/5	14920	0.09	0.068	0.07	
181.97	185.01	3.04	941679	HYP	IXAC	7/5	12740	0.07	0.012	0.10	
185.01	188.06	3.05	941680	HYP	IXAC	7/5	13380	0.09	0.006	0.10	
188.06	191.11	3.05	941681	HYP	IXAC	7/5	11960	0.08	0.071	0.14	
191.11	194.16	3.05	941682	HYP	IXAC	7/5	10760	0.09	0.043	0.10	
194.16	197.21	3.05	941683	HYP	IXAC	7/1/5	10620	0.10	0.032	0.10	
197.21	200.25	3.04	941684	HYP	IXAC	7/2	12340	0.07	0.024	0.14	
200.25	203.30	3.05	941685	HYP	IXAC	2/7	13460	0.18	0.024	0.14	
203.30	206.35	3.05	941686	HYP	IXAC	7/5/2	13040	0.12	0.015	0.10	
206.35	209.40	3.05	941687	HYP	IXAC	7/5	12080	0.09	0.019	0.07	
209.40	212.45	3.05	941688	HYP	QMFX	7/5	10480	0.09	0.027	0.03	
212.45	215.49	3.04	941689	HYP	QMFX	7/5	11580	0.08	0.096	0.07	
215.49	218.54	3.05	941690	HYP	QMFX	7/5	12300	0.07	0.013	0.07	
218.54	221.59	3.05	941691	HYP	QMFX	7/5	11740	0.08	0.056	0.07	
221.59	224.64	3.05	941692	HYP	QMFX	7/5	11960	0.09	0.075	0.07	
224.64	227.69	3.05	941693	HYP	QMFX	7/5	12460	0.08	0.022	0.07	
227.69	230.73	3.04	941694	HYP	WRGD	7/5	11560	0.08	0.031	0.07	
230.73	233.78	3.05	941695	HYP	WRGD	7/5	12600	0.07	0.024	0.10	
233.78	236.83	3.05	941696	HYP	WRGD	7/5	11540	0.07	0.031	0.10	
236.83	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-245	Total Depth	299.92 m		
Northing	254,900.21	Casing Depth	11.58 m		Left Out
Easting	110,499.44	Survey Data	Azimuth	Dip	Instrument
Elevation	1241.66 m	Collar		-90.0°	
Core Size	HQ	152.4 m	67°	-89.5°	Sperry Sun
Drilling Started	November 1, 1993	299.9 m	131°	-90.0°	Sperry Sun
Drilling Finished	November 6, 1993				
Logged by	C. DeLong/M.P. Phillips/S. de Wit/B. Thurston				

Purpose/Target:

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	6.71	6.71		OVB							
6.71	9.75	3.04	940349	CAP	PPDP	3	5560	0.02	0.016	<0.03	
9.75	11.28	1.53	940350	CAP	MBCH	3	5900	0.03	0.025	<0.03	
11.28	14.33	3.05	940351	CAP	MBCH	3/7	5500	0.03	0.015	<0.03	
14.33	17.37	3.04	940352	CAP	MBCH	3/7	5740	0.04	0.196	0.27	
17.37	20.42	3.05	940353	CAP	MBCH	3/7	7240	0.02	0.064	0.17	
20.42	22.86	2.44	940354	CAP	MBCH	3/7	5220	0.02	0.046	0.10	
22.86	25.30	2.44	940355	CAP	MBCH	3/7	6600	0.03	0.143	0.14	
25.30	29.26	3.96	940356	CAP	MBCH	3	7580	0.03	0.045	0.17	
29.26	32.61	3.35	940357	CAP	MBCW	3	4340	0.02	0.023	0.14	
32.61	35.66	3.05	940358	CAP	MBCW	3/7	6900	0.02	0.016	0.07	
35.66	38.10	2.44	940359	CAP	MBCW	7/3	8040	0.02	0.028	0.17	
38.10	39.93	1.83	940360	CAP	MBCW	7/3	4560	0.03	0.035	0.14	
39.93	42.37	2.44	940361	CAP	MBCW	7/3	7680	0.09	0.036	0.21	
42.37	46.02	3.65	940362	CAP	MBCW	7/3	9280	0.02	0.034	0.14	
46.02	49.07	3.05	940363	CAP	MBCW	7/3	10520	0.15	0.027	0.21	
49.07	52.12	3.05	940364	SUS	MBCW	7/3	10280	0.19	0.038	0.10	
52.12	55.17	3.05	940365	SUS	MBCH	7	11360	0.14	0.021	0.07	
55.17	58.22	3.05	940366	SUS	MBCH	7	10500	0.25	0.041	0.10	
58.22	60.05	1.83	940367	SUS	MBCH	7	5780	0.26	0.036	0.10	
60.05	63.09	3.04	940368	SUS	MBCH	7	10460	0.33	0.026	0.14	
63.09	66.14	3.05	940369	SUS	MBCH	7	9160	0.40	0.047	0.31	
66.14	69.19	3.05	940370	SUS	MBCH	7	10820	0.38	0.060	0.34	
69.19	72.24	3.05	940371	SUS	MBCH	7	10060	0.25	0.029	0.14	
72.24	75.29	3.05	940372	SUS	MBCH	7	10700	0.24	0.038	0.17	
75.29	78.33	3.04	940373	SUS	MBCW	7	10000	0.24	0.026	0.14	
78.33	81.38	3.05	940374	SUS	MBCW	7	10860	0.28	0.019	0.17	
81.38	84.43	3.05	940375	SUS	MBCW	7	10820	0.32	0.015	0.17	
84.43	87.48	3.05	940376	SUS	MBCH	7	10220	0.49	0.014	0.27	
87.48	90.22	2.74	940377	SUS	MBCH	7	8260	0.39	0.013	0.27	
90.22	93.27	3.05	940378	SUS	MBCH	7	10480	0.28	0.015	0.17	
93.27	96.32	3.05	940379	SUS	MBCH	7	9120	0.28	0.030	0.21	
96.32	99.67	3.35	940380	SUS	MBCW	7	11000	0.32	0.015	0.24	
99.67	102.72	3.05	940381	SUS	MBCW	7	10500	0.26	0.016	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
102.72	105.46	2.74	940382	SUS	MBCW	7	8320	0.28	0.016	0.21	
105.46	108.50	3.04	940383	SUS	MBCH	7	8840	0.28	0.026	0.14	
108.50	111.56	3.06	940384	SUS	MBCH	7	10000	0.32	0.024	0.31	
111.56	114.60	3.04	940385	SUS	MBCW	7	10820	0.29	0.026	0.24	
114.60	117.96	3.36	940386	SUS	MBCW	7	10360	0.30	0.049	0.34	
117.96	121.01	3.05	940387	SUS	MBCW	7	11180	0.24	0.098	0.24	
121.01	124.05	3.04	940388	SUS	MBCW	7	9560	0.31	0.045	0.21	
124.05	127.10	3.05	940389	SUS	MBCW	7	10600	0.35	0.043	0.34	
127.10	130.15	3.05	940390	SUS	MBCH	7	10100	0.31	0.034	0.21	
130.15	133.20	3.05	940391	SUS	MBCH	7	10060	0.27	0.032	0.17	
133.20	134.72	1.52	940392	SUS	MBCH	7	4860	0.17	0.024	0.14	
134.72	136.86	2.14	940393	SUS	PPDP	7	7660	0.20	0.022	0.07	
136.86	139.99	3.13	940394	SUS	PPDP	7/2	6320	0.04	0.003	0.07	
139.99	142.34	2.35	940395	HYP	PPDP	7/2	11700	0.06	0.001	0.07	
142.34	145.39	3.05	940396	HYP	PPDP	7	10780	0.04	<0.001	0.14	
145.39	148.44	3.05	940397	HYP	PPDP	7/1	10840	0.01	<0.001	<0.03	
148.44	151.49	3.05	940398	HYP	PPDP	7/1	11000	0.04	0.003	<0.03	
151.49	154.53	3.04	940399	HYP	PPDP	1	12160	0.13	0.006	0.03	
154.53	157.58	3.05	940400	HYP	PPDP	1	10840	0.07	0.019	0.07	
157.58	160.63	3.05	940401	HYP	PPDP	1	12800	0.16	0.012	0.10	
160.63	163.68	3.05	940402	HYP	PPDP	1	11600	0.08	0.020	0.07	
163.68	166.73	3.05	940403	HYP	PPDP	7/1	11140	0.11	0.010	0.07	
166.73	169.77	3.04	940404	HYP	PPDP	7/1	11440	0.13	0.013	0.03	
169.77	172.82	3.05	940405	HYP	PPDP	7/1	11100	0.06	0.006	0.10	
172.82	175.87	3.05	940406	HYP	PPDP	7/1	10860	0.04	0.013	0.07	
175.87	178.92	3.05	940407	HYP	PPDP	7/1	12660	0.05	0.014	0.10	
178.92	181.97	3.05	940408	HYP	PPDP	7/1	12500	0.03	0.008	0.07	
181.97	185.01	3.04	940409	HYP	PPDP	7/1	11680	0.03	0.005	0.07	
185.01	188.06	3.05	940410	HYP	PPDP	7/1	12020	0.04	0.003	0.00	
188.06	191.11	3.05	940411	HYP	PPDP	7/1	12800	0.03	0.002	0.00	
191.11	194.16	3.05	940412	HYP	PPDP	7/1	11100	0.02	0.005	0.07	
194.16	197.21	3.05	940413	HYP	PPDP	7/1	12140	0.02	0.005	<0.03	
197.21	200.25	3.04	940414	HYP	PPDP	7/1	11040	0.03	0.006	<0.03	
200.25	203.30	3.05	940415	HYP	PPDP	7/1	12600	0.02	0.004	<0.03	
203.30	206.35	3.05	940416	HYP	PPDP	7/1	12080	0.02	0.005	<0.03	
206.35	209.40	3.05	940417	HYP	PPDP	7/1	11840	0.01	0.003	<0.03	
209.40	212.45	3.05	940418	HYP	PPDP	7/1	12520	0.02	0.026	<0.03	
212.45	215.49	3.04	940419	HYP	PPDP	7/1	11300	0.07	0.015	0.07	
215.49	218.54	3.05	940420	HYP	PPDP	7/1	12040	0.05	0.005	0.10	
218.54	221.59	3.05	940421	HYP	PPDP	7/1	12220	0.02	0.006	<0.03	
221.59	224.64	3.05	940422	HYP	PPDP	7/1	13300	0.06	0.004	<0.03	
224.64	227.69	3.05	940423	HYP	PPDP	7/1	12040	0.01	0.003	<0.03	
227.69	230.73	3.04	940424	HYP	PPDP	7/1	11000	0.02	0.004	<0.03	
230.73	233.78	3.05	940425	HYP	PPDP	7/1	12300	0.02	0.005	<0.03	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
233.78	236.83	3.05	940426	HYP	PPDP	7/1	13400	0.01	0.003	0.03	
236.83	239.88	3.05	940427	HYP	PPDP	7/1	12840	0.01	0.005	<0.03	
239.88	242.93	3.05	940428	HYP	PPDP	7/1	12280	0.01	0.005	<0.03	
242.93	245.97	3.04	940429	HYP	PPDP	7/1	12300	0.02	0.004	<0.03	
245.97	249.02	3.05	940430	HYP	PPDP	7/1	13000	0.02	0.002	<0.03	
249.02	252.07	3.05	940431	HYP	PPDP	7/1	12860	0.07	0.002	0.07	
252.07	255.12	3.05	940432	HYP	PPDP	7/1	13320	0.02	0.003	<0.03	
255.12	258.17	3.05	940433	HYP	PPDP	7/1	13220	0.03	0.002	<0.03	
258.17	261.21	3.04	940434	HYP	PPDP	7/1	12900	0.02	0.002	<0.03	
261.21	264.26	3.05	940435	HYP	PPDP	7/1	12380	0.03	0.001	<0.03	
264.26	267.31	3.05	940436	HYP	PPDP	7/1	12440	0.03	0.001	<0.03	
267.31	270.36	3.05	940437	HYP	PPDP	7/1	11900	0.02	0.001	<0.03	
270.36	273.41	3.05	940438	HYP	PPDP	7/1	12000	0.01	0.003	<0.03	
273.41	276.45	3.04	940439	HYP	PPDP	7/1	11480	0.01	0.011	<0.03	
276.45	279.50	3.05	940440	HYP	PPDP	7/1	12300	0.02	0.002	<0.03	
279.50	282.55	3.05	940441	HYP	PPDP	7/1	11580	0.04	0.003	<0.03	
282.55	285.60	3.05	940442	HYP	PPDP	7/1	13360	0.02	0.001	<0.03	
285.60	288.65	3.05	940443	HYP	PPDP	7/1	12360	0.02	0.006	<0.03	
288.65	291.69	3.04	940444	HYP	PPDP	7/1	12720	0.01	0.005	<0.03	
291.69	294.74	3.05	940445	HYP	PPDP	7/1	13120	0.01	0.003	<0.03	
294.74	297.79	3.05	940446	HYP	PPDP	7/1	13020	0.02	0.004	0.03	
297.79	299.92	2.13	940447	HYP	PPDP	7/1	9480	0.02	0.012	<0.03	
299.92	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-246	Total Depth	234.70 m		
Northing	254,900.17	Casing Depth	20.1 m		Left Out
Easting	110,100.38	Survey Data	Azimuth	Dip	Instrument
Elevation	1232.02 m	Collar		-90.0°	Brunton Compass
Core Size	HQ	214.9 m	030°	-89.5°	Sperry Sun
Drilling Started	November 1, 1993				
Drilling Finished	November 6, 1993				
Logged by	M.P. Phillips				

Purpose/Target: To define limits of copper mineralization in the Patton Gulch area.

Comments: The drill hole cut weak oxide, supergene sulphide and hypogene copper mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	5.18	5.18		OVB							
5.18	7.62	2.44	941142	CAP	WRGD	5/3	7180	0.02	0.108	0.07	
7.62	10.67	3.05	941143	CAP	WRGD	5/3	10060	0.02	0.117	0.07	
10.67	13.72	3.05	941144	CAP	WRGD	5/3	8420	0.01	0.062	0.10	
13.72	14.63	0.91	941145	SOX	WRGD	3	2940	0.01	0.068	0.07	
14.63	17.68	3.05	941146	SOX	WRGD	3	10900	0.01	0.038	0.14	
17.68	20.12	2.44	941147	SOX	WRGD	3	6800	0.01	0.104	0.14	
20.12	21.34	1.22	941148	SOX	WRGD	3/5	5300	0.02	0.124	0.10	
21.34	23.47	2.13	941149	SOX	WRGD	3/5	6280	0.02	0.082	0.10	
23.47	24.38	0.91	941150	SOX	WRGD	3	5840	0.02	0.050	0.21	
24.38	27.43	3.05	941151	SOX	WRGD	3	12960	0.01	0.033	0.10	
27.43	29.57	2.14	941152	SOX	WRGD	3	7840	0.02	0.046	0.14	
29.57	31.39	1.82	941153	SOX	WRGD	3	5440	0.02	0.119	0.17	
31.39	33.53	2.14	941154	SOX	WRGD	3	9300	0.01	0.068	0.10	
33.53	36.58	3.05	941155	SOX	WRGD	3/7	11140	0.02	0.069	0.17	
36.58	39.62	3.04	941156	SOX	WRGD	3/7	10980	0.03	0.075	0.24	
39.62	42.67	3.05	941157	TRN	WRDR	3/7	11300	0.04	0.057	0.21	
42.67	45.11	2.44	941158	TRN	WRDR	3/7	6840	0.19	0.029	0.14	
45.11	48.46	3.35	941159	TRN	WRDR	7/3	9240	0.23	0.098	0.24	
48.46	50.29	1.83	941160	TRN	WRDR	7/3	4200	0.50	0.050	0.31	
50.29	52.43	2.14	941161	TRN	WRDR	7/3	5500	0.48	0.054	0.27	
52.43	55.47	3.04	941162	TRN	WRDR	7/3	9100	0.48	0.038	0.24	
55.47	57.91	2.44	941163	TRN	WRDR	7/3	8180	0.67	0.222	0.34	
57.91	60.96	3.05	941164	TRN	WRDR	7/3	9200	0.60	0.074	0.34	
60.96	64.01	3.05	941165	TRN	WRGD	7/5	7280	0.34	0.040	0.14	
64.01	67.06	3.05	941166	TRN	WRGD	7/5	6560	0.45	0.062	0.21	
67.06	69.49	2.43	941167	TRN	WRGD	7/5	6960	0.31	0.047	0.17	
69.49	71.63	2.14	941168	TRN	WRGD	7/5	6980	0.38	0.021	0.17	
71.63	74.68	3.05	941169	TRN	WRGD	7/5	10900	0.29	0.124	0.14	
74.68	76.20	1.52	941170	TRN	WRDR	7/5	3900	0.43	0.017	0.24	
76.20	79.25	3.05	941171	TRN	WRDR	7/5	9700	0.56	0.016	0.24	
79.25	82.30	3.05	941172	TRN	WRGF	7/5	10900	0.38	0.010	0.17	
82.30	84.12	1.82	941173	TRN	WRGF	7/5	6960	0.39	0.006	0.10	
84.12	87.78	3.66	941174	TRN	WRGF	7/5	13020	0.29	0.010	0.10	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
87.78	91.44	3.66	941175	TRN	WRDF	7/5	11800	0.41	0.048	0.27	
91.44	94.49	3.05	941176	TRN	WRDF	7/5	13020	0.21	0.015	0.17	
94.49	96.62	2.13	941177	HYP	WRDF	7/5	11080	0.17	0.014	0.17	
96.62	99.36	2.74	941178	HYP	WRDF	7/5	11820	0.18	0.046	0.21	
99.36	103.33	3.97	941179	HYP	WRDR	7/5	18220	0.26	0.016	0.24	
103.33	106.38	3.05	941180	HYP	WRDR	7/5	12540	0.31	0.017	0.38	
106.38	108.66	2.28	941181	HYP	WRDR	7/5	7240	0.65	0.025	0.69	
108.66	111.71	3.05	941182	HYP	WRGF	7/5	12420	0.21	0.022	0.24	
111.71	115.52	3.81	941183	HYP	WRDF	7/5	15060	0.22	0.023	0.31	
115.52	118.57	3.05	941184	HYP	WRDF	7/5	13460	0.19	0.015	0.34	
118.57	121.62	3.05	941185	HYP	WRGF	7/5	12020	0.18	0.017	0.24	
121.62	124.66	3.04	941186	HYP	WRGD	5/7	11700	0.16	0.030	0.21	
124.66	127.71	3.05	941187	HYP	WRGD	5/7	12260	0.20	0.019	0.21	
127.71	130.91	3.20	941188	HYP	WRGD	5/7	13260	0.15	0.030	0.21	
130.91	133.96	3.05	941189	HYP	WRGD	5/7	12540	0.21	0.049	0.24	
133.96	137.16	3.20	941190	HYP	WRGD	5/7	13220	0.18	0.055	0.24	
137.16	140.21	3.05	941191	HYP	WRGD	5/7	13660	0.21	0.016	0.24	
140.21	143.26	3.05	941192	HYP	WRGD	5/7	12380	0.27	0.027	0.38	
143.26	146.30	3.04	941193	HYP	WRGD	5	13920	0.33	0.022	0.34	
146.30	149.35	3.05	941194	HYP	WRGD	5	11860	0.10	0.038	0.14	
149.35	152.40	3.05	941195	HYP	WRGD	5/7	13700	0.19	0.025	0.27	
152.40	155.45	3.05	941196	HYP	WRGD	5/7	13540	0.24	0.033	0.38	
155.45	158.50	3.05	941197	HYP	WRGD	5/7	13200	0.23	0.028	0.31	
158.50	161.54	3.04	941198	HYP	WRGD	7/5	13600	0.18	0.027	0.27	
161.54	164.59	3.05	941199	HYP	WRGD	7/5	12740	0.18	0.042	0.21	
164.59	167.64	3.05	941200	HYP	WRGD	7/5	13580	0.19	0.021	0.24	
167.64	170.69	3.05	941201	HYP	WRGD	7/5	13320	0.17	0.053	0.21	
170.69	173.74	3.05	941202	HYP	WRGF	7/5	13680	0.20	0.022	0.17	
173.74	176.78	3.04	941203	HYP	WRGF	7/5	13060	0.23	0.025	0.27	
176.78	179.22	2.44	941204	HYP	WRGF	7/5	10040	0.23	0.027	0.24	
179.22	182.88	3.66	941205	HYP	WRGF	7/5	15800	0.12	0.038	0.21	
182.88	185.93	3.05	941206	HYP	WRGF	7/5	13280	0.17	0.031	0.21	
185.93	188.98	3.05	941207	HYP	WRGF	7/5	11840	0.15	0.038	0.07	
188.98	192.02	3.04	941208	HYP	WRGF	7/5	15100	0.17	0.046	0.21	
192.02	195.07	3.05	941209	HYP	WRGF	7/5	13860	0.25	0.046	0.31	
195.07	198.12	3.05	941210	HYP	WRGD	7/5	13600	0.15	0.022	0.17	
198.12	201.17	3.05	941211	HYP	WRGD	7/5	12220	0.10	0.018	0.07	
201.17	203.30	2.13	941212	HYP	WRGD	7/5	6880	0.09	0.024	0.07	
203.30	204.22	0.92	941213	HYP	WRGD	7/5	2760	0.09	0.025	0.14	
204.22	207.26	3.04	941214	HYP	WRGD	7	12960	0.20	0.025	0.21	
207.26	210.31	3.05	941215	HYP	WRGD	7/5	12620	0.24	0.040	0.24	
210.31	213.36	3.05	941216	HYP	WRGD	7	12580	0.22	0.055	0.21	
213.36	216.41	3.05	941217	HYP	WRGD	7/5	13280	0.16	0.016	0.17	
216.41	219.46	3.05	941218	HYP	WRGD	7/5	13160	0.14	0.026	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
219.46	222.50	3.04	941219	HYP	WRGD	7/5	12820	0.14	0.014	0.17	
222.50	225.55	3.05	941220	HYP	WRGD	7/5	12940	0.16	0.025	0.17	
225.55	228.60	3.05	941221	HYP	WRGD	7/5	12340	0.24	0.019	0.17	
228.60	231.65	3.05	941222	HYP	WRGD	7/5	12740	0.21	0.024	0.24	
231.65	234.70	3.05	941223	HYP	WRGD	7/5	13100	0.17	0.025	0.17	
234.70	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-247	Total Depth	249.02 m		
Northing	255,100.17	Casing Depth	2.68 m		Left Out
Easting	110,299.56	Survey Data	Azimuth	Dip	Instrument
Elevation	1219.39 m	Collar		-90.0°	
Core Size	HQ	171.6 m	140°	-88.6°	Sperry Sun
Drilling Started	November 3, 1993				
Drilling Finished	November 7, 1993				
Logged by	P. Fischl				

Purpose/Target: Delineation drilling of the West Zone.

Comments: This hole encountered weak to locally moderately mineralized granodiorite (WRGD) and minor diorite (WRDR).

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	8.53	8.53		OVB							
8.53	13.41	4.88	940817	CAP	WRGD	3	3100	0.10	0.026	0.24	
13.41	17.07	3.66	940818	CAP	WRGD	3	3140	0.09	0.047	0.10	
17.07	19.20	2.13	940819	CAP	WRGD	3	2980	0.09	0.016	0.14	
19.20	21.03	1.83	940820	CAP	WRGD	3	2360	0.08	0.014	0.10	
21.03	23.47	2.44	940821	CAP	WRGD	3	3920	0.07	0.013	0.17	
23.47	26.52	3.05	940822	CAP	WRGD	3	6400	0.05	0.023	0.24	
26.52	29.57	3.05	940823	CAP	WRGD	3	8700	0.05	0.047	0.24	
29.57	32.61	3.04	940824	CAP	WRGD	3	7260	0.03	0.047	0.14	
32.61	35.66	3.05	940825	CAP	WRGD	3/5	5860	0.03	0.044	0.21	
35.66	39.01	3.35	940826	CAP	WRGD	3/5	6320	0.03	0.048	0.14	
39.01	40.84	1.83	940827	CAP	WRGD	3/5	3960	0.03	0.053	0.14	
40.84	42.98	2.14	940828	CAP	WRGD	3/5	3800	0.03	0.055	0.17	
42.98	45.11	2.13	940829	CAP	WRGD	3/5	6500	0.05	0.039	0.17	
45.11	47.55	2.44	940830	SUS	WRGD	3/7/5	7840	0.08	0.058	0.24	
47.55	50.60	3.05	940831	SUS	WRGD	3/7	10520	0.06	0.040	0.14	
50.60	52.12	1.52	940832	SUS	WRGD	3	6120	0.14	0.041	0.24	
52.12	55.17	3.05	940833	SUS	WRGD	3	11040	0.13	0.043	0.14	
55.17	57.76	2.59	940834	SUS	WRGD	3	8780	0.07	0.109	0.14	
57.76	60.05	2.29	940835	SUS	WRGD	3	3900	0.42	0.171	0.41	
60.05	62.18	2.13	940836	SUS	WRGD	3	5720	0.53	0.042	0.27	
62.18	65.53	3.35	940837	SUS	WRDR	3	12980	0.45	0.034	0.27	
65.53	67.06	1.53	940838	SUS	WRDR	3	7320	0.42	0.049	0.27	
67.06	70.10	3.04	940839	SUS	WRDR	3	11000	0.41	0.014	0.24	
70.10	71.78	1.68	940840	SUS	WRDR	3	7180	0.18	0.014	0.10	
71.78	74.37	2.59	940841	SUS	WRDR	3/7	12380	0.13	0.010	0.07	
74.37	75.90	1.53	940842	SUS	WRDR	3/7	8340	0.19	0.047	0.14	
75.90	78.33	2.43	940843	SUS	WRDR	3/7	11140	0.23	0.022	0.17	
78.33	80.77	2.44	940844	SUS	WRDR	3/7	4670	0.28	0.110	0.14	
80.77	83.52	2.75	940845	SUS	WRGD	3/7	8480	0.32	0.130	0.17	
83.52	85.65	2.13	940846	SUS	WRGD	3/7	7800	0.24	0.080	0.14	
85.65	87.78	2.13	940847	SUS	WRGD	3/7	8100	0.21	0.125	0.17	
87.78	90.53	2.75	940848	SUS	WRGD	3/7	8900	0.31	0.071	0.21	
90.53	92.96	2.43	940849	SUS	WRGD	3/7	8380	0.20	0.068	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
92.96	96.01	3.05	940850	SUS	WRGD	3/7	10920	0.16	0.141	0.10	
96.01	99.52	3.51	940851	SUS	WRGD	3/7	11220	0.18	0.192	0.27	
99.52	102.11	2.59	940852	SUS	WRGD	6/7	8700	0.15	0.061	0.07	
102.11	105.77	3.66	940853	SUS	WRGD	6/7	12660	0.09	0.096	0.07	
105.77	107.29	1.52	940854	SUS	WRGD	6/7	5700	0.13	0.060	0.07	
107.29	110.34	3.05	940855	SUS	WRGD	6/5/7	12060	0.16	0.050	0.21	
110.34	113.39	3.05	940856	HYP	WRGD	6/5/7	11560	0.32	0.068	0.07	
113.39	116.48	3.09	940857	HYP	WRGD	6/5/7	13900	0.15	0.102	0.10	
116.48	117.96	1.48	940858	HYP	WRGD	6/5/7	3840	0.15	0.078	0.10	
117.96	121.01	3.05	940859	HYP	WRGD	6/5/7	13700	0.12	0.070	0.10	
121.01	124.05	3.04	940860	HYP	WRGD	6/5/7	12920	0.13	0.079	0.14	
124.05	126.03	1.98	940861	HYP	WRGD	6/5/7	10020	0.10	0.103	0.07	
126.03	128.93	2.90	940862	HYP	WRGD	6/5/7	14460	0.18	0.076	0.17	
128.93	131.98	3.05	940863	HYP	WRGD	6/5/7	14920	0.09	0.089	0.07	
131.98	135.03	3.05	940864	HYP	WRGD	6/5/7	13680	0.18	0.050	0.17	
135.03	138.07	3.04	940865	HYP	WRGD	6/5	13380	0.19	0.121	0.07	
138.07	141.12	3.05	940866	HYP	WRGD	6/5/7	13380	0.17	0.046	0.17	
141.12	142.34	1.22	940867	HYP	WRGD	6/5/7	6800	0.11	0.117	0.10	
142.34	145.39	3.05	940868	HYP	WRGD	7/6	11560	0.17	0.083	0.14	
145.39	148.44	3.05	940869	HYP	WRGD	7/6	10380	0.16	0.098	0.10	
148.44	151.49	3.05	940870	HYP	WRGD	7/6	11240	0.13	0.042	0.07	
151.49	153.31	1.82	940871	HYP	WRDR	6	5760	0.11	0.024	0.14	
153.31	156.36	3.05	940872	HYP	WRGD	6/7	11040	0.13	0.022	0.14	
156.36	159.41	3.05	940873	HYP	WRGD	6/7	12460	0.10	0.035	0.14	
159.41	162.46	3.05	940874	HYP	WRGD	6/7	11900	0.07	0.038	0.07	
162.46	165.51	3.05	940875	HYP	WRGD	6/7	15040	0.10	0.099	0.14	
165.51	168.55	3.04	940876	HYP	WRGD	7/6	11940	0.09	0.034	0.14	
168.55	171.60	3.05	940877	HYP	WRGD	7/6	14880	0.10	0.045	0.07	
171.60	174.65	3.05	940878	HYP	WRGD	6/7	14900	0.11	0.030	0.21	
174.65	177.70	3.05	940879	HYP	WRGD	7	14420	0.09	0.025	0.10	
177.70	180.75	3.05	940880	HYP	WRGD	7	14340	0.10	0.015	0.07	
180.75	183.79	3.04	940881	HYP	WRGD	7	15460	0.08	0.052	0.07	
183.79	186.84	3.05	940882	HYP	WRGD	7	14800	0.12	0.067	0.10	
186.84	189.89	3.05	940883	HYP	WRGD	7	15140	0.12	0.049	0.07	
189.89	192.94	3.05	940884	HYP	WRGD	7	7200	0.15	0.031	0.17	
192.94	195.99	3.05	940885	HYP	WRGD	7	13120	0.12	0.042	0.07	
195.99	199.03	3.04	940886	HYP	WRGD	7	12160	0.16	0.024	0.31	
199.03	202.08	3.05	940887	HYP	WRGD	7	12580	0.12	0.033	0.21	
202.08	205.13	3.05	940888	HYP	WRGD	7	12540	0.10	0.030	0.10	
205.13	208.18	3.05	940889	HYP	WRGD	7	12360	0.15	0.072	0.17	
208.18	211.23	3.05	940890	HYP	WRGD	7	13040	0.06	0.203	0.14	
211.23	212.45	1.22	940891	HYP	WRGD	7/3	4780	0.10	0.025	0.10	
212.45	215.49	3.04	940892	HYP	WRGD	7/3	12040	0.11	0.038	0.14	
215.49	218.54	3.05	940893	HYP	WRGD	7/3	13900	0.12	0.051	0.07	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
218.54	221.59	3.05	940894	HYP	WRGD	7/3	12220	0.14	0.054	0.10	
221.59	224.64	3.05	940895	HYP	WRGD	5/3	12940	0.03	0.072	0.03	
224.64	227.69	3.05	940896	HYP	WRGD	5/3	13800	0.04	0.140	0.34	
227.69	230.73	3.04	940897	HYP	WRGD	5/3	12500	0.04	0.132	0.24	
230.73	233.78	3.05	940898	HYP	WRGD	7/3	13060	0.06	0.027	0.31	
233.78	236.83	3.05	940899	HYP	WRGD	7/3	11380	0.11	0.068	0.10	
236.83	239.88	3.05	940900	HYP	WRGD	7/3	12400	0.08	0.017	0.14	
239.88	241.71	1.83	940901	HYP	WRGD	7/3	7020	0.11	0.046	0.07	
241.71	243.84	2.13	940902	HYP	WRDR	7/3	8940	0.06	0.070	0.14	
243.84	245.97	2.13	940903	HYP	WRDR	7	8180	0.05	0.058	0.07	
245.97	249.02	3.05	940904	HYP	MBFW	7	13220	0.23	0.035	0.10	
249.02	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-248	Total Depth	252.07 m		
Northing	255,099.18	Casing Depth	14.33 m		Left Out
Easting	110,100.37	Survey Data	Azimuth	Dip	Instrument
Elevation	1213.38 m	Collar		-90°	
Core Size	HQ	252.07 m	108°	-89°	Sperry Sun
Drilling Started	November 6, 1993				
Drilling Finished	November 9, 1993				
Logged by	W.D. Mann				

Purpose/Target: Delineation of West Zone, Canadian Creek area.

Comments: Consistent moderate to weak copper mineralization.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	14.33	14.33		OVB							
14.33	17.98	3.65	588352	CAP	QMFX	5/3	4000	0.06	0.135	0.17	
17.98	20.42	2.44	588353	CAP	QMFX	5/3	6000	0.04	0.105	0.14	
20.42	23.47	3.05	588354	CAP	QMFX	5/3	6020	0.02	0.050	0.17	
23.47	26.52	3.05	588355	CAP	WRDR	3	7000	0.05	0.047	0.34	
26.52	28.96	2.44	588356	CAP	WRDR	3	5600	0.05	0.063	0.55	
28.96	32.00	3.04	588357	CAP	WRDR	3	5400	0.04	0.026	0.34	
32.00	35.36	3.36	588358	SUS	WRDR	3/5	5600	0.18	0.027	0.51	
35.36	38.71	3.35	588359	SUS	WRDR	3/5	7800	0.09	0.021	0.65	
38.71	40.54	1.83	588360	SUS	WRDR	3/5	4200	0.14	0.020	0.45	
40.54	42.82	2.28	588361	SUS	WRGD	3/7	4600	0.07	0.024	0.21	
42.82	47.85	5.03	588362	SUS	WRGD	3/7	5000	0.03	0.033	0.24	
47.85	50.29	2.44	588363	SUS	WRGD	3/7	3200	0.13	0.016	0.34	
50.29	53.04	2.75	588364	SUS	WRGD	3/7	7000	0.23	0.017	0.31	
53.04	55.47	2.43	588365	SUS	WRGD	3/7	7080	0.32	0.025	0.27	
55.47	58.52	3.05	588366	SUS	WRGD	3/7	9000	0.29	0.024	0.14	
58.52	61.26	2.74	588367	SUS	WRGD	3/7	7800	0.32	0.012	0.21	
61.26	64.92	3.66	588368	SUS	WRGD	7	8000	0.48	0.025	0.27	
64.92	66.45	1.53	588369	SUS	WRDR	7	3020	0.55	0.049	0.34	
66.45	69.80	3.35	588370	SUS	WRDR	7	10020	0.55	0.020	0.38	
69.80	72.24	2.44	588371	SUS	WRDR	7	7000	0.68	0.025	0.34	
72.24	74.22	1.98	588372	SUS	WRDR	7	6040	0.30	0.017	0.21	
74.22	76.81	2.59	588373	SUS	WRDR	7	8020	0.76	0.031	0.45	
76.81	79.55	2.74	588374	SUS	WRDR	7	8500	0.35	0.016	0.21	
79.55	82.30	2.75	588375	SUS	WRDR	7	9500	0.36	0.013	0.21	
82.30	85.65	3.35	588376	SUS	WRDR	7	9000	0.44	0.022	0.17	
85.65	89.31	3.66	588377	SUS	WRGD	7	7600	0.52	0.009	0.34	
89.31	92.35	3.04	588378	SUS	WRGD	7	7000	0.46	0.018	0.31	
92.35	95.40	3.05	588379	SUS	QMIE	7	9800	0.26	0.035	0.17	
95.40	98.45	3.05	588380	SUS	QMFX	7/5	11200	0.17	0.048	0.10	
98.45	102.72	4.27	588381	SUS	QMFX	7/5	13600	0.18	0.051	0.10	
102.72	105.77	3.05	588382	SUS	QMFX	7/5	8800	0.15	0.070	0.14	
105.77	108.81	3.04	588383	SUS	QMFX	7/5	10600	0.17	0.021	0.10	
108.81	111.86	3.05	588384	SUS	QMFX	7/5	11400	0.15	0.018	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
111.86	114.91	3.05	588385	HYP	WRGD	7	9820	0.13	0.017	0.21	
114.91	117.96	3.05	588386	HYP	WRGD	7	10400	0.18	0.014	0.24	
117.96	119.79	1.83	588387	HYP	WRGD	7	6000	0.17	0.011	0.24	
119.79	121.92	2.13	588388	HYP	WRGD	7	7800	0.14	0.032	0.14	
121.92	123.90	1.98	588389	HYP	WRGD	7	7200	0.13	0.006	0.14	
123.90	127.10	3.20	588390	HYP	WRGD	7	11800	0.12	0.026	0.17	
127.10	129.08	1.98	588391	HYP	WRGD	7	6200	0.18	0.041	0.21	
129.08	132.13	3.05	588392	HYP	WRGD	7	11000	0.12	0.027	0.14	
132.13	135.18	3.05	588393	HYP	WRGD	7	12000	0.16	0.026	0.14	
135.18	138.38	3.20	588394	HYP	WRGD	7	11700	0.17	0.041	0.21	
138.38	140.51	2.13	588395	HYP	WRDR	7	7700	0.14	0.012	0.21	
140.51	145.39	4.88	588396	HYP	WRDR	7	18500	0.14	0.016	0.21	
145.39	148.44	3.05	588398	HYP	WRDR	7	11300	0.10	0.021	0.14	
148.44	151.49	3.05	588399	HYP	WRGD	7	12300	0.14	0.026	0.17	
151.49	154.53	3.04	588400	HYP	WRDR	7	13000	0.12	0.020	0.14	
154.53	157.58	3.05	588401	HYP	WRDR	7	12000	0.19	0.023	0.24	
157.58	160.63	3.05	588402	HYP	WRDR	7	13000	0.10	0.051	0.10	
160.63	163.68	3.05	588403	HYP	WRDR	7	12500	0.13	0.081	0.21	
163.68	166.73	3.05	588404	HYP	QMFX	7/5	11900	0.09	0.057	0.07	
166.73	169.77	3.04	588405	HYP	QMFX	7/5	10500	0.09	0.041	0.10	
169.77	172.82	3.05	588406	HYP	WRGD	7	12700	0.11	0.022	0.14	
172.82	175.87	3.05	588407	HYP	WRGD	7	14040	0.18	0.024	0.24	
175.87	178.92	3.05	588408	HYP	WRGD	7	14100	0.12	0.015	0.17	
178.92	181.97	3.05	588409	HYP	WRGD	7	14000	0.21	0.048	0.34	
181.97	185.01	3.04	588410	HYP	WRGD	7	13400	0.25	0.039	0.34	
185.01	188.06	3.05	588411	HYP	WRGD	7	12000	0.17	0.041	0.21	
188.06	191.11	3.05	588412	HYP	WRGD	7	12400	0.11	0.019	0.17	
191.11	194.16	3.05	588413	HYP	WRGD	7	13200	0.09	0.011	0.14	
194.16	197.21	3.05	588414	HYP	WRGD	7	11200	0.11	0.010	0.14	
197.21	199.95	2.74	588415	HYP	WRGD	7	12800	0.10	0.041	0.17	
199.95	203.00	3.05	588416	HYP	WRGD	7	13200	0.12	0.013	0.17	
203.00	206.20	3.20	588417	HYP	WRGD	7	12400	0.13	0.016	0.14	
206.20	209.25	3.05	588418	HYP	WRGD	7	12600	0.17	0.047	0.21	
209.25	210.92	1.67	588419	HYP	WRGD	7	6400	0.18	0.020	0.21	
210.92	213.97	3.05	588420	HYP	WRGD	7	13600	0.14	0.018	0.24	
213.97	215.49	1.52	588421	HYP	WRGD	7	5600	0.19	0.007	0.24	
215.49	218.54	3.05	588422	HYP	WRGD	7	12000	0.18	0.040	0.24	
218.54	221.59	3.05	588423	HYP	WRDR	7	12800	0.29	0.013	0.31	
221.59	224.64	3.05	588424	HYP	WRDR	7	13600	0.15	0.030	0.17	
224.64	227.69	3.05	588425	HYP	WRDR	7	12400	0.14	0.048	0.17	
227.69	230.73	3.04	588426	HYP	WRDR	7	12600	0.14	0.051	0.14	
230.73	233.78	3.05	588427	HYP	WRDR	7	13400	0.19	0.075	0.21	
233.78	236.83	3.05	588428	HYP	WRDR	7	13000	0.19	0.020	0.17	
236.83	239.88	3.05	588429	HYP	WRDR	7	12200	0.11	0.009	0.14	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
239.88	242.93	3.05	588430	HYP	WRDR	7	12400	0.11	0.031	0.10	
242.93	245.97	3.04	588431	HYP	WRDR	7	13800	0.23	0.016	0.21	
245.97	249.02	3.05	588432	HYP	WRDR	7	14000	0.06	0.023	0.07	
249.02	252.07	3.05	588433	HYP	WRDR	7	13000	0.11	0.010	0.07	
252.07	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-249	Total Depth	282.55 m		
Northing	255,000.43	Casing Depth	44.5 m		Left Out
Easting	110,001.95	Survey Data	Azimuth	Dip	Instrument
Elevation	1222.46 m	Collar		-90.0°	
Core Size	HW	252.07 m		-89.8°	Sperry Sun
Drilling Started	November 4, 1993				
Drilling Finished	November 11, 1993				
Logged by	S. de Wit				

Purpose/Target:

Comments:

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	15.85	15.85		OVB							
15.85	17.37	1.52	569348	CAP	WRGD	3	6000	0.08	0.016	0.21	
17.37	20.48	3.11	569349	CAP	WRGD	3	10200	0.04	0.036	0.17	
20.48	23.16	2.68	569350	CAP	WRGD	3	8000	0.06	0.008	0.14	
23.16	25.30	2.14	569351	CAP	WRGD	3	5360	0.06	0.015	0.21	
25.30	27.43	2.13	569352	CAP	WRGD	3	8500	0.04	0.014	0.34	
27.43	31.09	3.66	569353	CAP	QMFX	3	10260	0.05	0.015	0.17	
31.09	34.14	3.05	569354	CAP	WRGD	3	10800	0.05	0.028	0.24	
34.14	37.49	3.35	569355	CAP	WRGD	3	10400	0.04	0.033	0.21	
37.49	40.54	3.05	569356	CAP	QMFX	3	10100	0.03	0.020	0.14	
40.54	43.28	2.74	569357	CAP	WRGD	3	7000	0.03	0.028	0.14	
43.28	47.24	3.96	569358	CAP	WRDR	3	9200	0.07	0.058	0.21	
47.24	50.29	3.05	569359	TRN	WRDR	3	10240	0.16	0.012	0.17	
50.29	53.34	3.05	569360	TRN	WRDR	3	9000	0.31	0.012	0.21	
53.34	57.00	3.66	569361	TRN	WRGD	3	11000	0.18	0.015	0.17	
57.00	60.05	3.05	569362	TRN	IXAX	3	9740	0.18	0.006	0.21	
60.05	63.70	3.65	569363	TRN	WRDR	3	9200	0.19	0.008	0.14	
63.70	67.06	3.36	569364	TRN	WRDR	3	8600	0.14	0.008	0.03	
67.06	69.19	2.13	569365	TRN	WRGD	3	4220	0.13	0.181	0.17	
69.19	72.24	3.05	569366	SUS	WRGD	3	6460	0.18	0.016	0.07	
72.24	76.05	3.81	569367	SUS	WRGD	3	12100	0.23	0.034	0.17	
76.05	78.33	2.28	569368	SUS	WRGD	3	6100	0.33	0.006	0.21	
78.33	81.68	3.35	569369	SUS	WRGD	3	9220	0.30	0.020	0.14	
81.68	84.43	2.75	569370	SUS	WRGD	3	7640	0.21	0.008	0.14	
84.43	87.63	3.20	569371	SUS	WRGD	3	8400	0.23	0.009	0.10	
87.63	91.44	3.81	569372	SUS	WRGD	3	9860	0.36	0.010	0.10	
91.44	93.57	2.13	569373	SUS	WRGD	3	6440	0.27	0.005	0.10	
93.57	96.01	2.44	569374	SUS	WRGD	3	7400	0.20	0.010	0.07	
96.01	98.76	2.75	569375	SUS	WRGD	3	7960	0.13	0.009	0.07	
98.76	102.41	3.65	569376	SUS	WRGD	3	12300	0.14	0.011	0.51	
102.41	105.46	3.05	569377	SUS	QMFX	3	11600	0.14	0.010	0.10	
105.46	107.75	2.29	569378	SUS	QMFX	3	9200	0.14	0.006	0.07	
107.75	110.64	2.89	569379	SUS	WRGD	3	12400	0.16	0.011	0.10	
110.64	113.69	3.05	569380	SUS	WRGD	3	12800	0.21	0.017	0.17	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
113.69	114.91	1.22	567381	SUS	WRDR	3	4800	0.17	0.004	0.17	
114.91	117.96	3.05	567382	SUS	WRDR	3	12000	0.21	0.008	0.21	
117.96	121.01	3.05	567383	SUS	QMFX	3	12600	0.22	0.010	0.14	
121.01	124.05	3.04	567384	SUS	WRGD	3	11400	0.15	0.013	0.24	
124.05	127.10	3.05	567385	SUS	WRGD	3	5640	0.22	0.010	0.21	
127.10	130.15	3.05	567386	SUS	WRGD	5	6440	0.12	0.021	0.17	
130.15	133.20	3.05	567387	HYP	WRGD	5	7100	0.16	0.014	0.14	
133.20	136.25	3.05	567388	HYP	WRGD	5	7000	0.16	0.012	0.14	
136.25	139.29	3.04	567389	HYP	WRGD	5	6800	0.29	0.007	0.34	
139.29	142.34	3.05	567390	HYP	WRGD	5	7200	0.15	0.027	0.07	
142.34	145.39	3.05	567391	HYP	WRGD	5	6200	0.16	0.007	0.24	
145.39	148.44	3.05	567392	HYP	IXAX	7/5	7000	0.17	0.012	0.21	
148.44	151.49	3.05	567393	HYP	IXAX	7/5	6600	0.13	0.013	0.14	
151.49	154.53	3.04	567394	HYP	IXAX	7/5	8000	0.10	0.009	0.10	
154.53	156.67	2.14	567395	HYP	IXAX	7/5	5400	0.08	0.003	0.07	
156.67	160.63	3.96	567396	HYP	IXAX	7/5	8400	0.08	0.003	0.07	
160.63	163.68	3.05	567397	HYP	IXAX	7/5	7800	0.20	0.021	0.17	
163.68	166.73	3.05	567398	HYP	IXAX	7/5	7200	0.09	0.011	0.21	
166.73	169.77	3.04	567399	HYP	IXAX	7/5	7000	0.13	0.011	0.14	
169.77	172.82	3.05	567400	HYP	IXAX	7	6800	0.11	0.007	0.07	
172.82	175.87	3.05	567401	HYP	QMFX	7	7600	0.08	0.008	0.03	
175.87	178.92	3.05	567402	HYP	QMFX	7	7000	0.11	0.010	0.07	
178.92	181.97	3.05	567403	HYP	QMFX	7	6800	0.06	0.007	0.03	
181.97	185.01	3.04	567404	HYP	IXAX	7	7000	0.13	0.008	0.14	
185.01	188.06	3.05	567405	HYP	IXAX	7	7400	0.19	0.010	0.14	
188.06	191.11	3.05	567406	HYP	IXAX	7	6600	0.24	0.016	0.27	
191.11	194.16	3.05	567407	HYP	IXAX	7	7200	0.20	0.018	0.21	
194.16	197.21	3.05	567408	HYP	IXAX	7	6660	0.20	0.032	0.21	
197.21	200.25	3.04	567409	HYP	IXAX	7	7200	0.20	0.006	0.24	
200.25	203.30	3.05	567410	HYP	WRGD	7	7000	0.16	0.011	0.17	
203.30	205.44	2.14	567411	HYP	WRGD	7	5200	0.20	0.014	0.27	
205.44	208.18	2.74	567412	HYP	WRDR	7	6800	0.35	0.016	0.45	
208.18	211.23	3.05	567413	HYP	WRDR	7	7800	0.35	0.007	0.45	
211.23	214.27	3.04	567414	HYP	WRDR	7	7600	0.31	0.013	0.34	
214.27	217.32	3.05	567415	HYP	WRDR	7	7400	0.31	0.012	0.38	
217.32	220.37	3.05	567416	HYP	WRDR	7	7800	0.24	0.004	0.21	
220.37	223.42	3.05	567417	HYP	WRDR	5/2	7700	0.34	0.016	0.34	
223.42	226.47	3.05	567418	HYP	IXAX	5/2	7000	0.20	0.047	0.31	
226.47	229.51	3.04	567419	HYP	IXAX	5/2	6900	0.31	0.018	0.31	
229.51	232.56	3.05	567420	HYP	WRGD	7/5	7000	0.23	0.028	0.24	
232.56	235.61	3.05	567421	HYP	WRGD	7/5	6800	0.26	0.022	0.31	
235.61	238.66	3.05	567422	HYP	WRGD	7/5	7000	0.22	0.017	0.24	
238.66	241.71	3.05	567423	HYP	WRGD	7/5	7400	0.29	0.014	0.10	
241.71	244.75	3.04	567424	HYP	WRGD	7/5	7900	0.21	0.010	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
244.75	247.80	3.05	567425	HYP	WRGD	7/5	7820	0.27	0.010	0.27	
247.80	250.85	3.05	567426	HYP	WRGD	7/5	7300	0.27	0.019	0.38	
250.85	252.07	1.22	567427	HYP	WRGD	7/5	3900	0.27	0.061	0.34	
252.07	255.12	3.05	567428	HYP	IXAX	7	6600	0.29	0.020	0.31	
255.12	258.17	3.05	567429	HYP	IXAX	7	7300	0.20	0.008	0.21	
258.17	261.21	3.04	567430	HYP	IXAX	7	7200	0.28	0.022	0.38	
261.21	264.26	3.05	567431	HYP	IXAX	7/5	6600	0.34	0.064	0.41	
264.26	267.31	3.05	567432	HYP	IXAX	7/5	7000	0.39	0.023	0.31	
267.31	270.36	3.05	567433	HYP	IXAX	7/5	6960	0.31	0.035	0.31	
270.36	273.41	3.05	567434	HYP	IXAX	7/5	7000	0.24	0.012	0.21	
273.41	276.45	3.04	567435	HYP	IXAX	7/5	6840	0.28	0.014	0.31	
276.45	279.50	3.05	567436	HYP	IXAX	7/5	7600	0.20	0.048	0.17	
279.50	282.55	3.05	567437	HYP	IXAX	7/5	7200	0.29	0.142	0.41	
282.55	END OF HOLE										

SUMMARY DRILL LOG
CASINO PROJECT

Hole Number	93-250	Total Depth	258.17 m
Northing	254,900.53	Casing Depth	6.71 m Left In
Easting	110,299.32	Survey Data	Azimuth / Dip / Instrument
Elevation	1239.75 m	Collar	-90.0° Brunton Compass
Core Size	HQ	157.58 m	058° -88.5° Sperry Sun
Drilling Started	November 4, 1993		
Drilling Finished	November 9, 1993		
Logged by	J. Weber		

Purpose/Target: Delineation drilling in southern portion of West Pit area.

Comments: Patchy mineralization in both supergene sulphide and hypogene zones.

From (m)	To (m)	Interval (m)	Sample Number	Zone	Rock Type	Alteration	Sample Wt (g)	Assay Results Cu%	MoS2%	Au (g/t)	Ag (g/t)
0.00	3.05	3.05		OVB							
3.05	5.79	2.74	941697	CAP	MBCH	3	7200	0.03	0.044	0.10	
5.79	8.23	2.44	941698	CAP	MBCH	3	8200	0.03	0.020	0.17	
8.23	10.97	2.74	941699	CAP	MBCH	3	10200	0.03	0.055	0.14	
10.97	14.02	3.05	941700	CAP	MBCH	3	10400	0.03	0.049	0.21	
14.02	17.07	3.05	941701	CAP	MBCH	3	10200	0.05	0.072	0.24	
17.07	20.12	3.05	941702	CAP	MBCH	3	10100	0.03	0.039	0.27	
20.12	23.16	3.04	941703	CAP	MBCH	3	9100	0.03	0.060	0.41	
23.16	26.21	3.05	941704	CAP	MBCH	3	9100	0.03	0.080	0.51	
26.21	29.26	3.05	941705	CAP	MBCH	3	9100	0.03	0.061	0.27	
29.26	32.61	3.35	941706	CAP	MBCH	3/7	9000	0.03	0.058	0.27	
32.61	35.66	3.05	941707	CAP	MBCH	3/7	9800	0.03	0.089	0.34	
35.66	38.71	3.05	941708	CAP	MBCH	3/7	9000	0.04	0.097	0.27	
38.71	41.76	3.05	941709	CAP	MBCH	3/7	7500	0.04	0.075	0.34	
41.76	44.81	3.05	941710	CAP	MBCH	3/7	11500	0.03	0.075	0.14	
44.81	47.85	3.04	941711	CAP	MBCH	3/7	9100	0.04	0.043	0.10	
47.85	50.90	3.05	941712	CAP	MBCH	3/7	11000	0.10	0.038	0.07	
50.90	52.73	1.83	941713	CAP	MBCH	3/7	6000	0.07	0.039	0.21	
52.73	54.56	1.83	941714	CAP	MBCH	3/7	6800	0.23	0.065	0.41	
54.56	56.39	1.83	941715	CAP	MBCH	3/7	5900	0.15	0.046	0.24	
56.39	58.22	1.83	941716	CAP	MBCH	3/7	5100	0.32	0.055	0.27	
58.22	61.26	3.04	941717	CAP	MBCH	7/5	10700	0.24	0.052	0.31	
61.26	63.70	2.44	941718	CAP	MBCH	7/5	7600	0.31	0.064	0.45	
63.70	67.06	3.36	941719	CAP	MBCH	7/5/3	10200	0.20	0.071	0.45	
67.06	69.19	2.13	941720	CAP	MBCH	7/5	6500	0.52	0.098	0.45	
69.19	72.24	3.05	941721	CAP	MBCH	7/5	10800	0.21	0.069	0.34	
72.24	75.29	3.05	941722	CAP	MBCH	7/5	11000	0.24	0.054	0.31	
75.29	78.33	3.04	941723	CAP	MBCH	7/5	12000	0.27	0.075	0.27	
78.33	81.08	2.75	941724	SUS	MBCH	7/5	8200	0.34	0.054	0.24	
81.08	84.43	3.35	941725	SUS	MBCH	7/5	12000	0.44	0.053	0.38	
84.43	86.56	2.13	941726	SUS	MBCH	7/5	7800	0.27	0.044	0.24	
86.56	88.39	1.83	941727	SUS	MBCH	7/5	6100	0.32	0.067	0.21	
88.39	90.53	2.14	941728	SUS	MBCH	7/5	8000	0.35	0.053	0.34	
90.53	93.57	3.04	941729	SUS	MBCH	7/5	9000	0.36	0.055	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
93.57	96.32	2.75	941730	SUS	MBCH	7/5	9100	0.45	0.047	0.55	
96.32	99.67	3.35	941731	SUS	MBCH	7/5	10800	0.79	0.048	0.41	
99.67	102.11	2.44	941732	SUS	PPDP	7/5/3	8400	0.13	0.016	0.17	
102.11	105.46	3.35	941733	SUS	PPDP	7/5/3	13000	0.24	0.109	0.27	
105.46	108.81	3.35	941734	SUS	MBCH	7/5	12300	0.35	0.043	0.17	
108.81	112.32	3.51	941735	SUS	MBCH	7/5/3	9700	0.33	0.041	0.17	
112.32	114.91	2.59	941736	SUS	MBCH	7/5/3	10000	0.27	0.074	0.24	
114.91	117.96	3.05	941737	SUS	MBCH	7/5/3	10600	0.27	0.093	0.21	
117.96	121.01	3.05	941738	SUS	MBCH	7/5/3	10400	0.54	0.056	0.58	
121.01	122.83	1.82	941739	SUS	MBCH	7/5	7800	0.23	0.067	0.17	
122.83	124.66	1.83	941740	SUS	MBCH	7/5	7000	0.11	0.028	0.07	
124.66	126.80	2.14	941741	SUS	MBCH	7/5	7200	0.11	0.046	0.10	
126.80	130.45	3.65	941742	SUS	MBCH	7/5	14400	0.17	0.017	0.17	
130.45	133.50	3.05	941743	SUS	MBCH	7/5	10570	0.17	0.033	0.24	
133.50	136.55	3.05	941744	SUS	PPDP	7/5	10500	0.19	0.015	0.41	
136.55	139.29	2.74	941745	SUS	MBCH	7/5	9600	0.12	0.025	0.14	
139.29	142.34	3.05	941746	SUS	MBCH	7/5	11200	0.11	0.018	0.10	
142.34	145.39	3.05	941747	SUS	MBCH	7/5	10800	0.16	0.047	0.17	
145.39	148.44	3.05	941748	SUS	MBCH	7/5	14200	0.11	0.050	0.10	
148.44	151.49	3.05	941749	SUS	MBCH	7/5	12000	0.13	0.072	0.14	
151.49	154.08	2.59	941750	HYP	MBCH	7/5	10400	0.17	0.027	0.14	
154.08	156.36	2.28	941751	HYP	MBCH	7/5	8600	0.12	0.037	0.10	
156.36	159.41	3.05	941752	HYP	MBCH	7/5	11800	0.14	0.118	0.21	
159.41	161.54	2.13	941753	HYP	MBCH	7/5	8200	0.24	0.059	0.31	
161.54	163.68	2.14	941754	HYP	MBCH	7/5	8000	0.26	0.038	0.38	
163.68	166.73	3.05	941755	HYP	MBCH	7/5	12800	0.18	0.013	0.24	
166.73	169.77	3.04	941756	HYP	MBCH	7/5/2	12600	0.15	0.030	0.21	
169.77	172.82	3.05	941757	HYP	MBCH	7/5/2	12800	0.16	0.048	0.14	
172.82	175.87	3.05	941758	HYP	PPDP	7/5/2	13400	0.04	0.011	0.03	
175.87	178.31	2.44	941759	HYP	PPDP	7/5/2	10400	0.13	0.019	0.14	
178.31	181.36	3.05	941760	HYP	PPDP	7/5/2	13800	0.13	0.016	0.17	
181.36	183.49	2.13	941761	HYP	MBCH	7/5/2	9000	0.12	0.019	0.17	
183.49	186.54	3.05	941762	HYP	MBCH	7/5	12400	0.13	0.046	0.07	
186.54	189.59	3.05	941763	HYP	MBCH	7/5	13000	0.14	0.085	0.14	
189.59	192.63	3.04	941764	HYP	MBCH	7/5	13400	0.21	0.099	0.27	
192.63	194.16	1.53	941765	HYP	PPDP	7/5	6200	0.11	0.031	0.14	
194.16	197.21	3.05	941766	HYP	MBCH	7/5	12000	0.24	0.074	0.38	
197.21	200.25	3.04	941767	HYP	MBCH	7/5	12200	0.23	0.077	0.31	
200.25	202.87	2.62	941768	HYP	PPDP	7/5	10200	0.11	0.018	0.07	
202.87	206.20	3.33	941769	HYP	PPDP	7/5	11200	0.05	0.013	0.07	
206.20	209.25	3.05	941770	HYP	PPDP	7/5	11000	0.07	0.029	<0.03	
209.25	212.45	3.20	941771	HYP	MBCH	7/5	11800	0.13	0.072	0.10	
212.45	215.49	3.04	941772	HYP	MBCH	7/5	12000	0.15	0.083	0.14	
215.49	218.54	3.05	941773	HYP	MBCH	7/5	13000	0.18	0.092	0.27	

SUMMARY DRILL LOG
CASINO PROJECT

From	To	Interval	Sample				Sample	Assay Results			
(m)	(m)	(m)	Number	Zone	Rock Type	Alteration	Wt (g)	Cu%	MoS2%	Au (g/t)	Ag (g/t)
218.54	221.59	3.05	941774	HYP	MBCH	6	11200	0.11	0.054	0.21	
221.59	224.64	3.05	941775	HYP	MBCH	6/7	11000	0.13	0.067	0.27	
224.64	227.69	3.05	941776	HYP	MBCH	6/7	11200	0.15	0.056	0.14	
227.69	230.73	3.04	941777	HYP	MBCH	7/6	10800	0.18	0.166	0.21	
230.73	233.78	3.05	941778	HYP	MBCH	7	12200	0.14	0.143	0.21	
233.78	236.83	3.05	941779	HYP	MBCH	7	11000	0.13	0.073	0.17	
236.83	239.88	3.05	941780	HYP	MBCH	7	11600	0.13	0.106	0.27	
239.88	242.93	3.05	941781	HYP	MBCH	7/2/5	11800	0.14	0.074	0.17	
242.93	245.97	3.04	941782	HYP	MBCH	7/5	11200	0.17	0.040	0.21	
245.97	249.02	3.05	941783	HYP	MBCH	7/5	12000	0.19	0.094	0.34	
249.02	252.07	3.05	941784	HYP	MBCH	7/5	12000	0.25	0.073	0.34	
252.07	255.12	3.05	941785	HYP	MBCH	7/5	11800	0.07	0.032	0.03	
255.12	258.17	3.05	941786	HYP	MBCH	7/5	11400	0.15	0.039	0.14	
258.17	END OF HOLE										

APPENDIX IX - A

CERTIFICATES OF ANALYSES

093190

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 123
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : I9314336
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314336

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563611	208	274	1.22	0.092	1.20	3900						
H563612	208	274	0.54	0.054	0.45	6760						
H563613	208	274	0.74	0.086	0.82	7020						
H563614	208	274	0.91	0.136	0.58	6440						
H563615	208	274	0.29	0.088	0.17	6400						
H563616	208	274	0.07	0.111	0.07	6480						
H563617	208	274	0.32	0.120	0.31	6500						
H563618	208	274	0.59	0.043	0.69	6580						
H563619	208	274	0.08	0.010	0.14	6940						
H563620	208	--	0.07	0.001	0.07	7380						
H563621	208	274	0.20	0.045	0.21	6600						
H563622	208	274	0.24	0.031	0.21	6900						
H563623	208	274	0.55	0.081	0.51	6800						
H563624	208	274	0.47	0.075	0.65	5520						
H563625	208	274	0.29	0.074	0.27	6280						
H563626	208	274	0.65	0.061	0.65	6200						
H563627	208	274	0.20	0.038	0.21	6120						
H563628	208	274	0.18	0.011	0.21	6760						
H563629	208	274	0.09	0.005	0.10	6200						
H563630	208	274	0.19	0.021	0.21	5040						
H563631	208	274	0.19	0.039	0.14	6480						
H563632	208	276	0.28	0.078	0.24	8510						
H563633	208	274	0.24	0.047	0.17	4300						
H563634	208	274	0.34	0.052	0.31	6320						
H563635	208	274	0.39	0.076	0.34	5850						
H563636	208	274	0.25	0.076	0.24	6450						
H563637	208	276	0.28	0.073	0.34	7300						
H563638	208	274	0.31	0.040	0.27	6460						
H563639	208	274	0.39	0.030	0.38	6700						
H563640	208	274	0.26	0.055	0.38	6010						
H563641	208	274	0.43	0.095	0.65	6650						
H563642	208	274	0.27	0.076	0.27	6220						
H563643	208	274	0.28	0.026	0.45	6200						
H563644	208	274	0.30	0.076	0.34	6120						
H563645	208	274	0.33	0.058	0.48	6700						
H563646	208	274	0.28	0.062	0.48	5800						
H563647	208	274	0.35	0.099	0.34	7220						
H563648	208	274	0.30	0.093	0.24	6120						
H563649	208	274	0.37	0.110	0.45	5180						
H563650	208	274	0.37	0.114	0.65	6420						

CERTIFICATION: Erich Zeinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 123
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Certificate Date: 20-MAY-93
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CERTIFICATE OF ANALYSIS A9314336

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563651	208	273	0.26	0.055	0.31	15450						
H563652	208	273	0.22	0.072	0.34	15250						
H563653	208	273	0.26	0.077	0.38	15800						
H563654	208	273	0.35	0.070	0.72	14450						
H563655	208	276	0.36	0.062	0.55	7660						
H563656	208	274	0.42	0.069	0.38	7250						
H563657	208	274	0.69	0.090	0.82	6580						
H563658	208	276	0.39	0.068	0.24	7650						
H563659	208	274	0.22	0.062	0.21	7140						
H563660	208	274	0.33	0.075	0.41	6700						
H563661	208	276	0.32	0.074	0.45	7580						
H563662	208	274	0.28	0.078	0.34	7020						
H563663	208	274	0.33	0.057	0.51	6500						
H563664	208	274	0.31	0.053	0.55	6940						
H563665	208	274	0.24	0.033	0.31	7040						
H563666	208	274	0.16	0.031	0.48	7090						
H563667	208	274	0.33	0.039	0.48	7220						
H563668	208	274	0.19	0.036	0.21	6640						
H563669	208	274	0.23	0.034	0.27	6900						
H563670	208	274	0.25	0.030	0.27	6930						
H563671	208	274	0.19	0.036	0.24	7050						
H563672	208	276	0.27	0.041	0.31	7300						
H563673	208	274	0.16	0.037	0.24	7020						
H563674	208	274	0.28	0.030	0.34	6750						
H563675	208	276	0.25	0.038	0.24	7320						
H563676	208	274	0.34	0.048	0.31	6020						
H563677	208	274	0.43	0.059	0.48	6530						
H563678	208	274	0.35	0.035	0.51	6710						
H563679	208	274	0.36	0.042	0.34	6750						
H563680	208	274	0.19	0.028	0.17	6540						
H563681	208	274	0.24	0.030	0.24	6560						
H563682	208	274	0.28	0.043	0.27	6420						
H563683	208	274	0.22	0.035	0.24	7180						
H563684	208	274	0.32	0.035	0.31	7160						
H563685	208	274	0.19	0.009	0.17	6280						
H563686	208	274	0.17	0.009	0.14	6660						
H563687	208	274	0.28	0.017	0.27	6920						
H563688	208	276	0.26	0.013	0.38	7420						
H563689	208	274	0.28	0.014	0.34	6720						
H563690	208	276	0.24	0.006	0.27	7600						

CERTIFICATION: Said Zeinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 123
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. :I9314336
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314336

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563691	208	274	0.22	0.013	0.27	6620						
H563692	208	274	0.18	0.011	0.41	6600						
H563693	208	274	0.07	0.039	0.03	7060						
H563694	208	274	0.11	0.078	0.10	6600						
H563695	208	274	0.06	0.021	0.03	6840						
H563696	208	274	0.06	0.026	< 0.03	6300						
H563697	208	274	0.11	0.036	0.03	6220						
H563698	208	274	0.09	0.047	0.07	6840						
H563699	208	274	0.13	0.123	0.10	6020						

CERTIFICATION: Said Zeinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 123
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :3
Certificate Date: 20-MAY-93
Invoice No. :I9314337
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314337

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563611	299	229	2.8	1.24	104	90	< 0.5	< 2	3.30	< 0.5	13	79	>10000	2.23	< 10	< 1	0.55	< 10	0.97	120	478
H563612	299	229	5.2	1.81	220	100	< 0.5	< 2	4.59	1.0	11	62	5000	2.52	< 10	< 1	0.79	< 10	1.18	960	275
H563613	299	229	2.4	1.44	14	80	< 0.5	< 2	4.67	< 0.5	10	67	6990	1.91	< 10	< 1	0.66	< 10	0.95	220	461
H563614	299	229	8.0	1.19	20	100	< 0.5	< 2	3.54	< 0.5	10	90	8930	2.18	< 10	< 1	0.46	< 10	0.66	220	745
H563615	299	229	1.2	1.61	8	280	< 0.5	< 2	3.02	< 0.5	8	74	2720	1.34	< 10	< 1	0.63	< 10	0.98	215	476
H563616	299	229	0.6	1.42	4	180	< 0.5	< 2	2.03	< 0.5	4	81	640	0.91	< 10	< 1	0.47	20	0.82	120	622
H563617	299	229	1.4	1.19	12	180	< 0.5	< 2	2.09	< 0.5	7	74	2830	1.03	< 10	< 1	0.41	< 10	0.65	145	650
H563618	299	229	2.6	1.24	12	230	< 0.5	< 2	2.10	< 0.5	9	81	5610	2.00	< 10	< 1	0.49	< 10	0.80	285	227
H563619	299	229	< 0.2	1.52	2	230	< 0.5	< 2	1.64	< 0.5	10	108	752	3.15	< 10	< 1	0.42	< 10	1.19	540	54
H563620	299	229	< 0.2	1.48	8	110	< 0.5	< 2	1.47	< 0.5	14	105	676	3.35	< 10	< 1	0.42	10	1.27	130	9
H563621	299	229	1.2	1.24	6	290	< 0.5	< 2	1.63	< 0.5	7	114	1790	1.61	< 10	< 1	0.49	10	0.83	135	255
H563622	299	229	1.0	1.00	8	280	< 0.5	< 2	1.57	< 0.5	8	86	2240	0.90	< 10	< 1	0.52	10	0.51	110	188
H563623	299	229	1.6	1.30	12	180	< 0.5	< 2	1.40	< 0.5	11	84	5390	1.53	< 10	< 1	0.61	20	1.01	105	474
H563624	299	229	1.4	1.15	8	170	< 0.5	< 2	2.06	< 0.5	10	110	4730	1.34	< 10	< 1	0.55	< 10	0.89	105	444
H563625	299	229	0.8	1.10	8	190	< 0.5	< 2	2.20	< 0.5	9	116	2560	1.14	< 10	< 1	0.48	< 10	0.73	110	438
H563626	299	229	2.2	1.23	6	170	< 0.5	< 2	2.89	0.5	10	105	6800	1.41	< 10	< 1	0.51	< 10	0.78	145	374
H563627	299	229	0.6	2.00	12	450	< 0.5	< 2	1.90	0.5	8	87	1945	1.95	< 10	< 1	0.88	10	1.24	130	226
H563628	299	229	< 0.2	1.74	4	410	< 0.5	< 2	1.96	< 0.5	8	86	1670	2.57	10	< 1	0.74	< 10	1.34	135	63
H563629	299	229	0.8	2.08	2	490	< 0.5	< 2	3.67	< 0.5	10	74	822	2.76	< 10	< 1	0.42	< 10	1.03	255	26
H563630	299	229	0.8	1.89	14	440	< 0.5	< 2	4.31	< 0.5	11	164	1780	2.09	< 10	< 1	0.84	< 10	1.26	300	115
H563631	299	229	0.6	1.73	18	460	< 0.5	< 2	4.03	< 0.5	11	157	1630	2.15	< 10	< 1	0.73	< 10	1.27	320	193
H563632	299	229	0.8	1.33	4	360	< 0.5	< 2	2.26	< 0.5	9	80	2460	1.83	< 10	< 1	0.61	< 10	1.04	185	416
H563633	299	229	0.6	1.37	2	200	< 0.5	< 2	2.29	< 0.5	13	72	2220	1.52	< 10	< 1	0.61	< 10	0.88	120	279
H563634	299	229	1.4	1.09	8	210	< 0.5	< 2	4.01	< 0.5	12	87	2980	2.86	< 10	< 1	0.31	< 10	0.81	220	259
H563635	299	229	1.8	1.25	4	200	< 0.5	< 2	1.85	< 0.5	11	109	3690	1.73	10	< 1	0.57	10	1.05	155	432
H563636	299	229	0.8	1.09	6	170	< 0.5	< 2	2.09	< 0.5	13	87	2250	1.77	< 10	< 1	0.47	< 10	1.01	120	391
H563637	299	229	0.8	1.57	6	400	< 0.5	< 2	2.08	< 0.5	6	76	2600	2.00	10	< 1	0.71	< 10	1.28	160	388
H563638	299	229	2.0	2.19	20	500	< 0.5	< 2	2.36	0.5	9	49	2810	3.12	< 10	< 1	1.15	< 10	1.56	205	198
H563639	299	229	0.6	2.52	< 2	270	< 0.5	< 2	1.91	< 0.5	12	63	3630	3.43	10	< 1	1.32	< 10	1.72	135	155
H563640	299	229	1.6	1.01	12	150	< 0.5	2	1.86	< 0.5	8	64	2520	2.36	< 10	< 1	0.43	< 10	0.80	240	294
H563641	299	229	3.0	0.50	22	60	< 0.5	< 2	2.22	< 0.5	13	57	4190	2.66	< 10	< 1	0.26	< 10	0.79	1610	543
H563642	299	229	1.0	0.95	6	210	< 0.5	< 2	2.49	< 0.5	12	56	2560	2.44	< 10	< 1	0.34	< 10	0.91	250	417
H563643	299	229	0.8	1.88	16	410	< 0.5	< 2	2.54	< 0.5	10	34	2480	3.15	10	< 1	0.91	< 10	1.31	160	130
H563644	299	229	1.0	1.49	< 2	250	< 0.5	< 2	2.00	< 0.5	10	63	2730	2.23	10	< 1	0.67	10	1.09	130	418
H563645	299	229	14.0	0.62	276	110	< 0.5	< 2	2.41	9.0	8	66	2900	2.19	< 10	< 1	0.21	< 10	0.88	1290	302
H563646	299	229	63.0	0.51	456	90	< 0.5	< 2	3.48	>100.0	12	67	2710	2.35	< 10	< 1	0.18	< 10	0.92	1785	331
H563647	299	229	5.0	0.70	44	100	< 0.5	< 2	2.50	5.0	11	50	3210	1.92	< 10	< 1	0.21	< 10	0.68	415	537
H563648	299	229	4.0	0.75	44	30	< 0.5	14	2.19	0.5	10	72	2820	3.89	< 10	< 1	0.25	< 10	0.69	265	505
H563649	299	229	2.2	0.77	34	220	< 0.5	< 2	2.53	< 0.5	11	62	3480	1.97	< 10	< 1	0.17	< 10	0.72	270	631
H563650	299	229	1.8	0.76	44	180	< 0.5	< 2	2.81	< 0.5	9	64	3570	2.16	< 10	< 1	0.18	< 10	0.86	315	629

CERTIFICATION: David B. Chilton

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 123
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : I9314337
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314337

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563611	299	229	0.03	13	470	2	2	7	158	0.06	< 10	< 10	48	< 10	58
H563612	299	229	0.06	8	820	40	24	11	157	0.08	< 10	< 10	69	< 10	126
H563613	299	229	0.03	8	680	4	2	8	178	0.06	< 10	< 10	49	< 10	48
H563614	299	229	0.03	10	500	12	4	6	86	0.02	< 10	< 10	28	< 10	68
H563615	299	229	0.03	8	670	6	2	8	80	0.03	< 10	< 10	46	< 10	32
H563616	299	229	0.04	6	480	6	2	6	93	0.01	< 10	< 10	33	< 10	18
H563617	299	229	0.03	7	510	8	4	4	79	0.01	< 10	< 10	20	< 10	52
H563618	299	229	0.03	11	740	16	2	5	95	0.02	< 10	< 10	32	< 10	54
H563619	299	229	0.05	15	730	4	< 2	6	164	0.04	< 10	< 10	48	< 10	48
H563620	299	229	0.06	16	750	2	< 2	7	168	0.06	< 10	< 10	51	< 10	36
H563621	299	229	0.06	10	620	6	< 2	5	73	0.03	< 10	< 10	34	< 10	48
H563622	299	229	0.03	6	570	8	< 2	5	64	0.01	< 10	< 10	26	< 10	26
H563623	299	229	0.03	11	530	8	2	7	52	0.03	< 10	< 10	42	< 10	44
H563624	299	229	0.04	10	490	12	2	7	72	0.03	< 10	< 10	39	< 10	40
H563625	299	229	0.03	8	570	12	2	6	116	0.02	< 10	< 10	31	< 10	40
H563626	299	229	0.03	11	530	12	2	7	108	0.02	< 10	< 10	37	< 10	54
H563627	299	229	0.04	9	950	20	2	11	233	0.09	< 10	< 10	75	< 10	74
H563628	299	229	0.06	14	810	10	< 2	9	1770	0.10	< 10	< 10	72	< 10	46
H563629	299	229	0.04	17	1540	10	< 2	7	264	0.02	< 10	< 10	41	< 10	72
H563630	299	229	0.04	21	1020	8	< 2	10	141	0.03	< 10	< 10	53	< 10	62
H563631	299	229	0.04	27	850	6	< 2	9	134	0.03	< 10	< 10	45	< 10	60
H563632	299	229	0.03	7	740	4	2	8	100	0.06	< 10	< 10	55	< 10	40
H563633	299	229	0.02	7	820	8	2	5	48	0.02	< 10	< 10	39	< 10	32
H563634	299	229	0.01	10	650	30	2	4	63	< 0.01	< 10	< 10	28	< 10	62
H563635	299	229	0.02	10	420	8	2	8	38	0.04	< 10	< 10	45	< 10	50
H563636	299	229	0.02	7	540	10	2	8	134	0.03	< 10	< 10	42	< 10	34
H563637	299	229	0.03	8	820	14	4	11	161	0.07	< 10	< 10	64	< 10	44
H563638	299	229	0.04	11	970	34	2	17	87	0.15	< 10	< 10	110	< 10	82
H563639	299	229	0.11	10	940	< 2	< 2	16	214	0.20	< 10	< 10	107	< 10	40
H563640	299	229	0.02	7	490	8	2	6	52	0.02	< 10	< 10	32	< 10	32
H563641	299	229	0.01	8	510	22	18	5	30	< 0.01	< 10	< 10	15	< 10	58
H563642	299	229	0.01	8	560	6	4	11	36	0.03	< 10	< 10	48	< 10	32
H563643	299	229	0.03	4	1000	28	4	14	129	0.13	< 10	< 10	98	< 10	66
H563644	299	229	0.02	7	650	< 2	2	11	156	0.07	< 10	< 10	74	< 10	30
H563645	299	229	0.01	9	550	214	170	8	41	< 0.01	< 10	< 10	34	< 10	432
H563646	299	229	0.01	7	420	2190	558	5	30	< 0.01	< 10	< 10	20	10	9600
H563647	299	229	< 0.01	11	530	174	22	7	34	< 0.01	< 10	< 10	27	< 10	302
H563648	299	229	0.01	8	620	12	12	7	29	< 0.01	< 10	< 10	22	< 10	76
H563649	299	229	< 0.01	7	790	6	48	10	34	< 0.01	< 10	< 10	30	< 10	56
H563650	299	229	0.01	6	820	12	42	10	33	< 0.01	< 10	< 10	31	< 10	50

CERTIFICATION: David Chiddle

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): ARCHER CATHRO & ASSOC. (1981) LTD.
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V6B 1L8

Project : CASINO 123
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : I9314337
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314337

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563651	299	229	2.2	0.54	32	290	< 0.5	< 2	2.69	< 0.5	11	32	2630	2.64	< 10	< 1	0.13	< 10	0.84	400	314
H563652	299	229	2.8	0.36	92	160	< 0.5	< 2	2.00	< 0.5	8	51	2200	2.06	< 10	< 1	0.10	< 10	0.65	540	404
H563653	299	229	2.6	0.36	54	150	< 0.5	< 2	1.96	0.5	10	43	2520	1.85	< 10	< 1	0.14	< 10	0.68	470	448
H563654	299	229	9.2	0.34	628	40	< 0.5	< 2	2.50	4.5	12	60	3600	3.53	< 10	< 1	0.14	< 10	0.86	2280	424
H563655	299	229	31.4	0.32	882	40	< 0.5	< 2	2.68	4.5	13	58	3840	2.85	< 10	< 1	0.18	< 10	0.93	2930	336
H563656	299	229	41.2	0.40	1365	30	< 0.5	< 2	2.59	24.5	11	61	4290	3.28	< 10	< 1	0.17	< 10	0.91	2540	392
H563657	299	229	65.2	0.37	2220	10	< 0.5	28	1.58	10.5	7	55	7300	6.16	< 10	< 1	0.15	< 10	0.40	810	433
H563658	299	229	13.0	0.42	494	60	< 0.5	4	1.50	5.5	12	76	4280	3.08	< 10	< 1	0.16	< 10	0.58	1190	395
H563659	299	229	7.8	0.43	108	190	< 0.5	2	1.78	5.0	9	69	2240	1.98	< 10	< 1	0.15	< 10	0.69	540	317
H563660	299	229	4.4	0.42	96	130	< 0.5	< 2	2.34	< 0.5	8	47	3290	2.22	< 10	< 1	0.15	< 10	0.68	345	388
H563661	299	229	2.2	0.69	48	350	< 0.5	< 2	1.69	< 0.5	15	39	3250	1.81	< 10	< 1	0.10	10	0.54	375	438
H563662	299	229	2.0	0.50	42	430	0.5	< 2	1.59	0.5	9	26	2780	1.60	< 10	< 1	0.08	20	0.45	185	449
H563663	299	229	1.6	0.83	28	280	0.5	< 2	1.96	< 0.5	10	33	3250	2.04	< 10	< 1	0.08	10	0.60	240	302
H563664	299	229	1.8	0.70	22	210	< 0.5	< 2	1.47	< 0.5	15	31	3050	2.01	< 10	< 1	0.11	10	0.47	195	273
H563665	299	229	29.8	0.83	210	80	0.5	4	2.13	30.5	11	43	2450	2.80	< 10	< 1	0.11	< 10	0.74	960	182
H563666	299	229	12.6	0.50	230	20	0.5	18	2.24	7.5	6	68	1655	3.46	< 10	< 1	0.16	< 10	0.76	665	164
H563667	299	229	2.8	0.86	26	230	< 0.5	< 2	1.89	< 0.5	12	55	3560	2.20	< 10	< 1	0.14	20	0.52	200	194
H563668	299	229	1.4	0.69	20	400	< 0.5	< 2	2.32	< 0.5	7	53	1815	1.74	< 10	< 1	0.09	< 10	0.88	180	180
H563669	299	229	1.4	0.58	44	340	< 0.5	< 2	2.00	< 0.5	8	36	2320	1.38	< 10	< 1	0.08	< 10	0.72	170	171
H563670	299	229	1.8	0.49	72	300	< 0.5	< 2	1.71	0.5	9	33	2520	1.08	< 10	< 1	0.07	< 10	0.63	115	156
H563671	299	229	1.6	0.51	122	460	< 0.5	< 2	2.51	< 0.5	6	28	1955	1.15	< 10	< 1	0.09	< 10	1.00	220	207
H563672	299	229	1.8	0.59	30	340	< 0.5	< 2	2.75	< 0.5	8	40	2560	1.35	< 10	< 1	0.09	< 10	1.03	155	196
H563673	299	229	1.2	0.52	44	670	< 0.5	< 2	1.96	< 0.5	5	36	1630	0.93	< 10	< 1	0.08	< 10	0.75	110	200
H563674	299	229	2.0	0.53	80	310	< 0.5	< 2	2.14	0.5	8	36	2850	1.28	< 10	< 1	0.09	< 10	0.80	140	201
H563675	299	229	2.0	0.50	132	360	< 0.5	< 2	1.81	< 0.5	7	54	2520	1.11	< 10	< 1	0.10	< 10	0.65	170	229
H563676	299	229	4.6	0.55	242	140	< 0.5	< 2	1.89	< 0.5	7	44	3610	1.68	< 10	< 1	0.13	< 10	0.73	240	275
H563677	299	229	3.2	0.47	210	280	< 0.5	< 2	1.96	< 0.5	6	51	4300	1.17	< 10	< 1	0.12	< 10	0.76	205	328
H563678	299	229	2.2	0.50	116	290	< 0.5	< 2	2.17	< 0.5	7	58	3770	1.25	< 10	< 1	0.10	< 10	0.87	140	206
H563679	299	229	2.2	0.46	48	300	< 0.5	< 2	2.21	< 0.5	7	43	3770	1.42	< 10	< 1	0.09	< 10	0.86	140	228
H563680	299	229	3.2	0.54	130	180	< 0.5	< 2	3.08	1.0	9	46	1840	1.53	< 10	< 1	0.12	< 10	0.80	370	152
H563681	299	229	1.8	0.66	60	470	< 0.5	< 2	2.08	< 0.5	6	56	2360	1.15	< 10	< 1	0.11	< 10	0.81	170	160
H563682	299	229	2.2	0.62	76	450	< 0.5	< 2	1.87	< 0.5	5	79	2830	1.01	< 10	< 1	0.13	< 10	0.74	145	236
H563683	299	229	2.0	0.63	26	350	< 0.5	< 2	1.55	0.5	7	78	2120	1.17	< 10	< 1	0.13	< 10	0.54	190	220
H563684	299	229	3.0	0.57	54	340	< 0.5	< 2	1.83	2.0	6	81	3360	1.28	< 10	< 1	0.16	< 10	0.60	175	220
H563685	299	229	2.2	0.68	94	340	< 0.5	< 2	1.46	0.5	7	44	1900	1.74	< 10	< 1	0.11	< 10	0.60	165	48
H563686	299	229	1.8	0.84	90	160	< 0.5	< 2	2.40	< 0.5	10	47	1590	2.62	< 10	< 1	0.13	< 10	0.92	210	42
H563687	299	229	1.8	1.24	18	370	< 0.5	< 2	1.98	< 0.5	10	69	2670	2.44	10	< 1	0.39	< 10	1.18	145	96
H563688	299	229	1.8	1.13	4	110	< 0.5	< 2	1.51	< 0.5	13	92	2540	2.49	10	< 1	0.40	< 10	1.17	120	75
H563689	299	229	1.2	1.04	12	140	< 0.5	< 2	1.56	< 0.5	11	89	2700	2.82	< 10	< 1	0.44	< 10	1.09	135	79
H563690	299	229	1.2	1.05	6	130	< 0.5	< 2	1.59	< 0.5	11	101	2310	2.61	10	< 1	0.49	< 10	1.03	115	33

CERTIFICATION: Ivan Bichler

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CERTIFICATE OF ANALYSIS A9314337

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A563651	299	229	< 0.01	6	1080	12	20	11	43	< 0.01	< 10	< 10	42	< 10	64
A563652	299	229	< 0.01	6	690	16	36	9	28	< 0.01	< 10	< 10	27	< 10	82
A563653	299	229	< 0.01	7	530	14	12	8	32	< 0.01	< 10	< 10	29	< 10	66
A563654	299	229	0.01	10	610	358	136	6	22	< 0.01	< 10	< 10	20	< 10	308
A563655	299	229	< 0.01	8	580	180	220	2	31	< 0.01	< 10	< 10	4	< 10	298
A563656	299	229	< 0.01	7	550	580	170	3	28	< 0.01	< 10	< 10	9	< 10	1290
A563657	299	229	< 0.01	7	340	412	262	4	13	< 0.01	< 10	< 10	11	< 10	588
A563658	299	229	< 0.01	11	440	132	98	6	23	< 0.01	< 10	< 10	19	< 10	358
A563659	299	229	0.01	8	440	110	34	6	28	< 0.01	< 10	< 10	22	< 10	284
A563660	299	229	< 0.01	21	490	16	28	6	24	< 0.01	< 10	< 10	25	< 10	54
A563661	299	229	< 0.01	7	660	14	20	10	31	< 0.01	< 10	< 10	40	< 10	46
A563662	299	229	< 0.01	6	650	48	38	10	31	< 0.01	< 10	< 10	30	< 10	70
A563663	299	229	< 0.01	6	670	14	6	12	23	< 0.01	< 10	< 10	50	< 10	40
A563664	299	229	< 0.01	6	750	12	4	9	18	< 0.01	< 10	< 10	40	< 10	40
A563665	299	229	< 0.01	4	770	1580	158	9	22	< 0.01	< 10	< 10	33	< 10	1390
A563666	299	229	< 0.01	3	560	156	68	4	21	< 0.01	< 10	< 10	23	< 10	430
A563667	299	229	0.01	7	740	14	4	9	23	< 0.01	< 10	< 10	42	< 10	52
A563668	299	229	< 0.01	4	590	12	4	8	24	< 0.01	< 10	< 10	34	< 10	36
A563669	299	229	< 0.01	6	850	16	12	9	22	< 0.01	< 10	< 10	34	< 10	36
A563670	299	229	< 0.01	4	710	28	14	9	21	< 0.01	< 10	< 10	26	< 10	52
A563671	299	229	< 0.01	3	630	16	36	7	27	< 0.01	< 10	< 10	23	< 10	40
A563672	299	229	< 0.01	4	610	26	2	9	27	< 0.01	< 10	< 10	32	< 10	44
A563673	299	229	< 0.01	3	480	20	4	6	28	< 0.01	< 10	< 10	20	< 10	28
A563674	299	229	< 0.01	4	530	32	10	6	25	< 0.01	< 10	< 10	24	< 10	74
A563675	299	229	< 0.01	4	450	26	46	6	22	< 0.01	< 10	< 10	18	< 10	54
A563676	299	229	0.01	5	490	48	48	6	23	< 0.01	< 10	< 10	18	< 10	80
A563677	299	229	< 0.01	4	430	26	30	4	23	< 0.01	< 10	< 10	18	< 10	50
A563678	299	229	< 0.01	4	400	16	8	5	26	< 0.01	< 10	< 10	23	< 10	36
A563679	299	229	0.01	3	370	18	4	4	25	< 0.01	< 10	< 10	21	< 10	38
A563680	299	229	< 0.01	3	540	60	12	7	29	< 0.01	< 10	< 10	21	< 10	116
A563681	299	229	< 0.01	3	390	24	4	5	27	< 0.01	< 10	< 10	20	< 10	34
A563682	299	229	0.01	4	390	24	8	4	25	< 0.01	< 10	< 10	17	< 10	44
A563683	299	229	0.01	4	490	26	8	7	21	< 0.01	< 10	< 10	24	< 10	54
A563684	299	229	0.01	6	320	60	28	6	35	< 0.01	< 10	< 10	29	< 10	184
A563685	299	229	< 0.01	9	550	30	22	4	20	< 0.01	< 10	< 10	24	< 10	66
A563686	299	229	< 0.01	16	700	20	20	6	27	< 0.01	< 10	< 10	34	< 10	64
A563687	299	229	0.03	14	700	8	2	6	250	0.05	< 10	< 10	42	< 10	50
A563688	299	229	0.05	14	770	6	< 2	5	278	0.05	< 10	< 10	46	< 10	42
A563689	299	229	0.06	15	780	2	2	7	206	0.07	< 10	< 10	50	< 10	38
A563690	299	229	0.06	15	750	2	< 2	7	169	0.07	< 10	< 10	50	< 10	34

CERTIFICATION: Ivan Bruchler

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Project : CASINO 123
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9314337

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563691	299	229	1.2	1.20	6	130	< 0.5	< 2	2.16	< 0.5	12	88	2030	2.61	10	< 1	0.51	< 10	1.12	135	66
H563692	299	229	1.6	1.22	20	210	< 0.5	< 2	1.92	< 0.5	9	84	1715	2.55	10	< 1	0.44	< 10	1.06	140	64
H563693	299	229	0.6	0.97	24	800	< 0.5	< 2	2.16	< 0.5	4	57	651	1.27	< 10	< 1	0.06	< 10	0.76	215	213
H563694	299	229	2.0	0.73	74	500	< 0.5	2	0.99	< 0.5	5	63	1010	0.70	< 10	< 1	0.09	10	0.40	125	457
H563695	299	229	0.4	0.67	48	910	< 0.5	< 2	3.00	< 0.5	6	34	566	1.29	< 10	< 1	0.04	< 10	1.20	270	114
H563696	299	229	0.4	0.55	54	940	< 0.5	< 2	2.48	< 0.5	5	31	531	1.19	< 10	< 1	0.05	< 10	1.00	245	155
H563697	299	229	0.8	0.67	50	620	< 0.5	< 2	1.93	< 0.5	4	31	992	0.86	< 10	< 1	0.06	< 10	0.78	180	197
H563698	299	229	1.4	1.27	38	160	< 0.5	< 2	2.11	< 0.5	6	69	832	2.24	< 10	< 1	0.42	< 10	0.92	360	248
H563699	299	229	1.4	1.40	< 2	170	< 0.5	< 2	2.36	< 0.5	6	86	1215	1.32	< 10	< 1	0.47	< 10	0.82	110	702

CERTIFICATION: Stewart Bradshaw

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563691	299	229	0.06	14	840	6	2	7	604	0.07	< 10	< 10	49	< 10	46
H563692	299	229	0.04	14	830	4	< 2	7	242	0.06	< 10	< 10	45	< 10	38
H563693	299	229	< 0.01	5	480	14	4	8	35	< 0.01	< 10	< 10	22	< 10	40
H563694	299	229	< 0.01	4	530	16	22	5	24	< 0.01	< 10	< 10	5	< 10	40
H563695	299	229	< 0.01	3	590	16	4	10	35	< 0.01	< 10	< 10	24	< 10	28
H563696	299	229	< 0.01	3	570	14	4	7	34	< 0.01	< 10	< 10	20	< 10	24
H563697	299	229	< 0.01	3	230	16	4	7	40	< 0.01	< 10	< 10	13	< 10	28
H563698	299	229	0.02	4	460	12	4	9	338	0.06	< 10	< 10	44	< 10	34
H563699	299	229	0.02	3	330	6	2	8	81	0.04	< 10	< 10	39	< 10	24

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563700	208	274	0.49	0.047	0.58	3000						
H563701	208	276	0.52	0.030	0.41	7500						
H563702	208	274	0.61	0.066	0.65	7020						
H563703	208	274	0.63	0.063	0.62	5900						
H563704	208	274	0.16	0.032	0.17	6500						
H563705	208	274	0.16	0.009	0.10	7100						
H563706	208	274	0.27	0.042	0.24	7220						
H563707	208	274	0.20	0.022	0.17	6640						
H563708	208	274	0.67	0.078	0.48	6680						
H563709	208	276	0.54	0.083	0.51	7280						
H563710	208	274	0.44	0.092	0.45	6980						
H563711	208	274	0.54	0.078	0.69	6700						
H563712	208	274	0.42	0.140	0.48	6740						
H563713	208	274	0.71	0.102	0.75	7260						
H563714	208	274	0.46	0.163	0.55	6860						
H563715	208	274	0.38	0.100	0.48	6680						
H563716	208	274	0.57	0.136	0.79	7040						
H563717	208	274	0.47	0.172	0.34	6440						
H563718	208	276	0.67	0.166	0.79	7360						
H563719	208	274	0.57	0.110	0.65	6420						
H563720	208	274	0.25	0.097	0.27	6240						
H563721	208	274	0.34	0.099	0.34	5640						
H563722	208	274	0.37	0.075	0.38	6400						
H563723	208	274	0.37	0.061	0.45	6700						
H563724	208	276	0.34	0.103	0.31	7460						
H563725	208	274	0.33	0.083	0.38	7060						
H563726	208	274	0.54	0.059	0.55	6960						
H563727	208	274	0.81	0.079	1.17	7240						
H563728	208	274	0.45	0.043	0.51	6920						
H563729	208	274	0.55	0.027	0.62	6980						
H563730	208	274	0.49	0.034	0.58	6500						
H563731	208	276	0.25	0.062	0.24	7640						
H563732	208	274	0.26	0.093	0.21	7120						
H563733	208	274	0.42	0.193	0.69	7200						
H563734	208	276	0.36	0.159	0.38	7320						
H563735	208	274	0.37	0.057	0.65	7180						
H563736	208	274	0.42	0.042	0.41	7020						
H563737	208	274	0.25	0.046	0.31	6800						
H563738	208	274	0.32	0.051	0.41	6680						
H563739	208	274	0.36	0.042	0.45	6720						

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Project : CASINO 124
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CERTIFICATE OF ANALYSIS A9314509

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H563740	208 274	0.35	0.079	0.38	6780
H563741	208 274	0.33	0.081	0.27	6740
H563742	208 274	0.29	0.074	0.38	6560
H563743	208 274	0.32	0.054	0.31	6500
H563744	208 274	0.24	0.031	0.24	6620
H563745	208 274	0.33	0.043	0.34	6520
H563746	208 274	0.26	0.056	0.31	6420
H563747	208 274	0.18	0.045	0.17	6920
H563748	208 274	0.46	0.045	0.79	7240
H563749	208 276	0.23	0.069	0.21	7340
H563750	208 276	0.35	0.043	0.51	7280
H563751	208 276	0.42	0.052	0.51	7520
H563752	208 276	0.28	0.212	0.31	7320
H563753	208 276	0.18	0.071	0.24	7680
H563754	208 274	0.19	0.065	0.48	7140
H563755	208 274	0.08	0.043	0.14	6840
H563756	208 274	0.24	0.059	0.27	6460
H563757	208 274	0.20	0.020	0.21	7120
H563758	208 276	0.31	0.053	0.31	7280
H563759	208 274	0.28	0.070	0.27	6720
H563760	208 274	0.39	0.104	0.82	6680
H563761	208 274	0.18	0.075	0.17	6690
H563762	208 274	0.26	0.061	0.31	6900
H563763	208 274	0.29	0.081	0.31	6600
H563764	208 274	0.25	0.063	0.24	7120
H563765	208 274	0.37	0.047	0.34	6980
H563766	208 274	0.27	0.062	0.34	7040
H563767	208 274	0.50	0.062	0.41	7120
H563768	208 274	0.14	0.051	0.14	6980
H563769	208 274	0.22	0.030	0.21	7040
H563770	208 274	0.31	0.048	0.34	7000
H563771	208 274	0.18	0.089	0.27	7160
H563772	208 274	0.15	0.027	0.17	6770
H563773	208 274	0.08	0.007	0.10	6820
H563774	208 276	0.10	0.024	0.10	7420
H563775	208 274	0.19	0.028	0.24	6840
H563776	208 274	0.47	0.052	0.69	7180
H563777	208 274	0.29	0.028	0.31	6180
H563778	208 274	0.22	0.042	0.31	6940
H563779	208 274	0.08	0.032	0.10	6560

CERTIFICATION: Saeed Zeinab

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563780	208	274	0.14	0.032	0.17	6900						
H563781	208	274	0.29	0.038	0.41	6740						
H563782	208	274	0.25	0.043	0.48	6400						
H563783	208	274	0.22	0.016	0.24	6420						
H563784	208	274	0.14	0.022	0.21	5880						
H563785	208	274	0.13	0.054	0.21	6980						
H563786	208	276	0.20	0.025	0.21	7880						
H563787	208	276	0.25	0.015	0.24	7800						
H563788	208	276	0.31	0.019	0.31	7460						
H563789	208	274	0.39	0.017	0.31	6980						
H563790	208	274	0.20	0.054	0.21	7040						
H563791	208	274	0.19	0.058	0.17	7080						
H563792	208	274	0.23	0.031	0.34	7120						
H563793	208	276	0.10	0.026	0.14	7500						
H563794	208	276	0.07	0.002	0.10	7520						
H563795	208	276	0.14	0.033	0.17	7480						
H563796	208	276	0.11	0.006	0.21	7490						
H563797	208	274	0.12	0.009	0.14	6960						
H563798	208	276	0.19	0.024	0.27	7360						
H563799	208	274	0.05	0.009	0.07	3280						

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CERTIFICATE OF ANALYSIS A9314510

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563700	299	229	2.2	0.71	36	120	0.5	6	1.27	< 0.5	15	40	5030	1.69	< 10	1	0.13	30	0.17	70	285
H563701	299	229	1.8	0.93	14	170	0.5	12	2.02	< 0.5	11	43	4840	1.74	< 10	< 1	0.19	30	0.61	115	168
H563702	299	229	1.8	2.49	< 2	310	1.0	18	2.25	< 0.5	14	52	5620	2.37	10	< 1	1.03	20	1.99	135	346
H563703	299	229	2.0	2.32	20	250	1.0	18	1.53	< 0.5	15	45	6050	2.26	10	< 1	0.92	30	2.04	135	358
H563704	299	229	0.6	1.69	< 2	270	1.0	< 2	1.40	< 0.5	9	88	1560	2.55	10	< 1	0.41	20	1.35	130	186
H563705	299	229	0.6	1.58	2	240	1.0	6	2.30	< 0.5	12	63	1655	2.65	10	< 1	0.34	20	1.00	165	53
H563706	299	229	1.8	0.88	10	120	0.5	8	1.89	< 0.5	8	73	2720	2.15	< 10	< 1	0.40	20	0.57	135	258
H563707	299	229	0.6	1.28	14	430	0.5	4	2.49	< 0.5	9	42	1970	1.37	< 10	< 1	0.56	20	0.93	125	133
H563708	299	229	1.6	1.99	8	330	1.0	16	3.08	< 0.5	12	54	6100	2.02	10	< 1	0.95	30	1.59	140	428
H563709	299	229	2.0	0.94	32	140	1.0	14	2.77	< 0.5	14	67	5250	1.99	< 10	< 1	0.46	30	1.26	130	490
H563710	299	229	1.4	1.28	< 2	280	0.5	4	2.90	0.5	11	72	4230	1.65	< 10	1	0.63	30	1.22	105	536
H563711	299	229	1.6	1.58	16	240	1.0	14	2.43	< 0.5	8	44	5240	1.62	< 10	< 1	0.69	30	1.43	100	462
H563712	299	229	1.8	0.80	22	190	0.5	8	2.46	< 0.5	8	75	4080	1.29	< 10	< 1	0.34	30	0.99	130	837
H563713	299	229	2.0	0.80	16	220	0.5	12	2.82	< 0.5	10	55	6620	1.49	< 10	< 1	0.34	20	1.04	95	580
H563714	299	229	2.0	1.05	20	270	0.5	8	2.83	< 0.5	9	61	4450	1.45	< 10	< 1	0.52	30	1.03	125	944
H563715	299	229	1.4	1.59	12	490	1.0	10	2.20	< 0.5	10	34	3500	2.01	< 10	< 1	0.89	20	1.27	130	539
H563716	299	229	2.0	0.61	16	200	0.5	6	1.61	< 0.5	12	57	5500	1.38	< 10	< 1	0.29	30	0.71	95	820
H563717	299	229	2.6	0.37	66	130	0.5	10	1.44	< 0.5	14	56	4620	1.55	< 10	< 1	0.23	20	0.47	110	1055
H563718	299	229	2.6	0.67	76	210	0.5	12	1.46	1.0	11	76	6550	1.56	< 10	< 1	0.41	30	0.85	275	1005
H563719	299	229	1.6	1.36	20	240	1.0	12	1.82	< 0.5	9	49	5240	1.65	< 10	< 1	0.66	20	1.20	90	626
H563720	299	229	1.2	1.10	12	140	0.5	< 2	2.10	< 0.5	7	77	2470	1.23	< 10	< 1	0.44	30	0.90	115	588
H563721	299	229	1.8	0.62	8	40	< 0.5	6	1.82	1.0	10	72	3480	1.31	< 10	< 1	0.18	30	0.54	160	631
H563722	299	229	1.6	0.57	< 2	70	< 0.5	8	1.67	< 0.5	10	53	3610	1.32	< 10	< 1	0.25	20	0.70	95	445
H563723	299	229	1.4	0.47	22	210	< 0.5	10	1.76	< 0.5	17	65	3630	1.25	< 10	< 1	0.22	30	0.62	100	374
H563724	299	229	1.2	0.50	14	270	< 0.5	12	1.74	< 0.5	13	74	3490	1.30	< 10	< 1	0.22	20	0.66	100	633
H563725	299	229	1.2	0.57	8	330	< 0.5	2	1.92	< 0.5	7	59	3190	0.94	< 10	< 1	0.30	30	0.74	90	493
H563726	299	229	2.2	0.45	14	170	< 0.5	8	1.72	0.5	13	61	5210	1.34	< 10	< 1	0.21	20	0.60	130	363
H563727	299	229	2.6	0.41	38	220	< 0.5	12	2.07	< 0.5	9	55	7670	1.34	< 10	< 1	0.15	20	0.86	95	474
H563728	299	229	1.6	0.43	16	280	< 0.5	6	2.21	< 0.5	10	68	4600	1.08	< 10	< 1	0.19	30	0.83	105	272
H563729	299	229	1.6	0.41	24	180	< 0.5	12	2.23	< 0.5	7	57	5320	1.12	< 10	< 1	0.16	20	0.72	100	155
H563730	299	229	1.8	0.60	16	330	< 0.5	6	2.46	< 0.5	9	71	4790	1.13	< 10	< 1	0.23	30	0.89	100	210
H563731	299	229	1.2	0.56	18	350	< 0.5	< 2	2.25	< 0.5	10	68	2620	1.06	< 10	< 1	0.21	30	0.85	130	372
H563732	299	229	1.2	0.45	28	100	< 0.5	2	2.08	< 0.5	10	70	2550	0.91	< 10	< 1	0.18	30	0.86	130	546
H563733	299	229	2.0	0.46	40	350	< 0.5	16	2.29	< 0.5	8	49	4280	1.10	< 10	< 1	0.16	30	0.80	130	1280
H563734	299	229	1.6	0.53	58	370	< 0.5	6	2.06	< 0.5	12	50	3580	1.08	< 10	< 1	0.16	20	0.74	135	1005
H563735	299	229	2.2	0.61	64	260	< 0.5	6	2.67	0.5	12	33	3700	1.38	< 10	< 1	0.11	20	1.03	170	335
H563736	299	229	2.6	0.59	44	280	< 0.5	14	3.00	< 0.5	15	48	4180	1.51	< 10	< 1	0.15	20	1.12	250	248
H563737	299	229	4.4	0.41	22	80	< 0.5	6	2.66	1.0	10	48	2610	3.05	< 10	< 1	0.23	20	0.99	650	261
H563738	299	229	2.2	0.43	18	220	< 0.5	4	2.35	< 0.5	9	59	3160	1.48	< 10	< 1	0.20	30	0.67	205	274
H563739	299	229	2.4	0.66	22	310	< 0.5	12	2.58	0.5	10	39	3510	1.61	< 10	< 1	0.13	20	0.80	285	259

CERTIFICATION: Stuart Buchler

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Certificate Date: 26-MAY-93
Invoice No. :19314510
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314510

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563700	299	229	< 0.01	9	1310	12	22	7	19	< 0.01	< 10	10	24	< 10	28
H563701	299	229	0.01	8	700	4	6	6	41	< 0.01	< 10	< 10	35	< 10	28
H563702	299	229	0.03	8	860	4	8	14	56	0.10	< 10	< 10	122	< 10	28
H563703	299	229	0.03	11	740	4	4	12	60	0.08	< 10	10	101	10	38
H563704	299	229	0.03	13	720	8	2	5	60	0.03	< 10	< 10	52	< 10	30
H563705	299	229	0.02	13	770	< 2	2	4	64	0.01	< 10	< 10	39	< 10	28
H563706	299	229	0.01	4	670	14	4	3	33	0.01	< 10	< 10	28	< 10	22
H563707	299	229	0.01	4	680	6	2	6	85	0.02	< 10	< 10	47	< 10	22
H563708	299	229	0.02	7	710	8	4	12	68	0.08	< 10	10	91	10	26
H563709	299	229	0.01	4	510	12	6	6	36	0.02	< 10	10	41	< 10	30
H563710	299	229	0.02	4	630	8	4	8	53	0.04	< 10	10	58	< 10	26
H563711	299	229	0.02	3	530	6	6	10	68	0.04	< 10	10	70	< 10	28
H563712	299	229	0.01	3	510	8	10	7	28	0.02	< 10	10	41	< 10	30
H563713	299	229	0.01	4	470	8	4	6	33	0.01	< 10	20	37	< 10	32
H563714	299	229	0.01	4	570	14	8	9	39	0.04	< 10	10	58	< 10	42
H563715	299	229	0.03	4	880	< 2	4	12	43	0.13	< 10	< 10	88	< 10	24
H563716	299	229	0.01	6	370	6	6	6	22	0.01	< 10	30	29	< 10	24
H563717	299	229	< 0.01	4	400	12	12	1	18	< 0.01	< 10	10	12	< 10	34
H563718	299	229	0.01	7	340	34	12	5	34	0.01	< 10	20	34	< 10	102
H563719	299	229	0.01	4	540	< 2	6	9	44	0.05	< 10	20	63	< 10	32
H563720	299	229	0.01	4	400	6	6	7	35	0.02	< 10	10	40	< 10	24
H563721	299	229	0.01	9	420	14	8	6	16	< 0.01	< 10	< 10	21	< 10	134
H563722	299	229	0.01	5	420	16	4	7	16	< 0.01	< 10	< 10	33	< 10	26
H563723	299	229	0.01	4	470	16	8	4	19	< 0.01	< 10	< 10	18	< 10	28
H563724	299	229	0.01	3	480	14	6	4	23	< 0.01	< 10	10	18	< 10	22
H563725	299	229	0.01	3	380	4	4	4	24	< 0.01	< 10	< 10	24	< 10	16
H563726	299	229	0.01	7	420	22	6	3	19	< 0.01	< 10	< 10	15	< 10	58
H563727	299	229	0.01	6	360	12	4	4	20	< 0.01	< 10	< 10	20	< 10	20
H563728	299	229	0.01	6	440	14	2	4	22	< 0.01	< 10	10	15	< 10	26
H563729	299	229	0.01	6	460	16	2	6	22	< 0.01	< 10	10	16	< 10	34
H563730	299	229	0.01	4	330	16	2	4	25	< 0.01	< 10	10	18	< 10	26
H563731	299	229	0.01	3	580	6	6	3	26	< 0.01	< 10	< 10	16	< 10	20
H563732	299	229	0.01	2	540	14	8	1	17	< 0.01	< 10	< 10	9	< 10	30
H563733	299	229	0.01	2	520	12	16	4	27	< 0.01	< 10	10	21	< 10	32
H563734	299	229	< 0.01	2	670	14	22	3	22	< 0.01	< 10	20	16	< 10	36
H563735	299	229	< 0.01	3	740	32	8	6	28	< 0.01	< 10	20	22	< 10	62
H563736	299	229	0.01	7	910	36	6	7	29	< 0.01	< 10	10	25	< 10	72
H563737	299	229	0.01	4	670	154	4	4	21	< 0.01	< 10	10	20	10	132
H563738	299	229	< 0.01	2	660	12	6	4	23	< 0.01	< 10	< 10	18	< 10	36
H563739	299	229	< 0.01	6	910	14	4	11	26	< 0.01	< 10	< 10	51	< 10	50

CERTIFICATION: Hartt Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 124
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-MAY-93
Invoice No. :I9314510
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314510

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563740	299	229	1.6	0.79	18	180	< 0.5	12	2.06	< 0.5	9	70	3340	1.33	< 10	< 1	0.35	20	0.69	130	457
H563741	299	229	2.0	0.63	2	230	< 0.5	6	1.69	< 0.5	10	62	3190	1.20	< 10	< 1	0.34	20	0.71	85	490
H563742	299	229	1.4	0.49	10	120	< 0.5	14	1.31	< 0.5	11	46	2990	1.20	< 10	< 1	0.33	20	0.61	65	454
H563743	299	229	1.4	0.82	< 2	220	< 0.5	2	1.55	< 0.5	7	63	2960	1.19	< 10	< 1	0.33	20	0.61	95	301
H563744	299	229	1.0	0.86	< 2	150	< 0.5	< 2	1.44	< 0.5	7	100	2410	1.08	< 10	< 1	0.38	20	0.66	75	190
H563745	299	229	1.4	0.97	< 2	360	< 0.5	2	1.32	< 0.5	6	111	3090	1.03	< 10	< 1	0.46	30	0.73	70	248
H563746	299	229	1.2	0.93	< 2	290	< 0.5	6	1.87	< 0.5	7	123	2600	1.08	< 10	< 1	0.44	30	0.78	80	342
H563747	299	229	0.8	1.27	4	300	< 0.5	< 2	1.67	< 0.5	5	119	1795	1.07	< 10	< 1	0.63	30	0.98	80	287
H563748	299	229	2.0	1.22	10	330	0.5	14	2.04	< 0.5	9	121	4460	1.34	< 10	< 1	0.60	30	0.88	95	265
H563749	299	229	1.6	1.10	20	270	0.5	8	2.56	< 0.5	7	103	2140	1.89	< 10	< 1	0.56	30	0.80	270	406
H563750	299	229	1.8	1.26	6	130	0.5	12	2.18	< 0.5	12	75	3210	3.10	< 10	< 1	0.74	30	1.20	220	238
H563751	299	229	1.4	2.28	< 2	270	< 0.5	8	1.93	< 0.5	12	51	3910	2.98	< 10	< 1	1.43	20	1.87	170	279
H563752	299	229	3.6	0.89	94	200	< 0.5	< 2	2.39	< 0.5	9	74	2820	1.67	< 10	< 1	0.25	20	0.91	665	1310
H563753	299	229	0.8	0.75	18	260	< 0.5	4	3.45	< 0.5	7	43	1670	1.68	< 10	< 1	0.42	10	1.27	260	405
H563754	299	229	5.4	0.45	316	30	< 0.5	14	1.63	1.5	6	78	1910	5.77	< 10	< 1	0.21	10	0.54	590	371
H563755	299	229	1.4	0.62	20	70	< 0.5	2	2.34	< 0.5	4	86	775	1.75	< 10	< 1	0.31	20	0.79	310	258
H563756	299	229	1.4	0.67	12	30	< 0.5	2	1.84	< 0.5	6	52	2260	1.16	< 10	< 1	0.39	20	0.91	225	353
H563757	299	229	1.2	1.25	40	120	0.5	6	1.85	< 0.5	5	75	1840	1.47	< 10	< 1	0.61	10	1.12	220	116
H563758	299	229	1.2	0.66	20	250	< 0.5	2	2.98	< 0.5	6	74	3010	1.29	< 10	< 1	0.22	20	1.21	185	324
H563759	299	229	1.4	0.77	4	490	< 0.5	4	1.97	< 0.5	5	76	2730	0.93	< 10	< 1	0.18	20	0.84	100	416
H563760	299	229	2.2	0.65	20	300	< 0.5	6	2.10	< 0.5	10	76	3890	1.24	< 10	< 1	0.16	20	0.91	95	627
H563761	299	229	0.8	0.54	< 2	310	< 0.5	6	2.20	< 0.5	7	52	1720	1.51	< 10	< 1	0.24	20	0.99	140	433
H563762	299	229	1.2	1.79	2	180	0.5	4	1.74	< 0.5	10	69	2490	2.23	10	< 1	0.81	30	1.25	145	353
H563763	299	229	2.0	1.23	10	130	0.5	12	2.47	0.5	9	103	2950	1.66	< 10	< 1	0.51	30	0.91	170	485
H563764	299	229	2.0	1.62	6	180	0.5	< 2	2.17	< 0.5	8	79	2520	1.50	10	< 1	0.67	20	0.98	155	368
H563765	299	229	3.6	1.57	12	220	< 0.5	16	2.20	4.0	9	106	3530	1.65	< 10	< 1	0.77	30	1.20	190	279
H563766	299	229	1.4	1.31	< 2	160	0.5	8	2.59	0.5	7	70	2530	1.43	< 10	< 1	0.80	20	1.15	180	330
H563767	299	229	2.2	1.57	8	320	0.5	16	2.43	< 0.5	11	82	4930	2.26	< 10	< 1	0.96	20	1.43	230	345
H563768	299	229	0.6	1.62	6	630	0.5	4	1.60	< 0.5	6	71	1330	1.78	< 10	< 1	0.95	10	1.23	165	287
H563769	299	229	0.8	0.82	4	200	< 0.5	2	1.78	< 0.5	7	95	2150	0.89	< 10	< 1	0.41	20	0.45	120	168
H563770	299	229	1.8	1.35	< 2	510	0.5	6	1.67	0.5	7	98	3100	1.42	< 10	< 1	0.66	20	0.90	155	286
H563771	299	229	4.6	0.70	50	160	< 0.5	< 2	2.24	12.0	5	102	1775	1.25	< 10	< 1	0.32	20	0.62	275	524
H563772	299	229	5.4	0.65	48	120	< 0.5	2	2.47	23.5	3	82	1480	1.02	< 10	< 1	0.24	10	0.74	235	142
H563773	299	229	1.8	0.46	16	400	< 0.5	2	1.56	2.5	6	98	814	0.80	< 10	< 1	0.24	10	0.39	150	40
H563774	299	229	1.0	0.59	4	160	< 0.5	< 2	1.62	0.5	3	87	959	0.69	< 10	< 1	0.30	20	0.48	135	146
H563775	299	229	1.2	0.90	12	270	< 0.5	6	2.41	12.5	4	105	1770	1.37	< 10	< 1	0.43	10	0.76	125	159
H563776	299	229	2.6	1.05	22	200	< 0.5	14	2.60	0.5	8	70	4480	1.66	< 10	< 1	0.54	20	0.97	120	303
H563777	299	229	3.0	1.30	< 2	500	0.5	6	2.30	0.5	8	92	2720	1.57	< 10	< 1	0.66	20	0.90	125	161
H563778	299	229	1.2	0.97	8	190	< 0.5	8	2.60	< 0.5	7	109	2110	1.09	< 10	< 1	0.47	20	0.54	110	265
H563779	299	229	0.4	0.98	< 2	260	< 0.5	2	2.14	< 0.5	3	103	809	1.22	< 10	< 1	0.52	20	0.73	100	194

CERTIFICATION: Stuart Bichler

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 124
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 2-B
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563740	299	229	0.01	4	640	18	6	7	28	0.01	< 10	< 10	43	< 10	40
H563741	299	229	0.01	4	490	4	4	5	26	0.01	< 10	< 10	38	< 10	16
H563742	299	229	0.01	3	450	8	4	4	20	0.02	< 10	< 10	35	< 10	26
H563743	299	229	0.01	3	570	10	2	10	21	0.01	< 10	< 10	59	< 10	22
H563744	299	229	0.01	4	380	14	2	7	23	0.02	< 10	< 10	45	< 10	22
H563745	299	229	0.01	3	400	12	2	7	28	0.03	< 10	< 10	44	< 10	18
H563746	299	229	0.01	4	350	6	2	7	35	0.02	< 10	< 10	43	< 10	18
H563747	299	229	0.02	3	490	10	2	7	45	0.04	< 10	< 10	52	< 10	16
H563748	299	229	0.01	4	450	6	4	7	37	0.04	< 10	< 10	52	< 10	20
H563749	299	229	0.01	4	630	12	6	7	53	0.04	< 10	< 10	50	10	26
H563750	299	229	0.03	6	740	16	4	9	51	0.07	< 10	< 10	73	10	38
H563751	299	229	0.08	4	1080	6	2	17	392	0.21	< 10	< 10	143	10	30
H563752	299	229	0.01	3	670	18	32	8	38	< 0.01	< 10	< 10	49	10	46
H563753	299	229	0.01	2	530	8	6	7	54	0.06	< 10	70	57	10	30
H563754	299	229	< 0.01	3	460	124	58	3	16	< 0.01	< 10	< 10	17	20	126
H563755	299	229	0.01	3	200	14	4	4	26	0.01	< 10	210	27	10	36
H563756	299	229	< 0.01	5	540	16	2	6	21	0.04	< 10	10	46	< 10	28
H563757	299	229	0.01	5	490	32	2	7	25	0.06	< 10	120	50	< 10	42
H563758	299	229	0.01	4	450	16	< 2	8	33	< 0.01	< 10	60	52	< 10	36
H563759	299	229	0.01	3	290	32	4	8	30	< 0.01	< 10	70	41	< 10	36
H563760	299	229	0.01	4	620	24	6	7	26	< 0.01	< 10	10	36	< 10	34
H563761	299	229	0.01	2	480	18	4	9	37	0.01	< 10	< 10	50	< 10	28
H563762	299	229	0.02	4	630	12	8	11	49	0.09	< 10	< 10	76	10	38
H563763	299	229	0.01	4	750	32	4	9	38	0.04	< 10	< 10	57	< 10	70
H563764	299	229	0.03	2	590	18	2	10	55	0.06	< 10	< 10	69	10	40
H563765	299	229	0.02	5	670	246	4	10	46	0.08	< 10	< 10	77	10	376
H563766	299	229	0.02	5	820	52	2	10	41	0.09	< 10	< 10	74	< 10	66
H563767	299	229	0.03	4	740	18	2	14	390	0.12	< 10	< 10	114	10	50
H563768	299	229	0.04	4	730	20	< 2	10	84	0.14	< 10	< 10	77	10	38
H563769	299	229	0.01	3	420	22	2	3	26	0.02	< 10	< 10	27	< 10	34
H563770	299	229	0.01	3	630	64	4	9	32	0.08	< 10	< 10	67	< 10	42
H563771	299	229	0.01	2	400	450	14	3	25	0.01	< 10	< 10	25	10	960
H563772	299	229	0.01	1	410	840	22	3	26	< 0.01	< 10	10	20	10	2070
H563773	299	229	0.01	3	190	104	2	1	29	< 0.01	< 10	80	9	< 10	222
H563774	299	229	0.01	1	290	46	< 2	2	22	0.01	< 10	20	19	< 10	60
H563775	299	229	0.02	3	360	282	2	6	39	0.03	< 10	< 10	38	10	1165
H563776	299	229	0.01	6	630	20	< 2	9	33	0.06	< 10	< 10	65	< 10	66
H563777	299	229	0.03	4	450	20	4	8	57	0.07	< 10	< 10	64	10	34
H563778	299	229	0.01	4	540	14	4	6	31	0.04	< 10	< 10	43	< 10	32
H563779	299	229	0.04	3	340	6	2	6	50	0.05	< 10	< 10	43	< 10	28

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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CERTIFICATE OF ANALYSIS A9314510

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563780	299	229	1.2	1.23	12	240	< 0.5	12	1.95	< 0.5	5	76	1365	1.17	10	< 1	0.60	20	0.71	110	188
H563781	299	229	1.8	1.65	2	360	< 0.5	4	2.20	< 0.5	8	62	2720	1.95	10	< 1	0.88	20	1.13	135	201
H563782	299	229	1.4	1.26	10	190	< 0.5	12	2.57	< 0.5	7	93	2320	2.10	10	< 1	0.69	20	0.89	105	239
H563783	299	229	1.2	1.64	4	260	< 0.5	< 2	2.06	< 0.5	8	82	2000	2.30	10	1	0.95	10	1.19	115	87
H563784	299	229	0.6	1.24	8	190	< 0.5	2	1.74	< 0.5	4	134	1360	1.61	< 10	< 1	0.69	10	0.90	105	120
H563785	299	229	0.6	0.70	12	140	< 0.5	2	2.52	< 0.5	4	128	1300	1.03	< 10	< 1	0.39	20	0.50	70	288
H563786	299	229	1.4	1.91	< 2	180	< 0.5	< 2	2.65	< 0.5	9	87	1935	3.14	10	< 1	1.12	10	1.52	135	136
H563787	299	229	4.4	3.43	24	170	< 0.5	12	2.52	< 0.5	15	65	2420	4.91	< 10	< 1	1.41	< 10	2.63	370	75
H563788	299	229	4.6	2.61	26	340	< 0.5	4	2.87	< 0.5	9	56	2900	4.28	10	< 1	1.42	20	1.96	250	94
H563789	299	229	2.0	2.51	22	370	< 0.5	8	2.75	< 0.5	9	55	3650	3.36	10	< 1	1.22	10	1.61	210	85
H563790	299	229	2.6	0.79	38	190	< 0.5	< 2	2.27	< 0.5	4	124	1940	1.29	< 10	< 1	0.48	20	0.62	130	300
H563791	299	229	2.0	0.65	28	180	< 0.5	4	2.99	< 0.5	4	126	1885	1.21	< 10	< 1	0.39	20	0.50	120	340
H563792	299	229	5.2	0.64	190	130	< 0.5	8	1.98	0.5	8	41	2180	2.60	< 10	< 1	0.34	10	0.83	590	170
H563793	299	229	2.0	1.58	8	320	< 0.5	6	1.64	< 0.5	7	124	976	3.47	10	< 1	0.77	10	1.33	175	142
H563794	299	229	0.6	1.60	2	290	< 0.5	2	1.47	< 0.5	6	123	691	3.29	10	< 1	0.86	10	1.34	135	10
H563795	299	229	1.6	1.62	8	270	< 0.5	6	1.84	< 0.5	9	127	1320	3.13	10	< 1	0.76	20	1.21	145	167
H563796	299	229	0.8	1.62	14	340	< 0.5	4	1.64	< 0.5	10	126	1120	2.83	10	< 1	0.80	20	1.28	145	34
H563797	299	229	0.4	2.01	16	190	< 0.5	4	2.83	< 0.5	8	110	1175	2.11	10	< 1	1.00	20	1.33	125	48
H563798	299	229	0.6	2.46	< 2	210	< 0.5	8	2.55	< 0.5	11	103	1910	2.80	10	< 1	1.31	20	1.90	195	122
H563799	299	229	0.4	1.36	6	710	< 0.5	< 2	3.93	< 0.5	10	58	542	2.50	10	< 1	0.39	30	0.90	465	45

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 124
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :3
Certificate Date: 26-MAY-93
Invoice No. :I9314510
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314510

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563780	299	229	0.03	3	490	14	2	8	38	0.07	< 10	< 10	58	< 10	36
H563781	299	229	0.05	5	730	12	2	11	158	0.13	< 10	< 10	89	< 10	36
H563782	299	229	0.04	4	620	12	2	8	213	0.10	< 10	< 10	69	< 10	38
H563783	299	229	0.08	2	700	8	2	11	171	0.15	< 10	< 10	96	< 10	30
H563784	299	229	0.07	3	380	12	2	9	117	0.09	< 10	< 10	63	< 10	30
H563785	299	229	0.06	3	380	12	2	4	176	0.03	< 10	< 10	39	< 10	30
H563786	299	229	0.11	4	960	4	2	12	152	0.16	< 10	< 10	107	< 10	30
H563787	299	229	0.18	8	1180	12	2	16	198	0.26	< 10	< 10	186	10	96
H563788	299	229	0.06	7	1240	26	2	17	161	0.20	< 10	< 10	126	10	80
H563789	299	229	0.10	4	1060	8	4	15	185	0.18	< 10	< 10	116	< 10	36
H563790	299	229	0.05	4	400	6	6	5	211	0.04	< 10	< 10	44	< 10	40
H563791	299	229	0.04	4	430	14	4	4	269	0.02	< 10	< 10	33	< 10	34
H563792	299	229	0.01	4	740	56	18	6	130	0.02	< 10	< 10	34	< 10	86
H563793	299	229	0.07	13	810	8	4	7	191	0.12	< 10	< 10	66	< 10	54
H563794	299	229	0.08	13	770	2	< 2	9	163	0.13	< 10	< 10	70	< 10	38
H563795	299	229	0.08	14	740	4	4	7	294	0.11	< 10	< 10	61	< 10	36
H563796	299	229	0.08	13	770	14	< 2	9	359	0.12	< 10	< 10	66	< 10	36
H563797	299	229	0.14	5	750	14	2	13	478	0.16	< 10	< 10	101	< 10	30
H563798	299	229	0.12	7	960	14	2	15	475	0.19	< 10	< 10	127	< 10	40
H563799	299	229	0.07	14	1540	12	< 2	8	911	0.03	< 10	< 10	31	10	56

CERTIFICATION: Ian Bichler

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Project : CASINO-125
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 1
Total Pages : 3
Certificate Date: 04-JUN-93
Invoice No. : I9314986
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314986

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H563800	208	274	0.27	0.035	0.38	4350
H563801	208	274	0.26	0.049	0.41	6440
H563802	208	276	0.31	0.034	0.38	7430
H563803	208	274	0.20	0.018	0.24	4860
H563804	208	274	0.20	0.156	0.45	6270
H563805	208	274	0.31	0.039	0.41	6370
H563806	208	274	0.29	0.066	0.34	7040
H563807	208	276	0.19	0.023	0.27	7580
H563808	208	276	0.18	0.014	0.14	7400
H563809	208	274	0.28	0.039	0.34	6760
H563810	208	274	0.18	0.021	0.17	6580
H563811	208	274	0.25	0.069	0.24	6540
H563812	208	276	0.24	0.032	0.31	7560
H563813	208	274	0.16	0.141	0.31	6670
H563814	208	274	0.23	0.030	0.21	6970
H563815	208	274	0.22	0.042	0.27	6700
H563816	208	274	0.25	0.043	0.31	6970
H563817	208	274	0.26	0.039	0.24	6810
H563818	208	274	0.17	0.124	0.21	6830
H563819	208	274	0.22	0.068	0.27	6630
H563820	208	274	0.27	0.039	0.31	7150
H563821	208	274	0.21	0.059	0.17	6950
H563822	208	274	0.20	0.050	0.31	6650
H563823	208	274	0.22	0.036	0.34	7020
H563824	208	274	0.19	0.053	0.27	6830
H563825	208	274	0.29	0.044	0.27	6470
H563826	208	274	0.25	0.043	0.21	6580
H563827	208	274	0.21	0.040	0.17	6990
H563828	208	274	0.13	0.017	0.14	6130
H563829	208	274	0.20	0.074	0.24	7080
H563830	208	274	0.14	0.067	0.17	6170
H563831	208	274	0.12	0.163	0.10	6720
H563832	208	274	0.22	0.120	0.21	5950
H563833	208	274	0.19	0.079	0.24	6380
H563834	208	274	0.19	0.039	0.10	7260
H563835	208	274	0.18	0.109	0.24	3720
H563836	208	274	0.18	0.075	0.17	6400
H563837	208	276	0.20	0.040	0.17	9030
H563838	208	274	0.22	0.088	0.31	7060
H563839	208	274	0.18	0.057	0.21	6830

CERTIFICATION: A Christie

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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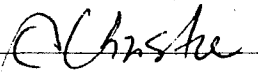
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-125
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-JUN-93
Invoice No. : I9314986
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314986

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H563840	208 274	0.11	0.390	0.10	6860
H563841	208 274	0.14	0.023	0.14	6830
H563842	208 274	0.14	0.031	0.14	6670
H563843	208 274	0.11	0.200	0.17	6890
H563844	208 274	0.10	0.131	0.17	6900
H563845	208 276	0.16	0.041	0.07	7470
H563846	208 274	0.17	0.103	0.17	7200
H563847	208 274	0.09	0.039	0.07	7150
H563848	208 274	0.14	0.160	0.10	6900
H563849	208 274	0.09	0.020	0.07	6220
H563850	208 274	0.10	0.094	0.07	6270
H563851	208 274	0.17	0.032	0.14	6400
H563852	208 274	0.17	0.056	0.10	6650
H563853	208 274	0.15	0.079	0.14	6740
H563854	208 274	0.15	0.152	0.07	6860
H563855	208 274	0.10	0.107	0.10	6020
H563856	208 274	0.19	0.053	0.31	6450
H563857	208 274	0.17	0.095	0.14	5810
H563858	208 274	0.28	0.048	0.17	6990
H563859	208 274	0.33	0.147	0.21	6360
H563860	208 274	0.31	0.068	0.21	3840
H563861	208 274	0.68	0.220	0.65	4990
H563862	208 274	0.28	0.045	0.17	6490
H563863	208 274	0.22	0.121	0.21	6200
H563864	208 274	0.19	0.179	0.10	5740
H563865	208 274	0.33	0.056	0.31	6270
H563866	208 274	0.22	0.032	0.17	6330
H563867	208 274	0.29	0.048	0.41	7220
H563868	208 274	0.24	0.055	0.17	6990
H563869	208 274	0.29	0.036	0.21	7200
H563870	208 274	0.23	0.042	0.17	6360
H563871	208 274	0.37	0.033	0.41	6810
H563872	208 274	0.17	0.049	0.17	7110
H563873	208 274	0.11	0.037	0.07	7290
H563874	208 274	0.28	0.041	0.27	7040
H563875	208 274	0.20	0.038	0.17	6310
H563876	208 274	0.07	0.062	0.03	7040
H563877	208 274	0.12	0.041	0.14	6810
H563878	208 274	0.12	0.087	0.14	6400
H563879	208 274	0.15	0.039	0.07	6580

CERTIFICATION: 

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO-125
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-JUN-93
Invoice No. : 19314986
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314986

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H563880	208	274	0.18	0.016	0.17	6330
H563881	208	274	0.13	0.024	0.14	6540
H563882	208	274	0.12	0.054	0.17	6400
H563883	208	274	0.13	0.151	0.14	6200
H563884	208	274	0.14	0.055	0.21	6970
H563885	208	274	0.18	0.053	0.17	6810
H563886	208	274	0.09	0.051	0.10	6650
H563887	208	274	0.09	0.165	0.10	6450
H563888	208	274	0.19	0.125	0.31	7040
H563889	208	274	0.09	0.054	0.14	7040
H563890	208	274	0.14	0.081	0.17	6880
H563891	208	274	0.11	0.078	0.14	7040
H563892	208	274	0.13	0.056	0.10	6580
H563893	208	274	0.11	0.025	0.14	7040
H563894	208	274	0.07	0.068	0.34	7040
H563895	208	274	0.14	0.052	0.21	7200
H563896	208	274	0.09	0.021	0.10	7150
H563897	208	274	0.10	0.038	0.14	6170
H563898	208	274	0.14	0.057	0.17	6380
H563899	208	274	0.09	0.040	0.10	7150
H563900	208	274	0.10	0.045	0.07	6490
H563901	208	274	0.13	0.072	0.14	6920
H563902	208	274	0.17	0.044	0.17	7010
H563903	208	274	0.19	0.047	0.17	4060
H563904	208	274	0.09	0.027	0.10	7150
H563905	208	274	0.13	0.056	0.14	6970
H563906	208	274	0.08	0.092	0.10	6900
H563907	208	274	0.21	0.065	0.24	6580
H563908	208	274	0.16	0.037	0.24	6290
H563909	208	274	0.11	0.152	0.14	6740
H563910	208	274	0.14	0.031	0.14	6920
H563911	208	274	0.18	0.054	0.17	6700
H563912	208	274	0.16	0.094	0.17	6420
H563913	208	274	0.13	0.054	0.21	3310

CERTIFICATION: A Christie

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 93/125
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 1
Total Pages : 3
Certificate Date: 07-JUN-93
Invoice No. : 19314988
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314988

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563800	299	229	1.1	1.74	< 2	300	0.5	< 2	1.41	< 0.5	12	112	2600	2.33	10	< 1	0.71	10	1.09	115	182
H563801	299	229	1.0	1.95	< 2	690	0.5	< 2	1.11	< 0.5	11	147	2580	2.22	10	< 1	0.67	20	0.90	120	282
H563802	299	229	1.4	1.49	< 2	320	< 0.5	< 2	1.25	< 0.5	10	114	2960	1.95	10	< 1	0.52	20	0.79	135	183
H563803	299	229	0.5	1.71	2	520	< 0.5	< 2	1.10	< 0.5	13	126	1820	2.13	10	< 1	0.72	10	0.99	115	95
H563804	299	229	0.8	1.42	< 2	270	< 0.5	< 2	1.41	< 0.5	9	130	1890	1.61	10	< 1	0.50	20	0.78	110	796
H563805	299	229	1.4	1.53	< 2	290	< 0.5	< 2	1.13	< 0.5	12	150	2940	2.41	10	< 1	0.70	10	1.09	115	210
H563806	299	229	1.3	1.60	< 2	280	< 0.5	< 2	0.88	< 0.5	10	149	2740	1.81	10	< 1	0.65	10	1.09	120	360
H563807	299	229	0.8	1.65	2	350	0.5	< 2	1.06	< 0.5	12	157	1815	2.28	10	< 1	0.68	< 10	1.17	130	131
H563808	299	229	0.9	1.58	< 2	270	< 0.5	< 2	1.17	< 0.5	13	137	1710	2.51	10	< 1	0.62	< 10	1.07	125	69
H563809	299	229	1.6	1.87	< 2	290	< 0.5	< 2	2.00	< 0.5	12	164	2800	2.32	10	< 1	0.58	10	1.04	170	217
H563810	299	229	1.4	1.93	6	360	0.5	< 2	1.83	< 0.5	7	127	1765	1.85	10	< 1	0.53	10	1.00	155	116
H563811	299	229	1.0	1.85	< 2	220	0.5	< 2	1.54	0.5	11	148	2460	2.31	10	< 1	0.56	10	0.87	125	390
H563812	299	229	1.3	1.82	8	110	< 0.5	4	1.48	< 0.5	12	137	2350	2.48	10	< 1	0.51	10	0.88	155	184
H563813	299	229	0.8	2.13	2	290	< 0.5	< 2	1.20	< 0.5	8	139	1540	1.83	10	< 1	0.45	10	1.21	150	765
H563814	299	229	0.9	1.91	< 2	280	0.5	< 2	1.15	< 0.5	10	139	2290	1.67	10	< 1	0.61	20	0.99	115	168
H563815	299	229	1.0	1.28	< 2	180	< 0.5	< 2	1.21	< 0.5	7	195	2230	1.20	10	< 1	0.35	20	0.67	110	251
H563816	299	229	1.1	1.64	< 2	220	0.5	< 2	1.12	0.5	13	103	2250	2.14	10	< 1	0.37	10	0.99	165	221
H563817	299	229	1.1	1.67	< 2	300	0.5	< 2	1.05	< 0.5	9	144	2550	1.64	10	< 1	0.51	10	1.02	115	219
H563818	299	229	0.5	1.87	< 2	290	< 0.5	< 2	1.50	< 0.5	8	135	1700	1.35	10	< 1	0.49	10	1.05	100	688
H563819	299	229	1.0	1.68	< 2	230	0.5	< 2	1.43	< 0.5	12	150	2170	2.18	10	< 1	0.51	10	0.86	95	380
H563820	299	229	1.0	1.66	< 2	320	0.5	< 2	1.23	< 0.5	11	106	2570	1.68	10	< 1	0.56	20	0.98	105	218
H563821	299	229	2.6	1.69	4	290	0.5	< 2	0.95	< 0.5	8	173	2020	1.35	10	< 1	0.61	20	0.99	95	355
H563822	299	229	0.7	1.44	< 2	250	0.5	< 2	0.84	< 0.5	8	135	2040	1.30	10	< 1	0.64	30	0.87	90	288
H563823	299	229	0.7	1.46	< 2	350	< 0.5	< 2	0.91	< 0.5	8	173	2270	1.89	10	< 1	0.73	10	0.94	105	213
H563824	299	229	0.8	1.29	2	260	0.5	2	1.57	< 0.5	10	161	1940	1.77	10	< 1	0.52	10	0.68	95	307
H563825	299	229	1.3	1.23	< 2	270	< 0.5	< 2	1.57	< 0.5	12	158	2900	1.82	10	< 1	0.54	20	0.65	90	249
H563826	299	229	1.3	1.54	< 2	260	0.5	< 2	1.95	< 0.5	9	139	2540	1.94	10	< 1	0.46	10	0.95	110	246
H563827	299	229	1.0	1.71	< 2	170	0.5	< 2	1.69	< 0.5	11	184	2180	2.54	10	< 1	0.53	10	1.35	135	229
H563828	299	229	0.9	1.42	< 2	290	< 0.5	< 2	1.30	0.5	14	100	1255	2.12	10	< 1	0.51	10	0.78	140	96
H563829	299	229	4.4	0.83	50	190	< 0.5	< 2	3.45	10.5	11	141	2030	1.83	< 10	< 1	0.28	< 10	0.61	440	410
H563830	299	229	0.5	1.55	< 2	390	< 0.5	< 2	1.77	< 0.5	9	102	1335	1.39	10	< 1	0.55	20	0.74	125	364
H563831	299	229	0.7	1.56	< 2	330	< 0.5	< 2	1.51	< 0.5	6	118	1125	1.25	10	< 1	0.50	20	0.88	140	893
H563832	299	229	1.1	1.59	< 2	210	< 0.5	< 2	1.42	< 0.5	8	122	2110	1.92	10	< 1	0.50	20	0.94	125	684
H563833	299	229	1.1	1.37	< 2	210	< 0.5	4	1.84	< 0.5	12	139	1920	2.07	10	< 1	0.53	10	0.66	105	457
H563834	299	229	0.9	1.08	< 2	120	< 0.5	4	2.22	< 0.5	9	151	1930	2.06	10	< 1	0.47	< 10	0.56	75	229
H563835	299	229	1.0	1.48	< 2	210	< 0.5	< 2	1.62	< 0.5	10	123	1695	1.49	10	< 1	0.44	10	0.86	95	603
H563836	299	229	1.0	1.06	< 2	130	0.5	< 2	1.81	< 0.5	16	112	1790	1.62	10	< 1	0.39	10	0.63	80	444
H563837	299	229	1.0	1.16	< 2	150	< 0.5	2	1.75	< 0.5	14	111	1990	1.69	10	< 1	0.48	10	0.78	80	235
H563838	299	229	0.8	1.24	< 2	220	< 0.5	< 2	1.73	< 0.5	12	111	2120	1.40	10	< 1	0.50	10	0.78	80	510
H563839	299	229	0.5	1.69	< 2	350	< 0.5	< 2	1.34	< 0.5	8	138	1800	1.52	10	< 1	0.71	10	1.05	90	332

CERTIFICATION: Stewart Buchholz

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC (1981) LTD
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/125
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 1
Total Pages : 3
Certificate Date: 07-JUN-93
Invoice No. : 19314988
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314988

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563800	299	229	0.05	4	450	10	< 2	9	136	0.09	< 10	< 10	66	< 10	42
H563801	299	229	0.03	4	470	10	2	10	144	0.06	< 10	< 10	60	< 10	40
H563802	299	229	0.03	4	420	14	< 2	8	75	0.04	< 10	< 10	46	< 10	48
H563803	299	229	0.05	4	440	10	< 2	10	134	0.10	< 10	< 10	63	< 10	42
H563804	299	229	0.03	5	350	2	4	7	49	0.03	< 10	< 10	41	< 10	30
H563805	299	229	0.07	5	470	6	< 2	10	52	0.13	< 10	< 10	74	< 10	40
H563806	299	229	0.07	4	380	6	< 2	8	59	0.10	< 10	< 10	59	< 10	40
H563807	299	229	0.09	4	480	8	2	10	52	0.15	< 10	< 10	74	< 10	36
H563808	299	229	0.07	3	410	4	< 2	9	43	0.10	< 10	< 10	73	< 10	32
H563809	299	229	0.06	4	470	6	2	7	62	0.03	< 10	< 10	56	< 10	46
H563810	299	229	0.06	3	440	8	< 2	7	82	0.03	< 10	< 10	51	< 10	54
H563811	299	229	0.04	6	470	4	4	7	50	0.03	< 10	< 10	48	< 10	38
H563812	299	229	0.04	4	520	8	4	5	63	< 0.01	< 10	< 10	41	< 10	56
H563813	299	229	0.06	3	450	2	4	9	58	0.04	< 10	< 10	52	< 10	40
H563814	299	229	0.06	4	420	4	< 2	7	51	0.04	< 10	< 10	54	< 10	30
H563815	299	229	0.07	4	390	6	2	4	58	0.01	< 10	< 10	30	< 10	40
H563816	299	229	0.06	4	390	4	4	7	48	0.05	< 10	< 10	55	< 10	58
H563817	299	229	0.06	3	370	6	2	8	51	0.06	< 10	< 10	53	< 10	40
H563818	299	229	0.04	4	310	4	6	8	67	0.04	< 10	< 10	46	< 10	26
H563819	299	229	0.05	4	390	4	2	7	51	0.03	< 10	< 10	48	< 10	26
H563820	299	229	0.05	5	420	4	< 2	9	61	0.06	< 10	< 10	60	< 10	26
H563821	299	229	0.07	6	390	2	2	8	49	0.06	< 10	< 10	55	< 10	26
H563822	299	229	0.09	4	410	6	< 2	10	36	0.06	< 10	< 10	61	< 10	24
H563823	299	229	0.10	5	420	4	< 2	10	39	0.10	< 10	< 10	71	< 10	26
H563824	299	229	0.07	4	400	6	4	6	50	0.03	< 10	< 10	45	< 10	20
H563825	299	229	0.06	6	410	2	< 2	6	55	0.03	< 10	< 10	43	< 10	22
H563826	299	229	0.06	13	440	2	< 2	6	68	0.02	< 10	< 10	42	< 10	24
H563827	299	229	0.07	26	580	< 2	< 2	7	49	0.03	< 10	< 10	50	< 10	26
H563828	299	229	0.05	4	500	4	14	8	52	0.06	< 10	< 10	56	< 10	26
H563829	299	229	0.01	5	430	214	62	5	47	< 0.01	< 10	< 10	17	< 10	520
H563830	299	229	0.03	4	670	4	2	8	65	0.04	< 10	< 10	49	< 10	26
H563831	299	229	0.04	4	370	2	4	8	62	0.04	< 10	< 10	45	< 10	34
H563832	299	229	0.04	4	520	< 2	2	8	55	0.04	< 10	< 10	53	< 10	28
H563833	299	229	0.05	4	500	2	< 2	7	70	0.03	< 10	< 10	45	< 10	26
H563834	299	229	0.05	6	480	4	2	6	71	0.01	< 10	< 10	39	< 10	20
H563835	299	229	0.04	4	490	2	2	7	67	0.02	< 10	< 10	42	< 10	22
H563836	299	229	0.04	4	460	2	< 2	4	79	< 0.01	< 10	< 10	25	< 10	20
H563837	299	229	0.06	6	430	< 2	< 2	6	79	0.02	< 10	< 10	38	< 10	20
H563838	299	229	0.06	4	470	2	2	6	66	0.03	< 10	< 10	42	< 10	20
H563839	299	229	0.07	4	410	2	< 2	10	66	0.09	< 10	< 10	65	< 10	22

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/125
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUN-93
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CERTIFICATE OF ANALYSIS A9314988

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563840	299	229	0.4	2.00	< 2	290	< 0.5	< 2	3.12	< 0.5	7	101	994	1.47	10	< 1	0.55	10	0.97	100	2180
H563841	299	229	0.5	1.48	4	280	< 0.5	< 2	2.10	< 0.5	11	78	1390	2.10	10	< 1	0.56	10	0.98	110	133
H563842	299	229	0.6	1.25	< 2	160	< 0.5	< 2	1.50	< 0.5	9	91	1385	2.04	10	< 1	0.54	10	0.95	105	175
H563843	299	229	0.5	0.83	< 2	80	< 0.5	2	2.61	< 0.5	26	79	1040	3.14	< 10	< 1	0.30	10	0.37	85	1215
H563844	299	229	0.4	1.49	4	200	< 0.5	< 2	2.15	< 0.5	11	125	997	2.53	10	< 1	0.62	< 10	0.89	115	774
H563845	299	229	0.8	1.14	< 2	190	< 0.5	< 2	1.83	< 0.5	12	120	1535	2.44	10	< 1	0.41	10	0.65	95	231
H563846	299	229	0.6	1.63	< 2	280	< 0.5	< 2	1.51	< 0.5	10	138	1675	2.07	10	< 1	0.74	10	1.11	100	639
H563847	299	229	0.4	1.71	< 2	260	< 0.5	< 2	1.64	< 0.5	9	130	909	2.02	10	< 1	0.73	10	1.03	100	230
H563848	299	229	0.4	1.74	< 2	280	0.5	< 2	2.36	< 0.5	10	95	1345	1.86	10	< 1	0.63	< 10	0.88	100	909
H563849	299	229	0.4	1.66	< 2	330	< 0.5	< 2	2.13	< 0.5	11	131	818	2.12	10	< 1	0.64	< 10	0.96	100	115
H563850	299	229	0.3	2.07	< 2	410	< 0.5	< 2	1.40	< 0.5	10	149	930	2.05	20	< 1	0.77	20	1.20	100	540
H563851	299	229	0.6	1.42	< 2	340	< 0.5	< 2	1.00	< 0.5	13	59	1570	2.14	10	< 1	0.72	10	1.17	100	168
H563852	299	229	0.6	1.47	< 2	160	< 0.5	< 2	1.04	< 0.5	8	81	1640	1.57	10	< 1	0.59	10	1.02	95	330
H563853	299	229	0.6	1.77	< 2	120	< 0.5	< 2	2.57	< 0.5	7	101	1530	1.29	10	< 1	0.49	10	0.89	85	453
H563854	299	229	0.5	1.84	< 2	250	< 0.5	< 2	1.39	< 0.5	10	99	1465	1.70	10	< 1	0.70	10	1.10	100	878
H563855	299	229	0.2	2.05	< 2	200	< 0.5	< 2	1.21	< 0.5	8	107	958	1.56	10	< 1	0.78	20	1.15	95	629
H563856	299	229	0.8	1.60	< 2	210	< 0.5	< 2	1.23	< 0.5	12	69	1910	2.08	20	< 1	0.90	20	1.23	120	316
H563857	299	229	0.6	1.56	< 2	50	< 0.5	2	3.34	< 0.5	13	59	1735	1.58	10	< 1	0.61	< 10	0.77	115	557
H563858	299	229	1.5	2.09	< 2	130	< 0.5	< 2	2.56	< 0.5	31	16	3120	3.76	10	< 1	0.86	10	1.09	145	329
H563859	299	229	1.7	1.90	< 2	180	< 0.5	< 2	1.77	< 0.5	29	30	3610	3.34	20	< 1	0.82	30	0.97	140	865
H563860	299	229	1.6	1.93	6	80	< 0.5	< 2	1.46	< 0.5	32	19	3270	3.60	10	< 1	0.76	10	1.01	115	361
H563861	299	229	3.6	1.77	6	60	< 0.5	< 2	1.13	< 0.5	25	22	6820	3.33	10	< 1	0.46	40	0.61	90	1165
H563862	299	229	1.5	1.92	14	240	< 0.5	< 2	1.29	< 0.5	17	64	2820	2.39	10	< 1	0.74	20	0.92	135	252
H563863	299	229	1.0	1.42	14	70	< 0.5	< 2	0.92	< 0.5	11	99	2310	1.90	10	< 1	0.34	30	0.24	110	756
H563864	299	229	1.0	1.03	12	80	0.5	< 2	0.78	< 0.5	9	87	1935	1.60	10	< 1	0.18	30	0.12	85	1070
H563865	299	229	1.7	1.21	12	60	< 0.5	< 2	0.67	< 0.5	11	101	3560	1.66	10	< 1	0.32	30	0.28	90	322
H563866	299	229	1.0	2.21	2	70	0.5	< 2	1.18	< 0.5	15	99	2300	2.24	10	< 1	0.63	10	0.88	145	178
H563867	299	229	1.2	2.80	< 2	270	< 0.5	< 2	0.99	< 0.5	17	49	2920	3.12	10	< 1	1.17	20	1.52	145	253
H563868	299	229	0.9	1.34	< 2	100	< 0.5	< 2	1.05	< 0.5	9	124	2370	1.68	10	< 1	0.85	10	0.99	110	336
H563869	299	229	1.2	1.42	< 2	140	< 0.5	< 2	0.74	< 0.5	15	83	2830	2.12	10	< 1	0.90	20	1.24	100	200
H563870	299	229	0.9	1.78	< 2	250	< 0.5	< 2	1.25	< 0.5	10	117	2260	1.74	10	< 1	0.69	10	0.90	85	231
H563871	299	229	1.7	1.49	2	100	< 0.5	< 2	0.89	< 0.5	19	82	3660	2.28	10	< 1	0.89	20	1.05	100	184
H563872	299	229	0.7	1.47	< 2	250	< 0.5	< 2	1.07	< 0.5	8	74	1685	1.47	10	< 1	0.69	10	0.96	90	294
H563873	299	229	0.2	1.60	< 2	200	< 0.5	< 2	0.94	< 0.5	8	82	1090	1.79	10	< 1	0.79	10	1.14	110	207
H563874	299	229	0.8	1.45	< 2	70	< 0.5	< 2	0.69	< 0.5	14	67	2750	2.00	10	< 1	0.93	< 10	1.25	105	224
H563875	299	229	0.5	1.58	8	170	< 0.5	< 2	0.78	< 0.5	11	79	2060	1.92	10	< 1	0.77	10	1.24	110	241
H563876	299	229	0.2	1.57	< 2	270	< 0.5	< 2	0.99	< 0.5	6	76	712	1.48	10	< 1	0.67	10	1.20	95	349
H563877	299	229	0.3	1.78	< 2	310	< 0.5	< 2	0.94	< 0.5	7	66	1180	1.91	20	< 1	0.82	10	1.45	115	224
H563878	299	229	0.2	1.55	< 2	290	< 0.5	< 2	1.31	< 0.5	7	86	1195	1.35	10	< 1	0.66	10	1.17	100	527
H563879	299	229	0.8	1.34	4	190	< 0.5	< 2	1.34	< 0.5	8	100	1460	2.31	10	< 1	0.58	< 10	0.96	100	223

CERTIFICATION: Ian Buchler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563840	299	229	0.03	6	420	< 2	14	8	79	0.04	< 10	< 10	33	< 10	16
H563841	299	229	0.05	6	490	18	2	8	71	0.06	< 10	< 10	63	< 10	20
H563842	299	229	0.05	4	460	2	2	8	54	0.06	< 10	< 10	66	< 10	20
H563843	299	229	0.02	4	560	< 2	6	4	53	0.01	< 10	< 10	12	< 10	16
H563844	299	229	0.04	4	560	2	4	8	67	0.06	< 10	< 10	54	< 10	22
H563845	299	229	0.04	4	450	2	< 2	6	42	0.04	< 10	< 10	45	< 10	20
H563846	299	229	0.07	5	500	2	4	10	54	0.12	< 10	< 10	69	< 10	22
H563847	299	229	0.07	4	550	6	< 2	10	61	0.10	< 10	< 10	70	< 10	24
H563848	299	229	0.06	3	530	2	4	10	73	0.07	< 10	< 10	60	< 10	24
H563849	299	229	0.07	4	460	6	< 2	9	62	0.09	< 10	< 10	66	< 10	18
H563850	299	229	0.09	4	520	< 2	2	10	68	0.11	< 10	< 10	72	< 10	20
H563851	299	229	0.04	2	540	4	< 2	10	38	0.13	< 10	< 10	78	< 10	20
H563852	299	229	0.06	3	470	2	< 2	9	51	0.09	< 10	< 10	69	< 10	20
H563853	299	229	0.04	4	450	6	< 2	7	68	0.03	< 10	< 10	54	< 10	16
H563854	299	229	0.06	3	510	2	2	10	51	0.10	< 10	< 10	68	< 10	20
H563855	299	229	0.05	4	440	2	2	11	59	0.10	< 10	< 10	73	< 10	18
H563856	299	229	0.05	5	650	4	2	14	53	0.13	< 10	< 10	92	< 10	24
H563857	299	229	0.03	3	470	2	2	10	65	0.06	< 10	< 10	48	< 10	16
H563858	299	229	0.03	4	670	4	2	10	113	0.06	< 10	< 10	77	< 10	28
H563859	299	229	0.06	4	570	2	2	9	64	0.07	< 10	< 10	73	< 10	30
H563860	299	229	0.04	3	600	10	4	10	83	0.05	< 10	< 10	61	< 10	32
H563861	299	229	0.02	6	700	12	8	12	51	0.02	< 10	< 10	48	< 10	40
H563862	299	229	0.02	6	580	6	6	12	57	0.07	< 10	< 10	68	< 10	34
H563863	299	229	0.02	6	580	8	12	12	20	< 0.01	< 10	< 10	44	< 10	30
H563864	299	229	0.01	5	540	12	22	9	13	< 0.01	< 10	< 10	17	< 10	32
H563865	299	229	0.01	6	500	4	12	9	19	0.01	< 10	< 10	41	< 10	34
H563866	299	229	0.03	4	510	2	2	10	55	0.05	< 10	< 10	58	< 10	30
H563867	299	229	0.04	5	750	2	< 2	15	63	0.16	< 10	< 10	67	< 10	34
H563868	299	229	0.02	4	550	< 2	2	11	30	0.10	< 10	< 10	59	< 10	22
H563869	299	229	0.03	5	520	< 2	< 2	12	40	0.12	< 10	< 10	73	< 10	26
H563870	299	229	0.04	4	460	2	< 2	9	61	0.05	< 10	< 10	56	< 10	24
H563871	299	229	0.03	6	540	< 2	< 2	12	26	0.11	< 10	< 10	78	< 10	28
H563872	299	229	0.04	4	470	2	2	10	48	0.08	< 10	< 10	67	< 10	22
H563873	299	229	0.05	4	500	< 2	< 2	11	58	0.14	< 10	< 10	80	< 10	24
H563874	299	229	0.04	4	460	2	< 2	13	27	0.15	< 10	< 10	95	< 10	34
H563875	299	229	0.06	5	490	6	4	12	82	0.16	< 10	< 10	90	< 10	28
H563876	299	229	0.07	4	460	2	2	12	97	0.14	< 10	< 10	79	< 10	22
H563877	299	229	0.06	5	650	2	< 2	13	127	0.15	< 10	< 10	96	< 10	24
H563878	299	229	0.05	5	650	4	2	11	65	0.13	< 10	< 10	74	< 10	30
H563879	299	229	0.04	5	490	6	2	8	47	0.07	< 10	< 10	60	< 10	38

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563880	299	229	1.0	1.40	4	120	0.5	< 2	1.85	< 0.5	9	118	1815	2.39	10	< 1	0.38	< 10	0.51	115	93
H563881	299	229	0.5	1.21	14	60	0.5	< 2	1.43	< 0.5	8	116	1380	1.76	10	< 1	0.21	20	0.28	80	141
H563882	299	229	0.3	1.51	6	460	< 0.5	< 2	1.41	< 0.5	7	117	1265	1.85	10	< 1	0.60	20	0.77	110	319
H563883	299	229	0.5	1.26	8	70	0.5	< 2	2.07	< 0.5	6	95	1330	1.78	< 10	< 1	0.28	20	0.45	155	917
H563884	299	229	0.6	0.96	30	30	< 0.5	4	4.43	< 0.5	5	77	1430	1.69	< 10	< 1	0.12	< 10	0.35	285	309
H563885	299	229	0.6	1.40	4	140	< 0.5	< 2	2.21	< 0.5	7	104	1850	1.52	< 10	< 1	0.37	< 10	0.57	170	298
H563886	299	229	0.2	1.07	2	160	0.5	< 2	3.50	< 0.5	6	90	895	1.12	< 10	< 1	0.18	< 10	0.32	165	301
H563887	299	229	0.1	1.71	< 2	1210	< 0.5	< 2	2.23	< 0.5	6	95	868	1.22	10	< 1	0.62	10	0.85	105	938
H563888	299	229	0.5	1.70	2	280	< 0.5	< 2	1.98	< 0.5	9	113	1935	1.87	10	< 1	0.93	10	1.19	110	692
H563889	299	229	0.3	1.66	< 2	390	< 0.5	< 2	1.23	< 0.5	7	146	984	1.67	10	< 1	0.92	10	1.30	100	319
H563890	299	229	0.8	1.47	< 2	200	< 0.5	< 2	1.70	< 0.5	8	116	1445	1.74	10	< 1	0.75	< 10	1.16	100	454
H563891	299	229	0.2	1.54	< 2	290	< 0.5	< 2	1.15	< 0.5	7	120	1010	1.97	10	< 1	0.97	< 10	1.26	105	406
H563892	299	229	0.3	1.31	< 2	230	< 0.5	< 2	1.59	< 0.5	7	107	1210	1.28	10	< 1	0.71	< 10	1.14	100	296
H563893	299	229	0.2	1.29	< 2	240	< 0.5	< 2	1.51	< 0.5	7	113	1055	1.62	10	< 1	0.89	< 10	1.04	100	140
H563894	299	229	0.8	1.46	32	30	< 0.5	< 2	1.79	< 0.5	8	122	760	5.84	10	< 1	0.56	< 10	0.73	115	395
H563895	299	229	0.8	1.85	12	330	< 0.5	< 2	1.68	< 0.5	8	130	1570	2.08	10	< 1	0.72	10	1.26	130	317
H563896	299	229	0.3	1.69	< 2	350	< 0.5	< 2	1.40	< 0.5	8	133	949	2.05	10	< 1	0.77	< 10	1.21	115	121
H563897	299	229	0.2	1.64	< 2	340	1.0	< 2	1.04	< 0.5	8	110	939	1.99	10	< 1	0.85	10	1.18	105	206
H563898	299	229	0.5	1.75	< 2	310	0.5	< 2	1.19	< 0.5	6	109	1440	1.56	10	< 1	0.71	< 10	1.20	95	331
H563899	299	229	0.4	1.84	4	270	0.5	< 2	1.59	< 0.5	5	88	901	1.29	10	< 1	0.71	< 10	1.18	100	228
H563900	299	229	0.4	1.51	32	160	< 0.5	< 2	2.06	< 0.5	6	124	962	1.43	< 10	< 1	0.58	< 10	0.81	125	258
H563901	299	229	0.5	1.58	28	220	< 0.5	< 2	1.93	< 0.5	7	130	1345	1.31	< 10	< 1	0.65	< 10	0.84	120	428
H563902	299	229	1.3	1.44	< 2	180	< 0.5	< 2	1.42	< 0.5	8	166	1805	2.08	< 10	< 1	0.65	< 10	0.84	130	260
H563903	299	229	1.2	1.49	4	290	< 0.5	< 2	1.63	< 0.5	8	160	2060	1.40	< 10	< 1	0.60	< 10	1.04	135	276
H563904	299	229	0.6	1.34	2	240	< 0.5	< 2	1.56	< 0.5	5	179	1005	1.19	< 10	< 1	0.64	< 10	0.93	125	154
H563905	299	229	0.5	1.76	4	230	< 0.5	< 2	1.41	< 0.5	6	139	1300	1.37	< 10	< 1	0.66	10	1.10	120	325
H563906	299	229	0.2	1.98	4	140	< 0.5	< 2	1.33	< 0.5	7	160	878	1.73	10	< 1	0.87	30	1.29	130	577
H563907	299	229	0.8	1.78	< 2	120	< 0.5	< 2	0.75	< 0.5	9	146	2220	2.12	10	< 1	0.95	20	1.34	125	400
H563908	299	229	0.7	2.01	< 2	160	< 0.5	< 2	0.88	< 0.5	10	169	1650	2.32	10	< 1	0.98	10	1.43	145	211
H563909	299	229	0.5	2.06	< 2	230	< 0.5	< 2	1.41	< 0.5	7	125	1130	1.79	< 10	< 1	0.81	10	1.33	115	885
H563910	299	229	0.8	1.67	< 2	230	< 0.5	< 2	1.21	< 0.5	10	192	1435	2.14	10	< 1	0.83	< 10	1.10	115	173
H563911	299	229	1.5	1.59	8	200	< 0.5	< 2	2.07	< 0.5	7	157	1800	2.53	< 10	< 1	0.67	< 10	0.58	130	298
H563912	299	229	1.3	1.55	< 2	220	< 0.5	< 2	2.27	< 0.5	8	157	1730	1.73	< 10	< 1	0.61	< 10	0.83	145	579
H563913	299	229	0.4	1.50	2	140	< 0.5	< 2	2.28	< 0.5	7	99	1230	1.42	< 10	< 1	0.50	10	0.79	145	304

CERTIFICATION: Jean A Pitcher

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC (1981) LTD
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/125
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 3
Total Pages : 3
Certificate Date: 07-JUN-93
Invoice No. : 19314988
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314988

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B563880	299	229	0.02	4	480	8	< 2	8	28	0.01	< 10	< 10	40	< 10	28
B563881	299	229	0.01	5	630	8	4	11	21	< 0.01	< 10	< 10	42	< 10	22
B563882	299	229	0.03	5	540	12	2	12	59	0.08	< 10	< 10	61	< 10	26
B563883	299	229	0.01	6	490	4	10	12	21	0.01	< 10	< 10	40	< 10	24
B563884	299	229	0.01	4	320	8	26	10	24	< 0.01	< 10	< 10	40	< 10	30
B563885	299	229	0.01	5	390	8	6	12	29	0.02	< 10	< 10	51	< 10	22
B563886	299	229	0.01	4	330	8	< 2	9	29	< 0.01	< 10	< 10	35	< 10	18
B563887	299	229	0.03	4	460	6	6	11	160	0.08	< 10	< 10	54	< 10	20
B563888	299	229	0.07	6	470	4	4	12	53	0.15	< 10	< 10	76	< 10	26
B563889	299	229	0.08	5	490	4	< 2	13	75	0.17	< 10	< 10	85	< 10	26
B563890	299	229	0.06	5	480	8	< 2	11	45	0.13	< 10	< 10	71	< 10	32
B563891	299	229	0.08	5	490	2	< 2	13	43	0.19	< 10	< 10	85	< 10	24
B563892	299	229	0.06	5	410	6	2	9	55	0.09	< 10	< 10	61	< 10	26
B563893	299	229	0.08	3	440	6	< 2	11	53	0.16	< 10	< 10	74	< 10	24
B563894	299	229	0.05	4	460	6	< 2	7	42	0.04	< 10	< 10	44	< 10	28
B563895	299	229	0.07	6	520	4	2	10	62	0.11	< 10	< 10	75	< 10	38
B563896	299	229	0.08	4	480	6	< 2	11	115	0.16	< 10	< 10	83	< 10	38
B563897	299	229	0.08	4	510	14	< 2	12	48	0.15	< 10	< 10	81	< 10	26
B563898	299	229	0.07	4	470	16	< 2	11	65	0.13	< 10	< 10	77	< 10	26
B563899	299	229	0.06	4	490	4	< 2	10	55	0.09	< 10	< 10	67	< 10	28
B563900	299	229	0.04	4	450	16	< 2	8	54	0.04	< 10	< 10	50	< 10	40
B563901	299	229	0.04	4	410	42	4	9	43	0.06	< 10	< 10	53	< 10	38
B563902	299	229	0.05	4	430	14	< 2	7	47	0.03	< 10	< 10	48	< 10	58
B563903	299	229	0.06	6	400	10	2	8	60	0.06	< 10	< 10	57	< 10	48
B563904	299	229	0.06	6	450	10	< 2	8	45	0.04	< 10	< 10	54	< 10	38
B563905	299	229	0.05	5	390	6	< 2	9	55	0.07	< 10	< 10	64	< 10	30
B563906	299	229	0.06	6	490	4	4	12	52	0.11	< 10	< 10	77	< 10	30
B563907	299	229	0.08	6	490	6	2	14	42	0.17	< 10	< 10	95	< 10	36
B563908	299	229	0.09	6	540	2	< 2	14	158	0.19	< 10	< 10	96	< 10	34
B563909	299	229	0.07	5	490	2	4	12	114	0.15	< 10	< 10	79	< 10	32
B563910	299	229	0.08	5	470	4	< 2	11	51	0.14	< 10	< 10	77	< 10	28
B563911	299	229	0.02	4	460	8	< 2	9	36	0.05	< 10	< 10	51	< 10	32
B563912	299	229	0.04	6	510	6	2	9	85	0.05	< 10	< 10	55	< 10	40
B563913	299	229	0.03	5	440	2	< 2	12	60	0.04	< 10	< 10	61	< 10	30

CERTIFICATION: Stewart Buchler

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Y1A 3S9

Project : CASINO 126
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Page :3
Certificate Date: 15-JUN-93
Invoice No. :19315258
P.O. Number :
Account :FC

** Corrected Copy **

CERTIFICATE OF ANALYSIS A9315258

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563914	208	274	0.30	0.054	0.34	3860						
H563915	208	274	0.12	0.055	0.17	6620						
H563916	208	274	0.15	0.018	0.27	7240						
H563917	208	274	0.10	0.021	0.10	6720						
H563918	208	274	0.14	0.025	0.17	6940						
H563919	208	274	0.20	0.025	0.27	6260						
H563920	208	274	0.35	0.031	0.45	6560						
H563921	208	274	0.13	0.173	0.21	7240						
H563922	208	274	0.27	0.035	0.31	6500						
H563923	208	274	0.32	0.044	0.34	6800						
H563924	208	274	0.40	0.032	0.45	7200						
H563925	208	274	0.18	0.066	0.27	6760						
H563926	208	274	0.19	0.075	0.24	6460						
H563927	208	274	0.20	0.132	0.27	6560						
H563928	208	274	0.21	0.039	0.31	6620						
H563929	208	274	0.21	0.037	0.31	6700						
H563930	208	274	0.25	0.048	0.34	6820						
H563931	208	274	0.17	0.066	0.21	7140						
H563932	208	274	0.17	0.043	0.27	7100						
H563933	208	276	0.20	0.039	0.24	7380						
H563934	208	274	0.25	0.038	0.31	7180						
H563935	208	274	0.29	0.043	0.45	7260						
H563936	208	274	0.11	0.025	0.10	6920						
H563937	208	274	0.10	0.029	0.10	6880						
H563938	208	274	0.13	0.086	0.14	6720						
H563939	208	274	0.19	0.070	0.17	6960						
H563940	208	274	0.11	0.064	0.10	6880						
H563941	208	274	0.16	0.122	0.17	6900						
H563942	208	274	0.21	0.050	0.24	6320						
H563943	208	274	0.14	0.130	0.14	6720						
H563944	208	274	0.12	0.106	0.14	6600						
H563945	208	274	0.13	0.051	0.14	6960						
H563946	208	274	0.17	0.089	0.17	6860						
H563947	208	274	0.15	0.235	0.24	6380						
H563948	208	276	0.13	0.120	0.10	7300						
H563949	208	274	0.12	0.214	0.24	6920						
H563950	208	276	0.18	0.089	0.24	7520						
H563951	208	274	0.18	0.048	0.21	7060						
H563952	208	276	0.31	0.061	0.34	7520						
H563953	208	274	0.30	0.039	0.31	7260						

CERTIFICATION: A. Christie

For samples H563944 to H563951, Cu and MoS2 results corrected

Chemex Labs Ltd.

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ATTN: CASINO PROJECT
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Y1A 3S9

Project : CASINO 126
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-JUN-93
Invoice No. : I9315258
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CERTIFICATE OF ANALYSIS A9315258

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563954	208	276	0.24	0.030	0.14	7340						
H563955	208	276	0.30	0.069	0.33	7760						
H563956	208	276	0.22	0.042	0.31	7360						
H563957	208	276	0.28	0.043	0.24	8320						
H563958	208	276	0.14	0.024	0.14	7580						
H563959	208	276	0.16	0.051	0.24	7540						
H563960	208	276	0.10	0.026	0.14	7580						
H563961	208	276	0.12	0.028	0.17	7800						
H563962	208	276	0.15	0.038	0.24	7900						
H563963	208	276	0.14	0.034	0.17	7420						
H563964	208	276	0.12	0.022	0.14	7540						
H563965	208	276	0.08	0.039	0.10	7440						
H563966	208	276	0.13	0.043	0.14	7380						
H563967	208	274	0.15	0.070	0.17	7000						
H563968	208	276	0.17	0.036	0.14	7660						
H563969	208	276	0.19	0.062	0.21	7290						
H563970	208	274	0.16	0.056	0.17	7200						
H563971	208	274	0.11	0.093	0.10	7000						
H563972	208	274	0.08	0.043	0.14	6720						
H563973	208	276	0.08	0.027	0.10	7480						
H563974	208	276	0.09	0.070	0.10	7360						
H563975	208	274	0.07	0.024	0.10	7000						
H563976	208	276	0.07	0.044	0.21	7720						
H563977	208	276	0.10	0.036	0.17	7780						
H563978	208	274	0.13	0.044	0.17	6600						
H563979	208	274	0.07	0.017	0.10	6420						
H563980	208	274	0.13	0.058	0.69	6860						
H563981	208	274	0.12	0.029	0.18	6540						
H563982	208	274	0.38	0.037	0.34	6680						
H563983	208	274	0.67	0.034	0.69	6920						
H563984	208	274	0.23	0.033	0.27	6580						
H563985	208	274	0.22	0.051	0.31	6280						
H563986	208	274	0.23	0.061	0.34	6580						
H563987	208	274	0.22	0.066	0.27	7100						
H563988	208	274	0.22	0.036	0.21	6920						
H563989	208	276	0.13	0.034	0.14	7580						
H563990	208	276	0.11	0.073	0.14	7760						
H563991	208	276	0.17	0.023	0.21	7500						
H563992	208	276	0.31	0.043	0.34	7340						
H563993	208	274	0.21	0.038	0.21	7160						

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 126
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-JUN-93
Invoice No. : I9315258
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315258

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563994	208	274	0.19	0.035	0.24	7040						
H563995	208	274	0.19	0.034	0.17	6220						
H563996	208	274	0.28	0.056	0.24	6580						
H563997	208	274	0.12	0.123	0.14	6240						
H563998	208	274	0.09	0.066	0.14	7000						
H563999	208	274	0.19	0.045	0.27	6860						
H564000	208	276	0.13	0.023	0.10	7280						
H564001	208	276	0.14	0.033	0.10	7640						
H564002	208	276	0.12	0.034	0.14	7900						
H564003	208	276	0.22	0.046	0.17	7460						
H564004	208	276	0.28	0.042	0.24	7680						
H564005	208	276	0.26	0.116	0.24	8080						
H564006	208	276	0.22	0.032	0.24	8100						
H564007	208	276	0.28	0.035	0.24	7520						
H564008	208	276	0.07	0.019	0.07	7540						
H564009	208	276	0.21	0.033	0.17	7460						
H564010	208	276	0.27	0.040	0.27	7860						
H564011	208	276	0.24	0.028	0.14	7500						
H564012	208	276	0.24	0.048	0.17	7880						
H564013	208	274	0.18	0.047	0.14	7140						
H564014	208	276	0.12	0.051	0.10	7680						
H564015	208	276	0.18	0.058	0.14	7300						
H564016	208	274	0.14	0.039	0.14	6920						
H564017	208	274	0.29	0.031	0.31	6930						
H564018	208	276	0.14	0.028	0.10	7300						
H564019	208	276	0.07	0.039	0.07	7720						
H564020	208	276	0.17	0.029	0.14	7780						
H564021	208	276	0.23	0.044	0.27	7520						
H564022	208	276	0.10	0.069	0.14	7320						
H564023	208	276	0.11	0.066	0.10	7620						
H564024	208	274	0.07	0.077	0.07	7220						
H564025	208	276	0.07	0.046	0.07	8600						
H564026	208	274	0.15	0.029	0.14	7080						
H564027	208	276	0.16	0.072	0.17	9140						
H564028	208	274	0.11	0.046	0.14	5140						
H564029	208	274	0.13	0.072	0.10	5240						

CERTIFICATION:

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Project : CASINO 126
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu :1-A
Total Pag :3
Certificate Date: 16-JUN-93
Invoice No. :19315259
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315259

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563914	299	229	1.8	0.39	30	110	< 0.5	< 2	1.07	0.5	24	54	3070	3.26	< 10	< 1	0.22	10	0.62	390	322
H563915	299	229	1.2	0.46	4	240	< 0.5	< 2	1.00	< 0.5	13	60	1280	2.80	< 10	< 1	0.20	10	0.36	355	353
H563916	299	229	1.2	0.66	2	120	< 0.5	< 2	0.67	< 0.5	13	67	1540	3.56	< 10	< 1	0.25	20	0.48	325	112
H563917	299	229	0.8	0.56	2	40	< 0.5	< 2	0.58	< 0.5	11	59	1120	2.07	< 10	< 1	0.27	10	0.45	255	130
H563918	299	229	1.2	0.55	4	70	< 0.5	< 2	0.42	< 0.5	8	70	1450	1.82	< 10	< 1	0.26	10	0.35	215	160
H563919	299	229	1.8	0.42	12	140	< 0.5	< 2	0.69	< 0.5	7	62	2100	1.67	< 10	< 1	0.16	10	0.36	230	164
H563920	299	229	2.6	0.87	24	30	< 0.5	< 2	0.82	< 0.5	14	62	3720	2.88	< 10	< 1	0.33	30	0.61	380	182
H563921	299	229	1.8	0.50	12	140	< 0.5	< 2	1.08	< 0.5	11	69	1405	2.14	< 10	< 1	0.29	20	0.52	600	1100
H563922	299	229	1.6	0.62	28	140	< 0.5	< 2	0.92	< 0.5	17	60	2680	2.59	< 10	< 1	0.26	20	0.48	370	185
H563923	299	229	2.2	0.56	18	50	< 0.5	< 2	1.00	0.5	18	74	3180	2.69	< 10	< 1	0.36	10	0.47	185	263
H563924	299	229	3.8	0.65	52	50	< 0.5	< 2	1.32	0.5	17	78	3930	3.16	< 10	< 1	0.47	10	0.48	260	185
H563925	299	229	1.6	0.74	18	130	< 0.5	< 2	1.21	< 0.5	11	104	1835	1.88	< 10	< 1	0.53	10	0.54	310	417
H563926	299	229	1.2	1.08	< 2	100	< 0.5	< 2	1.25	0.5	14	99	1880	1.98	< 10	< 1	0.71	10	0.77	225	490
H563927	299	229	1.4	0.68	8	120	< 0.5	< 2	1.02	< 0.5	9	109	2040	1.85	< 10	< 1	0.45	10	0.54	145	887
H563928	299	229	1.6	0.94	16	170	< 0.5	< 2	1.09	< 0.5	18	88	2050	2.40	< 10	< 1	0.53	10	0.63	150	249
H563929	299	229	1.4	0.76	6	120	< 0.5	< 2	1.06	< 0.5	13	81	2010	2.36	< 10	< 1	0.47	10	0.58	160	256
H563930	299	229	1.6	0.78	2	110	< 0.5	< 2	1.03	< 0.5	13	93	2490	2.01	< 10	< 1	0.53	10	0.58	160	324
H563931	299	229	1.0	0.52	6	50	< 0.5	< 2	0.93	< 0.5	14	87	1630	2.24	< 10	< 1	0.31	10	0.39	175	427
H563932	299	229	1.2	0.46	32	170	< 0.5	< 2	1.25	< 0.5	12	81	1660	2.07	< 10	< 1	0.26	< 10	0.42	225	254
H563933	299	229	1.2	0.44	12	160	< 0.5	2	1.25	< 0.5	11	72	1935	2.39	< 10	< 1	0.27	10	0.48	240	238
H563934	299	229	1.8	0.41	20	330	< 0.5	< 2	1.11	< 0.5	9	73	2430	1.89	< 10	< 1	0.17	10	0.55	235	228
H563935	299	229	2.2	0.56	16	190	< 0.5	< 2	1.30	< 0.5	14	90	2770	1.76	< 10	< 1	0.33	10	0.35	210	259
H563936	299	229	0.8	0.49	6	50	< 0.5	< 2	0.88	0.5	9	71	1060	2.01	< 10	< 1	0.24	10	0.32	205	150
H563937	299	229	0.6	0.48	< 2	30	< 0.5	< 2	0.73	0.5	8	85	971	1.69	< 10	< 1	0.25	20	0.34	155	180
H563938	299	229	0.8	0.58	6	60	< 0.5	< 2	0.60	< 0.5	16	84	1220	1.74	< 10	< 1	0.41	10	0.51	135	543
H563939	299	229	1.0	0.69	4	70	< 0.5	< 2	0.70	< 0.5	15	90	1815	1.80	< 10	1	0.51	< 10	0.58	110	446
H563940	299	229	0.6	0.63	2	40	< 0.5	< 2	0.76	< 0.5	9	66	1135	1.96	< 10	< 1	0.34	10	0.44	130	421
H563941	299	229	1.0	0.55	10	40	< 0.5	< 2	1.04	< 0.5	8	88	1545	1.94	< 10	< 1	0.33	10	0.37	165	768
H563942	299	229	1.4	0.87	6	90	< 0.5	< 2	1.34	< 0.5	17	53	1925	1.97	< 10	< 1	0.56	10	0.57	145	287
H563943	299	229	1.4	0.48	2	70	< 0.5	< 2	0.99	< 0.5	9	78	1315	1.27	< 10	< 1	0.33	10	0.39	135	843
H563944	299	229	1.0	0.41	14	70	< 0.5	< 2	1.09	< 0.5	6	69	1165	1.37	< 10	< 1	0.23	10	0.42	140	634
H563945	299	229	1.2	0.77	4	70	< 0.5	< 2	1.19	0.5	14	74	1245	1.75	< 10	< 1	0.40	10	0.43	150	315
H563946	299	229	2.0	1.28	10	80	< 0.5	< 2	1.61	< 0.5	22	63	1715	2.59	< 10	< 1	0.91	10	1.07	260	558
H563947	299	229	1.4	0.67	12	40	< 0.5	< 2	1.34	< 0.5	12	83	1420	1.52	< 10	< 1	0.41	10	0.41	180	1420
H563948	299	229	1.0	0.59	2	70	< 0.5	< 2	0.83	< 0.5	11	92	1265	1.23	< 10	< 1	0.41	10	0.44	155	773
H563949	299	229	1.4	0.54	10	70	< 0.5	< 2	0.57	< 0.5	13	110	1255	1.71	< 10	< 1	0.39	< 10	0.60	170	1345
H563950	299	229	1.8	1.24	10	90	< 0.5	< 2	0.67	0.5	23	70	1820	2.47	< 10	< 1	0.97	< 10	1.11	220	534
H563951	299	229	1.4	1.04	< 2	130	< 0.5	< 2	1.01	0.5	23	80	1725	2.29	< 10	< 1	0.73	< 10	0.93	295	283
H563952	299	229	1.8	0.32	18	110	< 0.5	< 2	0.65	0.5	16	82	3080	1.50	< 10	< 1	0.16	10	0.29	200	387
H563953	299	229	2.2	0.50	34	80	< 0.5	< 2	1.34	< 0.5	22	52	2840	2.93	< 10	< 1	0.21	10	0.50	360	239

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Project : CASINO 126
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N :1-B
Total Pa :3
Certificate Date: 16-JUN-93
Invoice No. :19315259
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315259

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563914	299	229	0.01	10	370	24	2	2	14	< 0.01	< 10	< 10	22	10	96
H563915	299	229	0.01	4	200	18	6	1	16	< 0.01	< 10	< 10	14	< 10	80
H563916	299	229	0.01	8	200	6	4	1	15	< 0.01	< 10	< 10	17	< 10	84
H563917	299	229	0.01	4	160	14	2	2	10	< 0.01	< 10	< 10	19	< 10	58
H563918	299	229	0.01	4	130	12	4	3	11	< 0.01	< 10	< 10	19	< 10	44
H563919	299	229	0.01	4	170	20	4	2	13	< 0.01	< 10	< 10	11	< 10	54
H563920	299	229	0.01	8	330	18	6	2	14	< 0.01	< 10	< 10	24	< 10	70
H563921	299	229	0.01	2	290	34	8	1	16	< 0.01	< 10	< 10	17	10	98
H563922	299	229	0.01	9	380	22	8	2	15	< 0.01	< 10	< 10	22	< 10	80
H563923	299	229	0.01	10	240	36	6	2	13	0.01	< 10	< 10	22	< 10	142
H563924	299	229	0.01	10	300	60	6	2	15	0.01	< 10	10	19	< 10	140
H563925	299	229	0.01	3	190	14	4	3	18	0.02	< 10	< 10	26	10	54
H563926	299	229	0.01	6	330	18	2	4	20	0.04	< 10	< 10	39	10	46
H563927	299	229	0.01	4	180	24	10	3	17	0.02	< 10	< 10	30	10	54
H563928	299	229	0.01	6	320	12	4	4	26	0.02	< 10	< 10	30	10	38
H563929	299	229	0.01	6	220	20	2	3	19	0.01	< 10	< 10	29	10	44
H563930	299	229	0.02	4	270	10	4	3	21	0.02	< 10	< 10	28	< 10	40
H563931	299	229	0.01	6	210	10	4	1	17	< 0.01	< 10	< 10	17	< 10	36
H563932	299	229	0.01	4	240	16	4	1	20	< 0.01	< 10	< 10	12	< 10	56
H563933	299	229	0.01	6	170	8	6	1	17	< 0.01	< 10	< 10	16	< 10	54
H563934	299	229	0.01	7	170	18	4	2	20	< 0.01	< 10	< 10	14	< 10	78
H563935	299	229	0.01	6	210	32	4	1	18	< 0.01	< 10	< 10	15	< 10	94
H563936	299	229	0.01	6	270	30	4	1	21	< 0.01	< 10	< 10	13	< 10	64
H563937	299	229	0.01	4	350	34	4	1	24	< 0.01	< 10	< 10	16	< 10	60
H563938	299	229	0.01	4	120	12	4	2	15	0.01	< 10	< 10	24	< 10	44
H563939	299	229	0.02	4	140	22	2	3	15	0.02	< 10	< 10	30	< 10	52
H563940	299	229	0.02	6	230	18	6	1	18	< 0.01	< 10	< 10	22	< 10	48
H563941	299	229	0.02	6	210	20	4	1	17	< 0.01	< 10	10	21	< 10	56
H563942	299	229	0.01	8	340	22	2	2	18	0.02	< 10	< 10	28	< 10	64
H563943	299	229	0.01	4	170	14	6	2	16	< 0.01	< 10	< 10	19	< 10	52
H563944	299	229	0.01	3	180	8	6	1	16	< 0.01	< 10	< 10	14	< 10	54
H563945	299	229	0.01	8	340	18	4	2	25	< 0.01	< 10	< 10	18	< 10	98
H563946	299	229	0.01	14	940	28	2	4	21	0.04	< 10	< 10	43	10	126
H563947	299	229	0.01	6	300	20	8	2	19	< 0.01	< 10	< 10	22	< 10	82
H563948	299	229	0.01	4	160	12	4	2	18	0.01	< 10	< 10	23	< 10	64
H563949	299	229	0.02	5	160	2	8	2	18	0.01	< 10	< 10	23	< 10	48
H563950	299	229	0.02	13	710	30	2	4	15	0.06	< 10	< 10	44	10	96
H563951	299	229	0.01	11	760	16	8	4	17	0.04	< 10	< 10	36	< 10	100
H563952	299	229	0.01	6	350	16	22	2	13	< 0.01	< 10	< 10	13	< 10	82
H563953	299	229	< 0.01	17	960	28	18	6	15	< 0.01	< 10	< 10	25	< 10	102

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CERTIFICATE OF ANALYSIS A9315259

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563954	299	229	2.2	0.36	10	230	< 0.5	< 2	0.85	< 0.5	14	70	2450	1.46	< 10	< 1	0.21	10	0.34	195	196
H563955	299	229	2.0	0.51	< 2	180	< 0.5	< 2	0.82	< 0.5	14	72	2890	1.69	< 10	< 1	0.35	10	0.52	145	447
H563956	299	229	1.4	0.49	14	140	< 0.5	2	0.83	< 0.5	13	66	2110	2.20	< 10	< 1	0.33	10	0.51	180	262
H563957	299	229	2.6	0.60	24	80	< 0.5	< 2	0.77	< 0.5	20	43	2710	3.22	< 10	< 1	0.42	20	0.57	185	269
H563958	299	229	1.2	0.86	12	220	< 0.5	< 2	1.23	< 0.5	17	66	1250	2.03	< 10	< 1	0.56	< 10	0.94	230	134
H563959	299	229	1.2	0.56	4	180	< 0.5	< 2	1.10	< 0.5	12	69	1500	1.32	< 10	< 1	0.36	10	0.59	160	293
H563960	299	229	0.8	0.66	< 2	80	< 0.5	< 2	1.02	< 0.5	10	66	904	1.28	< 10	< 1	0.37	10	0.34	125	147
H563961	299	229	0.8	0.64	4	270	< 0.5	< 2	0.71	< 0.5	13	67	1200	1.78	< 10	< 1	0.43	< 10	0.52	175	164
H563962	299	229	1.2	0.75	< 2	130	< 0.5	< 2	1.19	< 0.5	11	82	1440	1.47	< 10	< 1	0.47	< 10	0.39	125	238
H563963	299	229	1.0	1.04	8	80	< 0.5	< 2	1.26	< 0.5	10	97	1315	1.27	< 10	< 1	0.62	10	0.61	135	211
H563964	299	229	0.6	1.06	4	80	< 0.5	< 2	1.47	< 0.5	6	126	1115	1.07	< 10	< 1	0.57	10	0.52	120	175
H563965	299	229	0.6	0.81	< 2	180	< 0.5	< 2	1.50	< 0.5	7	89	722	0.91	< 10	< 1	0.49	10	0.48	125	225
H563966	299	229	1.0	0.65	4	360	< 0.5	< 2	0.91	< 0.5	10	117	1235	1.07	< 10	< 1	0.31	10	0.45	100	256
H563967	299	229	1.0	0.63	8	240	< 0.5	< 2	0.68	< 0.5	11	68	1420	1.37	< 10	< 1	0.25	10	0.33	80	422
H563968	299	229	0.8	0.72	12	190	< 0.5	< 2	0.83	< 0.5	19	92	1645	1.84	< 10	< 1	0.30	10	0.41	100	218
H563969	299	229	1.0	0.68	10	110	< 0.5	< 2	1.03	< 0.5	16	103	1795	1.33	< 10	< 1	0.26	10	0.47	110	381
H563970	299	229	1.4	0.52	10	290	< 0.5	< 2	0.97	< 0.5	8	134	1570	1.00	< 10	1	0.25	10	0.42	80	331
H563971	299	229	0.8	0.43	6	290	< 0.5	< 2	1.43	< 0.5	10	118	1050	1.08	< 10	< 1	0.21	< 10	0.60	90	559
H563972	299	229	0.6	0.49	6	70	< 0.5	< 2	1.27	< 0.5	4	116	736	0.98	< 10	< 1	0.26	10	0.60	95	280
H563973	299	229	0.4	0.57	6	220	< 0.5	2	1.33	< 0.5	5	121	750	1.29	< 10	< 1	0.35	< 10	0.74	90	157
H563974	299	229	0.4	0.76	2	110	< 0.5	< 2	1.48	< 0.5	5	121	832	1.07	< 10	< 1	0.50	< 10	0.84	85	423
H563975	299	229	0.4	0.82	2	80	< 0.5	< 2	1.51	< 0.5	7	140	696	1.09	< 10	< 1	0.53	10	0.85	90	141
H563976	299	229	0.4	1.27	2	90	0.5	< 2	1.57	< 0.5	10	136	634	1.15	< 10	< 1	0.79	10	0.67	95	247
H563977	299	229	0.4	1.47	< 2	100	0.5	< 2	1.35	< 0.5	9	133	893	1.25	< 10	< 1	0.80	10	0.89	95	207
H563978	299	229	0.8	1.48	12	140	< 0.5	< 2	1.47	< 0.5	23	128	1160	1.49	< 10	< 1	0.89	10	0.98	100	243
H563979	299	229	0.4	1.32	< 2	100	0.5	< 2	1.27	0.5	10	110	624	1.28	< 10	< 1	0.85	10	0.95	85	81
H563980	299	229	0.6	1.37	< 2	120	< 0.5	< 2	1.26	< 0.5	10	114	1145	1.40	< 10	< 1	0.87	< 10	0.99	80	324
H563981	299	229	0.4	1.72	< 2	90	< 0.5	< 2	0.87	< 0.5	8	127	1065	1.44	< 10	< 1	1.19	10	1.47	105	147
H563982	299	229	1.6	1.23	4	170	< 0.5	< 2	0.92	< 0.5	9	125	3560	1.36	< 10	< 1	0.83	< 10	0.94	95	194
H563983	299	229	2.6	1.18	4	140	< 0.5	< 2	0.97	< 0.5	23	111	6430	1.89	< 10	< 1	0.80	10	0.93	90	186
H563984	299	229	0.8	1.16	< 2	100	< 0.5	< 2	0.69	< 0.5	6	117	2090	1.18	< 10	< 1	0.83	< 10	0.95	70	176
H563985	299	229	1.0	1.07	4	70	< 0.5	< 2	0.79	< 0.5	9	123	1970	1.29	< 10	< 1	0.71	< 10	0.76	70	287
H563986	299	229	0.8	1.07	4	110	< 0.5	< 2	0.96	< 0.5	11	100	2180	1.44	< 10	< 1	0.79	< 10	0.86	75	357
H563987	299	229	1.2	1.08	2	110	< 0.5	< 2	1.46	< 0.5	14	100	2000	1.75	< 10	< 1	0.76	< 10	0.86	75	384
H563988	299	229	1.2	1.02	6	150	< 0.5	< 2	1.54	< 0.5	14	88	2060	1.57	< 10	< 1	0.74	10	0.84	85	206
H563989	299	229	0.8	1.53	2	170	< 0.5	< 2	1.47	< 0.5	13	131	1125	1.87	< 10	< 1	0.79	10	1.45	160	201
H563990	299	229	0.8	1.41	< 2	70	< 0.5	< 2	1.11	< 0.5	8	120	1055	1.32	< 10	< 1	0.84	10	1.04	70	466
H563991	299	229	0.8	1.23	< 2	220	< 0.5	< 2	1.33	< 0.5	9	129	1720	1.53	< 10	< 1	0.77	10	0.82	70	134
H563992	299	229	1.8	1.08	< 2	80	< 0.5	< 2	1.23	< 0.5	11	143	3140	2.00	< 10	< 1	0.65	< 10	0.66	75	259
H563993	299	229	1.2	0.85	< 2	220	< 0.5	2	1.05	< 0.5	6	138	2060	1.08	< 10	< 1	0.54	10	0.49	55	239

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563954	299	229	0.01	6	210	8	12	1	14	< 0.01	< 10	< 10	12	< 10	48
H563955	299	229	0.01	7	200	8	8	1	17	< 0.01	< 10	< 10	16	< 10	32
H563956	299	229	0.01	8	220	10	6	1	14	< 0.01	< 10	< 10	17	< 10	48
H563957	299	229	0.01	10	540	12	14	2	14	0.01	< 10	10	17	< 10	58
H563958	299	229	0.01	10	420	6	6	3	24	0.02	< 10	< 10	28	< 10	66
H563959	299	229	0.01	8	220	12	6	2	16	< 0.01	< 10	< 10	22	< 10	50
H563960	299	229	0.01	6	220	4	4	1	16	< 0.01	< 10	< 10	15	< 10	40
H563961	299	229	0.01	8	300	< 2	6	2	18	< 0.01	< 10	< 10	22	10	40
H563962	299	229	0.01	6	200	6	8	2	17	0.01	< 10	< 10	21	< 10	34
H563963	299	229	0.01	4	200	4	4	3	22	0.02	< 10	< 10	28	< 10	32
H563964	299	229	0.01	6	230	< 2	4	2	23	0.01	< 10	< 10	22	< 10	30
H563965	299	229	0.01	3	280	4	2	2	21	0.01	< 10	< 10	19	< 10	22
H563966	299	229	0.01	4	260	10	8	1	22	< 0.01	< 10	< 10	13	< 10	26
H563967	299	229	0.01	6	270	6	14	2	16	< 0.01	< 10	< 10	12	< 10	26
H563968	299	229	0.01	4	250	2	20	1	17	< 0.01	< 10	< 10	14	< 10	24
H563969	299	229	0.01	8	220	4	16	2	16	< 0.01	< 10	< 10	17	< 10	26
H563970	299	229	0.01	4	140	6	8	3	18	< 0.01	< 10	< 10	18	< 10	20
H563971	299	229	0.01	4	200	12	4	3	19	< 0.01	< 10	< 10	20	< 10	18
H563972	299	229	0.01	4	130	12	4	2	15	< 0.01	< 10	< 10	18	< 10	14
H563973	299	229	0.01	4	250	14	2	2	19	< 0.01	< 10	< 10	14	< 10	14
H563974	299	229	0.01	4	190	4	4	4	17	0.01	< 10	10	32	< 10	12
H563975	299	229	0.01	7	190	8	2	3	16	0.01	< 10	< 10	27	< 10	12
H563976	299	229	0.01	6	270	6	4	2	22	0.02	< 10	< 10	24	< 10	16
H563977	299	229	0.02	7	460	2	< 2	3	29	0.03	< 10	< 10	34	< 10	18
H563978	299	229	0.02	9	470	< 2	2	4	29	0.04	< 10	< 10	38	< 10	18
H563979	299	229	0.02	7	620	< 2	2	5	28	0.04	< 10	< 10	43	< 10	14
H563980	299	229	0.02	6	390	6	2	4	29	0.04	< 10	< 10	42	10	16
H563981	299	229	0.02	9	150	< 2	2	6	29	0.07	< 10	< 10	57	10	22
H563982	299	229	0.02	6	190	2	2	3	29	0.03	< 10	< 10	32	10	30
H563983	299	229	0.03	12	290	2	< 2	4	28	0.05	< 10	< 10	41	10	32
H563984	299	229	0.02	8	160	6	< 2	4	30	0.05	< 10	< 10	46	< 10	16
H563985	299	229	0.02	8	160	< 2	2	3	34	0.03	< 10	10	38	< 10	20
H563986	299	229	0.02	8	200	4	2	4	27	0.04	< 10	< 10	40	10	14
H563987	299	229	0.02	11	320	6	2	4	27	0.04	< 10	10	42	10	16
H563988	299	229	0.02	8	230	< 2	2	6	27	0.04	< 10	< 10	43	10	18
H563989	299	229	0.04	30	360	4	2	6	51	0.06	< 10	< 10	56	10	18
H563990	299	229	0.02	8	90	< 2	< 2	5	33	0.04	< 10	< 10	46	< 10	18
H563991	299	229	0.02	8	190	4	< 2	5	26	0.04	< 10	< 10	44	10	14
H563992	299	229	0.02	10	190	6	4	6	21	0.03	< 10	< 10	41	10	14
H563993	299	229	0.02	6	250	< 2	2	3	22	0.02	< 10	< 10	28	< 10	12

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 126
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-JUN-93
Invoice No. : I9315259
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315259

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B563994	299	229	1.2	0.77	< 2	180	< 0.5	< 2	0.95	< 0.5	4	89	1790	0.90	< 10	< 1	0.51	< 10	0.52	55	193
B563995	299	229	1.0	0.94	< 2	100	0.5	< 2	1.25	< 0.5	7	103	1940	1.17	< 10	< 1	0.45	10	0.53	65	199
B563996	299	229	1.6	1.04	8	80	< 0.5	< 2	1.23	< 0.5	10	91	2640	1.26	< 10	< 1	0.63	10	0.74	70	332
B563997	299	229	0.6	0.77	8	80	< 0.5	< 2	1.29	< 0.5	2	98	1170	0.96	< 10	< 1	0.52	10	0.54	60	779
B563998	299	229	0.4	0.70	< 2	160	< 0.5	< 2	1.35	< 0.5	5	85	914	0.92	< 10	< 1	0.45	10	0.45	60	406
B563999	299	229	1.2	1.10	4	100	< 0.5	< 2	1.84	< 0.5	13	110	1835	1.63	< 10	< 1	0.69	10	0.76	85	259
B564000	299	229	0.8	1.06	4	60	< 0.5	< 2	1.27	< 0.5	15	97	1290	1.83	< 10	< 1	0.62	10	0.73	85	125
B564001	299	229	0.6	1.05	2	170	< 0.5	< 2	1.08	< 0.5	11	126	1325	1.64	< 10	< 1	0.65	10	0.79	95	198
B564002	299	229	0.4	0.71	16	170	< 0.5	< 2	0.94	< 0.5	12	102	1250	1.83	< 10	< 1	0.26	10	0.41	70	215
B564003	299	229	1.0	0.72	12	200	< 0.5	< 2	1.23	< 0.5	10	110	2050	1.59	< 10	< 1	0.35	10	0.50	90	265
B564004	299	229	1.8	1.09	6	110	< 0.5	< 2	1.29	< 0.5	17	94	2770	2.14	< 10	< 1	0.63	10	0.80	105	260
B564005	299	229	1.6	0.90	< 2	60	< 0.5	< 2	1.11	< 0.5	18	109	2550	2.49	< 10	< 1	0.60	10	0.78	90	722
B564006	299	229	1.4	0.70	4	60	< 0.5	< 2	1.87	< 0.5	11	79	2070	1.68	< 10	< 1	0.46	10	0.48	70	163
B564007	299	229	1.8	1.40	8	50	< 0.5	< 2	1.48	< 0.5	12	76	2770	2.10	< 10	< 1	0.61	10	0.79	80	195
B564008	299	229	0.4	0.99	< 2	50	< 0.5	< 2	1.43	< 0.5	4	96	651	1.02	< 10	< 1	0.52	10	0.59	70	90
B564009	299	229	1.4	1.01	< 2	70	< 0.5	< 2	1.95	< 0.5	10	109	2030	1.85	< 10	< 1	0.38	10	0.63	110	177
B564010	299	229	1.4	1.43	6	210	< 0.5	< 2	1.32	< 0.5	7	59	2480	1.67	< 10	< 1	0.76	20	0.96	90	212
B564011	299	229	1.4	0.80	6	180	< 0.5	< 2	1.53	< 0.5	5	104	2300	1.25	< 10	< 1	0.42	10	0.47	75	155
B564012	299	229	1.6	0.85	2	270	< 0.5	< 2	1.41	< 0.5	8	98	2410	1.24	< 10	< 1	0.42	10	0.57	95	288
B564013	299	229	1.2	0.55	2	230	< 0.5	< 2	1.18	< 0.5	4	75	1775	1.05	< 10	< 1	0.21	10	0.44	80	276
B564014	299	229	0.6	0.81	6	100	< 0.5	< 2	1.36	< 0.5	3	67	1075	0.97	< 10	< 1	0.54	10	0.66	85	295
B564015	299	229	1.2	0.71	8	260	< 0.5	< 2	1.54	< 0.5	3	77	1755	1.31	< 10	< 1	0.38	10	0.84	90	342
B564016	299	229	1.2	0.66	2	130	< 0.5	< 2	1.69	< 0.5	6	72	1355	1.49	< 10	< 1	0.22	10	0.73	95	217
B564017	299	229	1.6	0.60	6	100	< 0.5	< 2	1.53	< 0.5	6	80	2670	1.47	< 10	< 1	0.16	10	0.62	90	171
B564018	299	229	0.8	0.56	4	250	< 0.5	< 2	1.30	< 0.5	2	75	1305	1.03	< 10	< 1	0.18	10	0.55	80	154
B564019	299	229	0.6	0.85	8	240	< 0.5	2	0.92	< 0.5	3	92	706	1.13	< 10	1	0.55	10	0.71	65	232
B564020	299	229	1.0	0.91	8	140	< 0.5	4	1.01	< 0.5	4	100	1540	0.99	< 10	< 1	0.56	10	0.61	60	174
B564021	299	229	1.2	0.92	< 2	110	< 0.5	< 2	1.02	0.5	4	130	2110	1.17	< 10	< 1	0.61	10	0.64	65	255
B564022	299	229	0.6	0.76	< 2	100	< 0.5	< 2	1.41	< 0.5	3	110	980	0.89	< 10	< 1	0.50	10	0.51	65	415
B564023	299	229	0.8	0.71	2	70	< 0.5	2	1.24	< 0.5	4	135	1095	1.14	< 10	< 1	0.47	10	0.33	65	400
B564024	299	229	0.2	0.82	< 2	80	< 0.5	2	1.13	< 0.5	2	99	637	0.95	< 10	< 1	0.51	10	0.59	70	424
B564025	299	229	0.4	0.72	< 2	100	< 0.5	< 2	1.56	< 0.5	4	98	667	1.02	< 10	< 1	0.43	10	0.50	95	266
B564026	299	229	0.6	0.67	4	110	< 0.5	< 2	1.93	< 0.5	2	123	1390	0.94	< 10	< 1	0.40	10	0.62	80	172
B564027	299	229	0.8	0.61	< 2	220	< 0.5	4	1.61	< 0.5	4	98	1450	1.00	< 10	1	0.27	10	0.64	80	400
B564028	299	229	0.6	0.68	< 2	160	< 0.5	4	1.84	< 0.5	3	115	1065	1.04	< 10	1	0.27	10	0.69	105	271
B564029	299	229	0.8	0.83	6	240	< 0.5	4	1.29	< 0.5	6	117	1170	1.22	< 10	< 1	0.35	10	0.63	80	400

CERTIFICATION: Ian Bradley

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 126
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-JUN-93
Invoice No. : I9315259
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315259

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563994	299	229	0.02	5	180	2	4	4	26	0.02	< 10	< 10	34	< 10	14
H563995	299	229	0.02	4	170	12	4	3	44	0.01	< 10	< 10	22	< 10	14
H563996	299	229	0.02	6	220	16	6	5	33	0.03	< 10	< 10	40	< 10	18
H563997	299	229	0.01	4	190	4	6	5	15	0.03	< 10	< 10	37	< 10	16
H563998	299	229	0.01	4	210	2	< 2	4	13	0.03	< 10	< 10	35	< 10	10
H563999	299	229	0.01	10	300	< 2	4	6	19	0.06	< 10	< 10	52	10	16
H564000	299	229	0.01	7	260	< 2	4	6	20	0.04	< 10	< 10	47	10	16
H564001	299	229	0.01	9	260	2	2	6	16	0.05	< 10	< 10	51	< 10	18
H564002	299	229	0.01	7	260	< 2	4	5	18	< 0.01	< 10	< 10	28	< 10	18
H564003	299	229	0.01	6	230	< 2	4	4	19	0.01	< 10	< 10	33	< 10	16
H564004	299	229	0.01	8	270	< 2	4	6	16	0.05	< 10	< 10	49	10	20
H564005	299	229	0.01	8	260	4	4	6	15	0.04	< 10	< 10	40	10	16
H564006	299	229	0.01	4	240	2	2	4	18	0.03	< 10	< 10	32	< 10	12
H564007	299	229	0.01	7	290	2	6	5	42	0.02	< 10	< 10	36	10	14
H564008	299	229	0.01	6	180	2	4	4	28	0.02	< 10	< 10	28	< 10	10
H564009	299	229	0.01	6	250	6	2	4	31	0.01	< 10	< 10	28	< 10	16
H564010	299	229	0.02	10	230	< 2	2	8	51	0.05	< 10	< 10	55	10	16
H564011	299	229	0.02	4	220	6	2	4	31	0.01	< 10	< 10	24	< 10	14
H564012	299	229	0.01	6	260	6	4	6	30	0.02	< 10	< 10	38	< 10	14
H564013	299	229	0.01	5	250	12	8	6	21	< 0.01	< 10	< 10	24	< 10	14
H564014	299	229	0.01	6	230	6	4	6	23	0.03	< 10	< 10	42	< 10	14
H564015	299	229	0.01	8	320	< 2	4	8	25	0.02	< 10	< 10	43	< 10	14
H564016	299	229	0.01	4	320	6	4	7	18	< 0.01	< 10	< 10	38	< 10	16
H564017	299	229	0.01	7	320	6	2	5	18	< 0.01	< 10	< 10	29	< 10	12
H564018	299	229	0.01	4	230	4	2	4	20	< 0.01	< 10	< 10	22	< 10	12
H564019	299	229	0.02	5	270	4	2	4	29	0.06	< 10	< 10	37	< 10	14
H564020	299	229	0.02	7	220	6	2	4	33	0.05	< 10	< 10	36	< 10	12
H564021	299	229	0.02	6	260	2	< 2	4	25	0.06	< 10	< 10	38	< 10	14
H564022	299	229	0.01	4	250	< 2	4	4	18	0.04	< 10	< 10	40	< 10	12
H564023	299	229	0.02	8	230	14	2	4	17	0.02	< 10	< 10	34	< 10	16
H564024	299	229	0.02	6	380	10	2	4	29	0.03	< 10	< 10	32	< 10	14
H564025	299	229	0.01	3	200	< 2	4	4	25	0.03	< 10	< 10	30	< 10	12
H564026	299	229	0.01	4	260	8	2	4	20	0.02	< 10	< 10	32	< 10	14
H564027	299	229	0.01	7	280	4	4	5	20	< 0.01	< 10	< 10	33	< 10	10
H564028	299	229	0.01	6	330	6	2	6	21	< 0.01	< 10	< 10	32	< 10	12
H564029	299	229	0.01	8	360	8	4	4	21	0.01	< 10	< 10	32	< 10	16

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO 127
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :2
Certificate Date: 02-JUN-93
Invoice No. :I9314913
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314913

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H570001	208 276	0.30	0.036	0.48	10300
H570002	208 273	0.29	0.097	0.45	13020
H570003	208 274	0.22	0.038	0.34	4960
H570004	208 276	0.33	0.067	0.48	8940
H570005	208 276	0.48	0.111	0.69	11000
H570006	208 273	0.35	0.082	0.58	12100
H570007	208 276	0.27	0.186	0.45	10700
H570008	208 276	0.25	0.240	0.34	10540
H570009	208 276	0.26	0.045	0.51	10560
H570010	208 274	0.28	0.028	0.65	6300
H570011	208 276	0.34	0.040	0.58	10620
H570012	208 276	0.25	0.052	1.75	10640
H570013	208 276	0.17	0.063	0.24	10040
H570014	208 276	0.15	0.070	0.21	11140
H570015	208 276	0.09	0.011	0.17	9700
H570016	208 276	0.01	0.013	0.03	11580
H570017	208 276	0.04	0.005	0.10	11120
H570018	208 273	0.10	0.014	0.17	12360
H570019	208 276	0.20	0.115	0.24	10760
H570020	208 273	0.11	0.017	0.14	12580
H570021	208 273	0.19	0.008	0.14	12520
H570022	208 274	0.11	0.007	0.10	6760
H570023	208 274	0.07	0.006	0.07	7000
H570024	208 276	0.33	0.008	0.21	11060
H570025	208 276	0.07	0.004	0.07	10160
H570026	208 276	0.02	0.006	< 0.03	8700
H570027	208 274	0.04	0.004	< 0.03	5020
H570028	208 273	0.11	0.006	0.10	15720
H570029	208 273	0.06	0.025	0.10	11960
H570030	208 273	0.11	0.029	0.14	14240
H570031	208 273	0.16	0.014	0.21	12300
H570032	208 276	0.03	0.011	0.07	8740
H570033	208 273	0.03	0.006	< 0.03	12420
H570034	208 276	0.10	0.006	< 0.03	9140
H570035	208 276	0.17	0.049	0.24	10680
H570036	208 276	0.10	0.044	0.14	11380
H570037	208 274	0.14	0.050	0.17	6420
H570038	208 276	0.17	0.032	0.21	10700
H570039	208 273	0.15	0.017	0.17	12480
H570040	208 276	0.08	0.018	0.07	10900

CERTIFICATION: _____

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Project : CASINO 127
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Page [illegible] :2
Total Pages :2
Certificate Date: 02-JUN-93
Invoice No. : I9314913
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314913

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570041	208	276	0.15	0.037	0.21	11420						
H570042	208	276	0.09	0.054	0.10	11500						
H570043	208	273	0.08	0.047	0.07	12500						
H570044	208	274	0.13	0.026	0.14	5900						
H570045	208	276	0.10	0.024	0.10	9680						
H570046	208	276	0.10	0.028	0.10	9460						
H570047	208	274	0.11	0.025	0.17	5980						
H570048	208	276	0.15	0.026	0.17	10460						
H570049	208	273	0.10	0.037	0.14	14960						
H570050	208	276	0.09	0.031	0.14	7700						
H570051	208	276	0.04	0.024	0.07	7920						
H570052	208	276	0.02	0.024	0.07	7900						
H570053	208	273	0.03	0.008	0.07	11900						
H570054	208	276	0.05	0.004	0.10	10920						
H570055	208	276	0.06	0.014	0.07	9940						
H570056	208	276	0.08	0.004	0.03	11480						

CERTIFICATION: [signature]

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 127
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-JUN-93
Invoice No. : 19314914
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314914

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B570001	299	229	5.3	1.70	14	100	< 0.5	< 2	1.12	4.0	17	84	2970	4.23	10	< 1	0.52	40	0.90	245	204
B570002	299	229	1.9	1.76	< 2	120	< 0.5	< 2	1.05	1.0	19	86	2640	3.76	10	< 1	0.65	20	1.12	230	541
B570003	299	229	1.7	1.78	4	120	< 0.5	< 2	1.55	1.0	16	83	1990	4.15	10	< 1	0.62	20	1.15	245	216
B570004	299	229	2.7	1.65	10	100	< 0.5	< 2	1.10	0.5	21	88	3130	3.78	10	< 1	0.65	10	1.09	190	377
B570005	299	229	2.7	2.03	12	120	< 0.5	< 2	1.30	2.5	26	84	4840	4.00	10	< 1	0.70	20	1.39	295	645
B570006	299	229	2.3	1.90	14	140	< 0.5	< 2	1.32	1.0	19	102	3520	3.11	10	< 1	0.74	20	1.02	300	498
B570007	299	229	1.7	1.30	14	100	< 0.5	< 2	1.41	< 0.5	22	104	2580	3.52	10	< 1	0.57	10	0.46	175	1065
B570008	299	229	2.0	1.61	8	130	< 0.5	2	1.56	0.5	21	104	2470	4.82	10	< 1	0.64	10	0.67	205	1415
B570009	299	229	1.8	1.25	8	140	< 0.5	2	2.45	0.5	19	118	2580	2.42	10	< 1	0.61	< 10	0.52	165	273
B570010	299	229	1.2	1.76	< 2	220	< 0.5	< 2	1.58	0.5	16	82	2680	2.83	10	< 1	0.61	10	0.73	135	166
B570011	299	229	1.7	1.33	4	220	0.5	< 2	2.16	0.5	20	104	3460	2.52	10	< 1	0.70	10	0.77	180	226
B570012	299	229	1.2	1.01	28	80	< 0.5	2	2.11	1.0	14	96	2570	1.87	10	< 1	0.47	10	0.44	145	297
B570013	299	229	1.0	1.23	6	150	0.5	< 2	1.82	0.5	13	82	1745	1.54	10	< 1	0.56	10	0.54	135	383
B570014	299	229	0.6	1.25	4	170	< 0.5	< 2	1.35	0.5	15	74	1410	1.83	10	< 1	0.69	10	0.75	135	410
B570015	299	229	0.4	1.69	8	260	< 0.5	< 2	1.06	0.5	9	85	854	2.67	10	< 1	0.90	20	1.21	180	74
B570016	299	229	< 0.2	1.69	< 2	260	< 0.5	< 2	0.82	< 0.5	8	99	159	3.04	10	< 1	0.93	20	1.35	170	72
B570017	299	229	< 0.2	1.73	< 2	280	< 0.5	< 2	0.69	< 0.5	9	107	351	3.11	10	< 1	0.95	10	1.47	170	28
B570018	299	229	0.8	1.76	< 2	290	< 0.5	< 2	0.94	< 0.5	9	112	939	2.85	10	< 1	0.93	20	1.38	175	87
B570019	299	229	1.6	1.83	28	110	< 0.5	< 2	1.70	< 0.5	13	108	2020	3.84	10	< 1	0.80	20	1.06	200	637
B570020	299	229	1.2	1.81	< 2	270	< 0.5	< 2	1.81	1.0	10	102	1115	2.66	10	< 1	0.78	20	1.29	220	116
B570021	299	229	5.0	1.73	< 2	250	< 0.5	2	2.75	8.5	12	90	1925	2.41	10	< 1	0.72	< 10	0.88	255	45
B570022	299	229	2.6	1.78	< 2	240	< 0.5	< 2	1.68	1.5	7	93	1085	3.60	10	< 1	0.77	10	1.10	220	35
B570023	299	229	0.9	2.12	< 2	270	< 0.5	< 2	1.46	1.0	8	95	674	2.36	10	< 1	0.80	10	1.23	180	34
B570024	299	229	4.1	1.61	12	170	< 0.5	2	2.43	3.0	15	76	3360	2.65	10	< 1	0.69	< 10	0.98	180	47
B570025	299	229	0.5	1.81	4	330	< 0.5	< 2	1.11	< 0.5	8	92	694	2.37	10	< 1	0.91	20	1.44	145	21
B570026	299	229	< 0.2	1.85	< 2	300	< 0.5	< 2	1.01	< 0.5	7	106	207	2.90	10	< 1	0.83	20	1.43	160	35
B570027	299	229	0.3	2.01	< 2	300	< 0.5	< 2	1.28	< 0.5	7	87	430	3.00	10	< 1	0.83	10	1.30	150	22
B570028	299	229	1.4	1.98	< 2	300	< 0.5	< 2	1.34	< 0.5	10	82	1110	3.24	10	< 1	0.87	20	1.30	165	37
B570029	299	229	0.4	1.53	4	280	< 0.5	< 2	0.95	< 0.5	8	91	654	3.42	10	< 1	0.92	20	1.23	160	161
B570030	299	229	1.7	2.06	6	280	< 0.5	< 2	1.34	1.5	7	82	1075	3.01	10	< 1	0.88	30	1.21	180	166
B570031	299	229	1.4	1.86	2	260	< 0.5	< 2	1.44	< 0.5	8	89	1675	2.87	10	< 1	0.76	20	0.97	150	84
B570032	299	229	< 0.2	1.68	< 2	380	< 0.5	< 2	0.93	< 0.5	9	108	306	3.34	10	< 1	0.99	20	1.42	210	64
B570033	299	229	< 0.2	2.13	< 2	380	< 0.5	< 2	1.74	< 0.5	9	87	288	3.24	10	< 1	1.01	20	1.53	230	41
B570034	299	229	0.4	1.89	6	420	< 0.5	2	1.55	< 0.5	10	105	1090	3.60	10	< 1	0.96	10	1.32	190	35
B570035	299	229	0.7	1.28	12	200	< 0.5	< 2	1.70	< 0.5	7	95	1665	1.73	10	< 1	0.61	10	0.67	110	290
B570036	299	229	0.5	1.21	< 2	130	< 0.5	< 2	1.21	< 0.5	6	107	1070	1.89	10	< 1	0.68	20	0.67	90	254
B570037	299	229	0.7	0.99	6	150	< 0.5	< 2	0.80	< 0.5	7	114	1445	1.83	10	< 1	0.55	20	0.50	80	304
B570038	299	229	0.7	1.00	8	240	< 0.5	< 2	0.74	< 0.5	7	109	1750	1.89	10	< 1	0.54	20	0.52	75	202
B570039	299	229	0.7	0.84	8	240	< 0.5	< 2	0.95	< 0.5	6	99	1605	1.46	10	< 1	0.52	10	0.47	80	115
B570040	299	229	0.4	0.71	4	80	< 0.5	2	2.07	< 0.5	4	89	814	1.24	< 10	< 1	0.32	< 10	0.33	115	110

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 127
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. : 1-B
Total Pages : 2
Certificate Date: 08-JUN-93
Invoice No. : I9314914
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314914

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570001	299	229	0.01	10	500	82	< 2	2	30	0.01	< 10	< 10	24	< 10	232
H570002	299	229	0.02	13	510	10	< 2	4	36	0.04	< 10	< 10	33	< 10	112
H570003	299	229	0.01	12	540	26	< 2	3	37	0.03	< 10	< 10	30	< 10	124
H570004	299	229	0.01	11	400	20	2	3	37	0.03	< 10	< 10	31	< 10	106
H570005	299	229	0.02	16	550	18	2	6	43	0.04	< 10	< 10	40	< 10	324
H570006	299	229	0.01	12	470	24	2	4	31	0.03	< 10	< 10	30	< 10	146
H570007	299	229	0.01	11	390	8	8	3	21	0.02	< 10	< 10	15	< 10	88
H570008	299	229	0.01	11	360	14	10	3	26	0.03	< 10	< 10	12	< 10	152
H570009	299	229	0.01	11	420	14	2	4	30	0.02	< 10	< 10	31	< 10	94
H570010	299	229	0.01	12	480	12	< 2	4	40	0.03	< 10	< 10	34	< 10	108
H570011	299	229	0.01	12	430	10	< 2	4	30	0.05	< 10	< 10	37	< 10	110
H570012	299	229	0.01	8	410	18	4	3	25	0.02	< 10	< 10	25	< 10	122
H570013	299	229	0.01	11	350	22	4	3	31	0.03	< 10	< 10	23	< 10	92
H570014	299	229	0.02	9	390	16	< 2	4	24	0.05	< 10	< 10	30	< 10	84
H570015	299	229	0.04	14	760	18	< 2	7	27	0.12	< 10	< 10	56	< 10	90
H570016	299	229	0.06	14	760	12	< 2	8	27	0.16	< 10	< 10	60	< 10	84
H570017	299	229	0.07	16	810	12	< 2	8	29	0.17	< 10	< 10	65	< 10	60
H570018	299	229	0.06	15	720	14	< 2	7	31	0.14	< 10	< 10	59	< 10	76
H570019	299	229	0.03	13	640	8	4	4	30	0.07	< 10	< 10	34	< 10	58
H570020	299	229	0.03	14	890	18	< 2	6	34	0.10	< 10	< 10	50	< 10	144
H570021	299	229	0.03	14	750	250	2	5	33	0.06	< 10	< 10	38	< 10	640
H570022	299	229	0.03	14	920	72	< 2	6	30	0.10	< 10	< 10	51	< 10	212
H570023	299	229	0.04	14	810	44	< 2	7	38	0.11	< 10	< 10	52	< 10	126
H570024	299	229	0.02	13	520	42	2	4	39	0.06	< 10	< 10	34	< 10	248
H570025	299	229	0.04	15	800	34	< 2	7	38	0.13	< 10	< 10	56	< 10	66
H570026	299	229	0.05	15	820	12	< 2	7	37	0.13	< 10	< 10	56	< 10	60
H570027	299	229	0.03	14	850	10	< 2	7	38	0.11	< 10	< 10	56	< 10	56
H570028	299	229	0.04	16	770	22	< 2	6	32	0.11	< 10	< 10	49	10	72
H570029	299	229	0.05	14	760	18	2	7	24	0.14	< 10	< 10	58	< 10	76
H570030	299	229	0.03	13	750	22	< 2	6	35	0.11	< 10	< 10	46	< 10	194
H570031	299	229	0.02	12	640	12	< 2	4	36	0.07	< 10	< 10	38	< 10	62
H570032	299	229	0.06	15	850	14	< 2	8	31	0.15	< 10	< 10	63	< 10	56
H570033	299	229	0.03	14	780	14	< 2	7	51	0.13	< 10	< 10	59	< 10	54
H570034	299	229	0.06	16	860	8	2	7	37	0.13	< 10	< 10	58	< 10	50
H570035	299	229	0.02	8	320	12	2	4	32	0.03	< 10	< 10	29	< 10	40
H570036	299	229	0.03	8	290	38	2	6	23	0.07	< 10	< 10	42	< 10	32
H570037	299	229	0.02	6	200	6	< 2	3	22	0.04	< 10	< 10	26	< 10	26
H570038	299	229	0.03	7	180	4	< 2	4	25	0.04	< 10	< 10	33	< 10	28
H570039	299	229	0.03	7	230	6	< 2	4	24	0.03	< 10	< 10	33	< 10	28
H570040	299	229	0.02	4	150	8	< 2	1	28	< 0.01	< 10	< 10	8	< 10	26

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 127
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 08-JUN-93
Invoice No. :19314914
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Account :FC

CERTIFICATE OF ANALYSIS A9314914

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570041	299	229	0.7	0.96	6	120	0.5	< 2	1.10	< 0.5	7	78	1445	1.38	10	< 1	0.68	10	0.67	90	217
H570042	299	229	0.4	1.04	12	120	0.5	< 2	1.18	< 0.5	6	85	949	1.27	10	< 1	0.79	10	0.83	100	323
H570043	299	229	0.6	0.91	6	150	0.5	2	1.32	< 0.5	6	65	806	1.44	10	< 1	0.48	10	0.54	90	271
H570044	299	229	0.7	1.34	10	190	0.5	< 2	1.45	< 0.5	12	73	1385	1.88	10	< 1	0.64	10	0.83	115	152
H570045	299	229	0.4	0.79	4	130	< 0.5	2	1.10	< 0.5	6	87	1045	1.09	10	< 1	0.47	10	0.50	75	133
H570046	299	229	0.4	0.93	12	140	0.5	< 2	1.18	< 0.5	4	80	1045	1.08	10	< 1	0.56	10	0.62	80	165
H570047	299	229	0.6	0.85	< 2	150	< 0.5	2	0.88	< 0.5	6	85	1080	1.25	10	< 1	0.58	20	0.57	70	166
H570048	299	229	0.7	0.88	6	150	< 0.5	< 2	0.89	< 0.5	7	87	1485	1.34	10	< 1	0.59	20	0.58	75	164
H570049	299	229	0.5	0.80	< 2	130	< 0.5	< 2	0.60	< 0.5	6	85	1050	1.65	10	< 1	0.62	30	0.63	100	225
H570050	299	229	0.6	0.77	2	150	< 0.5	< 2	0.59	< 0.5	7	96	1060	1.23	10	< 1	0.50	30	0.57	105	214
H570051	299	229	0.2	1.85	8	330	< 0.5	< 2	0.81	< 0.5	10	114	432	3.91	10	< 1	1.14	10	1.41	210	145
H570052	299	229	< 0.2	1.71	< 2	210	0.5	< 2	0.81	< 0.5	9	107	258	3.74	10	< 1	0.98	10	1.37	165	145
H570053	299	229	< 0.2	1.61	8	240	< 0.5	< 2	0.59	< 0.5	9	94	332	3.00	10	< 1	0.88	10	1.41	160	49
H570054	299	229	0.2	1.77	8	260	< 0.5	< 2	0.53	< 0.5	12	103	475	2.62	10	< 1	1.01	10	1.54	155	27
H570055	299	229	0.2	1.72	< 2	260	< 0.5	< 2	0.50	< 0.5	11	102	658	2.94	10	< 1	1.01	10	1.48	135	87
H570056	299	229	0.3	1.92	< 2	290	< 0.5	< 2	0.57	< 0.5	11	117	774	3.31	10	< 1	1.06	10	1.59	170	23

CERTIFICATION: Ian Bradley

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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 127
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-JUN-93
Invoice No. :19314914
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314914

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570041	299	229	0.03	8	340	6	2	6	19	0.07	< 10	< 10	31	< 10	32
H570042	299	229	0.05	8	470	12	2	6	21	0.09	< 10	< 10	35	< 10	30
H570043	299	229	0.02	9	460	6	2	4	23	0.03	< 10	< 10	23	< 10	28
H570044	299	229	0.03	11	580	12	< 2	5	30	0.06	< 10	< 10	34	< 10	32
H570045	299	229	0.02	6	230	6	< 2	3	22	0.03	< 10	< 10	22	< 10	20
H570046	299	229	0.02	7	220	4	< 2	5	25	0.04	< 10	< 10	28	< 10	20
H570047	299	229	0.02	6	270	4	< 2	5	21	0.05	< 10	< 10	29	< 10	22
H570048	299	229	0.03	7	320	8	< 2	7	21	0.06	< 10	< 10	39	< 10	24
H570049	299	229	0.03	7	240	10	2	7	17	0.07	< 10	< 10	42	< 10	24
H570050	299	229	0.05	7	320	8	2	6	22	0.04	< 10	< 10	29	< 10	28
H570051	299	229	0.08	16	870	14	2	8	35	0.16	< 10	< 10	67	< 10	48
H570052	299	229	0.07	17	890	18	< 2	7	29	0.14	< 10	< 10	60	< 10	38
H570053	299	229	0.07	17	920	6	< 2	7	29	0.14	< 10	< 10	55	< 10	36
H570054	299	229	0.07	18	890	6	< 2	8	35	0.18	< 10	< 10	62	< 10	38
H570055	299	229	0.09	16	880	6	< 2	8	47	0.18	< 10	< 10	65	< 10	42
H570056	299	229	0.09	17	940	6	< 2	8	160	0.19	< 10	< 10	69	< 10	60

CERTIFICATION: Hart Bichler

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Project : CASINO/128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

CERTIFICATE OF ANALYSIS A9315362

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570143	208	274	0.15	0.083	0.17	6460						
H570144	208	273	0.19	0.061	0.31	12740						
H570145	208	273	0.17	0.023	0.21	12900						
H570146	208	273	0.14	0.041	0.21	12920						
H570147	208	273	0.19	0.098	0.17	13300						
H570148	208	273	0.18	0.083	0.17	12300						
H570149	208	273	0.13	0.048	0.14	12460						
H570150	208	273	0.20	0.059	0.24	12880						
H570151	208	273	0.15	0.080	0.21	13160						
H570152	208	273	0.14	0.030	0.17	12650						
H570153	208	273	0.15	0.041	0.21	13600						
H570154	208	273	0.22	0.055	0.34	12440						
H570155	208	276	0.14	0.098	0.27	11540						
H570156	208	276	0.13	0.108	0.17	10900						
H570157	208	276	0.15	0.091	0.21	11320						
H570158	208	276	0.16	0.032	0.17	11580						
H570159	208	276	0.16	0.027	0.21	11280						
H570160	208	276	0.16	0.035	0.17	11800						
H570161	208	276	0.13	0.029	0.14	10640						
H570162	208	276	0.13	0.050	0.14	10780						
H570163	208	276	0.18	0.061	0.24	8740						
H570164	208	276	0.14	0.050	0.14	11060						
H570165	208	274	0.13	0.019	0.10	5820						
H570166	208	276	0.09	0.024	0.07	8440						
H570167	208	274	0.09	0.030	0.10	5320						
H570168	208	276	0.24	0.087	0.48	10140						
H570169	208	273	0.10	0.015	0.10	12640						
H570170	208	276	0.14	0.032	0.17	11520						
H570171	208	273	0.11	0.028	0.07	12500						
H570172	208	274	0.18	0.040	0.14	6480						
H570173	208	276	0.11	0.043	0.10	11640						
H570174	208	273	0.12	0.042	0.10	12540						
H570175	208	273	0.19	0.044	0.17	12140						
H570176	208	276	0.13	0.050	0.10	11640						
H570177	208	273	0.08	0.045	0.10	12540						
H570178	208	276	0.11	0.061	0.10	10900						
H570179	208	273	0.18	0.078	0.31	12560						
H570180	208	273	0.15	0.083	0.14	12540						
H570181	208	273	0.19	0.046	0.21	12980						
H570182	208	273	0.13	0.071	0.10	13380						

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Project : CASINO/128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-JUN-93
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Account :FC

CERTIFICATE OF ANALYSIS A9315362

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570183	208	273	0.10	0.025	0.10	13400						
H570184	208	273	0.08	0.071	0.03	13140						
H570185	208	273	0.24	0.046	0.27	13520						
H570186	208	273	0.12	0.060	0.10	12740						
H570187	208	273	0.07	0.027	0.03	14220						
H570188	208	276	0.07	0.016	0.61	8660						
H570189	208	273	0.19	0.020	0.24	14300						
H570190	208	276	0.14	0.014	0.14	9840						
H570191	208	273	0.07	0.006	0.03	14640						
H570192	208	276	0.16	0.026	0.14	11540						
H570193	208	274	0.22	0.005	0.09	5280						
H570194	208	273	0.07	0.007	0.07	14340						
H570195	208	273	0.08	0.016	< 0.03	12680						
H570196	208	273	0.05	0.024	< 0.03	12420						
H570197	208	273	0.06	0.019	0.03	15760						
H570198	208	273	0.07	0.030	0.03	14660						
H570199	208	273	0.12	0.041	0.14	14700						
H570200	208	273	0.11	0.023	0.10	13960						
H570201	208	276	0.14	0.037	0.07	11500						
H570202	208	276	0.10	0.071	0.07	11540						
H570203	208	276	0.11	0.081	0.10	11380						
H570204	208	273	0.12	0.033	0.14	12620						
H570205	208	273	0.19	0.058	0.21	14660						
H570206	208	273	0.24	0.033	0.27	13860						
H570207	208	273	0.33	0.033	0.31	13400						
H570208	208	273	0.23	0.092	0.34	13460						
H570209	208	273	0.06	0.097	0.03	13400						
H570210	208	273	0.13	0.086	0.14	14540						
H570211	208	273	0.08	0.067	< 0.03	14040						
H570212	208	273	0.13	0.015	0.14	12460						
H570213	208	273	0.03	0.017	< 0.03	12240						
H570214	208	273	0.11	0.013	0.03	12960						
H570215	208	273	0.06	0.013	< 0.03	13280						
H570216	208	273	0.05	0.015	< 0.03	12220						
H570217	208	273	0.05	0.009	< 0.03	12840						
H570218	208	273	0.12	0.019	0.14	12480						
H570219	208	273	0.08	0.015	< 0.03	12800						
H570220	208	273	0.05	0.011	< 0.03	12340						
H570221	208	273	0.02	0.009	< 0.03	11940						
H570222	208	273	0.04	0.013	< 0.03	12540						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-JUN-03
Invoice No. : 19315362
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315362

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H570223	208	273	0.08	0.026	< 0.03	12120
H570224	208	273	0.03	0.016	< 0.03	12440
H570225	208	273	0.01	0.006	< 0.03	12640
H570226	208	273	0.03	0.015	< 0.03	12600
H570227	208	273	0.20	0.026	0.17	12500
H570228	208	273	0.04	0.011	< 0.03	12440
H570229	208	273	0.06	0.015	< 0.03	12400
H570230	208	273	0.09	0.052	< 0.03	12840
H570231	208	276	0.18	0.025	0.10	11600
H570232	--	--	miss.	miss.	miss.	miss.

CERTIFICATION: _____

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-JUN 93
Invoice No. : I9315363
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315363

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B570143	299	229	0.6	1.24	2	80	0.5	< 2	1.34	0.5	13	102	1485	2.67	< 10	< 1	0.58	30	0.93	200	486
B570144	299	229	1.0	1.23	6	140	0.5	< 2	1.12	< 0.5	16	92	1995	2.92	< 10	< 1	0.57	30	0.81	190	369
B570145	299	229	1.0	1.09	12	70	0.5	< 2	1.50	< 0.5	12	94	1700	2.77	< 10	< 1	0.54	30	0.56	215	134
B570146	299	229	0.8	1.21	4	170	0.5	< 2	1.07	< 0.5	10	88	1360	3.04	< 10	< 1	0.54	30	0.60	190	205
B570147	299	229	1.4	0.72	24	110	< 0.5	< 2	0.81	< 0.5	14	55	2050	3.16	< 10	< 1	0.37	40	0.38	315	594
B570148	299	229	1.4	0.95	20	70	< 0.5	< 2	0.96	< 0.5	12	77	1950	2.42	< 10	< 1	0.38	40	0.40	245	520
B570149	299	229	0.8	1.02	20	60	< 0.5	< 2	0.78	< 0.5	14	79	1455	2.13	< 10	< 1	0.30	40	0.37	125	283
B570150	299	229	1.4	0.89	10	50	< 0.5	< 2	0.96	< 0.5	10	73	2040	2.28	< 10	< 1	0.29	40	0.42	160	344
B570151	299	229	1.0	1.28	20	60	0.5	< 2	1.79	0.5	13	89	1495	3.75	< 10	< 1	0.49	20	0.72	250	449
B570152	299	229	0.8	1.01	12	210	0.5	2	1.14	< 0.5	15	75	1355	3.61	< 10	< 1	0.46	20	0.60	230	174
B570153	299	229	0.6	1.44	6	130	0.5	2	1.02	< 0.5	10	84	1355	1.87	< 10	< 1	0.65	30	0.80	150	224
B570154	299	229	1.2	1.41	< 2	90	0.5	< 2	1.38	0.5	15	93	2180	2.79	10	< 1	0.82	40	0.87	225	302
B570155	299	229	1.6	1.23	32	70	0.5	2	1.03	0.5	19	56	1445	4.00	< 10	< 1	0.48	40	0.55	330	563
B570156	299	229	0.8	1.04	12	100	0.5	< 2	0.70	0.5	14	70	1285	2.73	< 10	< 1	0.38	30	0.35	230	645
B570157	299	229	0.8	1.23	14	190	0.5	< 2	0.44	0.5	14	68	1635	2.49	< 10	< 1	0.37	30	0.26	205	566
B570158	299	229	0.8	1.11	36	180	0.5	< 2	0.29	< 0.5	12	66	1730	3.14	< 10	< 1	0.29	40	0.23	245	203
B570159	299	229	0.6	0.97	6	110	0.5	< 2	1.40	0.5	14	89	1640	3.30	< 10	< 1	0.46	30	0.44	220	152
B570160	299	229	1.0	1.49	2	250	0.5	< 2	1.87	0.5	16	97	1695	4.09	10	< 1	0.65	30	0.88	235	188
B570161	299	229	0.6	1.31	4	100	0.5	< 2	0.46	0.5	17	98	1330	5.42	< 10	< 1	0.63	20	0.90	205	173
B570162	299	229	0.6	1.31	4	100	0.5	< 2	0.30	< 0.5	15	96	1325	3.33	< 10	< 1	0.83	20	1.01	170	280
B570163	299	229	0.8	1.30	< 2	100	0.5	< 2	0.26	0.5	17	61	1810	3.44	< 10	< 1	0.87	20	1.13	160	363
B570164	299	229	0.6	1.43	< 2	110	0.5	< 2	0.30	0.5	16	102	1330	3.26	< 10	< 1	0.87	20	1.03	165	282
B570165	299	229	0.6	0.93	4	70	< 0.5	< 2	0.40	< 0.5	14	74	1275	2.75	< 10	< 1	0.38	30	0.68	155	141
B570166	299	229	0.6	1.65	2	120	0.5	< 2	0.34	< 0.5	10	129	969	2.46	< 10	< 1	0.88	30	1.12	200	162
B570167	299	229	0.8	1.65	12	200	0.5	2	0.43	0.5	13	122	902	2.06	< 10	1	0.86	30	1.17	225	177
B570168	299	229	2.0	1.34	8	150	0.5	4	0.42	< 0.5	11	128	2400	2.35	< 10	< 1	0.72	40	0.80	260	510
B570169	299	229	0.6	1.59	8	150	0.5	< 2	0.42	< 0.5	15	108	1030	2.99	< 10	< 1	0.83	30	1.04	230	96
B570170	299	229	1.0	1.24	8	150	0.5	< 2	1.01	< 0.5	16	79	1295	2.53	< 10	< 1	0.55	30	0.69	155	171
B570171	299	229	0.6	1.14	6	80	0.5	< 2	1.55	< 0.5	12	99	1060	2.31	< 10	< 1	0.55	40	0.58	175	161
B570172	299	229	1.4	0.98	36	140	< 0.5	2	1.34	0.5	16	86	1800	2.79	< 10	< 1	0.39	30	0.59	190	232
B570173	299	229	0.6	0.93	26	80	< 0.5	< 2	0.90	< 0.5	10	77	968	2.28	< 10	< 1	0.32	30	0.32	190	231
B570174	299	229	0.4	1.02	12	150	0.5	2	0.84	0.5	11	87	1220	2.99	< 10	< 1	0.33	30	0.28	195	240
B570175	299	229	0.8	1.52	28	130	0.5	< 2	0.81	0.5	14	62	1860	4.16	< 10	< 1	0.23	30	0.34	275	244
B570176	299	229	0.8	1.04	28	120	0.5	< 2	0.88	0.5	14	65	1260	3.66	< 10	< 1	0.39	30	0.41	370	286
B570177	299	229	0.6	0.86	2	140	< 0.5	2	1.15	0.5	11	87	757	2.06	< 10	< 1	0.41	30	0.46	235	272
B570178	299	229	0.6	0.99	8	190	< 0.5	2	1.75	1.0	12	71	1160	2.15	< 10	< 1	0.26	30	0.60	165	355
B570179	299	229	0.8	0.93	30	220	< 0.5	< 2	0.81	0.5	12	73	1760	2.98	< 10	< 1	0.20	50	0.27	230	456
B570180	299	229	0.6	1.22	34	180	0.5	< 2	0.85	0.5	15	72	1515	3.80	< 10	< 1	0.30	40	0.30	260	500
B570181	299	229	1.2	1.12	46	220	0.5	< 2	0.52	< 0.5	18	89	2140	3.33	< 10	< 1	0.31	40	0.23	200	299
B570182	299	229	0.6	1.25	8	390	0.5	< 2	1.22	< 0.5	11	90	1205	3.05	< 10	< 1	0.64	30	0.56	135	415

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-JUN-93
Invoice No. : 19315363
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315363

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B570143	299	229	0.02	9	420	24	2	4	31	0.05	< 10	< 10	34	< 10	62
B570144	299	229	0.01	9	450	36	2	3	31	0.03	< 10	< 10	34	< 10	66
B570145	299	229	0.01	8	380	14	< 2	3	24	0.02	< 10	< 10	26	< 10	48
B570146	299	229	0.01	9	430	8	2	2	25	0.01	< 10	< 10	26	< 10	48
B570147	299	229	0.01	9	450	8	4	2	15	0.01	< 10	< 10	18	< 10	58
B570148	299	229	0.01	8	430	10	8	3	18	< 0.01	< 10	< 10	23	< 10	66
B570149	299	229	0.01	8	370	10	4	3	15	< 0.01	< 10	< 10	25	< 10	52
B570150	299	229	0.01	8	360	8	8	3	17	< 0.01	< 10	< 10	22	< 10	64
B570151	299	229	0.01	9	460	8	12	3	24	0.01	< 10	< 10	30	< 10	70
B570152	299	229	0.01	10	300	10	< 2	3	34	0.01	< 10	< 10	29	< 10	44
B570153	299	229	0.01	9	360	6	< 2	3	37	0.02	< 10	< 10	27	< 10	44
B570154	299	229	0.01	8	330	4	2	3	27	0.03	< 10	< 10	33	< 10	58
B570155	299	229	0.01	14	700	20	6	4	13	0.01	< 10	< 10	28	< 10	106
B570156	299	229	0.01	12	510	16	6	3	13	< 0.01	< 10	< 10	21	< 10	88
B570157	299	229	0.01	11	510	12	4	3	17	< 0.01	< 10	< 10	21	< 10	68
B570158	299	229	0.01	12	440	14	6	4	14	< 0.01	< 10	< 10	30	< 10	58
B570159	299	229	0.01	10	360	14	8	2	23	< 0.01	< 10	< 10	24	< 10	56
B570160	299	229	0.02	13	490	18	2	3	53	0.02	< 10	< 10	34	< 10	62
B570161	299	229	0.04	13	400	14	2	3	20	0.04	< 10	< 10	45	< 10	64
B570162	299	229	0.05	12	530	12	< 2	4	16	0.07	< 10	< 10	41	< 10	48
B570163	299	229	0.02	12	390	16	< 2	4	13	0.07	< 10	< 10	41	< 10	56
B570164	299	229	0.05	12	430	14	< 2	4	17	0.05	< 10	< 10	39	< 10	56
B570165	299	229	0.02	10	250	6	< 2	2	17	0.01	< 10	< 10	25	< 10	40
B570166	299	229	0.03	11	330	8	2	4	19	0.05	< 10	< 10	40	< 10	50
B570167	299	229	0.05	13	500	18	< 2	4	23	0.08	< 10	< 10	40	< 10	64
B570168	299	229	0.02	9	420	8	2	2	20	0.03	< 10	< 10	22	< 10	56
B570169	299	229	0.03	12	500	6	2	3	20	0.04	< 10	< 10	36	< 10	50
B570170	299	229	0.01	10	370	6	2	2	26	0.02	< 10	< 10	26	< 10	42
B570171	299	229	0.01	10	350	16	4	2	19	0.01	< 10	< 10	25	< 10	50
B570172	299	229	0.01	12	490	22	16	5	24	0.01	< 10	< 10	35	< 10	66
B570173	299	229	0.01	8	430	18	4	3	18	< 0.01	< 10	< 10	23	< 10	54
B570174	299	229	0.01	11	420	14	2	3	18	< 0.01	< 10	< 10	24	< 10	40
B570175	299	229	0.01	15	890	30	4	6	16	< 0.01	< 10	< 10	42	< 10	58
B570176	299	229	0.01	12	500	18	12	3	19	< 0.01	< 10	< 10	27	< 10	80
B570177	299	229	0.01	9	670	14	2	3	26	< 0.01	< 10	< 10	18	< 10	94
B570178	299	229	0.01	12	730	20	< 2	4	27	< 0.01	< 10	< 10	27	< 10	160
B570179	299	229	0.01	11	590	14	4	5	17	< 0.01	< 10	< 10	31	< 10	66
B570180	299	229	0.01	13	520	16	12	5	18	< 0.01	< 10	< 10	39	< 10	50
B570181	299	229	0.01	14	440	18	8	4	16	< 0.01	< 10	< 10	33	< 10	50
B570182	299	229	0.01	10	370	10	14	3	44	0.02	< 10	< 10	25	< 10	38

CERTIFICATION: Bart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO 128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 2-A
Total Pages : 3
Certificate Date: 16-JUN-9
Invoice No. : 19315363
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315363

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R570183	299	229	0.6	0.84	16	60	< 0.5	2	1.85	< 0.5	13	72	928	3.06	< 10	< 1	0.46	30	0.63	225	144
R570184	299	229	0.4	1.38	18	70	0.5	< 2	1.16	< 0.5	9	87	799	2.49	< 10	< 1	0.67	30	0.87	150	417
R570185	299	229	1.2	1.61	12	190	0.5	< 2	1.19	0.5	15	93	2470	3.06	10	< 1	0.82	30	0.97	145	258
R570186	299	229	0.6	1.87	20	80	0.5	< 2	1.19	< 0.5	18	95	1255	3.25	10	< 1	0.70	40	1.02	195	356
R570187	299	229	0.4	1.80	20	170	< 0.5	< 2	0.74	< 0.5	14	107	752	3.17	< 10	< 1	0.95	20	1.43	195	157
R570188	299	229	0.4	1.83	4	160	0.5	< 2	1.03	< 0.5	10	102	659	1.89	10	< 1	0.51	10	1.32	185	89
R570189	299	229	1.2	1.96	14	140	0.5	< 2	1.34	0.5	20	97	1960	2.75	10	< 1	0.59	10	1.35	205	113
R570190	299	229	1.0	1.73	2	140	0.5	< 2	2.39	0.5	16	96	1350	2.75	10	< 1	0.66	20	1.22	175	74
R570191	299	229	0.4	1.87	6	210	< 0.5	< 2	0.93	< 0.5	15	121	677	2.35	10	< 1	0.76	20	1.42	185	37
R570192	299	229	1.6	2.89	14	130	1.0	10	4.72	< 0.5	12	76	1625	2.96	10	< 1	0.52	20	1.16	165	138
R570193	299	229	1.8	1.82	< 2	80	0.5	4	1.02	0.5	17	86	2290	2.95	10	< 1	0.78	30	1.28	160	25
R570194	299	229	0.4	1.70	8	100	< 0.5	< 2	1.44	0.5	14	105	668	2.83	10	< 1	0.88	20	1.31	155	38
R570195	299	229	0.4	1.12	8	120	< 0.5	2	1.90	< 0.5	11	123	756	2.40	< 10	< 1	0.54	20	0.67	105	88
R570196	299	229	< 0.2	0.93	< 2	50	< 0.5	< 2	2.19	< 0.5	8	115	455	2.99	10	< 1	0.38	30	0.62	105	143
R570197	299	229	0.2	1.28	2	60	0.5	< 2	2.82	< 0.5	11	111	623	3.20	10	< 1	0.41	20	0.72	120	99
R570198	299	229	0.2	1.10	< 2	50	0.5	< 2	2.34	< 0.5	13	117	781	4.04	10	< 1	0.54	30	0.83	120	179
R570199	299	229	0.4	1.16	< 2	80	0.5	< 2	2.99	< 0.5	13	101	1140	2.33	10	< 1	0.58	20	0.91	105	221
R570200	299	229	0.4	1.22	< 2	80	< 0.5	< 2	2.89	< 0.5	15	84	1005	2.88	10	< 1	0.65	20	1.04	135	120
R570201	299	229	0.8	1.51	4	100	0.5	< 2	2.15	< 0.5	21	89	1390	3.85	10	1	0.59	20	1.08	170	194
R570202	299	229	0.4	1.46	< 2	100	0.5	< 2	1.29	< 0.5	22	71	993	3.45	10	< 1	0.58	30	0.77	175	385
R570203	299	229	0.8	1.79	22	30	0.5	< 2	0.98	< 0.5	22	59	1180	3.96	< 10	< 1	0.20	30	0.37	145	490
R570204	299	229	0.8	1.39	26	30	0.5	< 2	0.71	< 0.5	20	54	1165	3.68	< 10	< 1	0.21	30	0.45	145	186
R570205	299	229	1.2	1.08	12	90	0.5	< 2	1.26	< 0.5	20	69	2000	3.69	< 10	< 1	0.54	20	0.66	315	320
R570206	299	229	1.6	1.44	8	140	0.5	< 2	1.96	< 0.5	25	72	2620	3.66	< 10	< 1	0.66	20	0.89	260	168
R570207	299	229	2.2	1.38	20	110	0.5	4	1.64	< 0.5	17	79	3330	3.26	< 10	< 1	0.56	20	0.89	165	185
R570208	299	229	1.6	1.41	14	120	0.5	4	1.24	< 0.5	26	109	2530	3.47	< 10	< 1	0.70	20	0.86	155	565
R570209	299	229	< 0.2	0.98	12	60	< 0.5	6	2.29	< 0.5	16	90	587	2.78	< 10	< 1	0.63	20	0.96	90	556
R570210	299	229	0.6	1.01	16	100	0.5	2	2.53	< 0.5	25	68	1285	3.25	< 10	< 1	0.57	20	0.99	115	492
R570211	299	229	0.2	1.45	8	120	0.5	4	2.52	< 0.5	18	107	759	2.68	10	< 1	0.49	20	0.92	195	370
R570212	299	229	0.6	1.22	20	40	0.5	6	2.34	< 0.5	19	109	1275	3.29	< 10	< 1	0.18	20	0.84	240	78
R570213	299	229	0.4	0.82	16	30	< 0.5	6	1.42	< 0.5	7	78	296	2.83	< 10	< 1	0.21	10	0.51	155	92
R570214	299	229	0.4	1.03	4	190	0.5	2	2.67	< 0.5	7	123	1140	1.79	< 10	1	0.41	10	0.93	135	71
R570215	299	229	0.2	1.05	10	80	0.5	2	1.92	< 0.5	6	113	582	1.54	< 10	< 1	0.59	20	0.85	85	73
R570216	299	229	0.6	0.80	8	40	< 0.5	4	1.76	1.5	7	90	442	3.29	< 10	< 1	0.34	10	0.55	160	82
R570217	299	229	0.2	1.00	6	80	0.5	2	1.49	< 0.5	6	128	447	1.21	< 10	< 1	0.38	20	0.44	70	49
R570218	299	229	0.4	1.29	6	120	0.5	2	1.39	< 0.5	8	153	1175	1.89	< 10	< 1	0.53	20	0.52	85	101
R570219	299	229	0.2	1.10	8	80	0.5	2	1.64	< 0.5	8	131	816	1.49	< 10	< 1	0.49	20	0.53	95	85
R570220	299	229	< 0.2	0.99	6	120	< 0.5	2	1.61	< 0.5	8	152	449	1.66	< 10	< 1	0.47	20	0.37	80	63
R570221	299	229	< 0.2	0.76	4	100	< 0.5	< 2	0.96	< 0.5	6	116	235	1.65	< 10	< 1	0.50	20	0.39	65	54
R570222	299	229	< 0.2	0.80	4	70	< 0.5	2	1.24	< 0.5	6	125	394	1.28	< 10	< 1	0.45	20	0.44	60	69

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page [illegible] :2-B
Total P[illegible] :3
Certificate Date: 16-JUN-[illegible]
Invoice No. :19315363
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315363

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B570183	299	229	0.01	10	420	8	8	3	18	0.02	< 10	< 10	34	< 10	34
B570184	299	229	0.01	11	450	8	10	6	18	0.04	< 10	< 10	43	< 10	32
B570185	299	229	0.03	15	570	12	8	4	41	0.05	< 10	< 10	40	< 10	52
B570186	299	229	0.03	19	860	10	2	6	55	0.06	< 10	< 10	48	< 10	56
B570187	299	229	0.08	19	850	14	< 2	6	38	0.11	< 10	< 10	64	< 10	62
B570188	299	229	0.06	16	850	14	< 2	4	133	0.06	< 10	< 10	48	< 10	52
B570189	299	229	0.09	22	850	18	< 2	4	137	0.05	< 10	< 10	51	< 10	72
B570190	299	229	0.05	19	690	8	< 2	4	89	0.04	< 10	< 10	47	< 10	56
B570191	299	229	0.10	21	850	6	< 2	6	57	0.08	< 10	< 10	60	< 10	50
B570192	299	229	0.04	14	640	20	4	3	129	0.02	< 10	< 10	39	20	66
B570193	299	229	0.04	18	810	38	2	4	83	0.06	< 10	< 10	46	< 10	90
B570194	299	229	0.06	19	860	12	< 2	6	74	0.09	< 10	< 10	58	< 10	70
B570195	299	229	0.03	12	480	8	2	3	108	0.03	< 10	< 10	38	< 10	50
B570196	299	229	0.03	11	400	4	< 2	3	122	0.02	< 10	< 10	40	< 10	30
B570197	299	229	0.02	11	350	4	2	3	121	0.01	< 10	< 10	36	< 10	24
B570198	299	229	0.03	13	370	2	< 2	4	140	0.04	< 10	< 10	47	< 10	30
B570199	299	229	0.02	12	320	4	< 2	4	172	0.05	< 10	< 10	48	< 10	26
B570200	299	229	0.03	14	430	2	< 2	4	166	0.07	< 10	< 10	55	< 10	30
B570201	299	229	0.02	17	370	4	2	4	148	0.04	< 10	< 10	55	< 10	38
B570202	299	229	0.01	14	360	2	4	4	54	0.02	< 10	< 10	42	< 10	34
B570203	299	229	0.01	15	530	8	4	6	16	< 0.01	< 10	< 10	39	< 10	48
B570204	299	229	< 0.01	13	450	4	8	5	16	< 0.01	< 10	< 10	40	< 10	30
B570205	299	229	0.01	12	380	6	< 2	4	29	0.01	< 10	< 10	29	< 10	34
B570206	299	229	0.01	16	450	2	< 2	6	47	0.03	< 10	< 10	44	< 10	38
B570207	299	229	0.01	12	450	4	4	6	73	0.03	< 10	< 10	44	< 10	34
B570208	299	229	0.04	18	300	6	2	6	43	0.06	< 10	< 10	50	< 10	32
B570209	299	229	0.04	12	370	6	2	6	179	0.06	< 10	< 10	39	< 10	18
B570210	299	229	0.02	14	590	8	2	6	185	0.08	< 10	< 10	49	< 10	24
B570211	299	229	0.02	12	460	12	2	5	136	0.04	< 10	< 10	37	< 10	22
B570212	299	229	< 0.01	19	430	10	4	6	31	< 0.01	< 10	< 10	27	< 10	32
B570213	299	229	0.01	10	330	18	< 2	4	20	< 0.01	< 10	< 10	23	< 10	22
B570214	299	229	0.01	11	370	4	6	3	100	0.01	< 10	< 10	32	< 10	20
B570215	299	229	0.03	12	490	4	2	6	79	0.05	< 10	< 10	54	< 10	14
B570216	299	229	0.01	8	330	56	< 2	3	39	0.01	< 10	< 10	22	< 10	80
B570217	299	229	0.03	8	350	6	2	2	45	0.01	< 10	< 10	20	< 10	16
B570218	299	229	0.03	11	330	6	< 2	4	35	0.02	< 10	< 10	34	< 10	20
B570219	299	229	0.02	11	250	4	2	3	34	0.02	< 10	< 10	23	< 10	18
B570220	299	229	0.02	10	320	4	< 2	2	37	0.01	< 10	< 10	21	< 10	14
B570221	299	229	0.02	8	310	2	< 2	2	33	0.01	< 10	< 10	17	< 10	12
B570222	299	229	0.03	6	370	8	< 2	3	36	0.01	< 10	< 10	24	< 10	12

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

CERTIFICATE OF ANALYSIS A9315363

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570223	299	229	0.2	0.89	4	60	0.5	< 2	1.13	< 0.5	6	127	721	1.14	< 10	1	0.40	30	0.53	65	159
H570224	299	229	< 0.2	0.82	2	120	< 0.5	< 2	1.51	< 0.5	4	181	319	1.01	10	< 1	0.47	20	0.64	55	95
H570225	299	229	< 0.2	0.55	4	80	< 0.5	4	2.11	< 0.5	3	131	96	0.98	< 10	< 1	0.26	20	0.46	50	36
H570226	299	229	< 0.2	0.79	4	90	< 0.5	4	2.40	< 0.5	4	131	263	1.75	< 10	< 1	0.27	20	0.54	65	84
H570227	299	229	1.2	1.13	6	150	0.5	6	2.75	< 0.5	6	95	2090	1.58	10	< 1	0.48	20	0.87	95	157
H570228	299	229	0.2	1.10	< 2	110	< 0.5	4	2.41	< 0.5	7	107	337	1.86	10	< 1	0.47	20	0.80	85	65
H570229	299	229	0.2	1.18	4	200	0.5	2	1.72	< 0.5	11	112	594	2.07	< 10	< 1	0.34	30	0.45	80	96
H570230	299	229	0.4	0.94	22	100	0.5	6	2.00	< 0.5	13	132	906	3.45	< 10	< 1	0.19	20	0.44	190	316
H570231	299	229	0.8	0.90	20	210	0.5	6	1.76	< 0.5	11	108	1820	2.09	< 10	< 1	0.22	30	0.61	115	156
H570232	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: [signature]

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 128
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-JUN-9
Invoice No. : I9315363
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315363

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570223	299	229	0.04	8	510	10	< 2	3	33	0.01	10	< 10	31	< 10	12
H570224	299	229	0.04	7	590	6	< 2	3	272	0.01	10	< 10	30	< 10	8
H570225	299	229	0.03	7	350	4	2	2	199	< 0.01	10	< 10	18	< 10	8
H570226	299	229	0.03	9	540	4	< 2	3	212	< 0.01	10	< 10	28	< 10	12
H570227	299	229	0.04	16	710	8	2	4	748	0.03	10	< 10	54	< 10	20
H570228	299	229	0.04	8	870	2	< 2	6	146	0.04	10	< 10	68	< 10	12
H570229	299	229	0.01	9	650	6	6	5	52	< 0.01	10	< 10	38	< 10	14
H570230	299	229	0.01	12	420	10	6	4	23	< 0.01	10	< 10	30	< 10	24
H570231	299	229	0.01	12	490	6	8	7	26	< 0.01	10	< 10	41	< 10	28
H570232	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 129
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-SEP-93
Invoice No. :19320774
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320774

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H566486	208 274	0.13	0.021	0.24	2800
H566487	208 276	0.15	0.046	0.27	8420
H566488	208 276	0.31	0.090	0.34	7700
H566489	208 273	0.44	0.033	0.51	11900
H566490	208 276	0.30	0.039	0.41	11680
H566491	208 276	0.53	0.035	0.69	7280
H566492	208 273	0.49	0.057	0.45	12180
H566493	208 276	0.47	0.034	0.51	11100
H566494	208 273	0.25	0.010	0.27	12540
H566495	208 276	0.29	0.173	0.31	9200
H566496	208 276	0.24	0.211	0.38	8700
H566497	208 276	0.12	0.089	0.21	10100
H566498	208 276	0.19	0.072	0.27	11100
H566499	208 273	0.17	0.027	0.21	11840
H566500	208 273	0.10	0.097	0.10	12860
H566501	208 276	0.27	0.091	0.45	11500
H566502	208 273	0.20	0.197	0.31	12240
H566503	208 273	0.12	0.035	0.21	12780
H566504	208 276	0.13	0.139	0.21	10300
H566505	208 276	0.18	0.059	0.17	11600
H566506	208 276	0.15	0.220	0.31	10380
H566507	208 273	0.12	0.116	0.14	12280
H566508	208 276	0.08	0.130	0.10	11280
H566509	208 273	0.07	0.316	0.10	14520
H566510	208 273	0.15	0.405	0.17	12980
H566511	208 273	0.15	0.152	0.14	12100
H566512	208 276	0.17	0.145	0.17	11720
H566513	208 273	0.14	0.124	0.17	12440
H566514	208 276	0.14	0.088	0.17	11300
H566515	208 273	0.09	0.157	0.07	12900
H566516	208 273	0.09	0.127	0.10	12200
H566517	208 273	0.08	0.226	0.14	13800
H566518	208 276	0.16	0.087	0.14	10640
H566519	208 276	0.10	0.033	0.14	11240
H566520	208 273	0.07	0.059	0.10	13280
H566521	208 273	0.08	0.135	0.10	11940
H566522	208 273	0.12	0.039	0.10	12880
H566523	208 273	0.15	0.078	0.17	12680
H566524	208 273	0.11	0.371	0.51	13240
H566525	208 276	0.10	0.095	0.14	11400

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Project : CASINO 129
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Certificate Date: 20-SEP-93
Invoice No. : 19320774
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320774

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566526	208	276	0.11	0.143	0.10	11040						
H566527	208	276	0.14	0.028	0.14	11040						
H566528	208	273	0.12	0.067	0.17	13220						
H566529	208	273	0.10	0.043	0.14	12220						
H566530	208	273	0.08	0.165	0.10	12520						
H566531	208	276	0.07	0.079	0.10	11520						
H566532	208	273	0.02	0.052	0.45	11920						
H566533	208	276	0.03	0.093	0.10	10460						
H566534	208	273	0.08	0.074	0.10	12040						
H566535	208	276	0.03	0.207	0.03	11760						
H566536	208	273	0.03	0.064	0.07	11900						
H566537	208	273	0.03	1.180	0.07	11980						
H566538	208	273	0.04	0.184	0.07	12880						
H566539	208	273	0.04	0.087	0.07	11880						
H566540	208	276	0.03	0.082	0.03	11500						
H566541	208	273	0.04	0.100	0.07	13000						
H566542	208	273	0.10	0.174	0.10	12080						
H566543	208	273	0.14	0.055	0.21	13040						
H566544	208	273	0.15	0.094	0.21	12600						
H566545	208	273	0.12	0.101	0.10	12700						
H566546	208	273	0.18	0.080	0.24	12280						
H566547	208	273	0.26	0.104	0.34	12500						
H566548	208	273	0.11	0.116	0.51	12000						
H566549	208	273	0.18	0.046	0.21	12680						
H566550	208	273	0.10	0.162	0.14	13000						
H566551	208	273	0.08	0.061	0.14	12820						
H566552	208	273	0.11	0.072	0.21	12880						
H566553	208	273	0.06	0.107	0.14	12200						
H566554	208	273	0.09	0.067	0.17	12300						
H566555	208	273	0.11	0.072	0.14	11880						
H566556	208	273	0.17	0.034	0.27	12320						
H566557	208	276	0.08	0.047	0.14	11000						
H566558	208	273	0.11	0.104	0.17	12480						
H566559	208	273	0.10	0.058	0.17	12360						
H566560	208	273	0.08	0.070	0.10	12920						
H566561	208	273	0.18	0.098	0.17	13100						
H566562	208	273	0.11	0.058	0.21	12320						
H566563	208	273	0.04	0.351	0.10	12200						
H566564	208	273	0.08	0.053	0.14	12400						
H566565	208	273	0.10	0.046	0.17	12000						

CERTIFICATION: A Chrétien

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 129
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page :3
Total :3
Certificate Date: 20-SEP-93
Invoice No. : I9320774
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320774

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H566566	208	273	0.14	0.068	0.17	12780
H566567	208	273	0.10	0.082	0.17	16020
H566568	208	273	0.09	0.114	0.17	12500
H566569	208	273	0.09	0.032	0.14	13720
H566570	208	276	0.07	0.051	0.17	7560
H566571	208	273	0.07	0.164	0.17	12860
H566572	208	273	0.06	0.106	0.14	12820
H566573	208	273	0.11	0.076	0.14	12860
H566574	208	273	0.08	0.044	0.14	12840
H566575	208	276	0.07	0.040	0.10	8720
H566576	208	276	0.12	0.020	0.17	8960
H566577	208	274	0.10	0.047	0.14	6420
H566578	208	274	0.08	0.041	0.17	6620
H566579	208	274	0.10	0.125	0.17	6980
H566580	208	274	0.06	0.078	0.21	6720
H566581	208	274	0.07	0.100	0.17	6960
H566582	208	274	0.21	0.063	0.27	6500
H566583	208	274	0.16	0.042	0.24	6400
H566584	208	274	0.10	0.052	0.14	7180
H566585	208	274	0.09	0.046	0.14	6780
H566586	208	274	0.11	0.051	0.21	7020
H566587	208	274	0.07	0.073	0.14	6720
H566588	208	274	0.08	0.053	0.14	6820
H566589	208	274	0.08	0.030	0.07	6720
H566590	208	274	0.08	0.026	0.14	7000
H566591	208	276	0.09	0.027	0.14	7660
H566592	208	276	0.06	0.085	0.14	7360
H566593	208	276	0.06	0.039	0.07	8020
H566594	208	274	0.06	0.040	0.07	7120
H566595	208	276	0.08	0.077	0.10	7300
H566596	208	276	0.06	0.039	0.10	7580
H566597	208	274	0.05	0.084	0.07	7220

CERTIFICATION: A. Chatrie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 129
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :3
Certificate Date: 20-SEP-93
Invoice No. :19320775
P.O. Number :
Account :FC

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CERTIFICATE OF ANALYSIS A9320775

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566486	299	229	0.6	0.49	4	340	< 0.5	< 2	1.69	< 0.5	5	77	1350	0.67	< 10	< 1	0.20	10	0.30	85	124
H566487	299	229	0.8	0.42	16	250	< 0.5	< 2	1.73	< 0.5	4	51	1495	0.70	< 10	< 1	0.15	10	0.33	95	280
H566488	299	229	1.6	0.44	140	40	< 0.5	< 2	2.12	< 0.5	8	49	3240	1.61	< 10	< 1	0.16	10	0.73	205	576
H566489	299	229	1.8	0.41	124	50	< 0.5	4	1.98	< 0.5	9	53	4420	1.69	< 10	< 1	0.17	10	0.62	210	218
H566490	299	229	1.4	0.53	8	160	< 0.5	4	1.76	< 0.5	6	64	3130	1.18	< 10	< 1	0.30	10	0.48	115	249
H566491	299	229	2.0	1.45	14	200	< 0.5	< 2	2.64	< 0.5	11	68	5520	2.14	10	< 1	0.82	10	1.19	180	224
H566492	299	229	2.2	2.45	14	190	< 0.5	< 2	1.53	0.5	15	141	5320	3.51	20	< 1	1.38	10	1.98	220	348
H566493	299	229	1.8	1.54	4	80	< 0.5	4	1.47	1.0	14	79	5230	2.99	10	< 1	0.63	10	0.90	110	232
H566494	299	229	0.8	1.57	6	290	< 0.5	< 2	2.93	< 0.5	9	79	2740	2.26	10	< 1	0.96	< 10	1.61	125	53
H566495	299	229	1.4	1.12	6	160	< 0.5	< 2	1.43	< 0.5	9	122	3240	1.43	10	< 1	0.58	10	0.70	90	1120
H566496	299	229	1.2	1.09	28	210	< 0.5	< 2	2.18	< 0.5	9	63	2750	1.35	10	< 1	0.59	10	0.85	175	1290
H566497	299	229	3.6	0.62	78	180	< 0.5	< 2	2.24	2.0	6	37	1325	1.15	10	< 1	0.41	10	0.86	750	482
H566498	299	229	1.2	0.82	10	180	< 0.5	< 2	2.11	< 0.5	5	76	2140	0.85	10	< 1	0.37	30	0.58	140	464
H566499	299	229	0.6	1.02	22	320	< 0.5	< 2	2.07	< 0.5	4	44	1745	0.84	< 10	< 1	0.49	< 10	0.68	125	159
H566500	299	229	0.6	0.44	36	240	< 0.5	< 2	1.29	< 0.5	3	78	1080	0.68	< 10	< 1	0.21	< 10	0.21	230	612
H566501	299	229	1.6	0.30	12	200	< 0.5	< 2	1.70	< 0.5	9	36	3070	1.32	< 10	< 1	0.09	20	0.52	170	558
H566502	299	229	1.2	0.45	6	180	< 0.5	< 2	1.52	< 0.5	5	82	2300	1.17	< 10	< 1	0.18	20	0.48	125	1265
H566503	299	229	0.8	0.20	16	220	< 0.5	< 2	1.22	< 0.5	3	26	1410	0.79	< 10	< 1	0.10	10	0.37	65	207
H566504	299	229	3.2	0.33	78	130	< 0.5	< 2	1.79	4.5	4	61	1435	1.18	< 10	< 1	0.18	10	0.53	410	870
H566505	299	229	0.8	0.20	8	100	< 0.5	< 2	2.42	< 0.5	5	33	1925	1.34	< 10	< 1	0.09	< 10	0.71	150	370
H566506	299	229	0.8	0.35	< 2	150	< 0.5	< 2	2.30	< 0.5	3	72	1610	0.59	< 10	< 1	0.20	< 10	0.11	90	1370
H566507	299	229	1.8	0.37	20	110	< 0.5	< 2	2.42	2.5	4	76	1250	1.13	< 10	< 1	0.19	< 10	0.08	120	739
H566508	299	229	0.4	0.45	4	200	< 0.5	< 2	2.77	< 0.5	2	62	847	0.49	< 10	< 1	0.19	< 10	0.12	65	833
H566509	299	229	0.4	0.33	2	200	< 0.5	< 2	2.77	< 0.5	2	53	740	0.39	< 10	< 1	0.16	< 10	0.11	50	1985
H566510	299	229	1.2	0.48	10	170	< 0.5	< 2	2.01	< 0.5	4	69	1575	0.81	< 10	< 1	0.21	< 10	0.10	50	2550
H566511	299	229	0.8	0.65	4	250	< 0.5	< 2	2.64	< 0.5	6	63	1610	1.00	< 10	< 1	0.35	< 10	0.42	75	905
H566512	299	229	1.0	1.62	8	170	< 0.5	< 2	2.74	< 0.5	8	68	1870	1.61	10	< 1	0.87	10	1.20	100	906
H566513	299	229	0.8	0.51	2	460	< 0.5	< 2	3.50	< 0.5	4	82	1485	0.63	< 10	< 1	0.30	< 10	0.36	75	746
H566514	299	229	0.8	1.30	6	300	< 0.5	< 2	2.08	< 0.5	8	86	1395	1.72	10	< 1	0.59	10	0.83	90	508
H566515	299	229	0.8	0.47	16	120	< 0.5	< 2	2.32	< 0.5	6	63	970	1.19	< 10	< 1	0.20	< 10	0.43	75	967
H566516	299	229	0.6	0.71	8	190	< 0.5	< 2	2.73	< 0.5	6	90	945	1.47	< 10	< 1	0.33	10	0.78	110	807
H566517	299	229	0.6	0.52	4	230	< 0.5	< 2	2.72	< 0.5	3	68	853	0.79	< 10	< 1	0.25	10	0.57	100	1400
H566518	299	229	1.2	0.75	6	160	< 0.5	< 2	1.92	< 0.5	4	76	1735	1.42	< 10	< 1	0.47	< 10	0.60	85	546
H566519	299	229	0.6	0.41	8	170	< 0.5	< 2	1.91	< 0.5	3	51	1015	0.62	< 10	< 1	0.21	< 10	0.16	50	200
H566520	299	229	0.4	0.32	2	110	< 0.5	< 2	2.84	< 0.5	2	66	697	0.56	< 10	< 1	0.19	< 10	0.36	60	364
H566521	299	229	0.6	0.38	8	190	< 0.5	< 2	2.41	< 0.5	3	51	881	0.81	< 10	< 1	0.17	10	0.40	80	939
H566522	299	229	0.8	0.50	8	180	< 0.5	< 2	1.83	< 0.5	6	81	1200	1.10	< 10	< 1	0.20	20	0.50	90	259
H566523	299	229	1.2	0.45	10	260	< 0.5	< 2	1.66	< 0.5	4	76	1505	0.76	< 10	< 1	0.21	20	0.40	75	502
H566524	299	229	1.0	0.58	148	70	< 0.5	< 2	1.46	0.5	12	92	1175	2.60	< 10	< 1	0.29	20	0.37	140	1920
H566525	299	229	0.6	0.40	60	240	< 0.5	< 2	3.01	< 0.5	3	75	998	0.73	< 10	< 1	0.12	< 10	0.25	150	610

CERTIFICATION: David Sutherland

*FOR SAMPLE DESCRIPTION: H566524

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 129
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9320775

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566486	299	229	0.02	3	240	10	< 2	1	96	< 0.01	< 10	< 10	2	< 10	14
H566487	299	229	0.02	2	210	14	2	2	171	< 0.01	< 10	< 10	1	< 10	24
H566488	299	229	0.01	6	370	12	30	4	26	< 0.01	< 10	< 10	3	< 10	34
H566489	299	229	0.01	6	370	20	18	5	27	< 0.01	< 10	< 10	9	< 10	36
H566490	299	229	0.02	4	320	6	2	3	50	< 0.01	< 10	< 10	14	< 10	20
H566491	299	229	0.03	11	910	4	2	10	72	0.08	< 10	< 10	62	< 10	34
H566492	299	229	0.08	14	730	2	2	16	50	0.15	< 10	< 10	108	< 10	66
H566493	299	229	0.02	13	900	4	< 2	7	66	0.04	< 10	< 10	42	< 10	48
H566494	299	229	0.05	12	790	< 2	< 2	10	267	0.13	< 10	< 10	83	< 10	26
H566495	299	229	0.03	4	500	2	8	6	66	0.03	< 10	< 10	32	< 10	26
H566496	299	229	0.01	6	620	2	12	8	65	0.03	< 10	< 10	34	< 10	26
H566497	299	229	0.02	4	330	56	26	9	62	0.02	< 10	< 10	29	< 10	112
H566498	299	229	0.02	4	440	8	4	6	60	0.01	< 10	< 10	19	< 10	14
H566499	299	229	0.03	3	390	8	2	7	127	0.01	< 10	< 10	40	< 10	16
H566500	299	229	0.02	2	170	10	12	< 1	58	< 0.01	< 10	< 10	< 1	< 10	26
H566501	299	229	< 0.01	4	620	6	8	8	30	< 0.01	< 10	< 10	17	< 10	20
H566502	299	229	0.01	4	260	4	18	4	29	< 0.01	< 10	< 10	1	< 10	14
H566503	299	229	0.02	1	240	4	4	1	74	< 0.01	< 10	< 10	< 1	< 10	8
H566504	299	229	0.01	2	170	196	48	1	38	< 0.01	< 10	< 10	< 1	< 10	252
H566505	299	229	0.01	24	380	6	4	3	87	< 0.01	< 10	< 10	5	< 10	22
H566506	299	229	0.03	2	150	6	10	1	123	< 0.01	< 10	< 10	< 1	< 10	10
H566507	299	229	0.02	2	140	76	14	< 1	70	< 0.01	< 10	< 10	< 1	< 10	152
H566508	299	229	0.03	1	180	8	6	1	115	< 0.01	< 10	< 10	< 1	< 10	8
H566509	299	229	0.02	1	160	2	16	< 1	130	< 0.01	< 10	< 10	< 1	< 10	10
H566510	299	229	0.02	2	160	2	24	< 1	77	< 0.01	< 10	< 10	< 1	< 10	8
H566511	299	229	0.02	2	330	4	8	4	95	0.02	< 10	< 10	13	< 10	6
H566512	299	229	0.03	4	640	6	6	12	116	0.09	< 10	< 10	67	< 10	16
H566513	299	229	0.01	2	260	2	4	3	98	< 0.01	< 10	< 10	9	< 10	8
H566514	299	229	0.03	3	670	2	2	8	81	0.06	< 10	< 10	49	< 10	16
H566515	299	229	0.02	8	360	2	8	1	86	< 0.01	< 10	< 10	< 1	< 10	10
H566516	299	229	0.02	18	420	4	4	7	89	< 0.01	< 10	< 10	20	< 10	16
H566517	299	229	0.02	4	370	2	14	5	81	< 0.01	< 10	< 10	4	< 10	10
H566518	299	229	0.03	5	460	2	6	6	58	0.03	< 10	< 10	24	< 10	12
H566519	299	229	0.04	2	200	4	< 2	1	87	< 0.01	< 10	< 10	1	< 10	8
H566520	299	229	0.02	2	200	4	2	2	154	< 0.01	< 10	< 10	4	< 10	12
H566521	299	229	0.01	2	270	6	8	3	77	< 0.01	< 10	< 10	< 1	< 10	14
H566522	299	229	0.01	4	180	8	2	4	52	< 0.01	< 10	< 10	10	< 10	16
H566523	299	229	0.01	3	200	4	6	4	46	< 0.01	< 10	< 10	4	< 10	14
H566524	299	229	0.01	5	200	4	20	3	25	< 0.01	< 10	< 10	4	< 10	24
H566525	299	229	0.01	2	280	12	12	1	23	< 0.01	< 10	< 10	< 1	< 10	10

CERTIFICATION:

*FOR SAMPLE DESCRIPTION: H566524

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 129
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Page Number :2-A
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CERTIFICATE OF ANALYSIS A9320775

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566526	299	229	1.2	0.89	6	100	< 0.5	< 2	2.60	< 0.5	7	74	975	1.45	< 10	< 1	0.15	< 10	0.71	235	785
H566527	299	229	1.8	0.89	26	180	< 0.5	< 2	2.34	< 0.5	9	69	1340	1.97	< 10	< 1	0.19	< 10	0.71	255	145
H566528	299	229	1.0	1.03	16	290	< 0.5	< 2	1.68	< 0.5	8	107	1070	1.35	10	< 1	0.33	10	0.64	155	336
H566529	299	229	1.0	0.62	8	180	< 0.5	< 2	2.08	< 0.5	9	104	971	1.51	< 10	< 1	0.18	< 10	0.66	165	213
H566530	299	229	1.2	0.63	6	360	< 0.5	< 2	1.52	< 0.5	4	114	794	0.92	10	< 1	0.16	10	0.48	135	946
H566531	299	229	0.8	0.42	8	440	< 0.5	< 2	0.71	< 0.5	3	103	678	0.56	< 10	< 1	0.14	20	0.21	90	445
H566532	299	229	0.6	0.49	8	220	< 0.5	< 2	1.32	< 0.5	2	123	225	0.78	10	< 1	0.23	30	0.10	65	301
H566533	299	229	0.6	0.30	6	310	< 0.5	< 2	1.49	< 0.5	1	121	282	0.33	< 10	< 1	0.17	10	0.08	70	563
H566534	299	229	1.2	0.61	16	240	< 0.5	< 2	0.84	< 0.5	3	122	788	0.82	< 10	< 1	0.22	10	0.30	80	439
H566535	299	229	0.8	0.37	4	300	< 0.5	< 2	1.03	< 0.5	1	124	289	0.36	< 10	< 1	0.18	20	0.19	85	1250
H566536	299	229	0.6	0.46	8	340	< 0.5	< 2	0.67	< 0.5	1	140	299	0.37	< 10	< 1	0.23	10	0.12	50	358
H566537	299	229	1.8	0.31	6	190	< 0.5	< 2	0.65	0.5	2	122	302	0.42	< 10	< 1	0.17	20	0.15	70	6810
H566538	299	229	0.8	0.49	28	260	< 0.5	< 2	0.44	< 0.5	2	158	339	0.54	< 10	< 1	0.25	30	0.16	70	1130
H566539	299	229	0.6	0.42	46	290	< 0.5	< 2	0.31	< 0.5	2	123	345	0.60	< 10	< 1	0.22	10	0.12	65	525
H566540	299	229	0.8	0.58	36	210	< 0.5	< 2	0.44	< 0.5	3	169	280	0.85	< 10	< 1	0.28	10	0.18	100	502
H566541	299	229	0.8	0.42	96	330	< 0.5	< 2	0.49	< 0.5	2	155	452	0.71	< 10	< 1	0.21	20	0.17	100	616
H566542	299	229	1.4	0.84	24	170	< 0.5	< 2	1.41	< 0.5	5	141	986	1.29	< 10	< 1	0.32	10	0.54	135	968
H566543	299	229	1.6	0.45	12	30	< 0.5	< 2	4.24	< 0.5	4	82	1370	1.15	< 10	< 1	0.12	< 10	0.77	285	289
H566544	299	229	1.6	0.76	4	120	< 0.5	< 2	1.77	< 0.5	6	120	1490	1.54	< 10	< 1	0.23	10	0.57	140	529
H566545	299	229	1.4	0.24	12	110	< 0.5	< 2	1.63	< 0.5	6	77	1155	1.33	< 10	< 1	0.10	10	0.57	110	609
H566546	299	229	1.6	0.33	6	140	< 0.5	< 2	1.70	< 0.5	6	68	1710	1.25	< 10	< 1	0.09	10	0.58	125	444
H566547	299	229	2.2	0.56	22	160	< 0.5	< 2	1.51	< 0.5	7	91	2630	1.50	< 10	< 1	0.18	20	0.57	115	638
H566548	299	229	1.2	0.40	16	60	< 0.5	2	2.29	< 0.5	6	82	1070	2.68	< 10	< 1	0.11	< 10	0.74	270	647
H566549	299	229	1.6	0.63	14	80	< 0.5	2	2.22	< 0.5	8	95	1760	2.02	< 10	< 1	0.14	10	0.71	160	253
H566550	299	229	1.0	0.46	14	130	< 0.5	< 2	1.99	< 0.5	6	75	944	1.23	< 10	< 1	0.13	10	0.67	105	921
H566551	299	229	0.8	1.43	14	340	< 0.5	< 2	1.26	< 0.5	6	128	768	1.54	10	< 1	0.40	10	0.75	80	333
H566552	299	229	1.2	0.66	8	90	< 0.5	2	1.61	< 0.5	6	94	1115	1.17	< 10	< 1	0.19	10	0.56	85	421
H566553	299	229	0.6	0.66	4	130	< 0.5	< 2	1.81	< 0.5	5	98	602	1.11	< 10	< 1	0.19	20	0.66	85	628
H566554	299	229	0.4	1.40	6	270	< 0.5	< 2	1.90	< 0.5	10	88	848	1.96	< 10	< 1	0.53	10	1.00	100	359
H566555	299	229	0.4	1.07	6	240	< 0.5	< 2	2.01	< 0.5	7	86	1035	1.40	< 10	< 1	0.53	10	0.89	85	387
H566556	299	229	0.6	1.13	2	160	< 0.5	< 2	2.08	< 0.5	9	54	1765	1.63	< 10	< 1	0.69	< 10	1.00	90	176
H566557	299	229	0.4	1.01	2	290	< 0.5	< 2	3.13	< 0.5	6	56	809	1.59	< 10	< 1	0.45	< 10	0.86	105	267
H566558	299	229	0.6	1.14	2	300	< 0.5	< 2	1.94	< 0.5	7	65	1105	1.44	< 10	< 1	0.46	10	0.82	85	578
H566559	299	229	0.6	1.07	< 2	220	< 0.5	< 2	1.71	< 0.5	7	65	1010	1.50	< 10	< 1	0.54	< 10	1.01	85	341
H566560	299	229	0.4	0.78	< 2	100	< 0.5	< 2	3.04	< 0.5	4	64	757	1.05	< 10	< 1	0.37	< 10	0.72	60	393
H566561	299	229	1.0	0.98	< 2	90	< 0.5	< 2	1.56	< 0.5	7	67	1825	1.37	10	< 1	0.56	10	1.01	75	582
H566562	299	229	0.6	1.11	6	170	< 0.5	< 2	1.87	< 0.5	6	84	1095	1.43	< 10	< 1	0.66	10	1.00	85	331
H566563	299	229	0.8	0.75	2	310	< 0.5	2	2.52	< 0.5	4	72	364	1.11	10	< 1	0.37	< 10	0.72	85	2160
H566564	299	229	0.8	1.15	< 2	130	< 0.5	2	2.09	< 0.5	7	62	780	2.31	10	< 1	0.50	< 10	0.83	85	267
H566565	299	229	0.6	1.12	< 2	240	< 0.5	< 2	1.20	< 0.5	7	59	969	1.64	10	< 1	0.59	10	0.94	80	272

CERTIFICATION: Stuart Buchler

*FOR SAMPLE DESCRIPTION: H566524

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 129
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Account :FC

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CERTIFICATE OF ANALYSIS A9320775

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566526	299	229	0.01	3	360	6	30	7	19	< 0.01	< 10	< 10	15	< 10	16
H566527	299	229	0.01	3	450	12	18	9	22	< 0.01	< 10	< 10	38	< 10	30
H566528	299	229	0.01	4	320	4	8	9	40	0.01	< 10	< 10	34	< 10	14
H566529	299	229	0.01	5	380	6	10	9	24	< 0.01	< 10	< 10	30	< 10	14
H566530	299	229	0.01	4	280	4	14	7	24	< 0.01	< 10	< 10	6	< 10	12
H566531	299	229	0.01	2	140	8	10	1	19	< 0.01	< 10	< 10	< 1	< 10	8
H566532	299	229	0.01	2	90	10	6	< 1	20	< 0.01	< 10	< 10	< 1	< 10	12
H566533	299	229	0.01	2	60	8	8	< 1	21	< 0.01	< 10	< 10	< 1	< 10	10
H566534	299	229	0.01	2	140	8	8	1	17	< 0.01	< 10	< 10	< 1	< 10	14
H566535	299	229	0.01	2	80	8	14	< 1	15	< 0.01	< 10	< 10	< 1	< 10	12
H566536	299	229	0.01	3	60	8	6	< 1	26	< 0.01	< 10	< 10	< 1	< 10	10
H566537	299	229	0.01	2	110	< 2	62	< 1	11	< 0.01	< 10	< 10	< 1	10	14
H566538	299	229	0.01	3	90	6	18	< 1	14	< 0.01	< 10	< 10	< 1	< 10	16
H566539	299	229	0.01	2	70	6	12	< 1	13	< 0.01	< 10	< 10	< 1	< 10	14
H566540	299	229	0.01	3	90	20	16	< 1	13	< 0.01	< 10	< 10	< 1	< 10	24
H566541	299	229	0.01	2	90	10	14	< 1	15	< 0.01	< 10	< 10	< 1	< 10	32
H566542	299	229	0.01	5	330	12	14	4	22	< 0.01	< 10	< 10	2	< 10	20
H566543	299	229	0.01	3	340	12	18	8	25	< 0.01	< 10	< 10	18	< 10	20
H566544	299	229	0.01	4	350	8	8	6	31	< 0.01	< 10	< 10	19	< 10	14
H566545	299	229	0.01	3	350	6	12	5	19	< 0.01	< 10	< 10	8	< 10	12
H566546	299	229	< 0.01	4	300	6	6	6	18	< 0.01	< 10	< 10	20	< 10	8
H566547	299	229	0.01	4	370	4	14	7	27	< 0.01	< 10	< 10	20	< 10	18
H566548	299	229	0.01	4	440	8	12	7	21	< 0.01	< 10	< 10	18	< 10	20
H566549	299	229	0.01	3	500	4	16	7	23	< 0.01	< 10	< 10	29	< 10	24
H566550	299	229	0.01	4	480	4	12	8	41	< 0.01	< 10	< 10	18	< 10	18
H566551	299	229	0.01	6	450	6	4	10	49	0.03	< 10	< 10	45	< 10	18
H566552	299	229	0.01	3	480	2	6	8	22	< 0.01	< 10	< 10	29	< 10	12
H566553	299	229	0.01	4	430	2	6	11	20	0.02	< 10	< 10	35	< 10	14
H566554	299	229	0.02	5	560	6	4	11	55	0.06	< 10	< 10	53	< 10	22
H566555	299	229	0.03	4	410	4	2	10	201	0.08	< 10	< 10	53	< 10	18
H566556	299	229	0.03	3	460	< 2	< 2	12	107	0.11	< 10	< 10	71	< 10	20
H566557	299	229	0.02	4	420	4	2	9	216	0.08	< 10	< 10	48	< 10	16
H566558	299	229	0.02	4	440	4	2	10	88	0.08	< 10	< 10	51	< 10	16
H566559	299	229	0.06	4	460	< 2	2	10	71	0.14	< 10	< 10	69	< 10	16
H566560	299	229	0.04	3	370	< 2	2	6	153	0.08	< 10	< 10	43	< 10	14
H566561	299	229	0.03	5	380	2	4	11	55	0.11	< 10	< 10	72	< 10	18
H566562	299	229	0.04	5	450	2	2	12	88	0.12	< 10	< 10	68	< 10	18
H566563	299	229	0.02	3	430	< 2	18	7	227	0.05	< 10	< 10	17	< 10	14
H566564	299	229	0.02	4	480	2	2	10	69	0.07	< 10	< 10	51	< 10	18
H566565	299	229	0.04	3	480	< 2	< 2	11	96	0.11	< 10	< 10	66	< 10	18

CERTIFICATION: Stewart Bradley

*FOR SAMPLE DESCRIPTION: H566524

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 129
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
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Certificate Date: 20-SEP-93
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CERTIFICATE OF ANALYSIS A9320775

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566566	299	229	0.8	1.11	4	100	< 0.5	< 2	1.02	< 0.5	8	67	1425	1.68	10	< 1	0.52	10	0.88	70	559
H566567	299	229	0.6	1.55	6	200	< 0.5	< 2	2.13	< 0.5	6	105	964	1.22	10	< 1	0.55	< 10	0.98	80	540
H566568	299	229	0.8	1.50	< 2	200	< 0.5	< 2	1.27	< 0.5	7	117	947	1.51	10	< 1	0.59	10	1.09	90	860
H566569	299	229	0.6	1.37	< 2	250	< 0.5	< 2	1.81	< 0.5	6	119	871	1.45	10	< 1	0.57	< 10	1.02	85	186
H566570	299	229	0.6	1.21	< 2	220	< 0.5	< 2	1.66	< 0.5	6	123	699	1.37	10	< 1	0.54	< 10	1.00	85	334
H566571	299	229	0.6	0.99	< 2	150	< 0.5	< 2	1.82	< 0.5	4	130	617	1.22	10	< 1	0.57	< 10	0.86	75	951
H566572	299	229	0.4	1.10	< 2	190	< 0.5	< 2	1.77	< 0.5	5	138	602	1.41	10	< 1	0.66	< 10	0.97	80	631
H566573	299	229	0.6	1.15	< 2	180	< 0.5	< 2	1.74	< 0.5	6	144	1035	1.39	10	< 1	0.65	< 10	0.97	80	435
H566574	299	229	0.4	1.16	4	200	< 0.5	< 2	1.84	< 0.5	6	126	754	1.41	10	< 1	0.74	10	1.03	80	247
H566575	299	229	0.6	1.10	12	200	< 0.5	< 2	2.44	< 0.5	7	141	676	1.67	10	< 1	0.57	< 10	0.91	110	217
H566576	299	229	1.2	0.95	2	60	< 0.5	2	1.83	< 0.5	9	169	1195	2.59	10	< 1	0.52	< 10	0.64	90	105
H566577	299	229	0.8	0.98	4	180	< 0.5	< 2	2.01	< 0.5	6	164	928	1.39	10	< 1	0.54	10	0.80	85	266
H566578	299	229	0.6	1.17	< 2	200	< 0.5	< 2	1.75	< 0.5	7	180	749	1.57	10	< 1	0.67	10	0.89	80	243
H566579	299	229	0.8	1.06	< 2	160	< 0.5	< 2	1.83	< 0.5	5	135	930	1.38	10	< 1	0.64	10	0.87	75	714
H566580	299	229	0.6	1.04	4	180	< 0.5	< 2	1.92	< 0.5	4	159	595	1.31	10	< 1	0.62	10	0.88	75	477
H566581	299	229	0.6	1.14	< 2	200	< 0.5	< 2	1.69	< 0.5	6	141	652	1.38	< 10	< 1	0.69	< 10	0.85	70	607
H566582	299	229	1.0	1.39	< 2	180	< 0.5	< 2	1.51	< 0.5	9	113	2010	1.62	< 10	< 1	0.91	10	1.07	85	348
H566583	299	229	1.4	1.35	8	140	< 0.5	< 2	1.34	< 0.5	10	108	1575	2.30	< 10	< 1	0.87	10	0.97	145	279
H566584	299	229	1.2	1.05	< 2	160	< 0.5	< 2	1.69	< 0.5	7	155	1015	1.69	< 10	< 1	0.73	10	0.97	110	331
H566585	299	229	1.0	0.85	< 2	90	< 0.5	2	1.63	< 0.5	9	140	995	2.80	< 10	< 1	0.57	10	0.79	100	316
H566586	299	229	0.6	1.15	< 2	160	< 0.5	< 2	1.56	< 0.5	8	135	1090	1.69	< 10	< 1	0.81	20	1.03	95	332
H566587	299	229	0.8	1.08	< 2	160	< 0.5	< 2	2.12	< 0.5	6	101	647	1.40	< 10	< 1	0.74	10	0.91	85	490
H566588	299	229	0.6	1.01	< 2	150	< 0.5	< 2	2.09	< 0.5	6	78	773	1.37	< 10	< 1	0.70	10	0.90	90	424
H566589	299	229	0.4	1.16	< 2	160	< 0.5	< 2	1.60	< 0.5	8	80	718	1.80	< 10	< 1	0.87	10	1.01	105	223
H566590	299	229	0.6	1.40	< 2	220	< 0.5	< 2	1.67	< 0.5	10	112	862	2.32	10	< 1	1.04	< 10	1.19	135	182
H566591	299	229	0.4	1.28	< 2	230	< 0.5	< 2	1.57	< 0.5	8	118	880	2.10	< 10	< 1	0.97	10	1.07	110	176
H566592	299	229	0.6	1.03	< 2	170	< 0.5	2	2.16	< 0.5	7	50	522	1.64	< 10	< 1	0.80	< 10	0.94	95	620
H566593	299	229	0.4	1.29	2	250	< 0.5	< 2	1.66	< 0.5	7	146	572	1.94	< 10	< 1	0.91	10	1.07	95	247
H566594	299	229	0.8	1.24	< 2	210	< 0.5	< 2	1.90	2.5	8	142	596	2.09	< 10	< 1	0.83	< 10	0.98	115	262
H566595	299	229	1.4	1.22	2	200	< 0.5	< 2	1.88	< 0.5	8	125	782	1.95	< 10	< 1	0.83	< 10	1.00	125	502
H566596	299	229	0.6	1.22	< 2	230	< 0.5	< 2	2.10	< 0.5	7	169	570	1.86	< 10	< 1	0.82	< 10	0.92	125	229
H566597	299	229	1.2	1.18	< 2	220	< 0.5	< 2	2.91	1.5	7	107	413	1.57	< 10	< 1	0.69	< 10	0.81	130	553

CERTIFICATION:

*FOR SAMPLE DESCRIPTION: H566524

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 129
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9320775

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566566	299	229	0.03	4	410	4	4	9	78	0.07	< 10	< 10	60	< 10	18
H566567	299	229	0.04	4	470	4	4	9	94	0.06	< 10	< 10	54	< 10	16
H566568	299	229	0.05	4	450	< 2	4	10	74	0.08	< 10	< 10	60	< 10	20
H566569	299	229	0.05	4	420	2	< 2	9	125	0.10	< 10	< 10	64	< 10	18
H566570	299	229	0.05	4	430	< 2	< 2	9	135	0.09	< 10	< 10	60	< 10	18
H566571	299	229	0.06	4	360	2	4	9	82	0.10	< 10	< 10	52	< 10	16
H566572	299	229	0.07	4	380	2	4	10	86	0.13	< 10	< 10	61	< 10	18
H566573	299	229	0.07	5	410	2	2	10	88	0.13	< 10	< 10	64	< 10	18
H566574	299	229	0.08	4	490	4	2	12	93	0.16	< 10	< 10	74	< 10	18
H566575	299	229	0.05	4	470	2	< 2	9	197	0.09	< 10	< 10	54	< 10	20
H566576	299	229	0.04	6	400	2	< 2	8	140	0.06	< 10	< 10	46	< 10	18
H566577	299	229	0.06	4	380	2	2	10	128	0.09	< 10	< 10	56	< 10	20
H566578	299	229	0.07	5	410	4	< 2	11	102	0.13	< 10	< 10	66	< 10	18
H566579	299	229	0.07	4	390	4	4	10	111	0.13	< 10	< 10	56	< 10	18
H566580	299	229	0.06	4	400	4	2	10	101	0.11	< 10	< 10	57	< 10	18
H566581	299	229	0.06	4	400	4	2	9	98	0.11	< 10	< 10	55	< 10	18
H566582	299	229	0.06	4	420	4	2	12	83	0.14	< 10	< 10	73	< 10	22
H566583	299	229	0.05	3	460	< 2	2	10	94	0.10	< 10	< 10	61	< 10	34
H566584	299	229	0.05	4	430	2	< 2	10	97	0.11	< 10	< 10	61	< 10	36
H566585	299	229	0.03	28	450	6	< 2	8	162	0.06	< 10	< 10	42	< 10	44
H566586	299	229	0.06	5	470	2	2	12	132	0.13	< 10	< 10	70	< 10	22
H566587	299	229	0.05	4	440	2	< 2	11	130	0.12	< 10	< 10	63	< 10	20
H566588	299	229	0.03	3	420	< 2	2	11	106	0.11	< 10	< 10	64	< 10	22
H566589	299	229	0.04	3	480	< 2	< 2	12	84	0.16	< 10	< 10	74	< 10	20
H566590	299	229	0.07	4	580	4	< 2	14	82	0.19	< 10	< 10	86	< 10	26
H566591	299	229	0.07	3	520	2	< 2	12	73	0.18	< 10	< 10	79	< 10	24
H566592	299	229	0.04	3	500	2	2	11	114	0.15	< 10	< 10	62	< 10	24
H566593	299	229	0.08	4	490	4	2	12	88	0.16	< 10	< 10	76	< 10	26
H566594	299	229	0.07	5	500	32	< 2	12	98	0.15	< 10	< 10	68	< 10	190
H566595	299	229	0.07	4	490	24	2	12	97	0.14	< 10	< 10	67	< 10	60
H566596	299	229	0.07	4	490	6	< 2	11	126	0.14	< 10	< 10	64	< 10	44
H566597	299	229	0.05	3	450	40	2	10	161	0.12	< 10	< 10	53	< 10	104

CERTIFICATION: Ivan Bruckner

*FOR SAMPLE DESCRIPTION: H566524

Chemex Labs Ltd.

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Project : CASINO 131
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-AUG-93
Invoice No. : I9318441
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318441

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
566087	208	274	0.21	0.048	0.17	6960						
566088	208	274	0.21	0.042	0.21	4540						
566089	208	276	0.27	0.145	0.31	11160						
566090	208	276	0.21	0.046	0.14	9520						
566091	208	274	0.18	0.122	0.24	6140						
566092	208	276	0.18	0.100	0.17	11620						
566093	208	276	0.20	0.143	0.21	9120						
566094	208	276	0.21	0.087	0.21	10760						
566095	208	276	0.31	0.054	0.31	11100						
566096	208	273	0.21	0.064	0.31	13820						
566097	208	276	0.18	0.107	0.17	11380						
566098	208	274	0.17	0.114	0.27	5980						
566099	208	276	0.09	0.187	0.07	10700						
566100	208	273	0.12	0.182	0.14	12320						
566101	208	273	0.09	0.142	0.17	12520						
566102	208	276	0.11	0.189	0.14	10060						
566103	208	273	0.17	0.169	0.24	12760						
566104	208	276	0.15	0.125	0.10	11260						
566105	208	273	0.21	0.077	0.62	14420						
566106	208	276	0.14	0.019	0.10	8020						
566107	208	276	0.14	0.033	0.17	11700						
566108	208	273	0.13	0.030	0.17	12640						
566109	208	273	0.11	0.047	0.14	12780						
566110	208	276	0.12	0.043	0.14	8620						
566111	208	273	0.14	0.049	0.21	11900						
566112	208	276	0.26	0.050	0.31	10360						
566113	208	273	0.15	0.052	0.14	12860						
566114	208	273	0.17	0.031	0.17	12940						
566115	208	273	0.22	0.043	0.27	12080						
566116	208	276	0.15	0.032	0.17	9020						
566117	208	276	0.14	0.033	0.21	11140						
566118	208	273	0.29	0.048	0.34	12540						
566119	208	273	0.19	0.052	0.24	12980						
566120	208	273	0.17	0.086	0.10	11900						
566121	208	273	0.15	0.056	0.21	14260						
566122	208	273	0.09	0.085	0.14	16160						
566123	208	273	0.09	0.070	0.10	12760						
566124	208	276	0.13	0.084	0.14	8960						
566125	208	273	0.13	0.094	0.10	12820						
566126	208	273	0.06	0.050	< 0.03	12540						

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CERTIFICATE OF ANALYSIS A9318441

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566127	208 273	0.12	0.026	0.07	12060
566128	208 273	0.14	0.092	0.10	12520
566129	208 276	0.13	0.060	0.14	10040
566130	208 276	0.11	0.035	0.07	11700
566131	208 273	0.05	0.049	0.07	13960
566132	208 276	0.05	0.032	0.03	11780

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 131
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9318442

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566087	299	229	0.6	1.39	< 2	170	< 0.5	< 2	0.13	< 0.5	10	114	2090	3.18	10	< 1	0.82	60	1.02	160	285
566088	299	229	1.2	1.29	< 2	170	< 0.5	6	0.09	< 0.5	11	138	2120	3.55	10	< 1	0.81	40	0.95	145	258
566089	299	229	1.8	1.24	< 2	170	< 0.5	4	0.11	< 0.5	9	114	2860	3.48	10	< 1	0.75	40	0.91	165	870
566090	299	229	1.2	1.28	2	560	< 0.5	4	0.18	< 0.5	9	154	2070	2.55	10	< 1	0.59	40	0.79	235	302
566091	299	229	0.8	1.26	< 2	190	< 0.5	2	0.14	< 0.5	9	121	1790	3.02	10	< 1	0.78	80	0.93	195	755
566092	299	229	1.0	1.13	2	150	< 0.5	4	0.14	0.5	11	146	1735	2.62	10	< 1	0.72	40	0.73	260	604
566093	299	229	1.0	1.63	4	120	< 0.5	8	0.14	< 0.5	10	124	1880	3.11	10	< 1	1.00	80	1.18	155	867
566094	299	229	0.8	1.29	2	140	< 0.5	4	0.14	< 0.5	8	142	2170	3.58	10	< 1	0.75	50	0.81	130	554
566095	299	229	1.6	0.80	6	140	< 0.5	4	0.09	< 0.5	8	139	3080	2.90	10	< 1	0.47	30	0.49	105	338
566096	299	229	1.0	1.93	2	200	< 0.5	16	0.16	< 0.5	12	117	2110	4.16	10	< 1	1.35	40	1.60	180	399
566097	299	229	1.0	1.14	6	150	< 0.5	< 2	0.16	< 0.5	10	142	1745	2.96	10	< 1	0.75	70	0.85	180	631
566098	299	229	1.2	1.21	16	140	< 0.5	6	0.28	0.5	16	84	1730	2.72	10	< 1	0.94	30	1.07	285	676
566099	299	229	1.4	0.79	4	130	< 0.5	6	0.87	< 0.5	12	139	1020	3.08	10	< 1	0.41	40	0.47	320	1080
566100	299	229	2.4	0.93	< 2	80	< 0.5	12	1.18	< 0.5	9	144	1270	3.34	10	< 1	0.52	30	0.49	125	1050
566101	299	229	1.4	0.99	6	120	< 0.5	10	1.12	< 0.5	7	113	928	3.23	10	< 1	0.55	30	0.61	135	816
566102	299	229	1.4	0.85	6	130	< 0.5	6	0.76	< 0.5	7	118	1060	2.72	10	< 1	0.51	40	0.59	180	1060
566103	299	229	1.6	1.04	< 2	120	< 0.5	6	0.52	< 0.5	10	109	1650	3.29	10	< 1	0.75	30	0.96	260	930
566104	299	229	2.6	0.95	< 2	90	< 0.5	10	1.10	1.0	13	144	1540	4.44	10	< 1	0.60	40	0.67	410	685
566105	299	229	2.2	1.28	< 2	150	< 0.5	2	0.35	1.5	12	135	2140	4.31	10	< 1	0.82	40	1.04	210	459
566106	299	229	0.6	2.05	< 2	270	< 0.5	6	0.47	1.0	18	109	1400	3.89	10	< 1	1.19	30	1.68	290	101
566107	299	229	1.2	1.17	2	150	< 0.5	6	0.42	0.5	11	113	1390	3.45	10	< 1	0.81	40	1.01	215	189
566108	299	229	1.0	1.11	< 2	160	< 0.5	4	0.29	0.5	9	124	1375	2.76	10	< 1	0.81	40	0.97	160	163
566109	299	229	0.8	1.05	< 2	130	< 0.5	6	0.31	0.5	7	96	1085	2.69	10	< 1	0.72	30	0.91	165	278
566110	299	229	0.8	1.30	< 2	160	< 0.5	8	0.34	1.0	10	98	1235	4.03	10	< 1	0.90	30	1.07	195	237
566111	299	229	1.2	0.88	< 2	160	< 0.5	6	0.26	1.0	8	159	1420	3.85	10	< 1	0.61	40	0.59	150	310
566112	299	229	2.0	0.80	< 2	170	< 0.5	2	0.20	1.0	7	175	2710	2.81	10	< 1	0.59	40	0.55	125	310
566113	299	229	1.2	0.89	6	200	< 0.5	2	0.15	< 0.5	5	136	1530	1.67	10	< 1	0.69	40	0.68	115	328
566114	299	229	1.2	1.09	12	210	< 0.5	< 2	0.15	< 0.5	7	170	1785	2.28	10	< 1	0.88	30	0.90	120	189
566115	299	229	1.4	0.89	< 2	150	< 0.5	< 2	0.13	1.0	8	121	2200	2.24	< 10	< 1	0.67	30	0.72	115	255
566116	299	229	1.0	1.26	< 2	140	< 0.5	< 2	0.18	0.5	8	145	1490	2.01	10	< 1	0.80	50	0.95	125	188
566117	299	229	1.0	1.33	< 2	170	< 0.5	6	0.18	0.5	10	113	1495	3.60	10	< 1	0.91	40	1.08	155	202
566118	299	229	1.6	1.18	2	170	< 0.5	6	0.26	0.5	11	139	2890	3.20	10	< 1	0.81	30	0.95	155	292
566119	299	229	1.0	0.89	< 2	140	< 0.5	6	0.43	1.0	10	111	1860	4.82	10	< 1	0.61	30	0.73	160	302
566120	299	229	0.8	1.09	< 2	160	< 0.5	6	0.36	1.5	10	147	1715	3.03	10	< 1	0.59	30	0.61	215	534
566121	299	229	0.8	0.94	6	140	< 0.5	8	0.37	2.0	9	125	1530	3.44	10	1	0.62	20	0.74	270	339
566122	299	229	0.6	0.96	< 2	160	< 0.5	6	0.51	0.5	9	142	944	3.12	10	< 1	0.66	20	0.76	175	514
566123	299	229	0.6	1.41	< 2	160	< 0.5	4	0.85	< 0.5	7	107	960	2.86	10	< 1	0.76	20	1.03	95	468
566124	299	229	0.6	2.40	< 2	220	< 0.5	6	1.38	< 0.5	8	97	1265	3.74	10	1	1.22	10	1.71	160	298
566125	299	229	0.6	1.68	< 2	250	< 0.5	10	0.88	< 0.5	12	93	1320	4.09	10	< 1	0.82	20	1.23	185	572
566126	299	229	0.6	1.36	12	210	< 0.5	< 2	1.66	< 0.5	3	146	621	1.49	10	< 1	0.42	20	0.63	100	314

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 131
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CERTIFICATE OF ANALYSIS A9318442

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566087	299	229	0.05	10	400	22	2	7	14	0.09	< 10	< 10	67	< 10	68
566088	299	229	0.06	12	290	26	4	7	14	0.09	< 10	< 10	72	< 10	56
566089	299	229	0.04	8	380	24	6	6	14	0.08	< 10	< 10	76	< 10	66
566090	299	229	0.04	10	410	76	< 2	6	24	0.06	< 10	< 10	51	< 10	102
566091	299	229	0.06	8	470	14	6	8	15	0.09	< 10	< 10	68	< 10	82
566092	299	229	0.04	8	260	6	4	7	14	0.07	< 10	< 10	55	< 10	90
566093	299	229	0.04	14	470	14	2	8	15	0.12	< 10	< 10	76	< 10	62
566094	299	229	0.05	13	440	14	2	7	17	0.08	< 10	< 10	68	< 10	56
566095	299	229	0.05	8	240	6	< 2	4	14	0.04	< 10	< 10	57	< 10	54
566096	299	229	0.06	15	630	18	6	13	16	0.18	< 10	< 10	107	< 10	74
566097	299	229	0.05	9	440	22	6	7	16	0.08	< 10	< 10	60	< 10	84
566098	299	229	0.05	9	580	12	4	10	16	0.12	< 10	< 10	80	< 10	104
566099	299	229	0.02	6	260	16	4	4	22	0.02	< 10	< 10	32	< 10	114
566100	299	229	0.01	6	340	8	8	4	22	0.02	< 10	< 10	33	< 10	24
566101	299	229	0.02	5	370	8	6	4	20	0.03	< 10	< 10	36	< 10	24
566102	299	229	0.02	6	340	16	4	4	17	0.04	< 10	< 10	42	< 10	46
566103	299	229	0.04	6	470	14	4	7	17	0.09	< 10	< 10	64	< 10	94
566104	299	229	0.03	10	1130	22	4	4	20	0.04	< 10	< 10	50	< 10	238
566105	299	229	0.04	12	290	12	2	8	14	0.10	< 10	< 10	83	< 10	118
566106	299	229	0.08	5	940	14	< 2	14	19	0.21	< 10	< 10	126	< 10	148
566107	299	229	0.05	9	620	16	< 2	8	15	0.11	< 10	< 10	77	< 10	118
566108	299	229	0.05	10	350	12	< 2	7	14	0.10	< 10	< 10	65	< 10	80
566109	299	229	0.04	7	400	12	2	7	12	0.09	< 10	< 10	56	< 10	78
566110	299	229	0.05	10	510	16	< 2	8	14	0.12	< 10	< 10	80	< 10	80
566111	299	229	0.06	8	300	10	2	5	13	0.06	< 10	< 10	64	< 10	58
566112	299	229	0.06	8	210	12	2	4	12	0.05	< 10	< 10	55	< 10	50
566113	299	229	0.04	8	240	14	4	6	12	0.08	< 10	< 10	42	< 10	48
566114	299	229	0.06	8	260	8	< 2	7	12	0.10	< 10	< 10	59	< 10	38
566115	299	229	0.05	6	250	12	2	6	10	0.07	< 10	< 10	50	< 10	38
566116	299	229	0.06	10	380	8	< 2	7	15	0.08	< 10	< 10	53	< 10	52
566117	299	229	0.06	11	440	6	2	9	15	0.12	< 10	< 10	82	< 10	56
566118	299	229	0.05	9	420	6	< 2	8	14	0.10	< 10	< 10	65	< 10	56
566119	299	229	0.04	11	390	12	6	7	16	0.06	< 10	< 10	87	< 10	70
566120	299	229	0.05	9	460	12	4	6	21	0.05	< 10	< 10	44	< 10	104
566121	299	229	0.04	9	330	16	4	6	17	0.06	< 10	< 10	47	< 10	116
566122	299	229	0.04	9	430	12	6	6	19	0.07	< 10	< 10	55	< 10	52
566123	299	229	0.03	7	480	8	4	8	26	0.08	< 10	< 10	74	< 10	24
566124	299	229	0.03	9	530	12	6	16	42	0.15	< 10	< 10	127	< 10	32
566125	299	229	0.04	10	590	16	2	9	40	0.10	< 10	< 10	112	< 10	72
566126	299	229	0.04	6	240	18	4	3	37	0.01	< 10	< 10	29	< 10	18

CERTIFICATION: Ian Thomson

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ARCHER CATHRO & ASSOC. (1981) LTD.
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CERTIFICATE OF ANALYSIS A9318442

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566127	299	229	0.6	0.93	< 2	130	< 0.5	< 2	0.40	2.5	9	87	1255	1.85	< 10	< 1	0.35	20	0.49	215	167
566128	299	229	0.6	1.25	< 2	140	< 0.5	< 2	0.19	2.0	10	121	1485	3.07	10	< 1	0.72	20	0.95	295	531
566129	299	229	0.6	1.05	< 2	150	< 0.5	6	0.35	4.5	13	96	1335	2.89	< 10	< 1	0.76	20	0.94	345	324
566130	299	229	1.2	0.65	12	80	< 0.5	2	0.74	2.0	9	116	1145	2.98	< 10	3	0.34	10	0.38	220	186
566131	299	229	0.6	0.89	6	80	< 0.5	4	0.92	1.0	9	94	585	3.52	< 10	< 1	0.48	10	0.46	110	281
566132	299	229	0.2	1.24	< 2	160	< 0.5	4	0.70	0.5	12	102	609	3.43	10	< 1	0.69	20	0.88	200	184

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9318442

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566127	299	229	0.04	5	170	14	2	3	21	0.01	< 10	< 10	27	< 10	122
566128	299	229	0.04	10	320	18	2	8	15	0.08	< 10	< 10	65	< 10	146
566129	299	229	0.03	7	390	16	4	9	15	0.09	< 10	< 10	53	< 10	116
566130	299	229	0.01	6	240	16	< 2	3	22	< 0.01	< 10	< 10	25	< 10	88
566131	299	229	0.02	7	360	18	4	4	24	0.01	< 10	< 10	26	< 10	48
566132	299	229	0.03	9	530	14	2	6	23	0.08	< 10	< 10	56	< 10	56

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Project : CASINO-132
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : I9317991
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317991

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569325 H	208 274	0.18	0.016	0.21	7080
569326 H	208 273	0.22	0.019	0.31	12060
569327 H	208 273	0.22	0.028	0.45	12120
569328 H	208 276	0.19	0.074	0.24	10580
569329 H	208 276	0.30	0.034	0.48	10340
569330 H	208 273	0.21	0.027	0.27	12880
569331 H	208 276	0.33	0.040	0.69	11460
569332 H	208 273	0.28	0.047	0.51	12640
569333 H	208 273	0.55	0.073	1.10	12660
569334 H	208 276	0.47	0.103	0.69	11640
569335 H	208 273	0.25	0.076	0.41	13020
569336 H	208 273	0.57	0.070	1.44	12400
569337 H	208 276	0.61	0.090	1.37	11420
569338 H	208 273	0.21	0.073	0.51	12740
569339 H	208 273	0.19	0.076	0.41	12820
569340 H	208 276	0.23	0.062	0.41	11800
569341 H	208 270	0.13	0.060	0.14	19080
569342 H	208 274	0.09	0.132	0.14	4010
569343 H	208 276	0.09	0.029	0.14	10340
569344 H	208 273	0.12	0.046	0.14	12440
569345 H	208 273	0.13	0.041	0.21	12780
569346 H	208 273	0.10	0.040	0.14	11820
569347 H	208 276	0.13	0.055	0.21	10360
569348 H	208 273	0.21	0.045	0.17	11840
569349 H	208 276	0.10	0.032	0.10	11120
569350 H	208 276	0.10	0.057	0.10	8920
569351 H	208 273	0.11	0.053	0.07	12150
569352 H	208 276	0.13	0.021	0.17	8440
569353 H	208 273	0.13	0.017	0.14	12080
569354 H	208 273	0.09	0.029	0.10	13240
569355 H	208 273	0.09	0.042	0.07	12660
569356 H	208 274	0.13	0.034	0.14	1200
569357 H	208 276	0.12	0.026	0.14	9060
569358 H	208 273	0.10	0.031	0.07	14740
569359 H	208 273	0.08	0.053	0.07	13200
569360 H	208 273	0.10	0.020	0.10	14070
569361 H	208 273	0.12	0.020	0.14	13480
569362 H	208 273	0.08	0.023	0.07	12900
569363 H	208 273	0.11	0.019	0.14	13220
569364 H	208 273	0.17	0.013	0.07	13000

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9317991

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
569365 H	208	273	0.12	0.044	0.14	13440
569366 H	208	273	0.12	0.021	0.14	13100
569367 H	208	273	0.13	0.025	0.14	12800
569368 H	208	273	0.13	0.058	0.17	12900
569369 H	208	273	0.17	0.027	0.17	13180
569370 H	208	273	0.12	0.018	0.21	12900
569371 H	208	273	0.18	0.029	0.14	12940
569372 H	208	273	0.23	0.030	0.24	12540
569373 H	208	273	0.08	0.014	0.10	13760
569374 H	208	273	0.12	0.025	0.07	13500
569375 H	208	273	0.16	0.027	0.21	13320
569376 H	208	273	0.16	0.019	0.14	13740
569377 H	208	273	0.08	0.022	0.10	12920
569378 H	208	273	0.05	0.038	0.03	13680
569379 H	208	273	0.09	0.027	0.10	13760
569380 H	208	273	0.24	0.028	0.21	12420
569381 H	208	273	0.12	0.023	0.14	13180
569382 H	208	273	0.09	0.030	0.17	15480

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-132
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : 19317993
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317993

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569325 H	299	229	0.8	1.88	8	90	< 0.5	< 2	0.59	< 0.5	19	140	1670	3.83	< 10	1	0.83	30	1.18	220	84
569326 H	299	229	1.2	1.99	< 2	90	< 0.5	< 2	0.48	< 0.5	17	172	2080	3.22	< 10	< 1	0.92	30	1.21	185	98
569327 H	299	229	1.4	1.66	4	100	< 0.5	< 2	0.38	0.5	14	111	2030	2.22	< 10	< 1	0.85	30	1.22	225	145
569328 H	299	229	1.2	1.86	< 2	120	< 0.5	< 2	0.64	0.5	19	122	1800	3.26	10	< 1	0.78	30	1.14	210	378
569329 H	299	229	3.2	1.24	8	90	< 0.5	2	0.74	0.5	18	119	2780	4.93	< 10	1	0.51	40	0.65	315	180
569330 H	299	229	0.8	1.44	14	90	< 0.5	< 2	0.52	< 0.5	21	98	1985	3.49	< 10	1	0.61	40	0.87	155	145
569331 H	299	229	2.0	1.70	14	110	< 0.5	2	0.66	< 0.5	26	144	3360	3.95	10	< 1	0.72	40	1.01	175	220
569332 H	299	229	1.6	1.56	18	80	< 0.5	2	0.72	< 0.5	32	128	2670	4.11	10	< 1	0.52	30	0.91	175	250
569333 H	299	229	3.4	1.83	20	100	< 0.5	< 2	1.02	0.5	21	154	5290	3.59	10	< 1	0.75	40	1.04	250	391
569334 H	299	229	2.4	1.67	16	110	< 0.5	< 2	0.72	0.5	31	112	4620	4.11	10	< 1	0.70	40	1.08	175	560
569335 H	299	229	1.4	1.49	18	110	< 0.5	< 2	0.70	< 0.5	23	151	2420	4.57	10	1	0.69	30	0.97	175	413
569336 H	299	229	2.6	1.48	20	110	< 0.5	< 2	0.75	< 0.5	23	137	5570	4.19	10	1	0.78	50	1.01	160	366
569337 H	299	229	2.6	1.67	12	150	< 0.5	< 2	1.38	< 0.5	20	101	5920	3.37	10	< 1	0.87	60	1.12	165	454
569338 H	299	229	0.8	1.20	2	90	< 0.5	< 2	1.92	< 0.5	17	130	2060	3.90	10	< 1	0.60	40	0.81	135	400
569339 H	299	229	1.0	1.41	6	80	< 0.5	< 2	1.27	< 0.5	22	136	1875	4.05	10	< 1	0.59	40	0.87	165	431
569340 H	299	229	1.2	1.35	4	90	< 0.5	< 2	2.23	< 0.5	16	109	2130	2.77	< 10	< 1	0.66	30	0.98	140	326
569341 H	299	229	0.8	1.22	2	70	< 0.5	< 2	2.13	< 0.5	16	108	1190	4.53	< 10	< 1	0.62	20	0.90	150	318
569342 H	299	229	0.2	1.20	6	70	< 0.5	< 2	2.25	< 0.5	22	92	892	6.61	10	< 1	0.64	30	0.94	140	677
569343 H	299	229	0.4	1.17	2	60	< 0.5	< 2	2.63	< 0.5	17	116	839	4.26	< 10	< 1	0.60	20	0.85	135	144
569344 H	299	229	0.6	1.21	2	70	< 0.5	< 2	2.23	< 0.5	14	127	1185	3.23	< 10	< 1	0.57	30	0.94	135	241
569345 H	299	229	0.4	1.25	< 2	60	< 0.5	< 2	1.95	0.5	16	191	1210	5.09	10	< 1	0.63	20	0.95	140	205
569346 H	299	229	0.4	1.16	2	50	< 0.5	< 2	2.21	< 0.5	15	145	917	4.00	< 10	< 1	0.49	20	0.74	180	196
569347 H	299	229	1.0	1.43	6	130	< 0.5	< 2	1.69	< 0.5	13	147	1190	2.95	< 10	< 1	0.48	30	0.65	335	270
569348 H	299	229	2.6	1.24	24	100	< 0.5	< 2	1.96	< 0.5	16	123	1925	3.85	< 10	< 1	0.56	40	0.80	320	226
569349 H	299	229	0.6	1.41	< 2	100	< 0.5	< 2	1.07	< 0.5	13	160	879	4.13	< 10	< 1	0.77	20	0.99	175	158
569350 H	299	229	0.6	1.14	6	80	< 0.5	< 2	0.80	< 0.5	10	165	831	3.67	< 10	< 1	0.52	20	0.75	130	293
569351 H	299	229	0.8	1.16	4	70	< 0.5	< 2	1.12	0.5	18	167	1040	5.34	< 10	< 1	0.54	20	0.85	135	285
569352 H	299	229	0.8	1.42	8	110	< 0.5	< 2	1.02	< 0.5	13	125	1200	4.67	< 10	< 1	0.68	20	1.06	145	101
569353 H	299	229	1.0	1.79	18	130	< 0.5	< 2	1.61	< 0.5	16	131	1150	4.19	10	< 1	0.71	20	1.27	195	83
569354 H	299	229	0.6	1.86	2	100	< 0.5	< 2	1.61	< 0.5	17	118	865	3.24	10	< 1	0.75	20	1.33	170	152
569355 H	299	229	0.6	2.00	8	160	< 0.5	< 2	1.26	< 0.5	16	138	845	3.76	10	< 1	0.86	20	1.42	175	219
569356 H	299	229	0.8	2.24	4	170	< 0.5	< 2	1.22	< 0.5	14	131	1155	3.58	10	< 1	1.09	20	1.50	190	169
569357 H	299	229	1.0	2.08	18	170	< 0.5	< 2	1.07	< 0.5	20	145	1165	4.05	10	< 1	0.86	20	1.39	180	139
569358 H	299	229	0.8	1.88	24	150	< 0.5	< 2	1.16	< 0.5	15	150	934	3.63	< 10	< 1	0.86	20	1.47	165	162
569359 H	299	229	0.4	1.75	14	170	< 0.5	< 2	1.15	< 0.5	13	176	712	3.07	< 10	< 1	0.87	30	1.33	135	268
569360 H	299	229	0.6	1.76	18	150	< 0.5	< 2	1.03	< 0.5	12	153	927	3.12	< 10	< 1	0.91	20	1.40	135	102
569361 H	299	229	1.0	1.86	28	150	< 0.5	< 2	0.95	< 0.5	13	153	1145	3.56	< 10	< 1	0.85	30	1.33	150	99
569362 H	299	229	0.6	1.71	20	210	< 0.5	< 2	1.04	< 0.5	12	148	739	2.72	< 10	< 1	0.93	20	1.41	140	110
569363 H	299	229	1.0	1.76	22	180	< 0.5	< 2	1.23	< 0.5	12	161	1015	3.00	< 10	< 1	0.96	20	1.33	155	97
569364 H	299	229	1.4	1.92	4	190	< 0.5	24	1.54	< 0.5	13	140	1635	3.89	10	< 1	1.05	30	1.41	155	63

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-132
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. :19317993
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317993

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569325 H	299	229	0.04	11	400	28	< 2	5	29	0.06	< 10	< 10	45	< 10	78
569326 H	299	229	0.06	13	370	18	< 2	6	27	0.06	< 10	< 10	41	< 10	104
569327 H	299	229	0.02	10	330	20	< 2	4	21	0.06	< 10	< 10	34	< 10	88
569328 H	299	229	0.03	12	590	14	< 2	5	27	0.06	< 10	< 10	42	< 10	92
569329 H	299	229	0.02	13	350	28	< 2	3	23	0.02	< 10	< 10	38	< 10	88
569330 H	299	229	0.02	12	300	12	< 2	4	26	0.04	< 10	< 10	37	< 10	58
569331 H	299	229	0.03	14	520	22	< 2	4	31	0.04	< 10	< 10	44	< 10	62
569332 H	299	229	0.02	12	470	14	< 2	3	34	0.02	< 10	< 10	36	< 10	64
569333 H	299	229	0.03	14	600	16	< 2	4	39	0.04	< 10	< 10	39	< 10	86
569334 H	299	229	0.03	15	580	16	< 2	4	34	0.04	< 10	< 10	42	< 10	60
569335 H	299	229	0.05	14	620	12	< 2	5	29	0.04	< 10	< 10	54	< 10	50
569336 H	299	229	0.04	17	470	18	< 2	6	29	0.06	< 10	< 10	52	< 10	54
569337 H	299	229	0.03	18	580	12	< 2	7	42	0.08	< 10	< 10	52	< 10	56
569338 H	299	229	0.03	13	480	12	< 2	4	72	0.04	< 10	< 10	42	< 10	48
569339 H	299	229	0.04	13	350	24	2	3	46	0.03	< 10	< 10	39	< 10	52
569340 H	299	229	0.03	11	500	14	2	4	95	0.05	< 10	< 10	40	< 10	46
569341 H	299	229	0.03	14	470	12	2	3	132	0.04	< 10	< 10	41	10	42
569342 H	299	229	0.03	15	630	18	2	4	200	0.04	< 10	< 10	53	20	42
569343 H	299	229	0.04	13	480	12	< 2	5	143	0.05	< 10	< 10	45	20	38
569344 H	299	229	0.04	11	470	14	< 2	5	133	0.04	< 10	< 10	43	10	42
569345 H	299	229	0.05	15	510	10	< 2	4	111	0.05	< 10	< 10	45	10	48
569346 H	299	229	0.04	12	470	12	2	4	124	0.03	< 10	< 10	37	10	48
569347 H	299	229	0.02	10	320	4	< 2	3	66	0.02	< 10	< 10	28	10	54
569348 H	299	229	0.02	12	390	14	2	4	97	0.03	< 10	< 10	33	< 10	72
569349 H	299	229	0.05	14	380	4	< 2	7	68	0.06	< 10	< 10	59	< 10	60
569350 H	299	229	0.07	12	670	10	< 2	4	34	0.04	< 10	< 10	43	< 10	60
569351 H	299	229	0.05	18	570	16	< 2	4	41	0.07	< 10	< 10	49	10	64
569352 H	299	229	0.05	16	600	4	< 2	7	50	0.08	< 10	< 10	66	< 10	52
569353 H	299	229	0.06	18	850	4	2	4	87	0.05	< 10	< 10	41	10	58
569354 H	299	229	0.05	19	880	12	< 2	4	152	0.05	< 10	< 10	38	10	50
569355 H	299	229	0.07	16	820	10	2	5	78	0.08	< 10	< 10	52	10	50
569356 H	299	229	0.06	17	760	12	2	6	52	0.08	< 10	< 10	65	10	50
569357 H	299	229	0.07	20	710	10	< 2	6	66	0.10	< 10	< 10	53	< 10	58
569358 H	299	229	0.10	20	790	12	< 2	6	81	0.14	< 10	< 10	58	10	50
569359 H	299	229	0.11	19	800	6	2	7	92	0.13	< 10	< 10	59	< 10	30
569360 H	299	229	0.10	18	780	4	2	8	86	0.14	< 10	< 10	62	< 10	34
569361 H	299	229	0.09	18	840	6	< 2	7	72	0.12	< 10	< 10	62	< 10	40
569362 H	299	229	0.10	17	780	< 2	< 2	7	78	0.17	< 10	< 10	62	< 10	36
569363 H	299	229	0.10	18	840	2	< 2	7	99	0.14	< 10	< 10	60	< 10	30
569364 H	299	229	0.07	20	720	2	< 2	7	138	0.12	< 10	< 10	61	< 10	32

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-132
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :2
Certificate Date: 04-AUG-93
Invoice No. :I9317993
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317993

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569365 H	299	229	0.6	1.77	22	210	< 0.5	< 2	1.37	< 0.5	15	142	1120	3.73	10	< 1	0.87	30	1.26	160	240
569366 H	299	229	0.8	1.62	14	250	< 0.5	< 2	0.96	< 0.5	14	131	1080	3.41	< 10	< 1	0.96	20	1.35	145	111
569367 H	299	229	1.6	1.88	10	260	< 0.5	< 2	1.57	< 0.5	13	135	1270	4.09	10	< 1	0.92	30	1.26	220	138
569368 H	299	229	0.8	1.52	4	160	< 0.5	< 2	1.01	< 0.5	12	120	1155	2.96	< 10	< 1	0.81	20	1.26	150	288
569369 H	299	229	0.8	1.68	8	160	< 0.5	< 2	1.08	< 0.5	15	115	1725	3.36	10	< 1	0.89	20	1.27	170	141
569370 H	299	229	0.6	1.73	18	190	< 0.5	< 2	1.24	< 0.5	13	136	1120	3.15	< 10	< 1	0.98	30	1.34	175	91
569371 H	299	229	1.0	1.53	6	80	< 0.5	< 2	0.99	< 0.5	14	123	1655	3.30	< 10	< 1	0.75	20	1.26	150	145
569372 H	299	229	3.2	1.91	18	80	< 0.5	4	2.73	4.0	30	136	2310	3.51	10	< 1	0.70	30	1.01	290	149
569373 H	299	229	0.8	1.64	8	110	< 0.5	< 2	1.51	< 0.5	22	121	787	3.09	10	< 1	0.59	30	1.22	205	69
569374 H	299	229	1.2	1.70	6	130	< 0.5	< 2	1.59	< 0.5	17	108	1080	3.45	10	< 1	0.86	20	1.26	220	119
569375 H	299	229	1.4	1.90	14	290	< 0.5	< 2	1.83	< 0.5	13	125	1585	2.79	10	< 1	1.00	30	1.35	265	134
569376 H	299	229	1.6	1.83	12	220	< 0.5	< 2	1.45	< 0.5	11	158	1485	2.78	< 10	< 1	0.95	30	1.41	215	90
569377 H	299	229	0.8	2.00	4	260	< 0.5	< 2	3.82	< 0.5	13	121	821	3.09	< 10	< 1	0.87	10	1.26	365	109
569378 H	299	229	0.2	1.92	6	340	< 0.5	< 2	1.14	< 0.5	8	148	497	3.92	< 10	< 1	1.16	20	1.43	190	196
569379 H	299	229	0.6	1.81	18	270	< 0.5	< 2	1.03	< 0.5	12	129	851	3.08	10	< 1	0.98	30	1.36	185	131
569380 H	299	229	4.0	1.95	40	100	< 0.5	12	1.74	11.0	13	87	2230	3.70	10	< 1	0.95	20	1.21	475	138
569381 H	299	229	1.4	1.93	14	270	< 0.5	< 2	1.19	< 0.5	13	127	1080	2.70	10	< 1	0.88	20	1.45	220	120
569382 H	299	229	0.8	1.93	12	200	< 0.5	< 2	1.35	< 0.5	15	97	891	2.96	10	< 1	0.91	20	1.36	260	155

CERTIFICATION: Stewart Buchan

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-132
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :2
Certificate Date: 04-AUG-93
Invoice No. : I9317993
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317993

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569365 H	299	229	0.07	17	690	8	< 2	8	80	0.10	< 10	< 10	61	< 10	36
569366 H	299	229	0.08	16	730	10	2	7	114	0.16	< 10	< 10	61	< 10	42
569367 H	299	229	0.06	19	760	12	< 2	7	190	0.10	< 10	< 10	58	10	106
569368 H	299	229	0.07	17	730	8	< 2	7	91	0.11	< 10	< 10	53	< 10	70
569369 H	299	229	0.07	19	800	6	< 2	7	125	0.12	< 10	< 10	57	< 10	50
569370 H	299	229	0.08	18	790	16	< 2	8	83	0.14	< 10	< 10	62	< 10	42
569371 H	299	229	0.07	18	790	10	< 2	7	68	0.10	< 10	< 10	54	< 10	48
569372 H	299	229	0.04	18	760	26	2	6	116	0.05	< 10	< 10	42	< 10	224
569373 H	299	229	0.06	15	790	14	< 2	6	129	0.06	< 10	< 10	45	< 10	60
569374 H	299	229	0.04	18	750	6	< 2	6	156	0.09	< 10	< 10	50	< 10	58
569375 H	299	229	0.06	18	860	14	< 2	7	116	0.13	< 10	< 10	56	< 10	72
569376 H	299	229	0.08	17	830	10	< 2	8	128	0.13	< 10	< 10	59	< 10	60
569377 H	299	229	0.05	16	760	8	2	7	95	0.11	< 10	< 10	50	20	52
569378 H	299	229	0.09	18	800	6	< 2	8	143	0.16	< 10	< 10	65	40	48
569379 H	299	229	0.07	17	790	12	< 2	7	105	0.14	< 10	< 10	55	10	54
569380 H	299	229	0.04	16	740	424	4	6	148	0.11	< 10	< 10	51	60	544
569381 H	299	229	0.08	16	820	12	< 2	6	106	0.13	< 10	< 10	56	< 10	88
569382 H	299	229	0.06	17	800	12	< 2	6	136	0.09	< 10	< 10	51	< 10	72

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 133
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :3
Certificate Date: 11-AUG-93
Invoice No. :I9318405
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318405

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569430H	208	274	0.07	0.004	0.10	4220						
569431H	208	273	0.17	0.032	0.24	13080						
569432H	208	274	0.12	0.028	0.07	7160						
569433H	208	274	0.13	0.023	0.14	1360						
569434H	208	273	0.18	0.015	0.24	13780						
569435H	208	273	0.17	0.016	0.17	13140						
569436H	208	276	0.35	0.021	0.21	8600						
569437H	208	270	0.18	0.019	0.17	18880						
569438H	208	273	0.11	0.023	0.07	13580						
569439H	208	273	0.16	0.018	0.21	13680						
569440H	208	273	0.18	0.010	0.14	12500						
569441H	208	273	0.16	0.013	0.10	13320						
569442H	208	273	0.20	0.020	0.10	12500						
569443H	208	273	0.10	0.013	< 0.03	13420						
569444H	208	273	0.12	0.024	0.03	13640						
569445H	208	273	0.19	0.016	0.10	12620						
569446H	208	273	0.18	0.020	0.14	13460						
569447H	208	273	0.16	0.029	0.10	13580						
569448H	208	273	0.21	0.024	0.14	12800						
569449H	208	273	0.12	0.021	0.07	12480						
569450H	208	273	0.13	0.011	0.10	13340						
569451H	208	276	0.25	0.019	0.38	11660						
569452H	208	276	0.23	0.046	0.27	11020						
569453H	208	276	0.44	0.031	0.38	10920						
569454H	208	276	0.12	0.029	0.14	10980						
569455H	208	276	0.17	0.029	0.24	11320						
569456H	208	276	0.20	0.033	0.27	7600						
569457H	208	274	0.07	0.013	0.07	7080						
569458H	208	276	0.11	0.019	0.14	10840						
569459H	208	273	0.07	0.019	< 0.03	12660						
569460H	208	273	0.12	0.257	0.07	12900						
569461H	208	276	0.08	0.018	0.03	8620						
569462H	208	276	0.08	0.017	0.03	11100						
569463H	208	273	0.07	0.016	0.10	12700						
569464H	208	276	0.07	0.019	0.07	11780						
569465H	208	276	0.06	0.020	0.07	11760						
569466H	208	276	0.05	0.013	< 0.03	11780						
569467H	208	273	0.04	0.011	0.14	12520						
569468H	208	276	0.14	0.017	0.24	10880						
569469H	208	273	0.15	0.027	0.27	11880						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 133
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-AUG-93
Invoice No. : I9318405
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318405

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569470H	208	273	0.08	0.053	0.27	12300						
569471H	208	273	0.06	0.057	0.07	12920						
569472H	208	274	0.23	0.055	0.17	5060						
569473H	208	273	0.15	0.091	0.03	12860						
569474H	208	273	0.08	0.076	0.07	12160						
569475H	208	273	0.04	0.016	< 0.03	12540						
569476H	208	274	0.10	0.087	0.10	6360						
569477H	208	276	0.14	0.039	0.17	10580						
569478H	208	276	0.13	0.135	0.10	10600						
569479H	208	276	0.18	0.063	0.14	11120						
569480H	208	273	0.10	0.057	0.07	12340						
569481H	208	273	0.13	0.059	0.07	12800						
569482H	208	273	0.44	0.072	0.38	12440						
569483H	208	273	0.10	0.062	0.10	13140						
569484H	208	273	0.15	0.357	0.21	12120						
569485H	208	276	0.16	0.021	0.17	11620						
569486H	208	273	0.13	0.045	0.10	12880						
569487H	208	273	0.13	0.037	0.14	13780						
569488H	208	273	0.05	0.017	0.03	13160						
569489H	208	276	0.13	0.031	0.14	10600						
569490H	208	273	0.10	0.023	0.10	12960						
569491H	208	273	0.14	0.032	0.17	13180						
569492H	208	273	0.29	0.024	0.17	12980						
569493H	208	273	0.22	0.015	0.27	13500						
569494H	208	273	0.16	0.025	0.21	12680						
569495H	208	273	0.10	0.047	0.10	12580						
569496H	208	273	0.25	0.038	0.34	12900						
569497H	208	273	0.07	0.020	< 0.03	11840						
569498H	208	276	0.17	0.040	0.14	10480						
569499H	208	276	0.22	0.047	0.24	10400						
569500H	208	273	0.14	0.049	0.10	12800						
569501H	208	273	0.11	0.025	0.24	12120						
569502H	208	273	0.15	0.057	0.51	13000						
569503H	208	273	0.21	0.058	0.27	12400						
569504H	208	273	0.22	0.019	0.24	13300						
569505H	208	273	0.26	0.033	0.17	13650						
569506H	208	273	0.30	0.037	0.31	13150						
569507H	208	273	0.29	0.027	0.21	13400						
569508H	208	273	0.15	0.077	0.17	13450						
569509H	208	273	0.13	0.136	0.14	13260						

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Page N :3
Total Pa :3
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CERTIFICATE OF ANALYSIS A9318405

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569510H	208	273	0.10	0.144	0.24	12560						
569511H	208	276	0.06	0.092	0.07	11160						
569512H	208	276	0.19	0.175	0.34	9500						
569513H	208	273	0.07	0.038	0.07	11840						
569514H	208	274	0.08	0.036	0.10	4780						
569515H	208	276	0.20	0.063	0.27	11640						
569516H	208	276	0.15	0.095	0.24	11740						
569517H	208	273	0.10	0.035	0.14	12020						
569518H	208	276	0.05	0.028	0.10	11560						

CERTIFICATION: D.G. Richie

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 133
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :3
Certificate Date: 18-AUG-93
Invoice No. :19318406
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318406

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569430 H	299	229	1.2	1.75	8	110	< 0.5	< 2	1.47	0.5	13	107	706	3.49	10	< 1	0.61	20	1.01	630	20
569431 H	299	229	1.2	1.23	< 2	100	< 0.5	2	1.21	< 0.5	16	150	1790	3.57	10	< 1	0.46	20	0.72	245	201
569432 H	299	229	0.8	1.25	< 2	120	< 0.5	< 2	1.79	0.5	15	94	1210	3.39	< 10	< 1	0.43	20	0.67	220	165
569433 H	299	229	1.0	1.30	10	90	< 0.5	< 2	1.79	< 0.5	11	101	1225	2.86	10	< 1	0.55	30	0.68	170	135
569434 H	299	229	1.2	1.32	4	100	< 0.5	4	0.79	< 0.5	20	95	1730	5.05	10	< 1	0.58	20	0.76	220	96
569435 H	299	229	0.8	1.68	2	100	< 0.5	2	0.47	0.5	19	118	1750	4.92	10	< 1	0.78	30	0.98	295	95
569436 H	299	229	1.6	1.43	8	40	< 0.5	8	0.27	2.0	23	79	3660	7.84	10	< 1	0.59	20	0.71	405	129
569437 H	299	229	1.4	1.37	10	90	< 0.5	< 2	0.94	1.5	15	131	1760	3.24	10	< 1	0.51	30	0.67	190	103
569438 H	299	229	0.6	1.01	< 2	110	< 0.5	< 2	1.51	< 0.5	13	60	975	2.50	< 10	< 1	0.43	20	0.72	130	123
569439 H	299	229	1.2	1.08	< 2	90	< 0.5	< 2	1.79	< 0.5	16	89	1490	3.34	< 10	< 1	0.58	20	0.87	195	93
569440 H	299	229	1.0	1.07	8	70	< 0.5	2	1.22	0.5	22	86	1770	4.08	< 10	< 1	0.48	20	0.73	200	51
569441 H	299	229	0.8	0.54	78	30	< 0.5	< 2	0.48	< 0.5	25	90	1605	4.71	< 10	< 1	0.21	20	0.26	470	68
569442 H	299	229	1.6	1.02	14	50	< 0.5	2	0.80	0.5	22	81	2020	3.65	< 10	< 1	0.37	20	0.46	325	118
569443 H	299	229	0.6	1.44	< 2	140	0.5	< 2	1.30	< 0.5	16	84	1075	3.34	10	< 1	0.46	20	0.77	150	77
569444 H	299	229	0.6	1.20	< 2	150	0.5	< 2	0.99	0.5	15	97	1215	3.06	10	< 1	0.40	30	0.72	125	139
569445 H	299	229	0.8	1.29	28	60	0.5	< 2	0.36	< 0.5	32	94	2100	5.52	< 10	< 1	0.32	20	0.40	215	90
569446 H	299	229	0.8	1.13	< 2	60	0.5	< 2	0.62	< 0.5	34	85	1910	5.92	10	< 1	0.34	30	0.48	495	127
569447 H	299	229	0.8	1.15	10	100	0.5	2	1.41	< 0.5	29	59	1660	4.02	10	< 1	0.52	20	0.85	170	195
569448 H	299	229	1.0	1.47	< 2	110	0.5	< 2	1.31	0.5	25	81	2020	4.00	10	< 1	0.64	20	0.93	210	136
569449 H	299	229	0.8	1.44	< 2	70	0.5	< 2	1.49	< 0.5	19	92	1240	3.07	10	< 1	0.51	20	0.83	230	122
569450 H	299	229	1.0	1.60	12	90	0.5	< 2	1.44	< 0.5	21	88	1250	2.44	10	< 1	0.47	30	0.74	190	62
569451 H	299	229	1.4	1.07	10	30	0.5	< 2	0.82	< 0.5	17	120	2350	2.09	10	< 1	0.21	20	0.25	310	104
569452 H	299	229	1.2	1.34	30	20	1.0	2	0.76	1.0	40	70	2220	3.19	10	< 1	0.19	30	0.26	500	288
569453 H	299	229	5.4	1.07	36	30	0.5	72	1.29	1.5	37	64	4360	6.66	10	< 1	0.26	20	0.41	570	176
569454 H	299	229	0.8	1.35	4	200	0.5	8	1.11	< 0.5	18	99	1200	3.10	10	1	0.62	20	1.11	175	170
569455 H	299	229	2.0	1.04	30	30	0.5	4	1.58	< 0.5	33	87	1815	3.28	10	< 1	0.28	40	0.51	500	172
569456 H	299	229	1.0	1.63	6	160	0.5	< 2	0.61	< 0.5	26	98	2020	3.29	10	< 1	0.65	30	1.26	200	229
569457 H	299	229	1.0	1.67	< 2	210	0.5	2	1.21	< 0.5	17	102	674	3.29	10	1	0.56	20	1.29	200	70
569458 H	299	229	0.6	1.46	< 2	90	0.5	4	1.08	< 0.5	14	69	1025	2.63	10	< 1	0.41	20	1.14	185	109
569459 H	299	229	0.6	1.50	< 2	100	0.5	4	0.95	< 0.5	11	100	699	3.20	10	< 1	0.46	20	1.19	175	106
569460 H	299	229	0.8	1.65	8	100	< 0.5	< 2	0.95	< 0.5	17	103	1220	3.80	10	< 1	0.62	20	1.19	165	1530
569461 H	299	229	0.4	1.68	6	70	< 0.5	4	0.95	< 0.5	16	109	772	4.38	10	< 1	0.55	20	1.22	160	112
569462 H	299	229	0.4	1.77	6	80	< 0.5	< 2	0.97	< 0.5	19	103	742	3.91	10	< 1	0.54	20	1.24	165	100
569463 H	299	229	0.6	1.27	< 2	100	< 0.5	< 2	1.79	< 0.5	12	87	659	3.38	10	< 1	0.48	20	0.95	175	82
569464 H	299	229	0.4	1.26	< 2	100	< 0.5	4	2.25	< 0.5	12	86	740	3.11	10	< 1	0.50	20	0.94	110	115
569465 H	299	229	0.2	1.52	< 2	130	< 0.5	< 2	2.46	< 0.5	8	150	541	1.96	10	< 1	0.65	30	1.12	120	118
569466 H	299	229	< 0.2	1.62	4	110	< 0.5	< 2	2.25	< 0.5	16	142	488	2.89	10	< 1	0.77	30	1.13	115	86
569467 H	299	229	< 0.2	1.28	4	100	< 0.5	6	2.25	< 0.5	11	145	388	2.53	10	< 1	0.69	20	1.04	110	61
569468 H	299	229	0.6	1.52	< 2	120	< 0.5	2	2.47	< 0.5	9	132	1370	2.81	10	< 1	0.74	20	1.14	130	96
569469 H	299	229	0.8	1.49	< 2	120	< 0.5	< 2	1.92	< 0.5	19	148	1480	2.79	10	< 1	0.72	30	1.20	120	157

CERTIFICATION: Ian Bichler

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Project : CASINO 133
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Certificate Date: 18-AUG-93
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CERTIFICATE OF ANALYSIS A9318406

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569430 H	299	229	0.03	12	690	24	4	4	36	0.02	< 10	< 10	38	< 10	68
569431 H	299	229	0.03	10	430	14	2	3	33	0.01	< 10	< 10	31	< 10	40
569432 H	299	229	0.01	10	530	30	< 2	3	32	0.01	< 10	< 10	27	< 10	36
569433 H	299	229	0.01	9	380	2	4	3	31	0.03	< 10	< 10	28	< 10	28
569434 H	299	229	0.03	13	600	16	2	4	26	0.03	< 10	< 10	39	< 10	44
569435 H	299	229	0.03	14	640	12	4	5	18	0.05	< 10	< 10	45	< 10	66
569436 H	299	229	0.02	17	650	18	2	4	13	0.03	< 10	< 10	33	< 10	108
569437 H	299	229	0.02	10	480	14	2	3	23	0.02	< 10	< 10	25	< 10	48
569438 H	299	229	0.01	8	510	4	2	2	34	0.01	< 10	< 10	22	< 10	22
569439 H	299	229	0.01	9	560	6	4	4	29	0.02	< 10	< 10	30	< 10	30
569440 H	299	229	0.01	11	590	14	4	3	29	0.01	< 10	< 10	26	< 10	42
569441 H	299	229	0.01	12	480	14	14	2	10	< 0.01	< 10	< 10	22	< 10	80
569442 H	299	229	0.01	10	580	16	4	3	20	0.01	< 10	< 10	23	< 10	62
569443 H	299	229	0.02	11	620	8	2	4	36	0.02	< 10	< 10	32	< 10	26
569444 H	299	229	0.03	10	510	6	6	4	59	0.02	< 10	< 10	32	< 10	24
569445 H	299	229	0.01	13	670	12	8	5	17	0.01	< 10	< 10	39	< 10	48
569446 H	299	229	0.01	12	590	14	2	5	14	0.01	< 10	< 10	36	< 10	64
569447 H	299	229	0.02	11	580	6	2	6	62	0.04	< 10	< 10	46	< 10	24
569448 H	299	229	0.02	10	520	< 2	< 2	5	53	0.04	< 10	< 10	44	< 10	36
569449 H	299	229	0.01	13	370	2	4	5	41	0.02	< 10	< 10	42	< 10	26
569450 H	299	229	0.01	15	700	8	6	6	35	0.01	< 10	10	44	< 10	28
569451 H	299	229	0.01	10	630	6	< 2	5	16	< 0.01	< 10	< 10	32	< 10	44
569452 H	299	229	< 0.01	20	580	14	4	5	15	< 0.01	< 10	< 10	38	< 10	112
569453 H	299	229	< 0.01	16	1030	54	8	3	20	< 0.01	< 10	< 10	25	< 10	88
569454 H	299	229	0.03	18	780	8	< 2	5	45	0.06	< 10	< 10	46	< 10	26
569455 H	299	229	0.01	17	1700	12	12	6	25	< 0.01	< 10	< 10	36	< 10	64
569456 H	299	229	0.03	18	850	4	2	5	24	0.06	< 10	< 10	53	< 10	38
569457 H	299	229	0.03	16	810	14	< 2	4	30	0.07	< 10	< 10	52	< 10	28
569458 H	299	229	0.03	14	710	6	2	3	26	0.03	< 10	< 10	45	< 10	28
569459 H	299	229	0.04	15	780	2	2	4	28	0.04	< 10	< 10	51	< 10	36
569460 H	299	229	0.03	15	620	14	18	4	34	0.10	< 10	< 10	51	< 10	38
569461 H	299	229	0.03	19	630	6	2	3	33	0.05	< 10	10	42	< 10	28
569462 H	299	229	0.04	19	710	6	2	4	32	0.06	< 10	10	45	< 10	26
569463 H	299	229	0.02	16	480	4	4	3	88	0.04	< 10	< 10	40	< 10	22
569464 H	299	229	0.02	13	630	8	8	3	216	0.04	< 10	< 10	29	< 10	16
569465 H	299	229	0.05	14	540	2	2	6	178	0.07	< 10	< 10	42	< 10	22
569466 H	299	229	0.04	19	460	2	4	6	182	0.08	< 10	< 10	45	< 10	20
569467 H	299	229	0.04	16	420	2	6	6	216	0.08	< 10	< 10	49	< 10	20
569468 H	299	229	0.04	13	550	< 2	2	6	224	0.07	< 10	< 10	51	< 10	22
569469 H	299	229	0.04	20	580	2	2	6	246	0.08	< 10	< 10	54	< 10	24

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569470 H	299	229	0.6	1.39	6	120	< 0.5	< 2	2.47	< 0.5	12	115	823	1.87	10	< 1	0.67	20	1.18	120	345
569471 H	299	229	0.4	1.28	8	130	< 0.5	< 2	2.53	< 0.5	17	98	557	1.62	10	< 1	0.68	30	1.07	100	330
569472 H	299	229	3.2	1.22	20	50	0.5	14	1.61	< 0.5	16	108	2490	5.08	10	< 1	0.45	20	0.68	280	334
569473 H	299	229	4.0	0.67	< 2	40	< 0.5	306	1.44	0.5	8	74	1535	4.98	< 10	< 1	0.31	20	0.55	385	541
569474 H	299	229	0.6	1.45	4	140	0.5	< 2	1.97	< 0.5	8	123	747	1.84	10	< 1	0.66	20	1.01	170	516
569475 H	299	229	0.2	1.19	4	110	< 0.5	2	2.11	< 0.5	4	112	336	2.06	10	< 1	0.59	20	1.05	120	85
569476 H	299	229	0.6	1.17	< 2	90	< 0.5	< 2	1.59	< 0.5	13	121	971	2.18	10	< 1	0.66	40	1.00	105	534
569477 H	299	229	0.8	0.77	4	70	< 0.5	< 2	1.93	< 0.5	13	102	1440	2.20	< 10	< 1	0.40	20	0.77	120	231
569478 H	299	229	1.2	0.96	6	90	< 0.5	4	1.44	< 0.5	15	101	1275	2.10	< 10	< 1	0.52	20	0.96	130	830
569479 H	299	229	1.8	0.87	42	70	0.5	< 2	1.60	< 0.5	19	69	1770	2.25	< 10	< 1	0.41	10	0.71	375	386
569480 H	299	229	1.2	0.47	50	30	< 0.5	4	2.29	< 0.5	13	117	1060	3.49	< 10	< 1	0.26	20	0.20	285	355
569481 H	299	229	1.2	0.66	2	40	< 0.5	< 2	2.46	< 0.5	14	75	1280	2.81	< 10	< 1	0.29	20	0.27	140	334
569482 H	299	229	3.0	1.10	4	80	0.5	6	1.80	< 0.5	14	110	4410	3.25	< 10	< 1	0.50	30	0.62	120	412
569483 H	299	229	0.6	1.05	2	80	0.5	< 2	2.04	< 0.5	10	109	983	2.59	< 10	< 1	0.47	20	0.63	95	366
569484 H	299	229	1.4	1.86	6	40	0.5	2	1.06	< 0.5	13	163	1435	4.66	10	< 1	0.72	20	1.16	100	1835
569485 H	299	229	0.8	1.94	< 2	140	0.5	< 2	0.97	< 0.5	13	163	1480	2.69	10	< 1	0.75	20	1.31	125	123
569486 H	299	229	0.6	1.54	4	100	0.5	4	2.23	< 0.5	19	108	1235	2.44	10	< 1	0.60	30	1.05	105	262
569487 H	299	229	0.8	1.43	10	150	< 0.5	< 2	2.23	< 0.5	18	112	1265	2.08	< 10	< 1	0.73	20	1.22	105	226
569488 H	299	229	0.4	1.75	18	200	0.5	< 2	2.11	< 0.5	8	164	487	1.59	< 10	< 1	0.55	20	0.86	135	96
569489 H	299	229	0.6	1.94	< 2	130	0.5	4	1.93	< 0.5	13	152	1320	2.35	10	< 1	0.66	20	1.11	140	191
569490 H	299	229	0.4	1.71	2	110	0.5	4	1.26	< 0.5	12	110	899	1.87	10	< 1	0.57	20	1.30	115	132
569491 H	299	229	1.2	1.65	6	140	0.5	8	2.27	< 0.5	17	124	1375	2.25	10	< 1	0.63	20	1.18	150	194
569492 H	299	229	2.6	1.60	< 2	160	1.0	8	2.38	< 0.5	10	137	2880	2.08	< 10	< 1	0.52	20	0.91	200	134
569493 H	299	229	1.6	1.53	12	170	0.5	4	2.35	< 0.5	16	127	2170	2.10	10	< 1	0.62	20	1.00	195	82
569494 H	299	229	1.2	1.67	< 2	220	0.5	< 2	2.09	< 0.5	11	124	1585	2.21	10	< 1	0.69	30	1.03	190	148
569495 H	299	229	0.8	1.10	14	40	0.5	< 2	2.37	< 0.5	10	134	1070	2.28	< 10	< 1	0.28	20	0.79	530	293
569496 H	299	229	1.6	2.03	12	310	1.0	< 2	1.78	< 0.5	9	141	2590	1.99	10	< 1	0.52	30	0.98	260	237
569497 H	299	229	0.4	2.36	24	430	1.0	2	1.67	< 0.5	8	152	639	1.90	10	< 1	0.77	20	1.32	230	122
569498 H	299	229	1.0	1.28	14	130	0.5	< 2	2.05	< 0.5	8	109	1625	2.03	< 10	< 1	0.43	20	0.93	255	241
569499 H	299	229	1.4	0.91	< 2	40	0.5	6	2.30	< 0.5	7	98	2190	1.50	< 10	< 1	0.32	20	0.80	315	273
569500 H	299	229	1.2	1.02	32	30	0.5	< 2	2.56	< 0.5	8	134	1395	2.05	< 10	< 1	0.24	20	1.00	850	279
569501 H	299	229	8.6	0.85	246	20	0.5	4	2.28	69.5	11	116	1110	2.34	< 10	< 1	0.27	10	0.96	2050	157
569502 H	299	229	1.2	1.31	188	40	0.5	2	2.42	< 0.5	12	146	1485	2.19	< 10	< 1	0.36	30	0.97	755	363
569503 H	299	229	3.4	1.03	250	30	0.5	< 2	2.18	1.0	13	138	2040	3.02	< 10	< 1	0.44	10	0.82	1260	337
569504 H	299	229	3.4	1.10	154	60	0.5	6	2.01	1.5	25	158	2530	4.44	< 10	< 1	0.44	20	0.63	1345	128
569505 H	299	229	25.6	0.89	624	40	0.5	6	1.49	34.5	12	134	2720	3.28	< 10	< 1	0.41	10	0.60	1590	199
569506 H	299	229	4.0	0.95	82	50	0.5	6	2.01	< 0.5	18	139	3130	2.66	< 10	< 1	0.34	10	0.80	875	225
569507 H	299	229	2.2	0.68	128	30	0.5	< 2	2.45	< 0.5	41	110	2980	3.64	< 10	< 1	0.26	< 10	1.33	1310	163
569508 H	299	229	1.4	1.16	36	60	< 0.5	< 2	4.46	< 0.5	23	83	1405	2.00	< 10	< 1	0.21	< 10	2.11	1280	428
569509 H	299	229	1.2	0.77	8	20	0.5	< 2	2.62	< 0.5	10	119	1205	2.54	< 10	< 1	0.22	10	0.98	415	749

CERTIFICATION: Stewart Bradley

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 133
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-AUG-93
Invoice No. :I9318406
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318406

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569470 H	299	229	0.04	12	770	12	2	5	244	0.07	< 10	< 10	43	< 10	24
569471 H	299	229	0.03	13	740	< 2	4	4	203	0.07	< 10	< 10	40	< 10	22
569472 H	299	229	0.02	12	570	28	6	2	50	0.01	< 10	20	18	< 10	30
569473 H	299	229	0.01	11	380	34	6	2	25	< 0.01	< 10	< 10	15	< 10	42
569474 H	299	229	0.03	11	410	2	4	4	179	0.06	< 10	10	40	< 10	18
569475 H	299	229	0.03	11	730	4	2	4	234	0.07	< 10	< 10	37	< 10	16
569476 H	299	229	0.03	14	470	10	4	4	43	0.06	< 10	< 10	39	< 10	18
569477 H	299	229	0.02	12	320	12	< 2	3	275	0.02	< 10	< 10	25	< 10	16
569478 H	299	229	0.03	12	410	6	12	3	77	0.03	< 10	10	32	< 10	18
569479 H	299	229	0.01	11	550	10	6	3	39	0.01	< 10	10	21	< 10	24
569480 H	299	229	0.01	9	440	8	8	1	25	< 0.01	< 10	10	8	< 10	18
569481 H	299	229	0.01	9	340	6	6	2	36	< 0.01	< 10	< 10	14	< 10	12
569482 H	299	229	0.02	14	470	12	2	3	53	0.01	< 10	< 10	23	< 10	18
569483 H	299	229	0.03	10	430	6	2	2	54	0.02	< 10	< 10	24	< 10	14
569484 H	299	229	0.03	12	590	18	12	5	60	0.05	< 10	< 10	49	< 10	14
569485 H	299	229	0.04	17	720	10	2	4	54	0.06	< 10	< 10	45	< 10	20
569486 H	299	229	0.03	19	710	10	4	4	155	0.03	< 10	< 10	41	< 10	16
569487 H	299	229	0.05	18	770	2	2	7	150	0.09	< 10	< 10	59	< 10	16
569488 H	299	229	0.04	10	560	< 2	4	5	152	0.02	< 10	10	38	< 10	16
569489 H	299	229	0.03	14	600	12	4	4	72	0.02	< 10	< 10	38	< 10	12
569490 H	299	229	0.03	15	560	6	< 2	4	85	0.02	< 10	< 10	40	< 10	16
569491 H	299	229	0.04	14	510	12	2	5	170	0.04	< 10	< 10	45	< 10	16
569492 H	299	229	0.02	12	640	16	2	3	89	0.01	< 10	< 10	27	< 10	14
569493 H	299	229	0.03	16	660	4	2	5	256	0.03	< 10	< 10	38	< 10	18
569494 H	299	229	0.03	15	620	6	< 2	6	141	0.04	< 10	10	43	< 10	16
569495 H	299	229	0.01	15	540	12	4	4	28	< 0.01	< 10	10	28	< 10	18
569496 H	299	229	0.02	15	650	6	6	6	105	0.01	< 10	< 10	38	< 10	14
569497 H	299	229	0.03	17	430	8	2	6	207	0.03	< 10	< 10	49	< 10	20
569498 H	299	229	0.01	13	440	6	2	3	61	0.01	< 10	20	27	< 10	14
569499 H	299	229	0.01	10	340	8	2	4	39	< 0.01	< 10	10	22	< 10	14
569500 H	299	229	0.01	9	480	14	8	4	30	< 0.01	< 10	< 10	26	< 10	16
569501 H	299	229	0.01	12	580	960	56	3	32	< 0.01	< 10	10	17	< 10	3740
569502 H	299	229	0.01	13	650	18	4	6	37	< 0.01	< 10	< 10	35	< 10	22
569503 H	299	229	0.01	14	450	38	48	3	31	< 0.01	< 10	< 10	19	< 10	78
569504 H	299	229	0.01	18	760	44	26	3	26	< 0.01	< 10	< 10	17	< 10	94
569505 H	299	229	0.01	16	610	964	266	2	31	< 0.01	< 10	20	13	< 10	1750
569506 H	299	229	0.01	13	650	18	26	3	29	< 0.01	< 10	< 10	20	< 10	40
569507 H	299	229	0.01	16	540	16	14	2	31	< 0.01	< 10	< 10	14	< 10	24
569508 H	299	229	0.01	11	430	4	8	4	38	< 0.01	< 10	10	27	< 10	16
569509 H	299	229	0.01	12	600	14	8	4	32	< 0.01	< 10	< 10	26	< 10	12

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 133
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :3
Certificate Date: 18-AUG-93
Invoice No. :19318406
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318406

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569510 H	299	229	0.8	2.45	18	420	1.0	< 2	1.68	< 0.5	8	111	1035	2.22	10	< 1	0.96	20	1.29	185	790
569511 H	299	229	0.8	1.75	24	110	0.5	4	2.38	0.5	7	118	570	2.03	10	< 1	0.69	20	1.19	625	522
569512 H	299	229	2.0	1.39	18	20	0.5	< 2	2.44	< 0.5	13	71	2040	2.88	10	< 1	0.34	30	1.02	430	999
569513 H	299	229	0.4	1.08	14	30	0.5	< 2	2.32	< 0.5	8	93	711	2.20	< 10	< 1	0.22	20	0.83	455	226
569514 H	299	229	0.4	1.04	2	20	0.5	< 2	1.83	< 0.5	13	82	819	2.83	< 10	< 1	0.23	20	0.73	310	229
569515 H	299	229	1.6	1.13	2	30	1.0	< 2	1.97	< 0.5	10	86	2250	3.29	< 10	< 1	0.24	20	0.78	375	395
569516 H	299	229	1.6	0.95	24	40	0.5	2	1.65	< 0.5	13	83	1750	3.09	< 10	< 1	0.32	30	0.72	285	588
569517 H	299	229	0.8	1.37	4	40	1.0	< 2	1.48	< 0.5	18	88	1085	4.03	< 10	< 1	0.43	20	0.60	225	208
569518 H	299	229	0.6	0.87	30	30	0.5	< 2	1.50	0.5	12	76	528	3.32	< 10	< 1	0.26	20	0.61	600	179

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 133
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-AUG-93
Invoice No. : I9318406
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318406

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569510 H	299	229	0.04	13	800	4	8	8	200	0.08	< 10	< 10	50	< 10	16
569511 H	299	229	0.03	10	660	42	8	6	227	0.03	< 10	< 10	37	< 10	54
569512 H	299	229	0.01	14	1160	28	14	9	32	0.01	< 10	< 10	42	< 10	42
569513 H	299	229	0.01	8	550	4	4	4	30	< 0.01	< 10	< 10	25	< 10	20
569514 H	299	229	0.01	11	610	16	4	7	26	< 0.01	< 10	< 10	39	< 10	16
569515 H	299	229	0.01	13	610	4	10	6	29	< 0.01	< 10	< 10	37	< 10	20
569516 H	299	229	0.01	13	460	6	8	5	28	< 0.01	< 10	< 10	34	< 10	18
569517 H	299	229	0.01	11	380	14	2	5	21	0.02	< 10	< 10	44	< 10	20
569518 H	299	229	0.01	14	400	34	6	5	24	< 0.01	< 10	< 10	34	< 10	48

CERTIFICATION: Ian R. Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-SEP-93
Invoice No. :I9320031
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320031

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569733H	208 270	0.06	0.004	0.10	16480
569734H	208 273	0.07	0.009	0.07	12960
569735H	208 276	0.11	0.012	0.10	11620
569736H	208 273	0.11	0.008	0.10	13800
569737H	208 273	0.10	0.009	0.14	13340
569738H	208 273	0.13	0.010	0.14	12460
569739H	208 273	0.12	0.012	0.17	12860
569740H	208 276	0.11	0.008	0.07	11580
569741H	208 273	0.13	0.009	0.17	12480
569742H	208 273	0.15	0.007	0.17	13140
569743H	208 273	0.14	0.036	0.24	12420
569744H	208 273	0.20	0.018	0.17	12260
569745H	208 273	0.15	0.012	0.21	12940
569746H	208 276	0.21	0.018	0.27	11620
569747H	208 273	0.26	0.014	0.31	12120
569748H	208 276	0.17	0.015	0.21	10860
569749H	208 276	0.24	0.031	0.24	8820
569750H	208 273	0.14	0.010	0.14	14080
569751H	208 276	0.19	0.018	0.14	11060
569752H	208 276	0.17	0.014	0.21	11800
569753H	208 273	0.15	0.010	0.17	12020
569754H	208 276	0.14	0.020	0.17	11760
569755H	208 273	0.11	0.010	0.17	11960
569756H	208 273	0.13	0.021	0.17	12640
569757H	208 276	0.14	0.009	0.14	8060
569758H	208 273	0.13	0.018	0.10	12280
569759H	208 273	0.13	0.012	0.24	13680
569760H	208 273	0.28	0.018	0.24	13960
569761H	208 273	0.09	0.015	0.10	12320
569762H	208 273	0.09	0.013	0.10	15460
569763H	208 273	0.12	0.018	0.14	13020
569764H	208 273	0.13	0.013	0.10	12740
569765H	208 273	0.09	0.012	0.07	12920
569766H	208 273	0.07	0.035	0.07	13180
569767H	208 273	0.10	0.016	0.07	13900
569768H	208 273	0.10	0.012	0.10	12780
569769H	208 273	0.08	0.015	0.03	12800
569770H	208 273	0.14	0.014	0.10	12840
569771H	208 273	0.13	0.013	0.10	13040
569772H	208 273	0.09	0.013	0.10	13180

CERTIFICATION: Said Eatmab

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-SEP-93
Invoice No. : I9320031
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320031

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569773H	208 273	0.10	0.011	0.14	13620
569774H	208 273	0.12	0.024	0.17	12800
569775H	208 273	0.15	0.018	0.17	13020
569776H	208 273	0.09	0.088	0.10	13140
569777H	208 273	0.13	0.026	0.10	12540
569778H	208 273	0.10	0.076	0.10	13180
569779H	208 273	0.08	0.020	0.07	13060
569780H	208 276	0.08	0.024	0.10	11250
569781H	208 273	0.14	0.021	0.17	13000
569782H	208 273	0.09	0.019	0.07	13160
569783H	208 273	0.09	0.033	0.14	13180
569784H	208 273	0.04	0.011	0.17	12500
569785H	208 273	0.06	0.012	0.07	12520
569786H	208 273	0.08	0.015	0.17	12450
569787H	208 273	0.06	0.014	0.17	12620
569788H	208 273	0.09	0.016	0.10	12780
569789H	208 276	0.08	0.019	0.14	11760
569790H	208 276	0.09	0.021	0.14	8500
569791H	208 273	0.09	0.022	0.14	12680
569792H	208 276	0.08	0.019	0.10	11760
569793H	208 270	0.08	0.024	0.14	16650
569794H	208 273	0.10	0.023	0.14	11850
569795H	208 273	0.07	0.024	0.07	12950
569796H	208 273	0.06	0.021	0.07	12400
569797H	208 273	0.05	0.043	0.03	12280
569798H	208 273	0.10	0.035	0.17	12100
569799H	208 273	0.08	0.026	0.07	12760
569800H	208 273	0.06	0.025	0.10	12020
569801H	208 276	0.10	0.032	0.10	8480
569802H	208 273	0.08	0.043	0.07	12220
569803H	208 276	0.05	0.042	0.03	11380
569804H	208 273	0.06	0.048	0.03	14800
569805H	208 276	0.11	0.054	0.14	11500
569806H	208 276	0.07	0.030	0.07	11800
569807H	208 276	0.05	0.039	0.10	11680
569808H	208 273	0.08	0.034	0.10	12000
569809H	208 276	0.09	0.035	0.21	11250
569810H	208 276	0.08	0.031	0.10	11500
569811H	208 273	0.10	0.048	0.14	13080
569812H	208 276	0.07	0.150	0.10	10460

CERTIFICATION: Said Teinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

): ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-SEP-93
Invoice No. : I9320031
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320031

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569813H	208 273	0.04	0.123	0.07	12360
569814H	208 276	0.04	0.184	0.07	11620
569815H	208 273	0.10	0.055	0.10	13260
569816H	208 276	0.10	0.055	0.10	11540
569817H	208 276	0.08	0.060	0.07	10820
569818H	208 273	0.15	0.048	0.10	12580
569819H	208 276	0.07	0.055	0.10	10400
569820H	208 273	0.09	0.040	0.14	12640
569821H	208 274	0.08	0.071	0.07	6500
569822H	208 273	0.05	0.061	0.07	13440
569823H	208 273	0.10	0.128	0.10	12760
569824H	208 270	0.11	0.103	0.14	17340
569825H	208 273	0.08	0.062	0.14	13460
569826H	208 273	0.07	0.058	0.07	12880
569827H	208 273	0.06	0.066	0.07	13200
569828H	208 273	0.08	0.063	0.17	13640
569829H	208 273	0.11	0.037	0.14	13620
569830H	208 273	0.08	0.040	0.07	12660
569831H	208 273	0.02	0.026	< 0.03	13000
569832H	208 273	0.04	0.038	< 0.03	13260
569833H	208 273	0.06	0.032	0.07	12680
569834H	208 273	0.05	0.028	0.07	12720
569835H	208 273	0.08	0.050	0.10	12360
569836H	208 273	0.07	0.035	0.07	12760
569837H	208 273	0.11	0.035	0.17	12300
569838H	208 273	0.08	0.045	0.10	13060
569839H	208 273	0.05	0.050	0.07	12560
569840H	208 273	0.03	0.043	0.03	12700
569841H	208 273	0.10	0.065	0.14	12060
569842H	208 273	0.07	0.039	0.03	12360
569843H	208 276	0.14	0.062	0.14	9520
569844H	208 273	0.02	0.026	< 0.03	13640
569845H	208 273	0.05	0.045	0.03	12200
569846H	208 276	0.03	0.050	< 0.03	11320
569847H	208 273	0.05	0.040	< 0.03	13300
569848H	208 273	0.04	0.042	0.03	16160

CERTIFICATION: Said Zeinab

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. :19320032
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320032

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569733H	299	229	0.6	1.08	< 2	120	< 0.5	6	1.24	< 0.5	6	193	643	2.14	< 10	< 1	0.35	10	0.71	135	18
569734H	299	229	0.6	0.74	6	50	< 0.5	< 2	1.33	< 0.5	12	128	750	2.53	< 10	< 1	0.39	10	0.39	90	50
569735H	299	229	0.6	0.82	< 2	90	< 0.5	< 2	0.99	< 0.5	9	158	1200	1.75	< 10	< 1	0.36	10	0.62	85	69
569736H	299	229	0.6	0.97	< 2	90	0.5	< 2	1.02	< 0.5	9	137	1185	2.05	< 10	< 1	0.42	10	0.64	95	39
569737H	299	229	0.8	1.02	< 2	70	0.5	< 2	1.12	< 0.5	11	150	1150	2.60	< 10	< 1	0.45	20	0.70	110	53
569738H	299	229	0.8	1.06	< 2	110	< 0.5	6	0.69	< 0.5	6	147	1375	1.82	< 10	< 1	0.49	20	0.73	75	59
569739H	299	229	0.8	1.02	< 2	120	< 0.5	< 2	0.82	< 0.5	8	166	1245	1.77	< 10	< 1	0.49	20	0.52	65	68
569740H	299	229	0.6	1.19	< 2	110	0.5	2	0.90	< 0.5	8	126	1170	2.04	< 10	< 1	0.44	20	0.59	70	47
569741H	299	229	0.8	1.63	< 2	160	0.5	4	0.86	< 0.5	8	162	1420	2.12	10	< 1	0.50	20	1.04	100	49
569742H	299	229	1.2	1.32	2	130	< 0.5	6	0.77	< 0.5	7	169	1520	2.15	10	< 1	0.45	20	0.88	85	39
569743H	299	229	0.8	1.45	4	90	0.5	6	0.90	< 0.5	7	158	1530	2.36	< 10	< 1	0.52	20	0.98	70	225
569744H	299	229	1.4	1.08	4	60	0.5	10	0.77	< 0.5	12	147	2100	2.65	< 10	< 1	0.39	20	0.63	70	109
569745H	299	229	1.0	1.17	2	80	< 0.5	< 2	1.12	< 0.5	8	170	1550	2.26	< 10	< 1	0.40	10	0.88	85	68
569746H	299	229	1.4	1.14	4	100	< 0.5	< 2	0.76	< 0.5	8	140	2160	1.99	< 10	< 1	0.40	10	0.94	90	105
569747H	299	229	1.6	1.24	< 2	100	0.5	8	0.63	< 0.5	11	161	2630	2.54	< 10	< 1	0.40	10	0.89	100	91
569748H	299	229	1.2	1.36	< 2	40	< 0.5	2	0.31	< 0.5	9	154	1725	3.08	< 10	< 1	0.63	10	0.94	70	88
569749H	299	229	1.6	1.42	22	70	< 0.5	6	0.43	< 0.5	9	164	2540	2.88	< 10	< 1	0.65	10	1.00	70	188
569750H	299	229	1.0	1.05	4	110	< 0.5	6	0.58	< 0.5	8	150	1420	2.35	< 10	< 1	0.40	20	0.84	100	55
569751H	299	229	1.4	1.25	12	60	0.5	4	0.41	< 0.5	12	136	1920	2.89	< 10	< 1	0.71	20	0.97	90	101
569752H	299	229	1.2	1.30	< 2	110	0.5	< 2	0.64	< 0.5	9	136	1770	2.28	10	< 1	0.59	20	1.03	130	78
569753H	299	229	1.0	1.40	2	170	0.5	< 2	0.88	< 0.5	8	158	1550	1.93	10	< 1	0.44	10	1.11	120	63
569754H	299	229	0.8	1.47	4	90	0.5	10	0.86	< 0.5	11	162	1455	2.81	< 10	< 1	0.46	10	1.03	145	128
569755H	299	229	0.6	1.14	8	80	< 0.5	4	0.65	< 0.5	9	170	1195	2.22	< 10	< 1	0.29	10	0.77	160	60
569756H	299	229	1.2	1.04	20	90	0.5	2	0.80	< 0.5	10	161	1425	2.65	< 10	< 1	0.40	30	0.66	135	138
569757H	299	229	0.8	1.19	< 2	90	0.5	6	0.81	< 0.5	10	178	1540	2.58	< 10	< 1	0.51	30	0.73	185	54
569758H	299	229	0.8	1.09	12	120	0.5	< 2	1.13	< 0.5	12	173	1440	2.49	< 10	< 1	0.48	20	0.67	195	111
569759H	299	229	1.8	0.57	24	60	< 0.5	8	1.29	< 0.5	11	188	1385	5.34	< 10	< 1	0.36	10	0.11	85	82
569760H	299	229	2.0	0.85	4	100	0.5	4	3.86	< 0.5	6	170	2820	2.23	< 10	< 1	0.28	20	0.22	180	103
569761H	299	229	0.8	0.99	8	90	< 0.5	6	1.52	< 0.5	8	196	1020	1.94	< 10	< 1	0.42	20	0.57	130	89
569762H	299	229	0.4	1.10	< 2	90	0.5	2	0.95	< 0.5	9	147	942	2.16	< 10	< 1	0.40	20	0.77	130	79
569763H	299	229	1.4	0.96	4	90	0.5	< 2	1.39	< 0.5	8	191	1175	1.93	< 10	< 1	0.41	30	0.64	115	102
569764H	299	229	1.2	0.94	14	120	0.5	6	1.77	< 0.5	6	155	1285	1.66	< 10	< 1	0.38	20	0.58	100	73
569765H	299	229	0.6	0.94	< 2	160	< 0.5	8	1.73	< 0.5	6	150	959	1.52	< 10	< 1	0.43	20	0.59	80	65
569766H	299	229	0.4	1.18	< 2	110	< 0.5	4	2.57	< 0.5	6	178	703	1.97	10	< 1	0.55	30	1.02	110	200
569767H	299	229	0.6	1.33	< 2	100	0.5	2	2.31	< 0.5	8	170	1065	1.98	10	< 1	0.50	30	0.85	115	89
569768H	299	229	0.6	1.37	2	180	0.5	2	1.70	< 0.5	9	161	1110	1.44	10	< 1	0.44	20	0.60	90	63
569769H	299	229	0.6	1.28	< 2	110	0.5	< 2	1.59	< 0.5	6	190	826	1.75	10	< 1	0.49	20	0.82	100	80
569770H	299	229	0.6	1.25	< 2	140	0.5	2	1.83	< 0.5	8	176	1390	1.60	10	< 1	0.54	20	0.85	100	80
569771H	299	229	0.8	1.22	2	160	0.5	6	2.77	< 0.5	8	178	1290	1.76	< 10	< 1	0.46	20	0.64	115	63
569772H	299	229	0.6	1.16	2	80	0.5	< 2	3.68	< 0.5	6	199	962	1.33	10	< 1	0.41	40	0.54	95	62

CERTIFICATION: Hawk Bechler

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :3
Certificate Date: 07-SEP-93
Invoice No. :I9320032
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320032

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569733H	299	229	0.04	7	390	2	< 2	4	35	< 0.01	< 10	< 10	30	< 10	18
569734H	299	229	0.02	8	340	< 2	2	2	27	< 0.01	< 10	< 10	13	< 10	10
569735H	299	229	0.04	3	180	2	2	3	27	0.01	< 10	< 10	24	< 10	16
569736H	299	229	0.04	5	360	2	2	3	27	0.01	< 10	< 10	29	< 10	16
569737H	299	229	0.03	4	410	6	< 2	3	27	0.01	< 10	< 10	26	< 10	20
569738H	299	229	0.04	6	300	2	4	4	20	0.02	< 10	< 10	32	< 10	14
569739H	299	229	0.04	3	280	< 2	2	3	20	0.01	< 10	< 10	26	< 10	10
569740H	299	229	0.03	4	370	< 2	4	3	21	< 0.01	< 10	< 10	26	< 10	12
569741H	299	229	0.04	4	440	4	< 2	6	34	0.03	< 10	< 10	43	< 10	20
569742H	299	229	0.07	6	370	< 2	2	5	24	0.02	< 10	< 10	40	< 10	16
569743H	299	229	0.03	6	450	8	2	5	28	0.03	< 10	< 10	36	< 10	16
569744H	299	229	0.03	6	380	4	4	2	25	< 0.01	< 10	< 10	18	< 10	14
569745H	299	229	0.04	5	450	4	4	4	26	0.03	< 10	< 10	36	< 10	16
569746H	299	229	0.04	5	350	8	2	5	23	0.06	< 10	< 10	39	< 10	18
569747H	299	229	0.05	6	350	2	< 2	5	20	0.08	< 10	< 10	44	< 10	24
569748H	299	229	0.04	8	430	< 2	4	4	13	0.10	< 10	< 10	39	< 10	20
569749H	299	229	0.04	6	360	4	< 2	5	16	0.10	< 10	< 10	39	< 10	24
569750H	299	229	0.04	7	320	8	2	4	18	0.03	< 10	< 10	35	< 10	26
569751H	299	229	0.03	7	490	< 2	4	5	14	0.06	< 10	< 10	38	< 10	22
569752H	299	229	0.05	6	490	4	2	5	21	0.04	< 10	< 10	46	< 10	26
569753H	299	229	0.07	6	440	2	< 2	8	23	0.04	< 10	< 10	64	< 10	28
569754H	299	229	0.05	7	440	2	2	6	26	0.02	< 10	< 10	46	< 10	32
569755H	299	229	0.07	4	350	< 2	2	5	23	0.01	< 10	< 10	41	< 10	34
569756H	299	229	0.04	5	440	8	4	4	26	0.01	< 10	< 10	29	< 10	26
569757H	299	229	0.04	6	370	6	2	4	29	0.02	< 10	< 10	31	< 10	28
569758H	299	229	0.04	7	410	2	4	4	32	0.01	< 10	< 10	30	< 10	26
569759H	299	229	0.01	7	350	10	4	1	22	< 0.01	< 10	< 10	8	< 10	6
569760H	299	229	0.02	5	380	4	2	2	40	< 0.01	< 10	< 10	14	< 10	14
569761H	299	229	0.04	6	350	2	2	4	36	0.01	< 10	< 10	29	< 10	20
569762H	299	229	0.04	6	400	4	< 2	4	33	0.01	< 10	< 10	34	< 10	28
569763H	299	229	0.03	4	410	8	4	3	43	0.01	< 10	< 10	25	< 10	20
569764H	299	229	0.03	4	390	6	4	5	68	0.01	< 10	< 10	30	< 10	18
569765H	299	229	0.04	4	400	6	2	6	107	0.02	< 10	< 10	34	< 10	16
569766H	299	229	0.04	4	450	< 2	2	9	762	0.06	< 10	< 10	56	< 10	22
569767H	299	229	0.03	6	410	< 2	4	7	116	0.03	< 10	< 10	42	< 10	14
569768H	299	229	0.04	5	430	4	2	7	71	0.02	< 10	< 10	41	< 10	14
569769H	299	229	0.03	5	450	< 2	2	7	64	0.03	< 10	< 10	41	< 10	14
569770H	299	229	0.04	4	500	6	< 2	7	94	0.03	< 10	< 10	47	< 10	16
569771H	299	229	0.03	4	470	6	< 2	6	136	0.02	< 10	< 10	36	< 10	14
569772H	299	229	0.03	4	350	6	2	4	98	0.01	< 10	< 10	30	< 10	12

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. :19320032
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320032

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569773H	299	229	0.4	1.35	2	60	< 0.5	2	2.20	< 0.5	7	99	1010	1.69	10	< 1	0.47	20	0.80	75	66
569774H	299	229	0.8	1.03	6	120	< 0.5	6	1.90	< 0.5	6	129	1290	1.43	< 10	< 1	0.44	20	0.63	75	137
569775H	299	229	0.8	1.13	< 2	180	0.5	2	1.80	< 0.5	7	85	1485	1.52	< 10	< 1	0.51	20	0.69	85	116
569776H	299	229	0.8	1.09	8	110	0.5	2	2.07	< 0.5	7	121	937	1.99	< 10	< 1	0.49	30	0.76	90	529
569777H	299	229	0.6	1.07	4	220	0.5	6	1.95	< 0.5	4	84	1365	1.44	< 10	< 1	0.47	30	0.70	85	159
569778H	299	229	1.2	1.00	4	120	0.5	8	2.71	< 0.5	6	125	1090	1.68	< 10	< 1	0.43	30	0.74	110	465
569779H	299	229	0.6	1.08	< 2	140	0.5	< 2	1.90	< 0.5	6	73	767	1.64	< 10	< 1	0.47	20	0.66	85	115
569780H	299	229	0.6	1.31	< 2	140	0.5	2	1.87	< 0.5	7	95	887	1.30	10	< 1	0.43	30	0.60	90	132
569781H	299	229	1.6	0.78	8	110	0.5	6	1.88	< 0.5	6	86	1545	1.60	< 10	< 1	0.33	30	0.46	110	133
569782H	299	229	0.4	1.39	< 2	200	0.5	< 2	1.36	< 0.5	4	113	926	1.30	10	< 1	0.61	20	0.82	75	110
569783H	299	229	0.6	1.31	2	240	0.5	< 2	2.22	< 0.5	7	77	947	1.20	10	< 1	0.51	20	1.04	100	193
569784H	299	229	0.2	0.88	2	60	0.5	2	2.36	< 0.5	2	87	423	1.02	< 10	< 1	0.26	10	0.45	75	57
569785H	299	229	0.6	0.87	6	80	0.5	2	1.82	< 0.5	2	56	594	0.68	< 10	< 1	0.20	10	0.35	65	65
569786H	299	229	0.8	1.07	6	110	0.5	< 2	2.21	< 0.5	3	89	873	1.09	< 10	< 1	0.25	20	0.57	95	87
569787H	299	229	0.8	1.50	< 2	150	0.5	2	2.15	< 0.5	5	63	667	1.18	< 10	< 1	0.41	20	0.77	105	82
569788H	299	229	1.0	1.04	8	180	0.5	< 2	2.89	< 0.5	4	101	960	1.44	< 10	< 1	0.35	20	0.61	105	93
569789H	299	229	0.8	1.06	2	140	< 0.5	< 2	2.83	< 0.5	4	67	907	1.31	< 10	< 1	0.43	30	0.44	90	126
569790H	299	229	0.6	1.39	< 2	200	< 0.5	< 2	1.03	< 0.5	9	91	958	1.28	10	< 1	0.62	20	0.93	90	128
569791H	299	229	0.6	1.10	< 2	100	< 0.5	4	0.99	< 0.5	6	56	932	1.19	< 10	< 1	0.40	20	0.82	85	129
569792H	299	229	0.6	1.30	< 2	130	< 0.5	< 2	1.18	< 0.5	6	93	824	1.71	10	< 1	0.48	20	0.98	90	112
569793H	299	229	0.6	1.32	< 2	140	< 0.5	< 2	1.05	< 0.5	5	71	855	1.17	10	< 1	0.50	20	0.95	75	138
569794H	299	229	0.8	1.55	4	170	< 0.5	2	1.19	< 0.5	7	84	1030	1.60	10	< 1	0.54	30	1.06	75	126
569795H	299	229	0.4	1.55	2	170	< 0.5	4	1.14	< 0.5	5	77	687	1.20	10	< 1	0.53	20	1.01	80	143
569796H	299	229	0.4	1.26	< 2	120	< 0.5	< 2	0.95	< 0.5	4	90	662	2.26	10	< 1	0.51	20	0.64	50	133
569797H	299	229	0.4	1.22	8	80	< 0.5	< 2	0.78	< 0.5	6	134	497	2.61	10	< 1	0.50	10	0.68	50	248
569798H	299	229	0.6	1.35	< 2	60	< 0.5	< 2	0.85	< 0.5	7	121	1025	1.45	10	< 1	0.56	10	0.89	70	208
569799H	299	229	0.6	1.10	< 2	100	< 0.5	4	1.26	< 0.5	6	136	894	1.98	< 10	< 1	0.54	10	0.40	45	145
569800H	299	229	0.2	1.14	< 2	110	< 0.5	< 2	0.84	< 0.5	4	112	624	1.51	< 10	< 1	0.46	10	0.49	40	142
569801H	299	229	0.6	1.70	< 2	130	< 0.5	< 2	0.83	< 0.5	8	116	1080	2.20	10	< 1	0.79	10	1.12	80	183
569802H	299	229	0.4	0.97	< 2	70	< 0.5	< 2	0.75	< 0.5	7	113	877	1.62	< 10	< 1	0.42	10	0.48	45	263
569803H	299	229	0.6	0.92	< 2	320	< 0.5	< 2	6.25	< 0.5	3	109	514	1.12	< 10	< 1	0.40	30	0.48	145	245
569804H	299	229	0.2	1.32	2	110	< 0.5	4	1.42	< 0.5	6	98	591	1.09	10	< 1	0.41	20	0.66	55	271
569805H	299	229	0.4	1.14	4	100	< 0.5	4	1.02	< 0.5	4	171	1160	1.45	10	< 1	0.46	30	0.48	45	343
569806H	299	229	0.2	1.24	< 2	140	< 0.5	2	0.94	< 0.5	2	179	794	1.04	< 10	< 1	0.43	10	0.51	50	189
569807H	299	229	0.6	1.62	2	270	< 0.5	< 2	1.03	< 0.5	4	153	561	1.33	10	< 1	0.75	20	0.84	60	240
569808H	299	229	0.4	1.51	< 2	250	0.5	< 2	0.90	< 0.5	3	134	794	1.15	10	< 1	0.65	20	1.04	70	207
569809H	299	229	0.8	1.34	< 2	180	< 0.5	8	0.96	< 0.5	6	125	978	1.57	10	< 1	0.59	40	0.82	65	214
569810H	299	229	0.4	1.32	12	230	< 0.5	< 2	0.84	< 0.5	6	143	820	1.41	< 10	< 1	0.62	20	0.87	60	188
569811H	299	229	0.4	1.32	< 2	220	< 0.5	< 2	0.79	< 0.5	5	171	1010	1.15	10	< 1	0.67	20	0.94	70	305
569812H	299	229	0.4	1.39	2	260	< 0.5	< 2	1.23	< 0.5	4	151	641	1.07	10	< 1	0.63	20	0.84	70	861

CERTIFICATION: Ivan Bachlet

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page ar :2-B
Total P :3
Certificate Date: 07-SEP-93
Invoice No. :I9320032
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320032

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569773H	299	229	0.04	4	440	2	4	6	125	0.02	< 10	< 10	41	< 10	16
569774H	299	229	0.04	4	390	6	2	5	97	0.01	< 10	< 10	33	< 10	12
569775H	299	229	0.03	6	480	10	4	7	96	0.03	< 10	< 10	43	< 10	12
569776H	299	229	0.03	5	490	12	6	5	60	0.02	< 10	< 10	34	< 10	10
569777H	299	229	0.04	4	450	4	2	7	62	0.03	< 10	< 10	40	< 10	12
569778H	299	229	0.02	5	370	< 2	6	4	60	0.01	< 10	< 10	27	< 10	14
569779H	299	229	0.02	4	450	2	2	7	60	0.02	< 10	< 10	37	< 10	14
569780H	299	229	0.03	6	530	< 2	< 2	7	72	0.01	< 10	< 10	36	< 10	14
569781H	299	229	0.02	3	470	10	6	4	71	< 0.01	< 10	< 10	19	< 10	12
569782H	299	229	0.06	4	450	< 2	2	10	97	0.06	< 10	< 10	59	< 10	16
569783H	299	229	0.05	3	520	< 2	4	11	266	0.04	< 10	< 10	55	< 10	18
569784H	299	229	0.03	2	430	4	2	4	58	< 0.01	< 10	< 10	18	< 10	10
569785H	299	229	0.05	2	340	2	2	2	70	< 0.01	< 10	< 10	13	< 10	14
569786H	299	229	0.04	3	400	8	4	5	73	< 0.01	< 10	< 10	23	< 10	28
569787H	299	229	0.03	6	530	12	2	10	83	0.01	< 10	< 10	47	< 10	32
569788H	299	229	0.02	4	400	4	6	4	74	< 0.01	< 10	< 10	27	< 10	22
569789H	299	229	0.02	4	470	6	2	5	61	0.01	< 10	< 10	31	< 10	20
569790H	299	229	0.06	6	430	4	2	10	40	0.07	< 10	< 10	64	< 10	22
569791H	299	229	0.04	3	470	2	2	8	40	0.03	< 10	< 10	56	< 10	18
569792H	299	229	0.06	6	480	4	4	7	45	0.03	< 10	< 10	53	< 10	20
569793H	299	229	0.05	6	490	4	4	8	44	0.04	< 10	< 10	55	< 10	18
569794H	299	229	0.05	5	510	6	2	8	48	0.03	< 10	< 10	54	< 10	18
569795H	299	229	0.06	4	480	6	4	9	44	0.04	< 10	< 10	61	< 10	20
569796H	299	229	0.05	5	530	6	2	6	39	0.02	< 10	< 10	39	< 10	12
569797H	299	229	0.06	5	430	2	2	7	36	0.03	< 10	< 10	45	< 10	14
569798H	299	229	0.07	7	530	4	2	9	34	0.04	< 10	< 10	60	< 10	16
569799H	299	229	0.04	6	510	< 2	2	4	31	0.02	< 10	< 10	30	< 10	16
569800H	299	229	0.06	4	540	< 2	2	3	34	0.01	< 10	< 10	27	< 10	10
569801H	299	229	0.07	10	670	2	< 2	6	33	0.07	< 10	< 10	56	< 10	22
569802H	299	229	0.07	4	480	< 2	2	4	30	0.01	< 10	< 10	30	< 10	12
569803H	299	229	0.03	3	370	4	2	6	73	0.02	< 10	< 10	31	< 10	14
569804H	299	229	0.04	5	500	2	4	5	53	0.02	< 10	< 10	36	< 10	14
569805H	299	229	0.05	5	330	4	4	3	41	0.01	< 10	< 10	26	< 10	12
569806H	299	229	0.07	4	270	8	2	3	49	0.01	< 10	< 10	27	< 10	14
569807H	299	229	0.06	6	400	8	2	7	43	0.05	< 10	< 10	49	< 10	14
569808H	299	229	0.06	5	410	8	4	8	46	0.06	< 10	< 10	57	< 10	18
569809H	299	229	0.04	4	400	6	2	6	44	0.03	< 10	< 10	43	< 10	18
569810H	299	229	0.06	6	410	6	2	8	43	0.06	< 10	< 10	56	< 10	18
569811H	299	229	0.08	6	440	12	2	10	44	0.07	< 10	< 10	68	< 10	20
569812H	299	229	0.06	4	380	2	8	9	44	0.06	< 10	< 10	59	< 10	18

CERTIFICATION: _____

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Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :3
Certificate Date: 07-SEP-93
Invoice No. :I9320032
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320032

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569813H	299	229	0.4	0.75	4	120	< 0.5	< 2	2.58	< 0.5	2	80	402	0.67	10	< 1	0.27	40	0.37	80	748
569814H	299	229	0.6	0.92	< 2	150	< 0.5	< 2	1.96	< 0.5	3	110	460	0.74	10	< 1	0.36	40	0.53	65	1145
569815H	299	229	0.6	0.99	< 2	190	< 0.5	4	0.89	< 0.5	5	60	915	1.22	< 10	< 1	0.55	20	0.83	55	314
569816H	299	229	0.4	1.08	< 2	210	< 0.5	2	0.71	< 0.5	4	75	951	1.13	< 10	< 1	0.55	20	0.96	65	367
569817H	299	229	0.6	0.71	2	100	< 0.5	2	0.76	< 0.5	6	72	742	1.56	10	< 1	0.42	30	0.51	40	356
569818H	299	229	1.0	0.76	< 2	100	< 0.5	2	1.18	< 0.5	3	79	1480	1.87	10	< 1	0.45	30	0.45	50	295
569819H	299	229	0.4	0.76	< 2	140	< 0.5	< 2	1.51	< 0.5	4	75	624	1.44	< 10	< 1	0.41	10	0.37	50	351
569820H	299	229	0.4	1.32	< 2	200	< 0.5	< 2	0.82	< 0.5	3	108	800	1.18	10	< 1	0.62	20	0.96	70	247
569821H	299	229	0.4	0.97	4	100	< 0.5	< 2	0.50	< 0.5	4	67	630	0.87	10	< 1	0.40	20	0.59	45	422
569822H	299	229	0.4	1.05	4	50	< 0.5	< 2	1.73	< 0.5	7	105	530	1.54	< 10	< 1	0.61	20	0.79	45	360
569823H	299	229	0.6	1.08	< 2	100	< 0.5	< 2	1.62	< 0.5	6	105	932	1.30	10	< 1	0.66	10	1.03	60	736
569824H	299	229	0.4	0.96	< 2	110	< 0.5	4	2.06	< 0.5	6	61	1065	1.13	< 10	< 1	0.54	10	0.86	50	634
569825H	299	229	0.4	0.88	4	100	< 0.5	< 2	2.33	< 0.5	4	100	809	1.21	< 10	< 1	0.52	20	0.75	55	389
569826H	299	229	0.6	0.89	< 2	130	< 0.5	2	2.21	< 0.5	4	94	743	1.19	10	< 1	0.54	20	0.81	60	346
569827H	299	229	0.8	0.85	4	130	< 0.5	2	3.58	< 0.5	6	159	609	1.40	< 10	< 1	0.40	30	0.60	85	412
569828H	299	229	0.4	0.94	4	80	< 0.5	< 2	2.36	< 0.5	5	69	696	1.38	10	< 1	0.59	20	0.90	60	384
569829H	299	229	1.4	0.79	< 2	80	< 0.5	< 2	2.47	< 0.5	7	146	943	1.71	< 10	< 1	0.35	10	0.76	80	207
569830H	299	229	0.4	0.94	4	70	< 0.5	< 2	2.33	< 0.5	6	65	777	1.34	< 10	< 1	0.49	10	0.80	60	237
569831H	299	229	0.2	0.77	< 2	70	< 0.5	6	2.31	< 0.5	3	120	259	1.15	< 10	< 1	0.44	10	0.68	55	154
569832H	299	229	0.6	0.70	12	70	< 0.5	< 2	3.30	< 0.5	6	54	423	2.53	< 10	< 1	0.26	20	0.71	70	225
569833H	299	229	0.8	0.89	8	100	< 0.5	2	2.31	< 0.5	4	114	633	1.02	< 10	< 1	0.47	20	0.76	55	196
569834H	299	229	0.4	0.99	4	100	< 0.5	4	1.84	< 0.5	4	94	557	0.97	10	< 1	0.54	30	0.91	65	159
569835H	299	229	0.4	1.09	6	120	< 0.5	2	1.93	< 0.5	4	85	755	0.93	10	< 1	0.42	20	0.83	80	307
569836H	299	229	0.4	0.95	2	100	< 0.5	< 2	2.15	< 0.5	5	72	584	0.96	10	< 1	0.48	20	0.75	50	213
569837H	299	229	0.8	0.99	4	80	< 0.5	< 2	2.06	< 0.5	8	88	959	1.22	< 10	< 1	0.55	10	0.88	95	195
569838H	299	229	0.8	0.71	4	80	< 0.5	4	2.36	< 0.5	10	86	705	1.36	< 10	< 1	0.33	20	0.60	90	272
569839H	299	229	0.6	1.52	8	120	< 0.5	4	3.16	< 0.5	11	114	546	1.68	< 10	< 1	0.37	10	0.84	125	271
569840H	299	229	0.4	1.26	8	80	< 0.5	2	2.37	< 0.5	17	85	342	1.99	< 10	< 1	0.40	10	0.90	80	253
569841H	299	229	1.0	1.24	8	170	< 0.5	10	2.52	< 0.5	8	72	977	1.19	< 10	< 1	0.25	10	0.93	90	355
569842H	299	229	0.4	1.18	22	80	< 0.5	2	2.22	< 0.5	6	73	585	0.94	< 10	< 1	0.31	20	1.04	85	211
569843H	299	229	1.2	0.43	8	100	< 0.5	2	2.23	< 0.5	7	48	1275	1.14	< 10	< 1	0.09	20	0.90	120	345
569844H	299	229	< 0.2	0.65	4	70	< 0.5	2	2.52	< 0.5	4	60	152	1.06	< 10	< 1	0.23	10	0.99	65	149
569845H	299	229	0.6	0.37	6	80	< 0.5	2	1.68	< 0.5	4	127	405	1.31	< 10	< 1	0.14	20	0.55	85	230
569846H	299	229	0.4	0.45	14	130	< 0.5	2	1.94	< 0.5	5	42	335	1.03	< 10	< 1	0.16	< 10	0.54	65	256
569847H	299	229	0.4	0.50	8	70	< 0.5	2	2.60	< 0.5	3	113	521	1.10	< 10	< 1	0.26	< 10	0.63	70	245
569848H	299	229	0.4	0.63	2	30	< 0.5	2	2.67	< 0.5	3	76	411	0.77	< 10	< 1	0.31	10	0.70	50	240

CERTIFICATION: Bart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-134
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. : I9320032
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320032

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569813H	299	229	0.02	2	270	4	8	4	74	0.01	< 10	< 10	27	< 10	10
569814H	299	229	0.03	2	260	4	14	6	56	0.02	< 10	< 10	39	< 10	10
569815H	299	229	0.03	4	400	6	2	7	39	0.06	< 10	< 10	50	< 10	12
569816H	299	229	0.03	4	370	2	4	7	35	0.06	< 10	< 10	55	< 10	16
569817H	299	229	0.02	4	280	2	6	5	25	0.03	< 10	< 10	35	< 10	8
569818H	299	229	0.03	5	400	< 2	2	6	34	0.02	< 10	< 10	36	< 10	8
569819H	299	229	0.02	5	410	< 2	6	5	41	0.01	< 10	< 10	32	< 10	10
569820H	299	229	0.04	6	420	8	2	9	39	0.06	< 10	< 10	62	< 10	18
569821H	299	229	0.03	4	310	6	2	4	26	0.03	< 10	< 10	36	< 10	12
569822H	299	229	0.03	4	410	2	6	6	80	0.07	< 10	< 10	48	< 10	12
569823H	299	229	0.04	4	400	< 2	12	9	48	0.09	< 10	< 10	68	< 10	16
569824H	299	229	0.03	2	380	2	6	8	100	0.06	< 10	< 10	54	< 10	12
569825H	299	229	0.03	3	410	4	6	7	144	0.03	< 10	< 10	43	< 10	12
569826H	299	229	0.04	6	380	< 2	6	8	120	0.04	< 10	< 10	46	< 10	12
569827H	299	229	0.03	6	410	4	4	6	181	0.02	< 10	< 10	37	< 10	14
569828H	299	229	0.03	4	420	< 2	6	9	126	0.07	< 10	< 10	57	30	12
569829H	299	229	0.03	5	360	2	4	6	166	0.02	< 10	< 10	35	< 10	12
569830H	299	229	0.03	5	430	4	4	7	100	0.04	< 10	< 10	49	< 10	14
569831H	299	229	0.03	2	360	4	4	6	174	0.03	< 10	< 10	39	< 10	14
569832H	299	229	0.02	3	390	2	6	5	227	< 0.01	< 10	< 10	26	< 10	12
569833H	299	229	0.04	4	430	< 2	2	7	147	0.03	< 10	< 10	44	< 10	12
569834H	299	229	0.04	5	450	2	4	10	208	0.05	< 10	< 10	60	< 10	12
569835H	299	229	0.04	5	470	4	6	10	126	0.02	< 10	< 10	51	< 10	12
569836H	299	229	0.03	4	400	4	2	8	201	0.04	< 10	< 10	50	< 10	12
569837H	299	229	0.04	5	400	< 2	2	9	99	0.05	< 10	< 10	55	< 10	16
569838H	299	229	0.02	5	370	4	6	6	167	0.01	< 10	< 10	32	< 10	16
569839H	299	229	0.02	6	400	6	< 2	8	66	0.01	< 10	< 10	40	< 10	14
569840H	299	229	0.02	6	490	< 2	4	7	49	0.01	< 10	< 10	37	< 10	12
569841H	299	229	0.03	6	450	6	6	8	62	< 0.01	< 10	< 10	41	< 10	18
569842H	299	229	0.02	4	430	< 2	4	5	43	< 0.01	< 10	< 10	31	< 10	12
569843H	299	229	0.01	5	550	8	6	9	26	< 0.01	< 10	< 10	27	10	18
569844H	299	229	0.02	4	470	< 2	2	3	46	< 0.01	< 10	< 10	23	< 10	6
569845H	299	229	0.01	5	420	2	6	3	24	< 0.01	< 10	< 10	13	< 10	8
569846H	299	229	0.02	3	460	4	4	3	169	< 0.01	< 10	< 10	17	< 10	8
569847H	299	229	0.04	5	480	< 2	4	3	268	0.01	< 10	< 10	22	< 10	8
569848H	299	229	0.03	4	450	< 2	4	4	204	0.02	< 10	< 10	32	< 10	8

CERTIFICATION: David Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 135
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :2
Certificate Date: 27-JUL-93
Invoice No. :19317428
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317428

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
564465H	208 276	0.31	0.040	0.41	8400
564466H	208 276	0.21	0.062	0.24	11760
564467H	208 273	0.19	0.024	0.27	12900
564468H	208 273	0.25	0.050	0.31	15240
564469H	208 274	0.13	0.009	0.24	6040
564470H	208 274	0.16	0.016	0.31	7060
564471H	208 274	0.24	0.041	0.21	6900
564472H	208 276	0.19	0.032	0.24	7720
564473H	208 276	0.24	0.032	0.21	7460
564474H	208 274	0.23	0.021	0.38	6940
564475H	208 276	0.32	0.033	0.27	7780
564476H	208 274	0.15	0.031	0.21	6860
564477H	208 276	0.22	0.031	0.24	7400
564478H	208 274	0.27	0.047	0.34	7240
564479H	208 276	0.31	0.048	0.38	7460
564480H	208 274	0.24	0.038	0.24	7160
564481H	208 276	0.16	0.025	0.21	7480
564482H	208 274	0.21	0.038	0.24	6860
564483H	208 274	0.23	0.056	0.24	6500
564484H	208 274	0.23	0.026	0.21	7180
564485H	208 274	0.21	0.102	0.21	7060
564486H	208 274	0.20	0.032	0.27	6680
564487H	208 274	0.27	0.146	0.27	6560
564488H	208 276	0.25	0.040	0.24	7340
564489H	208 274	0.23	0.062	0.24	6940
564490H	208 276	0.25	0.043	0.27	7380
564491H	208 274	0.20	0.048	0.21	7260
564492H	208 276	0.20	0.104	0.27	7580
564493H	208 274	0.21	0.021	0.21	6800
564494H	208 276	0.33	0.016	0.38	7280
564495H	208 274	0.22	0.016	0.31	7180
564496H	208 274	0.34	0.015	0.27	6440
564497H	208 274	0.33	0.037	0.27	7060
564498H	208 274	0.27	0.058	0.34	7160
564499H	208 274	0.19	0.036	0.24	6900
564500H	208 274	0.34	0.034	0.41	6500
564501H	208 274	0.20	0.020	0.27	6400
564502H	208 274	0.25	0.032	0.34	7120
564503H	208 274	0.31	0.029	0.31	6280
564504H	208 274	0.35	0.028	0.38	7020

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 135
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-JUL-93
Invoice No. : 19317428
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317428

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564505H	208	274	0.35	0.070	0.41	6980
564506H	208	274	0.34	0.068	0.38	6520
564507H	208	274	0.25	0.050	0.31	6420
564508H	208	274	0.47	0.042	0.51	7140
564509H	208	274	0.48	0.102	0.45	7160
564510H	208	274	0.30	0.045	0.34	6820
564511H	208	274	0.05	0.030	0.14	7140
564512H	208	274	0.24	0.077	0.24	7000
564513H	208	274	0.26	0.044	0.24	7100
564514H	208	274	0.29	0.022	0.31	7160
564515H	208	274	0.30	0.036	0.38	6900
564516H	208	274	0.30	0.036	0.27	7100
564517H	208	274	0.27	0.031	0.17	6700
564518H	208	274	0.23	0.048	0.21	7020
770A	208	274	0.30	0.027	0.31	3300
771A	208	274	0.22	0.015	0.31	3240
772A	208	274	0.30	0.034	0.48	3080

CERTIFICATION: A Uhrich

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Project : CASINO 135
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Certificate Date: 27-JUL-93
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P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317429

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564465H	299	229	1.6	0.67	6	40	< 0.5	8	0.04	< 0.5	28	52	3310	4.34	< 10	< 1	0.28	10	0.07	20	262
564466H	299	229	1.6	0.74	8	40	< 0.5	8	0.04	< 0.5	34	69	2340	3.98	< 10	< 1	0.32	10	0.08	10	393
564467H	299	229	1.2	1.12	4	80	< 0.5	12	0.09	< 0.5	19	68	2030	3.32	< 10	< 1	0.52	10	0.36	150	158
564468H	299	229	1.8	0.73	< 2	90	< 0.5	2	0.09	0.5	22	70	2700	2.31	< 10	< 1	0.21	10	0.08	115	327
564469H	299	229	1.0	1.00	10	60	< 0.5	6	0.11	< 0.5	29	104	1440	4.23	< 10	< 1	0.49	10	0.33	245	57
564470H	299	229	0.8	0.73	16	60	< 0.5	4	0.09	< 0.5	28	78	1790	3.96	< 10	< 1	0.39	10	0.20	190	114
564471H	299	229	1.6	0.75	< 2	40	< 0.5	14	0.09	< 0.5	25	60	2570	3.35	< 10	2	0.29	10	0.08	20	282
564472H	299	229	1.8	0.73	20	10	< 0.5	16	0.08	< 0.5	72	70	1880	5.94	< 10	< 1	0.33	10	0.08	10	217
564473H	299	229	1.8	0.58	2	30	< 0.5	2	0.08	< 0.5	34	64	2550	4.54	< 10	< 1	0.29	10	0.08	20	216
564474H	299	229	1.4	0.62	10	40	< 0.5	2	0.06	< 0.5	36	77	2400	3.74	< 10	< 1	0.29	< 10	0.09	20	140
564475H	299	229	2.0	0.73	14	20	< 0.5	14	0.07	< 0.5	30	64	3370	4.17	< 10	< 1	0.30	10	0.08	15	218
564476H	299	229	1.2	0.87	14	20	< 0.5	< 2	0.09	< 0.5	44	121	1465	4.77	< 10	< 1	0.41	10	0.09	15	204
564477H	299	229	1.6	0.69	2	60	< 0.5	2	0.07	< 0.5	24	76	2190	2.58	< 10	< 1	0.30	10	0.08	10	189
564478H	299	229	1.8	0.78	8	70	< 0.5	< 2	0.07	< 0.5	28	94	2830	2.58	< 10	< 1	0.35	10	0.13	45	348
564479H	299	229	2.0	0.66	6	60	< 0.5	4	0.07	< 0.5	23	77	3020	2.87	< 10	< 1	0.37	10	0.17	75	322
564480H	299	229	1.8	0.52	4	50	< 0.5	4	0.07	< 0.5	30	86	2500	3.74	< 10	< 1	0.29	10	0.14	105	240
564481H	299	229	1.8	0.62	6	30	< 0.5	8	0.08	< 0.5	34	50	1770	4.57	< 10	< 1	0.36	10	0.26	65	164
564482H	299	229	1.8	0.76	8	30	< 0.5	12	0.07	< 0.5	38	84	2140	4.21	< 10	< 1	0.42	10	0.27	45	246
564483H	299	229	2.2	0.85	18	90	< 0.5	8	0.08	< 0.5	30	72	2340	2.69	< 10	< 1	0.40	20	0.30	80	368
564484H	299	229	1.8	0.99	12	70	< 0.5	6	0.10	< 0.5	34	100	2340	3.13	< 10	< 1	0.52	20	0.30	45	169
564485H	299	229	1.4	1.12	4	60	< 0.5	< 2	0.10	< 0.5	25	82	2140	2.44	< 10	< 1	0.45	20	0.20	35	638
564486H	299	229	1.6	1.20	8	80	< 0.5	< 2	0.11	< 0.5	27	61	2150	2.59	< 10	< 1	0.47	20	0.23	80	205
564487H	299	229	2.0	0.91	2	60	< 0.5	10	0.07	< 0.5	24	61	2880	2.76	< 10	< 1	0.36	30	0.14	20	980
564488H	299	229	2.2	1.88	2	70	< 0.5	8	0.15	< 0.5	33	60	2570	3.72	< 10	< 1	0.91	20	0.70	185	253
564489H	299	229	1.2	0.75	< 2	50	< 0.5	6	0.09	< 0.5	35	42	2350	3.10	< 10	< 1	0.33	10	0.21	55	409
564490H	299	229	1.8	0.96	2	70	< 0.5	12	0.09	< 0.5	30	55	2540	3.19	< 10	< 1	0.60	20	0.48	120	272
564491H	299	229	1.6	0.90	8	60	< 0.5	< 2	0.09	< 0.5	30	95	2010	3.18	< 10	< 1	0.51	< 10	0.20	85	308
564492H	299	229	1.8	0.65	6	40	< 0.5	4	0.07	< 0.5	30	69	2060	2.86	< 10	< 1	0.33	10	0.08	10	677
564493H	299	229	1.6	1.04	12	60	< 0.5	2	0.11	< 0.5	33	79	2310	3.24	< 10	< 1	0.40	10	0.20	80	136
564494H	299	229	2.2	1.07	12	30	< 0.5	8	0.13	< 0.5	44	66	3360	4.10	< 10	< 1	0.58	< 10	0.31	80	91
564495H	299	229	2.8	0.99	6	40	< 0.5	6	0.20	< 0.5	38	71	2230	4.46	< 10	< 1	0.38	20	0.18	260	103
564496H	299	229	3.2	1.21	< 2	70	< 0.5	2	0.14	< 0.5	28	66	3460	2.12	< 10	< 1	0.32	10	0.10	15	93
564497H	299	229	1.8	1.11	8	30	< 0.5	2	0.12	< 0.5	36	72	3470	3.42	< 10	< 1	0.38	10	0.11	60	239
564498H	299	229	1.4	0.96	8	30	< 0.5	14	0.12	< 0.5	31	66	2850	3.92	< 10	< 1	0.39	10	0.11	55	411
564499H	299	229	1.2	1.64	8	80	< 0.5	6	0.15	< 0.5	33	101	2120	3.73	< 10	< 1	0.57	20	0.25	305	238
564500H	299	229	2.0	1.27	16	90	< 0.5	4	0.13	< 0.5	38	77	3680	2.16	< 10	< 1	0.42	20	0.15	40	224
564501H	299	229	1.2	1.54	< 2	80	< 0.5	8	0.18	< 0.5	32	82	2080	3.21	< 10	< 1	0.63	20	0.48	135	116
564502H	299	229	1.6	1.22	< 2	50	< 0.5	6	0.29	< 0.5	31	57	2590	3.20	< 10	< 1	0.30	20	0.09	130	194
564503H	299	229	1.8	1.07	< 2	110	< 0.5	6	0.34	< 0.5	34	74	3310	3.07	< 10	< 1	0.42	10	0.27	175	204
564504H	299	229	2.2	1.43	4	60	< 0.5	18	0.22	< 0.5	31	80	3590	3.50	< 10	< 1	0.72	20	0.54	145	197

CERTIFICATION: Hart Bichler

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 135
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Page Number :1-B
Total Pages :2
Certificate Date: 27-JUL-93
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Account :FC

CERTIFICATE OF ANALYSIS A9317429

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564465H	299	229	0.01	4	460	18	2	1	27	< 0.01	< 10	< 10	9	< 10	4
564466H	299	229	0.01	3	380	24	2	1	28	< 0.01	< 10	< 10	11	< 10	4
564467H	299	229	0.01	2	440	14	< 2	3	14	0.03	< 10	< 10	34	< 10	22
564468H	299	229	0.01	2	590	14	4	3	10	< 0.01	< 10	< 10	17	< 10	24
564469H	299	229	0.01	7	360	84	< 2	3	11	0.03	< 10	< 10	35	< 10	26
564470H	299	229	0.01	4	320	8	2	1	9	0.01	< 10	< 10	20	< 10	14
564471H	299	229	0.01	4	510	12	2	1	50	< 0.01	< 10	< 10	11	< 10	4
564472H	299	229	0.01	7	390	22	2	1	39	< 0.01	< 10	< 10	9	< 10	4
564473H	299	229	0.01	4	350	12	< 2	1	25	< 0.01	< 10	< 10	9	< 10	8
564474H	299	229	0.01	5	260	6	2	1	17	< 0.01	< 10	< 10	10	< 10	12
564475H	299	229	0.01	7	320	10	2	1	31	< 0.01	< 10	< 10	11	< 10	8
564476H	299	229	0.01	8	390	10	2	1	16	< 0.01	< 10	< 10	9	< 10	4
564477H	299	229	0.01	4	330	10	2	1	26	< 0.01	< 10	< 10	9	< 10	6
564478H	299	229	0.01	4	290	6	2	1	13	< 0.01	< 10	< 10	16	< 10	20
564479H	299	229	0.01	2	250	12	2	1	8	< 0.01	< 10	< 10	16	< 10	14
564480H	299	229	0.01	6	220	12	2	1	8	< 0.01	< 10	< 10	17	< 10	12
564481H	299	229	0.01	6	280	6	< 2	1	9	0.01	< 10	< 10	20	< 10	12
564482H	299	229	0.01	3	270	10	< 2	2	8	0.01	< 10	< 10	22	< 10	16
564483H	299	229	0.01	2	280	6	2	2	7	0.02	< 10	< 10	29	< 10	28
564484H	299	229	0.01	5	370	12	2	2	11	0.01	< 10	< 10	23	< 10	18
564485H	299	229	0.02	5	430	6	4	3	45	< 0.01	< 10	< 10	26	< 10	18
564486H	299	229	0.02	3	440	14	2	3	15	0.01	< 10	< 10	28	< 10	20
564487H	299	229	0.01	3	420	8	8	2	71	< 0.01	< 10	< 10	16	< 10	8
564488H	299	229	0.02	8	680	12	2	9	48	0.07	< 10	< 10	54	< 10	40
564489H	299	229	0.01	4	400	16	2	2	37	0.01	< 10	< 10	21	< 10	16
564490H	299	229	0.02	5	260	6	< 2	3	7	0.03	< 10	< 10	29	< 10	16
564491H	299	229	0.02	3	300	8	2	2	9	< 0.01	< 10	< 10	19	< 10	12
564492H	299	229	0.01	3	270	10	2	1	15	< 0.01	< 10	< 10	9	< 10	8
564493H	299	229	0.01	6	450	14	< 2	3	11	0.01	< 10	< 10	19	< 10	20
564494H	299	229	0.02	5	460	4	< 2	2	10	0.01	< 10	< 10	22	< 10	14
564495H	299	229	0.01	4	500	8	2	4	8	< 0.01	< 10	< 10	24	< 10	42
564496H	299	229	0.01	5	730	8	< 2	4	15	< 0.01	< 10	< 10	19	< 10	22
564497H	299	229	0.01	6	570	16	< 2	3	25	< 0.01	< 10	< 10	20	< 10	10
564498H	299	229	0.01	5	520	16	2	3	14	< 0.01	< 10	< 10	19	< 10	16
564499H	299	229	0.01	6	550	6	4	5	12	0.02	< 10	< 10	36	< 10	26
564500H	299	229	0.01	5	540	8	2	3	14	< 0.01	< 10	< 10	23	< 10	16
564501H	299	229	0.02	6	560	10	< 2	6	13	0.04	< 10	< 10	44	< 10	16
564502H	299	229	0.01	4	580	8	2	5	15	< 0.01	< 10	< 10	27	< 10	18
564503H	299	229	0.01	4	430	2	2	5	17	0.01	< 10	< 10	31	< 10	24
564504H	299	229	0.02	5	400	6	4	5	11	0.03	< 10	< 10	40	< 10	18

CERTIFICATION: Ian H Bichler

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CERTIFICATE OF ANALYSIS A9317429

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564505H	299	229	2.2	0.67	2	60	< 0.5	< 2	0.20	< 0.5	25	94	3330	2.87	< 10	1	0.33	20	0.22	95	430
564506H	299	229	2.2	0.93	2	30	< 0.5	< 2	0.28	< 0.5	36	100	3420	3.77	< 10	< 1	0.42	20	0.26	200	430
564507H	299	229	1.4	1.12	2	80	< 0.5	4	0.32	< 0.5	27	89	2480	3.25	< 10	< 1	0.67	30	0.71	145	307
564508H	299	229	2.6	0.96	2	20	< 0.5	< 2	0.28	< 0.5	71	103	4600	7.24	< 10	< 1	0.65	20	0.61	70	266
564509H	299	229	2.6	0.79	2	50	< 0.5	12	0.29	< 0.5	30	68	4630	4.18	< 10	< 1	0.49	20	0.43	75	588
564510H	299	229	2.6	0.85	4	90	< 0.5	< 2	0.52	0.5	25	76	2780	2.75	< 10	< 1	0.39	20	0.45	80	261
564511H	299	229	0.4	1.24	2	80	< 0.5	< 2	1.80	< 0.5	13	37	431	3.04	< 10	< 1	0.25	30	1.05	225	183
564512H	299	229	2.0	0.66	4	30	< 0.5	< 2	0.25	< 0.5	51	80	2570	4.85	< 10	< 1	0.35	10	0.16	45	529
564513H	299	229	2.4	0.50	4	30	< 0.5	8	0.12	< 0.5	42	69	2720	4.45	< 10	< 1	0.29	10	0.11	95	286
564514H	299	229	2.4	0.66	22	40	< 0.5	< 2	0.21	< 0.5	43	99	2930	4.17	< 10	< 1	0.39	10	0.37	180	141
564515H	299	229	2.6	0.55	4	40	< 0.5	8	0.20	< 0.5	39	68	3210	3.99	< 10	< 1	0.34	10	0.31	165	252
564516H	299	229	2.8	0.81	2	40	< 0.5	4	0.29	< 0.5	37	95	3230	4.31	< 10	< 1	0.51	30	0.55	105	252
564517H	299	229	2.6	0.89	2	30	< 0.5	4	0.37	< 0.5	51	80	2910	5.28	< 10	< 1	0.56	40	0.62	135	219
564518H	299	229	2.4	0.57	2	40	< 0.5	< 2	0.73	< 0.5	44	97	2510	4.51	< 10	< 1	0.27	30	0.41	365	346
770A	299	229	2.2	0.49	6	30	< 0.5	< 2	0.12	< 0.5	32	62	3080	4.44	< 10	< 1	0.21	10	0.09	40	185
771A	299	229	2.8	0.79	2	30	< 0.5	< 2	0.22	< 0.5	39	127	2330	4.73	< 10	< 1	0.32	20	0.16	270	109
772A	299	229	2.4	0.62	2	40	< 0.5	6	0.19	< 0.5	40	75	3150	3.85	< 10	< 1	0.38	10	0.34	185	239

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564505H	299	229	0.01	4	270	10	2	3	11	< 0.01	< 10	< 10	21	< 10	12
564506H	299	229	0.01	6	400	12	2	3	17	0.01	< 10	< 10	25	< 10	20
564507H	299	229	0.01	5	400	14	4	4	10	0.05	< 10	< 10	40	< 10	18
564508H	299	229	0.01	16	280	14	< 2	3	7	0.03	< 10	< 10	45	< 10	8
564509H	299	229	0.01	4	610	6	< 2	2	14	0.01	< 10	< 10	26	< 10	14
564510H	299	229	0.02	4	490	4	2	1	19	< 0.01	< 10	< 10	16	< 10	98
564511H	299	229	0.03	6	1130	6	2	2	64	< 0.01	< 10	< 10	27	10	30
564512H	299	229	0.01	3	390	12	< 2	1	13	< 0.01	< 10	< 10	10	10	4
564513H	299	229	0.01	2	290	12	4	1	10	< 0.01	< 10	10	8	< 10	8
564514H	299	229	0.01	3	280	10	4	3	8	0.01	< 10	10	25	< 10	16
564515H	299	229	0.01	4	280	4	< 2	2	7	0.01	< 10	< 10	23	< 10	12
564516H	299	229	0.01	5	280	6	2	4	11	0.02	< 10	< 10	34	< 10	20
564517H	299	229	0.01	7	330	50	< 2	6	12	0.03	< 10	< 10	41	< 10	28
564518H	299	229	0.01	6	290	8	2	5	14	< 0.01	< 10	20	30	< 10	26
770A	299	229	0.01	6	300	12	2	1	21	< 0.01	< 10	< 10	10	< 10	8
771A	299	229	0.01	6	500	10	< 2	4	9	< 0.01	< 10	< 10	21	< 10	48
772A	299	229	0.01	4	260	4	4	2	7	0.01	< 10	< 10	25	< 10	12

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-JUL-93
Invoice No. :19316604
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316604

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564208H	208	274	0.33	0.044	0.55	4000
564209H	208	276	0.28	0.049	0.48	7320
564210H	208	274	0.24	0.025	0.27	7080
564211H	208	274	0.27	0.025	0.38	5160
564212H	208	274	0.33	0.047	0.48	6120
564213H	208	276	0.28	0.020	0.62	8300
564214H	208	274	0.10	0.012	0.31	6680
564215H	208	274	0.08	0.004	0.24	7040
564216H	208	276	0.22	0.020	0.31	7580
564217H	208	276	0.23	0.023	0.45	7400
564218H	208	274	0.18	0.015	0.38	5500
564219H	208	274	0.36	0.023	0.62	6800
564220H	208	274	0.41	0.024	0.65	7080
564221H	208	276	0.43	0.041	0.58	7740
564222H	208	276	0.36	0.051	0.65	7320
564223H	208	274	0.44	0.032	0.79	7260
564224H	208	276	0.45	0.089	0.62	8200
564225H	208	276	0.55	0.054	0.93	7800
564226H	208	276	0.26	0.018	0.34	7640
564227H	208	276	0.26	0.042	0.34	7620
564228H	208	274	0.23	0.030	0.34	6760
564229H	208	276	0.32	0.026	0.38	7640
564230H	208	276	0.20	0.044	0.27	8380
564231H	208	276	0.23	0.051	0.34	7420
564232H	208	276	0.27	0.042	0.34	7960
564233H	208	276	0.34	0.048	0.38	8000
564234H	208	274	0.28	0.021	0.34	7200
564235H	208	276	0.21	0.014	0.21	7380
564236H	208	276	0.24	0.017	0.27	7580
564237H	208	276	0.20	0.034	0.24	8180
564238H	208	276	0.23	0.030	0.34	8100
564239H	208	276	0.23	0.022	0.24	7940
564240H	208	274	0.17	0.021	0.17	7080
564241H	208	276	0.25	0.042	0.31	7880
564242H	208	276	0.23	0.024	0.34	8540
564243H	208	276	0.27	0.022	0.24	8000
564244H	208	276	0.16	0.043	0.14	8200
564245H	208	276	0.23	0.026	0.24	7760
564246H	208	276	0.26	0.037	0.27	7320
564247H	208	276	0.29	0.077	0.24	7350

CERTIFICATION: _____

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Total Pages : 4
Certificate Date: 08-JUL-93
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CERTIFICATE OF ANALYSIS A9316604

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564248H	208	274	0.30	0.122	0.27	7020
564249H	208	276	0.31	0.054	0.34	7380
564250H	208	274	0.29	0.026	0.34	6980
564251H	208	274	0.27	0.024	0.31	6740
564252H	208	274	0.37	0.068	0.34	7140
564253H	208	274	0.88	0.066	0.69	7260
564254H	208	276	0.65	0.035	0.48	7740
564255H	208	276	0.52	0.066	0.45	7700
564256H	208	276	0.26	0.144	0.31	8080
564257H	208	274	0.27	0.295	0.34	6940
564258H	208	274	0.32	0.073	0.34	7040
564259H	208	276	0.35	0.038	0.48	7300
564260H	208	274	1.04	0.072	0.62	7100
564261H	208	276	0.34	0.043	0.34	7400
564262H	208	276	0.17	0.037	0.24	7300
564263H	208	274	0.28	0.025	0.34	6820
564264H	208	276	0.34	0.048	0.34	7440
564265H	208	276	0.25	0.024	0.27	7300
564266H	208	276	0.21	0.028	0.27	7520
564267H	208	274	0.20	0.033	0.24	7060
564268H	208	276	0.18	0.044	0.27	7360
564269H	208	276	0.16	0.024	0.24	7420
564270H	208	276	0.23	0.034	0.24	7600
564271H	208	274	0.20	0.022	0.27	6560
564272H	208	274	0.19	0.048	0.21	7060
564273H	208	274	0.16	0.041	0.24	7240
564274H	208	274	0.14	0.022	0.14	6520
564275H	208	274	0.25	0.033	0.31	6700
564276H	208	274	0.15	0.021	0.17	7100
564277H	208	276	0.19	0.032	0.27	7280
564278H	208	276	0.21	0.044	0.27	7400
564279H	208	274	0.23	0.025	0.34	6800
564280H	208	276	0.20	0.012	0.21	7380
564281H	208	274	0.16	0.025	0.21	7020
564282H	208	276	0.19	0.038	0.21	7380
564283H	208	274	0.18	0.034	0.14	670
564284H	208	274	0.27	0.046	0.14	7220
564285H	208	274	0.21	0.073	0.24	6440
564286H	208	274	0.19	0.046	0.21	6740
564287H	208	274	0.16	0.138	0.14	7080

CERTIFICATION: _____

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Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-JUL-93
Invoice No. : I9316604
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316604

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564288H	208	274	0.13	0.076	0.10	7260
564289H	208	276	0.17	0.052	0.17	7640
564290H	208	276	0.21	0.013	0.21	7700
564291H	208	276	0.28	0.029	0.27	7280
564292H	208	276	0.25	0.013	0.27	7460
564293H	208	276	0.16	0.015	0.14	7860
564294H	208	276	0.22	0.012	0.31	7600
564295H	208	276	0.22	0.015	0.21	7540
564296H	208	274	0.46	0.023	0.27	5280
564297H	208	276	0.46	0.019	0.45	9840
564298H	208	276	0.19	0.013	0.17	7520
564299H	208	276	0.12	0.013	0.07	7760
564300H	208	276	0.10	0.026	0.10	7340
564301H	208	276	0.10	0.019	0.07	7640
564302H	208	276	0.20	0.009	0.24	7420
564303H	208	276	0.19	0.012	0.24	7480
564304H	208	276	0.20	0.015	0.21	7280
564305H	208	276	0.15	0.018	0.14	7500
564306H	208	276	0.16	0.010	0.10	7480
564307H	208	274	0.16	0.011	0.17	6140
564308H	208	276	0.13	0.011	0.14	7580
564309H	208	276	0.19	0.017	0.14	8640
564310H	208	274	0.23	0.020	0.24	7240
564311H	208	274	0.21	0.009	0.21	7220
564312H	208	274	0.18	0.019	0.17	7040
564313H	208	276	0.27	0.014	0.24	7700
564314H	208	276	0.17	0.016	0.14	7540
564315H	208	274	0.26	0.030	0.24	6400
564316H	208	274	0.24	0.012	0.24	7020
564317H	208	274	0.15	0.017	0.14	7100
564318H	208	276	0.25	0.025	0.27	7360
564319H	208	274	0.24	0.010	0.21	6980
564320H	208	276	0.23	0.021	0.24	7620
564321H	208	276	0.20	0.032	0.14	8060
564322H	208	276	0.27	0.037	0.27	7500
564323H	208	276	0.23	0.039	0.24	7820
564324H	208	276	0.17	0.012	0.17	7940
564325H	208	276	0.15	0.011	0.14	8060
564326H	208	276	0.15	0.010	0.14	8120
564327H	208	276	0.15	0.028	0.14	7860

CERTIFICATION: D. G. Christie

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Y1A 3S9

Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-JUL-93
Invoice No. : 19316604
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316604

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
564328H	208	276	0.15	0.020	0.14	7900						
564329H	208	276	0.22	0.013	0.17	7760						
564330H	208	276	0.30	0.032	0.27	7740						
564331H	208	274	0.22	0.026	0.24	6980						
564332H	208	274	0.25	0.021	0.14	6580						
564333H	208	274	0.16	0.020	0.17	6480						
564334H	208	274	0.18	0.035	0.14	6300						
564335H	208	274	0.17	0.028	0.14	6100						
564336H	208	274	0.14	0.025	0.14	6580						
564337H	208	274	0.22	0.024	0.17	6660						
564338H	208	274	0.26	0.031	0.24	7140						
564339H	208	274	0.32	0.055	0.27	6760						
564340H	208	274	0.31	0.031	0.31	6560						
564341H	208	274	0.14	0.025	0.10	6320						
564342H	208	274	0.12	0.025	0.10	6300						
564343H	208	274	0.13	0.050	0.10	6660						
564344H	208	276	0.16	0.030	0.14	7820						
564345H	208	274	0.16	0.038	0.21	7220						
564346H	208	274	0.19	0.019	0.14	7240						
564347H	208	274	0.15	0.037	0.10	7000						
564348H	208	274	0.22	0.036	0.17	6780						
564349H	208	274	0.26	0.050	0.24	6980						
564350H	208	274	0.29	0.026	0.24	6920						
757A	208	274	0.07	0.002	0.45	3820						
758A	208	274	0.21	0.012	0.24	3300						
759A	208	274	0.60	0.072	0.55	3240						
760A	208	274	0.21	0.026	0.27	3540						
761A	208	274	0.21	0.019	0.21	3700						
762A	208	274	0.25	0.029	0.21	3580						
763A	208	274	0.18	0.037	0.14	3200						
814A	208	274	< 0.01	0.001	< 0.03	5900						

CERTIFICATION: D. Christie

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-JUL-93
Invoice No. : I9316605
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316605

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564208H	299	229	4.4	0.94	2	120	0.5	2	1.01	< 0.5	19	100	3200	2.11	< 10	< 1	0.41	30	0.52	120	234
564209H	299	229	3.0	1.04	4	170	0.5	< 2	2.11	< 0.5	14	73	2580	2.21	< 10	< 1	0.42	40	0.84	165	257
564210H	299	229	2.4	0.93	6	90	< 0.5	2	1.24	< 0.5	17	46	2410	2.73	< 10	< 1	0.36	20	0.59	130	136
564211H	299	229	2.0	0.67	6	100	< 0.5	< 2	0.76	< 0.5	14	54	2590	2.17	< 10	< 1	0.20	10	0.50	120	137
564212H	299	229	2.4	0.83	8	80	< 0.5	< 2	0.67	< 0.5	41	53	3200	3.64	< 10	< 1	0.31	20	0.69	125	269
564213H	299	229	2.0	1.07	< 2	100	< 0.5	< 2	0.73	< 0.5	21	74	2700	3.24	< 10	< 1	0.32	20	0.89	145	97
564214H	299	229	1.0	1.35	8	70	< 0.5	12	1.69	< 0.5	9	51	950	2.86	10	< 1	0.19	20	1.07	240	41
564215H	299	229	0.8	1.18	4	60	< 0.5	10	1.39	< 0.5	7	50	729	3.32	< 10	< 1	0.21	20	0.80	190	10
564216H	299	229	1.4	0.90	2	70	< 0.5	< 2	1.37	< 0.5	16	59	2140	3.43	< 10	< 1	0.34	30	0.56	190	104
564217H	299	229	1.4	1.21	4	100	< 0.5	< 2	1.03	< 0.5	24	81	2200	3.83	< 10	< 1	0.52	20	0.89	145	113
564218H	299	229	0.8	1.19	18	120	< 0.5	2	0.80	< 0.5	16	62	1715	2.75	< 10	< 1	0.59	20	0.97	115	79
564219H	299	229	1.8	1.28	2	110	< 0.5	2	0.57	< 0.5	18	87	3500	3.06	< 10	< 1	0.71	10	0.98	95	132
564220H	299	229	1.8	1.19	2	120	< 0.5	< 2	0.64	< 0.5	15	77	3990	3.04	10	< 1	0.67	30	0.93	100	138
564221H	299	229	2.0	1.09	< 2	60	< 0.5	< 2	0.45	< 0.5	18	82	4240	4.77	< 10	< 1	0.56	10	0.74	90	208
564222H	299	229	1.6	0.94	6	110	< 0.5	< 2	0.63	< 0.5	13	61	3760	5.03	< 10	< 1	0.48	10	0.69	85	268
564223H	299	229	1.4	0.60	2	70	< 0.5	< 2	0.44	< 0.5	22	63	4020	6.84	< 10	< 1	0.31	10	0.39	70	157
564224H	299	229	1.8	1.03	< 2	100	< 0.5	2	0.74	< 0.5	17	63	4520	3.64	< 10	< 1	0.61	10	0.66	95	517
564225H	299	229	2.4	1.12	< 2	160	< 0.5	< 2	0.36	< 0.5	15	92	5580	8.46	10	< 1	0.62	10	0.80	90	307
564226H	299	229	1.0	1.17	< 2	190	< 0.5	< 2	1.01	0.5	13	65	2370	2.92	10	< 1	0.60	20	0.93	95	85
564227H	299	229	1.2	1.41	4	140	0.5	< 2	1.06	< 0.5	18	90	2480	2.50	10	< 1	0.74	30	1.14	135	223
564228H	299	229	1.2	1.20	< 2	60	< 0.5	< 2	1.29	< 0.5	36	77	2370	3.66	10	< 1	0.55	30	1.06	125	148
564229H	299	229	1.8	1.06	4	70	< 0.5	< 2	1.37	< 0.5	37	71	3100	3.44	10	< 1	0.53	40	0.86	150	121
564230H	299	229	1.2	1.20	10	100	< 0.5	< 2	1.31	< 0.5	13	77	1965	2.18	10	< 1	0.51	30	1.03	140	235
564231H	299	229	1.2	1.08	2	120	< 0.5	2	1.43	< 0.5	14	67	2200	2.20	10	< 1	0.57	30	0.86	135	293
564232H	299	229	1.4	1.44	6	110	0.5	< 2	1.56	< 0.5	15	74	2690	2.46	10	< 1	0.66	40	0.97	150	228
564233H	299	229	2.6	1.24	4	110	< 0.5	2	1.20	< 0.5	15	84	3520	2.62	< 10	< 1	0.58	40	0.71	115	268
564234H	299	229	1.6	1.00	4	130	< 0.5	< 2	0.97	< 0.5	14	91	2760	2.07	< 10	< 1	0.47	30	0.59	90	112
564235H	299	229	1.2	0.75	< 2	80	< 0.5	< 2	0.95	< 0.5	12	85	1935	2.17	< 10	< 1	0.29	30	0.43	85	71
564236H	299	229	1.2	0.98	< 2	70	< 0.5	< 2	1.12	< 0.5	21	73	2330	2.44	< 10	< 1	0.42	20	0.60	90	85
564237H	299	229	1.2	1.01	2	150	< 0.5	4	1.32	< 0.5	14	85	1855	2.00	< 10	< 1	0.48	30	0.82	145	185
564238H	299	229	1.0	1.16	< 2	140	< 0.5	2	1.16	< 0.5	20	79	2090	2.20	< 10	< 1	0.52	20	0.76	130	154
564239H	299	229	1.0	1.27	< 2	170	0.5	2	1.08	< 0.5	17	114	1985	1.78	< 10	< 1	0.53	30	0.75	125	111
564240H	299	229	1.0	0.97	< 2	120	< 0.5	2	1.08	< 0.5	21	83	1620	1.87	< 10	< 1	0.50	20	0.66	115	108
564241H	299	229	1.4	0.97	< 2	160	< 0.5	2	1.27	< 0.5	14	76	2340	1.69	< 10	< 1	0.56	20	0.75	120	238
564242H	299	229	0.8	0.94	6	180	0.5	2	1.22	< 0.5	13	74	2070	1.40	< 10	< 1	0.43	30	0.63	100	110
564243H	299	229	2.0	0.66	2	110	< 0.5	6	1.04	< 0.5	15	54	2600	1.73	< 10	< 1	0.36	30	0.50	125	116
564244H	299	229	1.4	0.34	2	60	< 0.5	4	1.82	< 0.5	19	35	1445	2.55	< 10	< 1	0.21	20	0.65	395	228
564245H	299	229	2.0	0.60	4	70	< 0.5	4	1.09	< 0.5	16	59	2240	2.92	< 10	< 1	0.32	30	0.47	190	120
564246H	299	229	1.0	0.51	4	70	< 0.5	2	0.87	< 0.5	21	42	2500	1.80	< 10	< 1	0.18	20	0.38	140	198
564247H	299	229	2.2	0.36	6	30	< 0.5	4	1.73	< 0.5	36	58	2860	3.45	< 10	< 1	0.19	30	0.48	335	430

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pag :4
Certificate Date: 12-JUL-93
Invoice No. :I9316605
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316605

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564208H	299	229	0.03	4	300	8	< 2	3	36	0.01	< 10	< 10	33	< 10	34
564209H	299	229	0.02	3	390	2	< 2	4	57	0.01	10	< 10	33	< 10	34
564210H	299	229	0.01	4	430	14	< 2	3	35	0.01	< 10	< 10	25	< 10	32
564211H	299	229	0.02	3	410	6	< 2	2	35	< 0.01	< 10	< 10	20	< 10	34
564212H	299	229	0.02	6	400	6	< 2	3	28	0.01	< 10	< 10	32	< 10	42
564213H	299	229	0.03	6	470	4	< 2	4	30	0.02	< 10	< 10	45	< 10	42
564214H	299	229	0.05	7	1130	6	< 2	2	60	0.03	< 10	< 10	32	< 10	44
564215H	299	229	0.04	8	1140	4	< 2	1	47	0.01	< 10	< 10	23	< 10	42
564216H	299	229	0.01	5	460	4	< 2	4	37	0.01	< 10	< 10	28	< 10	32
564217H	299	229	0.03	6	1300	4	< 2	6	33	0.04	< 10	< 10	54	< 10	44
564218H	299	229	0.03	7	480	2	< 2	4	24	0.05	< 10	< 10	44	< 10	30
564219H	299	229	0.03	8	430	2	< 2	6	21	0.07	10	< 10	51	< 10	48
564220H	299	229	0.03	9	420	6	< 2	4	22	0.06	10	< 10	42	< 10	36
564221H	299	229	0.02	8	280	4	< 2	4	20	0.05	< 10	< 10	43	< 10	40
564222H	299	229	0.02	8	380	6	< 2	3	24	0.04	< 10	< 10	41	< 10	40
564223H	299	229	0.02	6	230	6	< 2	2	19	0.02	< 10	< 10	39	< 10	40
564224H	299	229	0.01	7	360	6	< 2	5	29	0.03	< 10	< 10	38	< 10	40
564225H	299	229	0.03	8	240	4	< 2	5	25	0.06	< 10	< 10	72	< 10	56
564226H	299	229	0.03	3	350	10	< 2	7	75	0.07	< 10	< 10	55	< 10	48
564227H	299	229	0.03	9	580	14	< 2	6	52	0.06	10	< 10	47	< 10	50
564228H	299	229	0.03	10	610	4	< 2	4	73	0.04	10	< 10	33	< 10	42
564229H	299	229	0.01	11	670	4	< 2	3	66	0.02	10	< 10	24	< 10	40
564230H	299	229	0.03	8	650	4	< 2	3	89	0.03	10	< 10	32	240	46
564231H	299	229	0.02	7	660	6	< 2	3	83	0.02	10	< 10	26	< 10	32
564232H	299	229	0.02	8	710	6	< 2	3	59	0.02	10	< 10	29	< 10	40
564233H	299	229	0.01	6	600	4	2	3	54	0.01	10	< 10	23	< 10	30
564234H	299	229	0.02	< 1	400	4	< 2	4	54	0.01	10	< 10	25	< 10	30
564235H	299	229	0.01	1	400	6	< 2	3	48	< 0.01	10	< 10	17	< 10	20
564236H	299	229	0.03	1	430	2	< 2	4	127	0.01	< 10	< 10	26	< 10	24
564237H	299	229	0.02	4	480	18	< 2	5	95	0.03	10	< 10	35	< 10	36
564238H	299	229	0.03	4	400	8	< 2	6	97	0.03	< 10	< 10	39	< 10	36
564239H	299	229	0.02	6	400	6	< 2	6	73	0.03	< 10	< 10	39	< 10	32
564240H	299	229	0.02	4	430	10	< 2	5	74	0.02	< 10	< 10	31	< 10	26
564241H	299	229	0.03	4	390	12	< 2	6	126	0.03	< 10	< 10	39	< 10	32
564242H	299	229	0.01	3	360	8	< 2	6	61	0.01	< 10	< 10	33	< 10	24
564243H	299	229	0.01	4	430	8	< 2	4	39	0.01	< 10	< 10	24	< 10	50
564244H	299	229	< 0.01	4	460	6	2	2	22	< 0.01	< 10	< 10	11	< 10	46
564245H	299	229	0.01	4	420	16	< 2	4	31	0.01	< 10	< 10	19	< 10	50
564246H	299	229	< 0.01	5	480	6	2	4	30	< 0.01	< 10	< 10	15	< 10	34
564247H	299	229	< 0.01	9	520	14	2	5	15	< 0.01	10	< 10	10	< 10	36

CERTIFICATION: Stuart Bichler

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CERTIFICATE OF ANALYSIS A9316605

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564248H	299	229	5.0	1.03	10	80	< 0.5	12	0.76	< 0.5	14	138	3080	2.95	< 10	< 1	0.52	20	0.48	160	680
564249H	299	229	6.2	2.00	8	140	0.5	4	0.90	< 0.5	13	247	3020	1.85	< 10	< 1	0.61	30	0.54	140	272
564250H	299	229	2.4	1.16	4	120	< 0.5	2	0.88	< 0.5	16	117	2840	2.06	< 10	< 1	0.55	30	0.64	155	133
564251H	299	229	4.0	1.66	20	100	0.5	2	0.94	< 0.5	16	80	2660	2.31	< 10	< 1	0.53	20	0.87	140	130
564252H	299	229	4.6	1.20	14	110	< 0.5	18	0.72	0.5	14	92	3660	1.86	< 10	< 1	0.40	30	0.48	140	400
564253H	299	229	9.8	0.83	20	60	< 0.5	14	1.03	< 0.5	14	93	8860	2.60	< 10	< 1	0.31	30	0.38	225	362
564254H	299	229	7.0	0.61	30	60	< 0.5	18	0.65	0.5	18	82	6480	3.26	< 10	< 1	0.39	20	0.24	160	166
564255H	299	229	5.0	0.48	14	40	< 0.5	16	0.84	< 0.5	12	122	4900	3.56	< 10	< 1	0.34	10	0.19	195	331
564256H	299	229	1.8	0.75	14	40	< 0.5	2	0.39	< 0.5	11	81	2540	1.21	< 10	< 1	0.24	20	0.16	115	835
564257H	299	229	2.0	0.87	14	40	< 0.5	< 2	0.50	< 0.5	13	97	2580	1.32	< 10	< 1	0.24	30	0.19	160	1745
564258H	299	229	1.6	1.05	8	60	< 0.5	2	0.81	< 0.5	11	89	3150	1.29	< 10	< 1	0.34	30	0.49	195	374
564259H	299	229	2.2	1.38	12	90	< 0.5	2	0.82	< 0.5	18	160	3460	2.00	< 10	< 1	0.54	20	0.55	195	183
564260H	299	229	9.0	0.51	16	50	< 0.5	2	0.60	0.5	14	85	>10000	3.80	< 10	< 1	0.32	20	0.22	155	360
564261H	299	229	2.2	1.18	6	80	< 0.5	< 2	0.70	< 0.5	9	98	3160	1.67	< 10	< 1	0.44	20	0.43	160	221
564262H	299	229	1.2	1.48	10	110	< 0.5	2	0.68	< 0.5	10	96	1565	1.23	< 10	< 1	0.50	30	0.66	150	195
564263H	299	229	1.2	1.13	4	70	< 0.5	< 2	0.78	< 0.5	21	132	2690	1.65	< 10	< 1	0.41	30	0.46	175	137
564264H	299	229	1.8	1.27	12	160	< 0.5	< 2	0.68	< 0.5	15	85	3080	1.42	< 10	< 1	0.46	30	0.64	140	256
564265H	299	229	1.2	1.65	6	150	0.5	2	0.81	< 0.5	17	104	2360	2.06	< 10	< 1	0.62	30	0.95	110	120
564266H	299	229	1.2	1.42	8	160	< 0.5	2	0.89	< 0.5	15	75	1990	1.85	< 10	< 1	0.64	30	1.00	100	151
564267H	299	229	1.2	1.41	6	190	< 0.5	2	1.10	< 0.5	18	106	1850	1.89	< 10	< 1	0.56	20	0.95	160	162
564268H	299	229	0.8	1.33	8	70	< 0.5	< 2	0.90	< 0.5	37	107	1705	2.90	< 10	< 1	0.45	20	0.76	140	195
564269H	299	229	0.8	1.44	14	130	0.5	2	0.82	< 0.5	20	109	1645	1.94	< 10	< 1	0.59	30	0.89	125	111
564270H	299	229	0.8	1.44	6	100	0.5	< 2	0.82	< 0.5	29	145	2420	1.66	< 10	< 1	0.60	30	0.64	130	161
564271H	299	229	0.8	1.35	4	100	< 0.5	2	0.52	< 0.5	14	144	2030	1.48	< 10	< 1	0.48	30	0.65	85	106
564272H	299	229	0.6	0.88	6	80	< 0.5	< 2	0.49	< 0.5	11	100	1890	1.05	< 10	< 1	0.27	30	0.30	70	259
564273H	299	229	0.6	1.26	12	80	< 0.5	< 2	0.74	< 0.5	11	120	1470	1.39	< 10	< 1	0.43	40	0.73	110	194
564274H	299	229	0.6	1.29	6	140	< 0.5	< 2	0.81	< 0.5	17	92	1390	1.57	< 10	< 1	0.54	30	0.89	120	105
564275H	299	229	1.2	1.46	2	210	< 0.5	2	0.62	< 0.5	14	130	2410	1.70	< 10	< 1	0.59	30	0.86	85	161
564276H	299	229	0.6	1.37	8	200	< 0.5	< 2	0.65	< 0.5	14	95	1420	1.73	< 10	< 1	0.50	20	0.79	115	102
564277H	299	229	0.8	1.52	8	110	< 0.5	2	0.47	< 0.5	20	103	1885	2.28	< 10	< 1	0.52	50	0.82	85	171
564278H	299	229	2.8	0.99	12	80	< 0.5	6	0.59	< 0.5	16	91	2010	2.04	< 10	< 1	0.37	60	0.47	105	229
564279H	299	229	0.8	1.09	4	130	< 0.5	2	0.63	< 0.5	20	114	2280	1.97	< 10	< 1	0.35	40	0.50	105	137
564280H	299	229	0.6	1.21	6	130	< 0.5	2	0.80	< 0.5	20	100	1975	1.82	< 10	< 1	0.50	30	0.76	115	59
564281H	299	229	0.6	1.09	2	110	< 0.5	2	0.80	< 0.5	22	100	1535	1.92	< 10	< 1	0.43	40	0.67	125	132
564282H	299	229	1.2	0.75	4	130	< 0.5	< 2	0.72	< 0.5	13	100	1855	1.58	< 10	< 1	0.29	20	0.35	115	187
564283H	299	229	1.2	0.92	< 2	120	< 0.5	2	0.82	0.5	14	104	1690	1.70	< 10	< 1	0.33	30	0.54	130	167
564284H	299	229	2.2	0.77	6	90	< 0.5	2	0.84	0.5	17	109	2520	1.77	< 10	< 1	0.40	40	0.38	105	233
564285H	299	229	2.2	0.72	6	100	< 0.5	2	0.69	< 0.5	10	117	1890	1.25	< 10	< 1	0.28	50	0.37	95	392
564286H	299	229	2.0	0.90	4	100	< 0.5	2	0.76	< 0.5	41	111	1810	2.02	< 10	< 1	0.40	30	0.61	100	222
564287H	299	229	0.8	0.77	< 2	170	< 0.5	< 2	0.73	< 0.5	12	176	1505	1.20	< 10	< 1	0.44	30	0.42	85	736

CERTIFICATION: Hart Bichler

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564248H	299	229	0.01	8	400	20	2	6	21	0.01	< 10	< 10	29	< 10	56
564249H	299	229	0.02	8	400	14	4	7	37	0.01	10	< 10	41	< 10	52
564250H	299	229	0.01	4	380	6	< 2	6	38	0.01	10	< 10	33	< 10	38
564251H	299	229	0.01	6	440	22	4	7	67	0.02	< 10	< 10	42	< 10	78
564252H	299	229	0.01	6	440	24	4	7	24	0.01	10	< 10	35	< 10	70
564253H	299	229	< 0.01	6	470	20	12	5	15	< 0.01	10	< 10	19	< 10	82
564254H	299	229	< 0.01	6	550	34	20	2	13	< 0.01	< 10	< 10	8	< 10	88
564255H	299	229	< 0.01	5	340	16	8	1	13	< 0.01	< 10	< 10	3	< 10	62
564256H	299	229	< 0.01	3	430	8	6	5	11	< 0.01	10	< 10	16	< 10	60
564257H	299	229	< 0.01	4	450	4	10	6	12	< 0.01	10	< 10	17	< 10	64
564258H	299	229	0.01	7	460	14	4	8	18	< 0.01	10	< 10	36	< 10	70
564259H	299	229	0.01	7	440	4	4	5	23	< 0.01	< 10	< 10	31	< 10	48
564260H	299	229	< 0.01	9	360	50	2	2	8	< 0.01	< 10	< 10	7	< 10	84
564261H	299	229	0.01	5	320	6	2	6	13	< 0.01	< 10	< 10	38	< 10	42
564262H	299	229	0.01	4	390	6	4	9	21	0.01	10	< 10	52	< 10	32
564263H	299	229	0.01	6	480	12	4	8	17	0.01	10	< 10	36	< 10	44
564264H	299	229	0.01	5	340	10	2	9	28	0.02	10	< 10	43	< 10	38
564265H	299	229	0.02	5	400	10	2	8	46	0.05	< 10	< 10	50	< 10	34
564266H	299	229	0.02	4	400	10	2	8	43	0.05	< 10	< 10	49	< 10	32
564267H	299	229	0.02	4	360	12	< 2	9	33	0.04	< 10	< 10	52	< 10	30
564268H	299	229	0.01	7	380	10	2	6	35	0.02	< 10	< 10	39	< 10	44
564269H	299	229	0.02	3	350	10	< 2	8	45	0.02	< 10	< 10	47	< 10	30
564270H	299	229	0.01	6	390	8	< 2	5	26	0.01	< 10	< 10	36	< 10	32
564271H	299	229	0.01	5	420	12	< 2	8	24	0.02	< 10	< 10	47	< 10	34
564272H	299	229	0.01	4	410	14	< 2	7	13	0.01	< 10	< 10	32	< 10	38
564273H	299	229	0.01	4	350	10	2	7	28	0.01	10	< 10	43	< 10	36
564274H	299	229	0.01	3	380	14	2	7	30	0.03	< 10	< 10	49	< 10	34
564275H	299	229	0.01	5	360	8	2	7	32	0.03	< 10	< 10	54	< 10	42
564276H	299	229	0.01	3	390	12	2	10	27	0.03	< 10	< 10	54	< 10	48
564277H	299	229	0.01	4	450	14	2	7	28	0.03	< 10	< 10	52	< 10	70
564278H	299	229	< 0.01	4	380	26	4	5	18	0.01	10	< 10	33	< 10	78
564279H	299	229	0.01	5	460	16	2	8	17	0.02	< 10	< 10	38	< 10	60
564280H	299	229	0.01	4	350	16	4	6	30	0.02	< 10	< 10	42	< 10	40
564281H	299	229	0.01	5	410	12	2	7	25	0.01	< 10	< 10	39	< 10	40
564282H	299	229	0.01	4	380	16	2	6	16	< 0.01	< 10	< 10	25	< 10	40
564283H	299	229	0.01	4	480	34	2	6	17	0.01	10	< 10	34	< 10	68
564284H	299	229	0.01	4	370	36	2	6	13	0.01	10	< 10	30	< 10	82
564285H	299	229	0.01	4	330	16	< 2	6	12	< 0.01	10	< 10	28	< 10	36
564286H	299	229	0.01	5	350	12	2	6	20	0.02	< 10	< 10	37	< 10	40
564287H	299	229	0.01	4	290	8	2	4	14	0.01	< 10	< 10	27	< 10	24

CERTIFICATION: Jan H Bichler

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564288H	299	229	1.0	0.83	< 2	70	< 0.5	< 2	0.74	< 0.5	113	102	1285	2.48	< 10	< 1	0.38	40	0.48	85	435
564289H	299	229	1.2	1.32	4	130	< 0.5	< 2	0.79	< 0.5	46	104	1600	2.03	< 10	< 1	0.52	40	0.81	90	280
564290H	299	229	2.2	1.37	14	90	0.5	2	0.99	< 0.5	22	112	2180	2.27	< 10	< 1	0.62	40	0.89	105	74
564291H	299	229	2.0	0.74	28	100	< 0.5	< 2	1.61	< 0.5	27	101	2870	1.66	< 10	< 1	0.30	30	0.45	105	159
564292H	299	229	0.8	0.96	24	80	< 0.5	< 2	0.93	< 0.5	23	50	2550	2.38	< 10	< 1	0.52	20	0.73	80	85
564293H	299	229	0.6	1.18	6	130	< 0.5	< 2	0.92	< 0.5	20	62	1645	2.03	< 10	< 1	0.67	30	0.96	100	86
564294H	299	229	1.0	1.17	< 2	170	0.5	< 2	0.99	< 0.5	17	81	2310	1.82	< 10	< 1	0.55	20	0.79	100	66
564295H	299	229	0.6	0.65	6	130	< 0.5	< 2	0.82	< 0.5	10	74	2260	1.43	< 10	< 1	0.40	10	0.41	65	91
564296H	299	229	3.4	0.70	28	90	< 0.5	< 2	0.70	0.5	9	101	4860	1.63	< 10	< 1	0.42	10	0.16	55	132
564297H	299	229	2.0	0.41	8	80	< 0.5	< 2	0.67	< 0.5	12	82	4880	1.86	< 10	< 1	0.28	10	0.15	40	109
564298H	299	229	0.8	0.72	4	140	< 0.5	< 2	0.86	< 0.5	11	69	1885	1.35	< 10	< 1	0.49	10	0.52	60	71
564299H	299	229	0.6	0.67	4	140	< 0.5	< 2	0.75	< 0.5	13	102	1225	1.50	< 10	< 1	0.42	10	0.38	55	66
564300H	299	229	0.6	0.65	2	130	< 0.5	< 2	0.94	< 0.5	6	177	957	0.98	< 10	< 1	0.34	10	0.09	45	147
564301H	299	229	0.6	0.56	2	110	< 0.5	< 2	1.06	< 0.5	11	60	980	1.22	< 10	< 1	0.28	20	0.31	50	120
564302H	299	229	1.6	1.13	2	200	< 0.5	< 2	1.41	< 0.5	21	79	1950	1.85	< 10	< 1	0.61	40	0.71	90	59
564303H	299	229	1.2	0.93	4	180	< 0.5	< 2	1.29	< 0.5	19	64	1780	1.75	< 10	< 1	0.46	30	0.59	85	59
564304H	299	229	1.6	1.43	4	270	< 0.5	< 2	1.28	< 0.5	15	151	1945	1.57	< 10	< 1	0.68	30	0.71	100	78
564305H	299	229	1.4	0.41	6	140	< 0.5	< 2	1.88	< 0.5	10	68	1530	1.07	< 10	< 1	0.25	20	0.27	80	91
564306H	299	229	1.2	0.89	< 2	260	< 0.5	< 2	1.28	< 0.5	9	56	1480	1.42	< 10	< 1	0.56	20	0.67	90	48
564307H	299	229	1.8	0.78	14	230	< 0.5	2	1.69	< 0.5	18	46	1630	1.53	< 10	< 1	0.46	30	0.70	90	58
564308H	299	229	0.8	0.93	6	200	< 0.5	< 2	1.35	< 0.5	22	45	1225	1.77	< 10	< 1	0.57	30	0.78	100	46
564309H	299	229	2.0	0.66	8	130	< 0.5	2	1.40	< 0.5	21	49	1950	1.43	< 10	< 1	0.32	30	0.51	70	98
564310H	299	229	1.2	1.13	8	160	0.5	< 2	1.32	< 0.5	21	93	2420	1.70	< 10	< 1	0.56	30	0.70	70	109
564311H	299	229	1.2	0.70	6	110	0.5	2	2.50	< 0.5	20	62	2150	1.81	< 10	< 1	0.24	20	0.35	105	49
564312H	299	229	1.0	1.30	< 2	180	< 0.5	4	1.15	< 0.5	17	136	1840	1.67	< 10	< 1	0.70	30	0.80	100	100
564313H	299	229	1.2	1.01	6	160	0.5	2	1.18	< 0.5	19	51	2760	1.64	< 10	< 1	0.46	30	0.86	80	82
564314H	299	229	0.6	1.27	6	270	0.5	2	0.84	< 0.5	12	38	1705	1.19	< 10	< 1	0.72	10	1.13	65	87
564315H	299	229	0.8	1.45	8	200	0.5	< 2	0.73	< 0.5	17	58	2570	1.69	< 10	< 1	0.74	10	1.20	70	177
564316H	299	229	1.0	1.02	2	180	< 0.5	2	0.97	< 0.5	21	44	2400	1.57	< 10	< 1	0.48	10	0.87	70	67
564317H	299	229	0.6	1.32	10	230	0.5	< 2	1.32	< 0.5	19	51	1505	1.73	< 10	< 1	0.67	20	1.02	80	91
564318H	299	229	1.6	0.98	86	180	0.5	< 2	2.59	< 0.5	13	30	2690	1.39	< 10	< 1	0.51	20	0.65	85	135
564319H	299	229	0.8	1.19	16	230	0.5	< 2	1.59	< 0.5	13	41	2400	1.54	< 10	< 1	0.63	30	0.86	70	50
564320H	299	229	0.8	1.35	2	290	0.5	2	1.78	< 0.5	13	36	2440	1.56	< 10	< 1	0.72	30	1.01	80	109
564321H	299	229	0.6	1.20	4	260	0.5	< 2	1.57	< 0.5	9	47	1960	1.21	< 10	< 1	0.67	30	0.98	70	175
564322H	299	229	0.8	0.99	14	180	0.5	< 2	1.57	< 0.5	17	50	2710	1.43	< 10	< 1	0.57	30	0.74	80	197
564323H	299	229	0.8	1.05	30	280	< 0.5	< 2	1.57	< 0.5	12	59	2310	1.24	< 10	< 1	0.64	30	0.84	90	220
564324H	299	229	0.6	1.01	2	190	< 0.5	< 2	1.76	< 0.5	10	52	1645	1.25	< 10	< 1	0.64	30	0.85	60	69
564325H	299	229	0.2	1.04	2	180	< 0.5	< 2	2.04	< 0.5	16	68	1535	1.54	< 10	< 1	0.66	20	0.85	95	72
564326H	299	229	0.4	0.97	2	230	0.5	< 2	2.07	< 0.5	19	46	1545	1.56	< 10	< 1	0.54	30	0.65	125	69
564327H	299	229	0.6	0.85	4	190	< 0.5	< 2	3.39	< 0.5	12	62	1540	1.15	< 10	< 1	0.50	20	0.65	165	162

CERTIFICATION: Hart Buchler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-JUL-93
Invoice No. :I9316605
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316605

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564288H	299	229	0.01	7	310	14	2	5	17	0.01	10	< 10	29	< 10	36
564289H	299	229	0.01	2	370	14	2	6	32	0.03	< 10	< 10	45	< 10	48
564290H	299	229	0.03	4	360	8	2	7	109	0.05	< 10	< 10	53	< 10	54
564291H	299	229	0.01	4	350	8	4	5	30	< 0.01	< 10	< 10	29	< 10	38
564292H	299	229	0.01	3	370	6	2	6	79	0.04	< 10	< 10	43	< 10	48
564293H	299	229	0.02	4	420	8	< 2	7	178	0.07	< 10	< 10	55	< 10	38
564294H	299	229	0.02	3	420	12	2	6	32	0.04	< 10	< 10	47	< 10	38
564295H	299	229	0.01	4	250	8	2	3	18	0.02	< 10	< 10	27	< 10	28
564296H	299	229	0.01	6	200	14	4	2	14	< 0.01	< 10	< 10	17	< 10	50
564297H	299	229	< 0.01	6	210	8	< 2	2	11	< 0.01	< 10	< 10	14	< 10	36
564298H	299	229	0.01	3	240	4	2	4	15	0.03	< 10	< 10	36	< 10	24
564299H	299	229	0.01	3	230	14	2	3	15	0.01	< 10	< 10	25	< 10	22
564300H	299	229	0.01	2	70	8	2	< 1	17	< 0.01	< 10	< 10	3	< 10	12
564301H	299	229	0.01	3	240	12	2	2	25	0.01	10	< 10	14	< 10	18
564302H	299	229	0.02	4	360	12	< 2	6	37	0.05	10	< 10	45	< 10	28
564303H	299	229	0.02	4	370	8	2	5	35	0.03	< 10	< 10	36	< 10	28
564304H	299	229	0.04	4	340	8	2	7	42	0.04	< 10	< 10	47	< 10	32
564305H	299	229	0.01	3	240	22	< 2	3	44	< 0.01	< 10	< 10	16	< 10	20
564306H	299	229	0.02	3	310	12	2	7	34	0.06	< 10	< 10	43	< 10	28
564307H	299	229	0.02	3	430	26	2	7	78	0.03	< 10	< 10	38	< 10	36
564308H	299	229	0.03	3	440	12	4	9	95	0.06	< 10	< 10	51	< 10	36
564309H	299	229	0.02	4	410	12	2	5	43	0.01	< 10	< 10	31	< 10	28
564310H	299	229	0.03	5	420	12	< 2	7	69	0.03	< 10	< 10	47	< 10	28
564311H	299	229	0.01	4	460	12	2	3	64	< 0.01	< 10	< 10	18	< 10	28
564312H	299	229	0.06	4	380	12	2	8	42	0.03	< 10	< 10	52	< 10	30
564313H	299	229	0.02	4	390	8	2	6	58	0.02	< 10	< 10	44	< 10	30
564314H	299	229	0.02	2	350	6	2	8	57	0.06	< 10	< 10	68	< 10	24
564315H	299	229	0.02	5	370	8	< 2	9	46	0.06	< 10	< 10	72	< 10	28
564316H	299	229	0.02	4	330	8	< 2	6	57	0.03	< 10	< 10	50	< 10	26
564317H	299	229	0.02	4	430	6	2	9	82	0.06	< 10	< 10	68	< 10	24
564318H	299	229	0.01	4	620	6	10	8	65	0.02	< 10	< 10	51	< 10	30
564319H	299	229	0.02	3	440	8	2	7	58	0.05	< 10	< 10	52	< 10	26
564320H	299	229	0.02	4	420	12	< 2	9	83	0.06	< 10	< 10	60	< 10	26
564321H	299	229	0.02	6	360	4	2	8	53	0.05	< 10	< 10	58	< 10	22
564322H	299	229	0.02	4	360	6	< 2	7	75	0.04	< 10	< 10	47	< 10	30
564323H	299	229	0.02	4	360	6	2	8	97	0.06	< 10	< 10	53	< 10	26
564324H	299	229	0.02	4	400	4	< 2	8	114	0.07	< 10	< 10	54	< 10	18
564325H	299	229	0.02	4	430	2	2	8	102	0.06	< 10	< 10	54	< 10	18
564326H	299	229	0.01	4	450	6	< 2	8	126	0.03	< 10	< 10	45	< 10	16
564327H	299	229	0.02	3	410	6	2	8	85	0.04	< 10	< 10	46	< 10	18

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-JUL-93
Invoice No. :I9316605
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316605

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564328H	299	229	0.4	1.46	< 2	260	0.5	< 2	2.12	< 0.5	11	48	1375	1.45	10	< 1	0.71	20	0.99	125	102
564329H	299	229	0.8	1.28	< 2	240	0.5	< 2	1.73	< 0.5	14	62	2200	1.58	< 10	< 1	0.63	20	0.93	120	68
564330H	299	229	1.6	1.10	< 2	170	< 0.5	< 2	1.58	< 0.5	11	56	2890	1.38	< 10	< 1	0.63	20	0.91	65	168
564331H	299	229	0.8	1.34	< 2	250	0.5	< 2	1.33	< 0.5	15	52	2080	1.45	< 10	< 1	0.69	20	1.08	65	132
564332H	299	229	0.6	1.37	4	160	0.5	< 2	1.84	< 0.5	17	49	2370	1.80	10	< 1	0.70	20	1.09	80	111
564333H	299	229	0.4	1.20	< 2	190	< 0.5	< 2	1.47	< 0.5	11	83	1570	1.31	< 10	< 1	0.65	20	0.92	60	103
564334H	299	229	0.6	0.90	< 2	150	< 0.5	< 2	1.81	< 0.5	13	74	1760	1.31	< 10	< 1	0.53	10	0.71	90	189
564335H	299	229	0.8	0.51	< 2	70	< 0.5	< 2	0.65	< 0.5	19	88	1685	1.45	< 10	< 1	0.19	10	0.17	70	181
564336H	299	229	0.4	0.48	6	150	< 0.5	< 2	0.87	< 0.5	18	37	1325	1.55	< 10	< 1	0.07	10	0.17	130	127
564337H	299	229	1.2	0.71	16	120	< 0.5	< 2	0.71	< 0.5	26	77	2230	2.36	< 10	< 1	0.08	20	0.26	145	135
564338H	299	229	1.2	0.48	10	140	< 0.5	< 2	0.59	< 0.5	20	29	2550	1.92	< 10	< 1	0.05	40	0.21	140	158
564339H	299	229	1.6	0.52	4	170	< 0.5	< 2	0.91	< 0.5	13	81	3180	1.47	< 10	< 1	0.10	30	0.21	170	308
564340H	299	229	1.8	0.37	22	100	< 0.5	< 2	1.34	< 0.5	14	45	2930	1.79	< 10	< 1	0.08	20	0.39	375	150
564341H	299	229	0.4	0.97	< 2	180	< 0.5	< 2	1.90	< 0.5	13	91	1315	1.75	< 10	< 1	0.39	20	0.82	340	135
564342H	299	229	0.2	1.53	< 2	250	0.5	< 2	0.72	< 0.5	16	54	1190	1.54	10	< 1	0.55	20	0.96	85	147
564343H	299	229	0.2	1.32	< 2	180	0.5	< 2	0.60	< 0.5	18	75	1270	1.56	< 10	< 1	0.57	20	0.86	70	330
564344H	299	229	0.6	1.26	< 2	220	0.5	< 2	1.15	< 0.5	10	50	1535	0.99	< 10	< 1	0.53	20	0.85	85	161
564345H	299	229	0.8	1.22	< 2	220	0.5	< 2	1.87	< 0.5	12	76	1535	1.60	< 10	< 1	0.48	20	1.08	125	197
564346H	299	229	1.2	1.08	< 2	190	< 0.5	< 2	0.70	< 0.5	20	55	1825	1.60	< 10	< 1	0.46	20	0.70	90	110
564347H	299	229	1.0	0.53	4	150	< 0.5	< 2	0.87	< 0.5	14	86	1430	1.40	< 10	< 1	0.18	30	0.28	110	206
564348H	299	229	1.4	0.62	2	110	< 0.5	2	0.99	< 0.5	21	43	2300	2.13	< 10	< 1	0.27	30	0.41	140	230
564349H	299	229	1.2	0.78	10	220	< 0.5	< 2	0.41	< 0.5	11	60	2620	1.53	< 10	1	0.24	30	0.38	75	280
564350H	299	229	1.2	0.76	< 2	140	< 0.5	< 2	0.42	< 0.5	22	90	2890	1.92	10	< 1	0.09	30	0.23	70	151
757A	299	229	0.6	1.07	2	70	0.5	8	1.37	< 0.5	9	40	714	3.62	10	< 1	0.21	20	0.75	185	9
758A	299	229	1.2	0.64	< 2	80	< 0.5	< 2	1.00	< 0.5	14	63	2020	2.20	< 10	< 1	0.30	20	0.47	105	74
759A	299	229	5.6	0.33	18	30	< 0.5	14	0.97	< 0.5	14	109	5920	4.04	< 10	1	0.24	< 10	0.21	220	429
760A	299	229	1.2	1.10	< 2	160	< 0.5	< 2	0.64	< 0.5	17	56	1985	1.74	< 10	< 1	0.57	20	0.85	80	158
761A	299	229	0.8	0.80	8	180	< 0.5	< 2	0.91	< 0.5	11	98	2130	1.57	< 10	< 1	0.45	10	0.45	65	120
762A	299	229	1.2	1.79	< 2	240	0.5	< 2	1.05	< 0.5	21	52	2510	1.88	10	< 1	0.83	10	1.44	85	179
763A	299	229	0.8	0.52	12	70	< 0.5	< 2	0.50	< 0.5	22	104	1760	1.46	< 10	< 1	0.20	10	0.15	55	216
814A	299	229	0.4	0.20	2	380	< 0.5	< 2	0.02	< 0.5	< 1	40	28	1.20	< 10	< 1	0.35	10	0.01	10	6

CERTIFICATION: Ian Bichler

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Y1A 3S9

Project : CASINO 136
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-JUL-93
Invoice No. :I9316605
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316605

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564328H	299	229	0.02	2	450	14	2	10	103	0.06	< 10	< 10	66	10	12
564329H	299	229	0.02	3	410	10	2	9	232	0.05	< 10	< 10	60	10	10
564330H	299	229	0.02	1	360	10	2	9	147	0.06	< 10	< 10	61	10	12
564331H	299	229	0.02	3	410	6	2	9	97	0.05	< 10	< 10	66	10	10
564332H	299	229	0.02	3	590	6	2	10	81	0.05	< 10	< 10	69	10	12
564333H	299	229	0.03	2	370	8	< 2	9	121	0.07	< 10	< 10	62	< 10	10
564334H	299	229	0.02	3	380	8	2	8	138	0.04	< 10	< 10	50	10	10
564335H	299	229	< 0.01	4	370	4	2	6	13	< 0.01	< 10	< 10	20	< 10	10
564336H	299	229	< 0.01	2	430	4	6	7	12	< 0.01	< 10	< 10	19	< 10	14
564337H	299	229	< 0.01	4	540	8	8	10	13	< 0.01	< 10	10	30	10	18
564338H	299	229	< 0.01	2	460	14	8	9	12	< 0.01	< 10	< 10	25	< 10	16
564339H	299	229	< 0.01	5	520	6	4	8	14	< 0.01	< 10	< 10	25	10	20
564340H	299	229	< 0.01	3	390	18	18	7	14	< 0.01	< 10	10	23	10	20
564341H	299	229	0.01	2	400	8	8	9	40	0.01	< 10	< 10	40	10	20
564342H	299	229	0.01	2	580	8	< 2	8	51	0.03	< 10	< 10	53	< 10	14
564343H	299	229	0.01	1	410	20	4	9	47	0.03	< 10	< 10	53	< 10	10
564344H	299	229	0.01	2	360	30	2	7	54	0.03	< 10	< 10	48	10	6
564345H	299	229	0.01	2	390	4	< 2	8	54	0.02	< 10	< 10	46	10	10
564346H	299	229	0.01	2	450	12	2	9	39	0.03	< 10	< 10	46	< 10	10
564347H	299	229	< 0.01	4	460	16	2	8	17	< 0.01	< 10	< 10	23	10	16
564348H	299	229	< 0.01	4	580	8	6	9	25	0.01	< 10	< 10	32	10	28
564349H	299	229	< 0.01	4	580	4	6	10	17	0.01	< 10	< 10	39	10	16
564350H	299	229	< 0.01	6	510	14	4	11	15	< 0.01	< 10	< 10	36	< 10	14
757A	299	229	0.03	7	1170	14	2	2	45	0.01	< 10	< 10	25	10	34
758A	299	229	0.02	2	440	14	2	3	53	< 0.01	< 10	< 10	21	10	18
759A	299	229	< 0.01	3	360	28	10	1	13	< 0.01	< 10	10	7	20	38
760A	299	229	0.01	2	390	16	< 2	8	33	0.04	< 10	< 10	56	10	28
761A	299	229	0.01	3	250	12	4	4	23	0.02	< 10	10	30	10	18
762A	299	229	0.03	2	470	12	4	11	53	0.08	< 10	10	87	10	18
763A	299	229	< 0.01	3	360	6	2	5	11	< 0.01	< 10	< 10	20	10	12
814A	299	229	< 0.01	< 1	120	14	< 2	< 1	7	< 0.01	< 10	< 10	2	< 10	2

CERTIFICATION: Ian H Bradley

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Project : CASINO-137
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-JUL-93
Invoice No. :I9317237
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317237

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
570649 H	208 274	0.25	0.019	0.21	6280
570650 H	208 273	0.17	0.012	0.21	12340
570651 H	208 273	0.28	0.038	0.27	12080
570652 H	208 273	0.36	0.030	0.34	12460
570653 H	208 276	0.25	0.010	0.27	9640
570654 H	208 276	0.37	0.028	0.34	10640
570655 H	208 276	0.39	0.041	0.41	10260
570656 H	208 276	0.50	0.050	0.58	8260
570657 H	208 276	0.25	0.023	0.17	10500
570658 H	208 276	0.21	0.014	0.24	10580
570659 H	208 276	0.41	0.049	0.45	10460
570660 H	208 276	0.47	0.031	0.58	10000
570661 H	208 276	0.46	0.033	0.51	8340
570662 H	208 276	0.46	0.022	0.79	8260
570663 H	208 276	0.45	0.023	0.58	10780
570664 H	208 276	0.46	0.050	0.69	9340
570665 H	208 276	0.40	0.020	0.55	9960
570666 H	208 276	0.43	0.097	0.41	10180
570667 H	208 276	0.52	0.026	0.93	8800
570668 H	208 276	0.31	0.045	0.38	9920
570669 H	208 276	0.17	0.020	0.21	11660
570670 H	208 276	0.22	0.011	0.17	10880
570671 H	208 276	0.32	0.032	0.48	10300
570672 H	208 276	0.56	0.046	0.86	10220
570673 H	208 276	0.32	0.031	0.31	10320
570674 H	208 276	0.38	0.022	0.45	10540
570675 H	208 276	0.36	0.029	0.38	11120
570676 H	208 276	0.54	0.036	0.55	11540
570677 H	208 273	0.55	0.286	0.34	12560
570678 H	208 276	0.65	0.235	0.27	11620
570679 H	208 276	0.43	0.071	0.41	11080
570680 H	208 273	0.49	0.033	0.58	11980
570681 H	208 276	0.33	0.021	0.34	11080
570682 H	208 276	0.32	0.020	0.38	11020
570683 H	208 273	0.32	0.024	0.45	13500
570684 H	208 273	0.38	0.018	0.45	12380
570685 H	208 273	0.30	0.013	0.24	12800
570686 H	208 273	0.27	0.018	0.27	12540
570687 H	208 276	0.32	0.015	0.48	11780
570688 H	208 273	0.42	0.019	0.45	12640

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-137
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-JUL-93
Invoice No. : I9317237
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317237

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
570689 H	208 276	0.32	0.023	0.41	11540
570690 H	208 276	0.30	0.036	0.27	11400
570691 H	208 276	0.31	0.017	0.31	11740
570692 H	208 276	0.26	0.026	0.24	11540
570693 H	208 276	0.29	0.030	0.27	11300
570694 H	208 276	0.24	0.040	0.27	11220
570695 H	208 273	0.33	0.014	0.34	12400
570696 H	208 276	0.28	0.033	0.34	10760
570697 H	208 276	0.30	0.022	0.34	11320
570698 H	208 276	0.38	0.040	0.27	10900
570699 H	208 276	0.39	0.022	0.45	10860
570700 H	208 276	0.34	0.060	0.34	11760
570701 H	208 276	0.31	0.078	0.31	11200
570702 H	208 276	0.23	0.049	0.24	10820
570703 H	208 276	0.34	0.029	0.21	11000
570704 H	208 276	0.19	0.010	0.24	10640
570705 H	208 276	0.28	0.022	0.21	10700
570706 H	208 273	0.36	0.027	0.41	12240
570707 H	208 276	0.23	0.034	0.27	11160
570708 H	208 276	0.28	0.021	0.31	11260
570709 H	208 276	0.26	0.032	0.17	10080
570710 H	208 276	0.25	0.031	0.17	10500
570711 H	208 276	0.30	0.038	0.34	10940
570712 H	208 276	0.31	0.013	0.41	10780
570713 H	208 276	0.20	0.025	0.27	10260
570714 H	208 276	0.26	0.025	0.17	10700
570715 H	208 276	0.20	0.071	0.24	10580
570716 H	208 276	0.26	0.034	0.38	10420
570717 H	208 276	0.28	0.031	0.38	10240
570718 H	208 276	0.33	0.026	0.34	10420
570719 H	208 276	0.20	0.033	0.27	9820
570720 H	208 276	0.18	0.024	0.24	10000
570721 H	208 276	0.28	0.042	0.38	10380
570722 H	208 276	0.26	0.024	0.31	9880
570723 H	208 276	0.34	0.035	0.41	10680
570724 H	208 276	0.33	0.026	0.55	10640
570725 H	208 276	0.29	0.108	0.34	9720
570726 H	208 276	0.28	0.028	0.45	9880
570727 H	208 276	0.16	0.021	0.31	10400
570728 H	208 276	0.24	0.036	0.24	9700

CERTIFICATION: A Chatri

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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D: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-137
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-JUL-93
Invoice No. : I9317237
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317237

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
570729 H	208	276	0.19	0.023	0.14	11120
570730 H	208	276	0.13	0.071	0.14	11580
570731 H	208	273	0.12	0.036	0.14	12840
570732 H	208	273	0.17	0.037	0.24	11860
570733 H	208	273	0.16	0.060	0.17	13100
570734 H	208	276	0.30	0.037	0.24	11720
570735 H	208	273	0.09	0.040	0.10	11860
57(736 H	208	273	0.14	0.087	0.14	12060
[illegible] 37 H	208	273	0.17	0.137	0.27	11820
[illegible] 38 H	208	273	0.15	0.056	0.14	12320
570739 H	208	276	0.22	0.057	0.17	11300
570740 H	208	273	0.24	0.067	0.17	12300
570741 H	208	276	0.29	0.130	0.34	11720
570742 H	208	273	0.32	0.029	0.31	12020
570743 H	208	273	0.45	0.053	0.51	12420
570744 H	208	273	0.27	0.017	0.38	12140
570745 H	208	273	0.35	0.026	0.45	12080
570746 H	208	273	0.40	0.029	0.38	12160
570747 H	208	276	0.23	0.042	0.17	11720
570748 H	208	276	0.26	0.065	0.31	11600
570749 H	208	276	0.31	0.021	0.34	11400
570750 H	208	273	0.25	0.047	0.24	12580
570751 H	208	276	0.29	0.035	0.27	10780
570752 H	208	273	0.26	0.061	0.31	12740
570753 H	208	273	0.52	0.059	0.51	12820
570754 H	208	276	0.43	0.069	0.62	10380
570755 H	208	276	0.67	0.046	0.69	11360
570756 H	208	276	0.34	0.037	0.31	10440
570757 H	208	273	0.23	0.055	0.38	13380
570758 H	208	273	0.23	0.062	0.24	12260
795 A	208	274	0.21	0.006	0.21	6000
796 A	208	274	0.31	0.029	0.45	6480
797 A	208	274	0.33	0.027	0.27	5880
798 A	208	274	0.15	0.068	0.14	6380
799 A	208	274	0.29	0.071	0.27	6720

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-137
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page er :1-A
Total P s :3
Certificate Date: 25-JUL-93
Invoice No. : I9317238
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317238

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570649 H	299	229	2.2	0.56	12	90	< 0.5	4	0.65	< 0.5	16	79	2500	2.13	< 10	< 1	0.35	< 10	0.36	130	114
570650 H	299	229	1.4	0.68	6	120	< 0.5	8	0.57	< 0.5	17	67	1720	2.07	< 10	< 1	0.41	10	0.48	165	70
570651 H	299	229	2.6	0.43	< 2	50	< 0.5	12	0.52	< 0.5	62	57	2830	3.16	< 10	< 1	0.20	10	0.23	235	231
570652 H	299	229	3.0	0.41	12	60	< 0.5	6	0.57	< 0.5	47	67	3640	2.45	< 10	< 1	0.22	10	0.26	195	182
570653 H	299	229	1.8	0.49	4	80	< 0.5	6	0.44	< 0.5	16	61	2480	1.87	< 10	< 1	0.29	< 10	0.34	185	61
570654 H	299	229	2.8	0.65	4	130	< 0.5	6	0.53	< 0.5	21	102	3630	2.16	< 10	< 1	0.37	< 10	0.38	185	178
570655 H	299	229	2.6	0.68	2	150	< 0.5	8	0.54	< 0.5	17	84	3750	2.01	< 10	< 1	0.40	< 10	0.45	140	244
570656 H	299	229	3.4	0.50	8	190	< 0.5	14	0.54	< 0.5	17	100	5000	1.67	< 10	< 1	0.30	< 10	0.27	95	322
570657 H	299	229	2.0	0.40	8	90	< 0.5	10	0.49	< 0.5	24	91	2530	3.23	< 10	< 1	0.26	< 10	0.12	100	144
570658 H	299	229	2.0	0.40	6	160	< 0.5	8	0.24	< 0.5	13	110	2120	1.76	< 10	< 1	0.26	< 10	0.08	80	91
570659 H	299	229	2.6	0.40	8	190	< 0.5	12	0.37	< 0.5	11	131	4190	1.38	< 10	< 1	0.23	< 10	0.12	100	313
570660 H	299	229	3.2	0.38	2	90	< 0.5	16	0.70	< 0.5	36	93	4910	2.43	< 10	< 1	0.21	< 10	0.16	185	189
570661 H	299	229	2.8	0.50	4	80	< 0.5	14	0.25	< 0.5	19	102	4760	2.30	< 10	< 1	0.26	< 10	0.10	85	200
570662 H	299	229	2.8	0.55	6	150	< 0.5	18	0.44	< 0.5	21	117	4790	1.70	< 10	< 1	0.25	< 10	0.17	120	128
570663 H	299	229	2.2	0.40	4	170	< 0.5	12	0.50	< 0.5	15	107	4690	1.81	< 10	< 1	0.24	< 10	0.10	55	149
570664 H	299	229	2.4	0.34	2	150	< 0.5	< 2	0.44	< 0.5	13	99	4470	1.41	< 10	< 1	0.17	< 10	0.12	45	311
570665 H	299	229	1.4	0.44	4	160	< 0.5	< 2	0.66	< 0.5	13	103	3990	1.05	< 10	< 1	0.23	< 10	0.10	85	126
570666 H	299	229	2.8	0.47	2	160	< 0.5	6	0.92	< 0.5	16	88	4590	1.42	< 10	< 1	0.26	10	0.17	130	649
570667 H	299	229	2.6	1.03	8	250	< 0.5	10	0.87	< 0.5	11	85	5090	1.68	< 10	< 1	0.59	< 10	0.75	130	150
570668 H	299	229	1.6	0.88	12	300	< 0.5	2	0.94	< 0.5	12	77	3000	1.25	< 10	< 1	0.42	< 10	0.61	150	298
570669 H	299	229	1.2	0.89	14	100	< 0.5	6	1.13	< 0.5	18	51	1565	2.12	< 10	< 1	0.48	< 10	0.77	255	115
570670 H	299	229	1.2	0.70	16	60	< 0.5	4	0.69	< 0.5	26	51	2010	2.23	< 10	< 1	0.21	20	0.37	215	51
570671 H	299	229	1.8	1.19	< 2	180	< 0.5	2	0.43	0.5	21	63	3070	2.36	< 10	< 1	0.46	20	0.65	195	189
570672 H	299	229	3.2	0.60	12	20	< 0.5	8	0.52	< 0.5	22	54	5400	2.02	< 10	< 1	0.11	20	0.23	250	294
570673 H	299	229	3.6	1.28	4	40	< 0.5	8	0.66	< 0.5	25	93	3310	2.24	< 10	< 1	0.31	30	0.33	235	187
570674 H	299	229	3.8	1.23	12	50	< 0.5	< 2	0.48	< 0.5	26	85	3690	2.75	< 10	< 1	0.29	40	0.35	165	127
570675 H	299	229	3.4	0.83	< 2	40	< 0.5	10	0.92	0.5	24	92	3620	2.38	< 10	< 1	0.28	20	0.43	300	171
570676 H	299	229	5.6	0.76	20	50	< 0.5	20	1.58	0.5	26	93	5170	2.49	< 10	< 1	0.29	20	0.60	385	209
570677 H	299	229	10.4	0.47	22	20	< 0.5	172	2.10	< 0.5	43	67	5410	8.18	< 10	< 1	0.29	10	0.60	380	1540
570678 H	299	229	7.8	0.65	2	60	< 0.5	68	2.92	< 0.5	25	95	6450	4.17	< 10	< 1	0.41	20	0.84	310	1325
570679 H	299	229	3.2	1.21	4	180	< 0.5	< 2	1.49	< 0.5	20	110	3990	1.97	< 10	< 1	0.64	20	0.94	120	421
570680 H	299	229	2.6	1.26	12	140	< 0.5	10	1.59	< 0.5	14	112	4570	2.06	< 10	< 1	0.68	30	0.99	90	197
570681 H	299	229	1.8	1.28	4	230	< 0.5	< 2	1.35	< 0.5	13	88	3110	1.89	< 10	< 1	0.64	20	0.98	95	125
570682 H	299	229	1.2	1.34	2	210	< 0.5	6	1.33	< 0.5	19	108	3030	1.97	< 10	< 1	0.66	20	0.96	85	112
570683 H	299	229	1.2	1.17	2	270	< 0.5	2	1.11	< 0.5	13	81	2900	1.65	< 10	< 1	0.56	10	0.85	80	134
570684 H	299	229	2.8	1.20	10	220	< 0.5	12	1.26	1.0	17	84	3610	1.56	< 10	< 1	0.49	20	0.71	85	97
570685 H	299	229	2.8	1.03	6	180	< 0.5	2	1.12	< 0.5	20	67	2870	1.73	< 10	< 1	0.40	20	0.63	70	77
570686 H	299	229	1.8	1.36	4	280	< 0.5	2	0.95	< 0.5	15	77	2570	1.48	< 10	< 1	0.51	30	0.82	75	100
570687 H	299	229	2.0	1.23	8	250	< 0.5	4	0.97	< 0.5	23	62	3240	1.74	< 10	< 1	0.54	20	0.82	80	94
570688 H	299	229	2.4	1.59	4	200	< 0.5	12	1.34	< 0.5	16	92	4060	1.83	< 10	< 1	0.59	30	0.85	80	109

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-137
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page er :1-B
Total Pages :3
Certificate Date: 25-JUL-93
Invoice No. :19317238
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317238

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570649 H	299	229	0.01	4	250	8	2	2	14	0.01	< 10	< 10	21	< 10	24
570650 H	299	229	0.02	3	280	8	2	3	27	0.02	< 10	< 10	27	< 10	30
570651 H	299	229	0.01	8	270	12	4	3	31	< 0.01	< 10	< 10	16	< 10	52
570652 H	299	229	< 0.01	6	240	4	6	3	9	< 0.01	< 10	< 10	16	< 10	24
570653 H	299	229	< 0.01	5	320	6	< 2	4	9	0.02	< 10	< 10	27	< 10	12
570654 H	299	229	0.01	7	260	2	4	4	27	0.01	< 10	< 10	28	< 10	36
570655 H	299	229	0.01	6	250	8	4	3	30	0.01	< 10	< 10	26	< 10	32
570656 H	299	229	0.01	5	420	6	2	2	24	< 0.01	< 10	< 10	19	< 10	32
570657 H	299	229	0.01	5	280	20	4	1	10	< 0.01	< 10	< 10	4	< 10	38
570658 H	299	229	0.01	3	230	6	8	< 1	13	< 0.01	< 10	< 10	4	< 10	36
570659 H	299	229	0.01	4	190	6	6	< 1	12	< 0.01	< 10	< 10	6	< 10	30
570660 H	299	229	0.01	6	180	4	4	1	16	< 0.01	< 10	< 10	8	< 10	50
570661 H	299	229	0.01	6	200	8	6	1	9	< 0.01	< 10	< 10	8	< 10	30
570662 H	299	229	0.01	5	190	4	2	< 1	29	< 0.01	< 10	< 10	6	< 10	40
570663 H	299	229	0.01	6	150	4	< 2	< 1	21	< 0.01	< 10	< 10	6	< 10	14
570664 H	299	229	0.01	4	140	4	2	< 1	25	< 0.01	< 10	< 10	6	< 10	16
570665 H	299	229	0.01	5	170	8	< 2	< 1	26	< 0.01	< 10	10	5	< 10	32
570666 H	299	229	0.01	5	150	16	4	1	23	< 0.01	< 10	< 10	14	< 10	36
570667 H	299	229	0.02	8	260	6	< 2	6	40	0.04	< 10	< 10	48	< 10	20
570668 H	299	229	0.02	5	270	6	2	4	95	0.02	< 10	10	35	< 10	14
570669 H	299	229	0.02	4	440	10	2	5	82	0.02	< 10	< 10	40	< 10	34
570670 H	299	229	< 0.01	4	540	12	< 2	6	14	< 0.01	< 10	< 10	32	< 10	16
570671 H	299	229	0.01	6	490	14	4	9	12	0.04	< 10	< 10	55	< 10	50
570672 H	299	229	< 0.01	7	560	12	2	6	10	< 0.01	< 10	< 10	28	< 10	54
570673 H	299	229	0.01	6	510	16	2	6	12	< 0.01	< 10	< 10	31	< 10	44
570674 H	299	229	0.01	7	560	24	< 2	7	12	< 0.01	< 10	< 10	31	< 10	24
570675 H	299	229	0.01	6	410	14	< 2	7	13	< 0.01	< 10	< 10	31	< 10	20
570676 H	299	229	0.01	7	410	18	8	6	22	< 0.01	< 10	< 10	26	< 10	44
570677 H	299	229	0.01	4	310	90	16	2	26	< 0.01	< 10	< 10	15	20	106
570678 H	299	229	0.01	5	300	48	12	2	33	< 0.01	< 10	< 10	19	10	50
570679 H	299	229	0.03	6	340	16	4	7	72	0.04	< 10	< 10	51	< 10	38
570680 H	299	229	0.03	6	310	8	< 2	8	109	0.06	< 10	< 10	58	< 10	28
570681 H	299	229	0.04	3	350	4	< 2	8	83	0.06	< 10	< 10	56	< 10	28
570682 H	299	229	0.04	5	380	2	< 2	8	69	0.06	< 10	< 10	57	< 10	24
570683 H	299	229	0.04	5	370	6	< 2	8	68	0.06	< 10	< 10	59	< 10	24
570684 H	299	229	0.03	4	390	44	< 2	7	78	0.02	< 10	10	45	< 10	136
570685 H	299	229	0.02	4	430	18	< 2	5	69	0.01	< 10	< 10	33	< 10	26
570686 H	299	229	0.02	3	380	6	< 2	7	72	0.02	< 10	< 10	45	< 10	22
570687 H	299	229	0.03	4	410	8	2	7	69	0.03	< 10	< 10	46	< 10	18
570688 H	299	229	0.02	6	460	16	< 2	8	67	0.02	< 10	< 10	51	< 10	18

CERTIFICATION: Gary Buchler

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Y1A 3S9

Project : CASINO-137
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :3
Certificate Date: 25-JUL-93
Invoice No. : I9317238
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317238

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570689 H	299	229	2.2	1.77	4	250	< 0.5	< 2	1.73	< 0.5	16	99	3080	1.64	< 10	< 1	0.63	30	0.91	95	138
570690 H	299	229	2.2	1.37	8	240	< 0.5	2	2.27	< 0.5	14	93	3040	1.72	< 10	< 1	0.49	30	0.82	100	227
570691 H	299	229	2.4	1.63	24	100	< 0.5	12	1.54	< 0.5	28	134	3130	3.38	< 10	< 1	0.63	30	0.79	140	110
570692 H	299	229	2.0	1.44	8	100	< 0.5	12	1.34	< 0.5	20	120	2570	2.63	< 10	< 1	0.60	20	0.69	90	165
570693 H	299	229	3.6	1.52	22	50	< 0.5	26	1.32	< 0.5	19	139	2910	2.99	10	< 1	0.67	30	0.74	150	187
570694 H	299	229	2.0	1.25	8	140	< 0.5	12	1.66	< 0.5	16	111	2310	1.91	< 10	< 1	0.53	20	0.80	125	258
570695 H	299	229	2.2	2.10	32	60	< 0.5	8	1.09	< 0.5	26	175	3500	2.32	< 10	< 1	0.77	20	0.67	80	85
570696 H	299	229	2.0	0.99	2	100	< 0.5	< 2	1.57	< 0.5	32	102	2690	1.78	< 10	< 1	0.40	20	0.42	80	201
570697 H	299	229	3.6	1.04	8	70	< 0.5	34	0.71	0.5	20	113	3020	3.14	< 10	< 1	0.46	30	0.44	105	140
570698 H	299	229	2.0	0.76	8	60	< 0.5	12	2.20	< 0.5	14	92	3710	1.55	< 10	< 1	0.23	30	0.64	145	258
570699 H	299	229	2.0	0.95	6	80	< 0.5	6	2.63	< 0.5	12	103	3650	1.84	< 10	< 1	0.28	30	0.62	120	129
570700 H	299	229	1.4	0.85	18	200	< 0.5	4	3.00	< 0.5	13	114	3190	1.77	< 10	< 1	0.27	40	0.99	145	365
570701 H	299	229	1.4	1.26	< 2	110	< 0.5	2	1.77	< 0.5	15	151	3140	1.67	< 10	< 1	0.47	40	0.61	90	474
570702 H	299	229	1.4	1.05	14	90	< 0.5	6	1.96	< 0.5	11	139	2270	1.64	< 10	< 1	0.33	30	0.46	80	285
570703 H	299	229	3.2	1.50	14	120	< 0.5	8	1.67	< 0.5	18	182	3400	2.38	< 10	< 1	0.54	20	0.57	85	174
570704 H	299	229	1.2	1.68	< 2	130	< 0.5	< 2	1.17	< 0.5	19	101	1835	1.81	< 10	< 1	0.67	20	0.84	95	61
570705 H	299	229	2.6	1.68	14	70	< 0.5	14	1.30	< 0.5	19	114	2710	2.21	10	< 1	0.68	30	0.75	100	131
570706 H	299	229	2.0	1.83	16	230	< 0.5	14	1.21	< 0.5	17	167	3580	1.58	< 10	< 1	0.68	30	0.67	95	167
570707 H	299	229	1.2	1.64	14	130	< 0.5	8	1.20	< 0.5	17	82	2110	2.00	< 10	< 1	0.63	20	0.77	105	197
570708 H	299	229	2.2	1.66	14	180	< 0.5	4	1.29	< 0.5	23	79	2830	1.92	< 10	< 1	0.55	20	0.73	95	125
570709 H	299	229	2.2	1.15	12	80	< 0.5	4	1.18	< 0.5	24	106	2580	2.01	< 10	< 1	0.43	30	0.45	90	203
570710 H	299	229	2.2	0.87	12	50	< 0.5	12	1.06	< 0.5	15	87	2680	1.93	< 10	< 1	0.35	20	0.38	75	208
570711 H	299	229	1.4	1.48	14	70	< 0.5	6	1.17	< 0.5	17	103	3050	1.35	< 10	< 1	0.57	20	0.75	70	245
570712 H	299	229	1.8	1.29	< 2	110	< 0.5	4	1.14	< 0.5	17	96	2960	1.92	< 10	< 1	0.51	20	0.66	135	74
570713 H	299	229	0.8	1.65	4	100	< 0.5	10	1.37	< 0.5	14	97	2010	1.22	< 10	< 1	0.51	30	0.74	80	156
570714 H	299	229	1.2	1.26	18	60	< 0.5	6	1.23	< 0.5	9	80	2510	1.19	< 10	< 1	0.35	30	0.47	60	148
570715 H	299	229	1.2	1.48	12	120	< 0.5	< 2	1.44	< 0.5	10	111	1890	1.36	< 10	< 1	0.50	30	0.70	80	439
570716 H	299	229	0.8	1.50	14	240	< 0.5	2	1.19	< 0.5	15	93	2600	1.53	< 10	< 1	0.54	10	0.71	60	220
570717 H	299	229	1.4	1.13	8	130	< 0.5	6	1.55	< 0.5	22	83	2650	1.43	< 10	< 1	0.46	10	0.66	70	178
570718 H	299	229	1.2	0.99	8	130	< 0.5	2	1.59	< 0.5	20	89	3250	1.41	< 10	< 1	0.43	10	0.65	75	164
570719 H	299	229	0.6	1.57	8	270	< 0.5	8	1.18	< 0.5	13	102	1870	1.20	< 10	< 1	0.66	10	0.86	65	194
570720 H	299	229	0.6	0.90	8	80	< 0.5	6	1.26	< 0.5	7	107	1730	1.02	< 10	< 1	0.33	20	0.43	100	154
570721 H	299	229	1.0	1.47	6	240	< 0.5	2	1.22	< 0.5	8	80	2600	1.06	< 10	< 1	0.43	20	0.61	100	254
570722 H	299	229	3.0	1.57	60	170	< 0.5	6	1.53	4.5	15	67	2450	1.51	< 10	< 1	0.58	20	1.02	485	141
570723 H	299	229	10.6	1.17	150	170	< 0.5	4	1.68	27.0	13	128	3390	1.51	< 10	< 1	0.55	30	0.84	1905	208
570724 H	299	229	2.0	1.37	20	150	< 0.5	2	1.56	1.0	19	109	3340	1.72	< 10	< 1	0.55	20	0.98	515	177
570725 H	299	229	1.4	1.26	12	130	< 0.5	8	1.24	< 0.5	8	108	2850	1.12	< 10	< 1	0.49	30	0.62	85	690
570726 H	299	229	1.0	1.83	14	310	< 0.5	4	1.09	< 0.5	10	146	2700	1.19	< 10	< 1	0.61	20	0.86	75	176
570727 H	299	229	0.4	1.21	16	410	< 0.5	2	0.99	< 0.5	7	110	1575	0.90	< 10	< 1	0.60	20	0.67	70	136
570728 H	299	229	1.4	1.21	12	160	< 0.5	4	1.05	< 0.5	4	64	2250	0.79	< 10	< 1	0.53	30	0.53	60	224

CERTIFICATION: Ian Bachlan

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-137
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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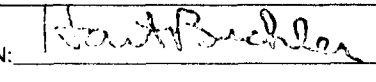
SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570689 H	299	229	0.01	5	360	12	4	8	59	0.02	< 10	< 10	53	< 10	22
570690 H	299	229	0.01	4	420	12	< 2	7	47	0.01	< 10	< 10	45	< 10	16
570691 H	299	229	0.01	5	500	16	2	6	45	0.01	< 10	< 10	41	10	24
570692 H	299	229	0.02	6	420	22	4	5	40	0.01	< 10	< 10	35	10	22
570693 H	299	229	0.02	7	380	24	< 2	5	126	0.01	< 10	< 10	37	10	22
570694 H	299	229	0.03	6	380	14	2	57	96	0.02	< 10	< 10	38	< 10	20
570695 H	299	229	0.02	8	450	2	2	7	105	0.02	< 10	< 10	48	< 10	20
570696 H	299	229	0.01	7	500	8	4	3	32	< 0.01	< 10	< 10	20	< 10	14
570697 H	299	229	0.01	6	460	42	2	4	31	< 0.01	< 10	< 10	25	< 10	38
570698 H	299	229	0.01	3	480	12	2	7	35	< 0.01	< 10	< 10	36	< 10	16
570699 H	299	229	0.01	4	510	10	< 2	8	32	< 0.01	< 10	< 10	37	< 10	12
570700 H	299	229	0.01	5	630	16	8	6	28	< 0.01	< 10	< 10	30	10	18
570701 H	299	229	0.01	5	540	10	6	4	24	< 0.01	< 10	< 10	28	< 10	14
570702 H	299	229	0.01	4	370	12	< 2	7	23	< 0.01	< 10	< 10	31	< 10	14
570703 H	299	229	0.01	8	460	18	< 2	5	28	< 0.01	< 10	< 10	31	< 10	18
570704 H	299	229	0.04	4	430	8	< 2	8	158	0.04	< 10	< 10	58	< 10	18
570705 H	299	229	0.03	4	420	18	4	7	83	0.03	< 10	< 10	50	< 10	16
570706 H	299	229	0.02	6	300	12	2	6	52	0.01	< 10	< 10	41	< 10	12
570707 H	299	229	0.02	6	400	14	< 2	6	113	0.03	< 10	< 10	44	< 10	22
570708 H	299	229	0.02	6	400	2	2	6	67	0.01	< 10	< 10	42	< 10	14
570709 H	299	229	0.01	7	390	8	2	4	33	< 0.01	< 10	< 10	30	< 10	14
570710 H	299	229	0.01	5	470	18	2	4	31	< 0.01	< 10	< 10	29	< 10	16
570711 H	299	229	0.03	5	430	6	4	6	48	0.01	< 10	< 10	44	< 10	10
570712 H	299	229	0.02	5	390	8	2	6	98	0.01	< 10	< 10	44	< 10	14
570713 H	299	229	0.02	4	400	12	2	8	55	0.01	< 10	< 10	54	< 10	14
570714 H	299	229	0.01	5	510	< 2	2	6	41	< 0.01	< 10	< 10	38	< 10	12
570715 H	299	229	0.01	6	310	8	4	6	42	0.01	< 10	< 10	47	< 10	12
570716 H	299	229	0.02	6	350	4	2	6	102	0.02	< 10	< 10	48	< 10	14
570717 H	299	229	0.01	7	350	6	< 2	6	62	0.01	< 10	< 10	42	< 10	8
570718 H	299	229	0.02	6	330	6	< 2	6	50	0.01	< 10	< 10	35	< 10	12
570719 H	299	229	0.02	4	380	8	2	9	165	0.04	< 10	< 10	59	< 10	18
570720 H	299	229	0.01	5	350	12	4	4	25	< 0.01	< 10	< 10	21	< 10	14
570721 H	299	229	0.01	6	340	12	4	4	59	0.01	< 10	< 10	32	< 10	20
570722 H	299	229	0.01	6	420	60	14	8	58	0.02	< 10	10	50	< 10	180
570723 H	299	229	0.01	8	370	422	26	6	40	< 0.01	< 10	< 10	31	< 10	1110
570724 H	299	229	0.01	7	430	34	2	9	36	0.02	< 10	< 10	50	< 10	72
570725 H	299	229	0.01	4	380	12	4	7	33	0.01	< 10	< 10	45	< 10	14
570726 H	299	229	0.03	8	350	14	26	8	77	0.02	< 10	< 10	58	< 10	18
570727 H	299	229	0.04	5	250	12	< 2	6	233	0.02	< 10	< 10	41	< 10	14
570728 H	299	229	0.02	4	180	< 2	< 2	3	45	< 0.01	< 10	< 10	26	< 10	6

CERTIFICATION: 

Chemex Labs Ltd.

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

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Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-JUL-93
Invoice No. : 19317238
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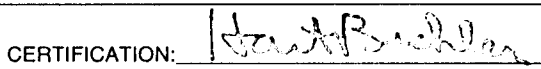
CERTIFICATE OF ANALYSIS A9317238

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570729 H	299	229	1.4	0.66	14	70	< 0.5	4	0.92	< 0.5	4	103	2030	0.76	< 10	< 1	0.28	20	0.26	60	147
570730 H	299	229	1.2	0.32	2	210	< 0.5	< 2	0.75	< 0.5	2	73	1325	0.46	< 10	< 1	0.22	40	0.13	55	461
570731 H	299	229	0.8	0.31	< 2	320	< 0.5	4	0.49	< 0.5	3	122	1270	0.66	< 10	< 1	0.22	30	0.10	60	226
570732 H	299	229	1.2	0.25	8	180	< 0.5	< 2	0.64	< 0.5	3	86	1830	0.60	< 10	< 1	0.16	20	0.15	55	254
570733 H	299	229	1.8	0.36	102	50	< 0.5	14	0.51	0.5	8	109	1725	3.36	< 10	< 1	0.23	10	0.20	100	411
570734 H	299	229	3.2	0.34	50	70	< 0.5	16	0.58	< 0.5	8	83	3310	1.87	< 10	< 1	0.22	30	0.24	135	251
570735 H	299	229	1.0	0.51	4	230	< 0.5	4	0.49	< 0.5	5	122	1025	1.13	< 10	< 1	0.32	60	0.20	65	282
570736 H	299	229	1.2	0.45	< 2	60	< 0.5	< 2	0.63	< 0.5	4	79	1405	0.69	< 10	< 1	0.29	50	0.25	75	589
570737 H	299	229	2.0	0.62	16	80	< 0.5	4	0.61	< 0.5	6	113	1770	1.23	< 10	< 1	0.26	40	0.31	80	943
570738 H	299	229	1.6	0.33	4	170	< 0.5	6	0.42	< 0.5	3	86	1520	1.10	< 10	< 1	0.21	40	0.20	60	363
570739 H	299	229	2.2	0.37	8	40	< 0.5	8	0.77	< 0.5	5	84	2260	1.14	< 10	< 1	0.21	60	0.31	90	371
570740 H	299	229	2.0	0.41	2	40	< 0.5	4	0.79	< 0.5	5	101	2450	2.10	< 10	< 1	0.28	30	0.26	80	420
570741 H	299	229	2.2	0.62	6	260	< 0.5	6	0.94	< 0.5	8	98	2930	1.08	< 10	< 1	0.36	40	0.52	75	841
570742 H	299	229	2.4	0.97	2	160	< 0.5	12	0.82	< 0.5	11	118	3430	1.47	< 10	< 1	0.53	20	0.78	70	179
570743 H	299	229	1.8	0.65	14	230	< 0.5	8	0.73	< 0.5	12	79	4630	1.21	< 10	< 1	0.36	10	0.50	50	343
570744 H	299	229	1.6	1.24	8	230	< 0.5	10	0.97	< 0.5	12	101	2750	1.69	< 10	< 1	0.71	20	1.02	95	125
570745 H	299	229	2.2	0.82	8	90	< 0.5	12	0.81	< 0.5	12	64	3310	1.33	< 10	< 1	0.49	40	0.78	100	156
570746 H	299	229	2.4	1.01	18	240	< 0.5	12	0.88	< 0.5	10	112	3920	1.39	< 10	< 1	0.54	20	0.86	90	190
570747 H	299	229	1.8	0.26	< 2	180	< 0.5	6	0.62	< 0.5	4	64	2300	0.82	< 10	< 1	0.17	< 10	0.24	30	273
570748 H	299	229	1.6	0.69	12	210	< 0.5	4	0.97	< 0.5	8	72	2500	1.09	< 10	< 1	0.45	10	0.64	65	393
570749 H	299	229	1.6	1.39	14	140	< 0.5	8	1.46	< 0.5	14	63	3140	1.98	< 10	< 1	0.70	20	1.08	110	139
570750 H	299	229	2.4	0.72	14	50	< 0.5	12	1.10	< 0.5	13	44	2500	3.11	< 10	< 1	0.36	10	0.54	95	255
570751 H	299	229	2.0	0.36	50	80	< 0.5	12	2.90	< 0.5	7	92	2880	3.50	< 10	< 1	0.19	< 10	0.34	190	194
570752 H	299	229	1.2	0.31	6	180	< 0.5	8	0.82	< 0.5	7	73	2660	1.24	< 10	< 1	0.17	10	0.30	75	394
570753 H	299	229	2.0	0.77	12	250	< 0.5	6	0.79	< 0.5	9	116	5020	1.23	< 10	< 1	0.42	20	0.72	90	324
570754 H	299	229	2.0	1.15	16	200	< 0.5	6	0.89	< 0.5	11	72	4140	1.38	< 10	< 1	0.67	20	1.09	105	425
570755 H	299	229	3.8	0.86	14	110	< 0.5	26	0.90	< 0.5	12	101	6660	2.08	< 10	< 1	0.50	10	0.78	90	288
570756 H	299	229	2.4	1.11	16	150	< 0.5	6	0.90	< 0.5	13	90	3420	1.43	< 10	< 1	0.62	10	1.00	90	243
570757 H	299	229	2.2	0.93	< 2	160	< 0.5	8	0.83	< 0.5	11	113	2300	1.75	< 10	< 1	0.53	10	0.74	80	376
570758 H	299	229	1.4	0.99	< 2	260	< 0.5	2	0.92	< 0.5	8	54	2150	1.17	< 10	< 1	0.68	20	1.08	100	365
795 A	299	229	1.2	0.68	< 2	40	< 0.5	4	0.67	< 0.5	27	54	2080	2.34	< 10	< 1	0.20	20	0.36	200	37
796 A	299	229	2.2	0.82	2	140	< 0.5	12	2.21	< 0.5	14	70	3060	1.73	< 10	< 1	0.37	30	0.77	100	173
797 A	299	229	3.2	0.49	8	30	< 0.5	34	1.12	< 0.5	12	60	3420	1.63	< 10	< 1	0.23	10	0.35	85	166
798 A	299	229	1.2	0.29	< 2	120	< 0.5	6	0.69	< 0.5	2	67	1590	0.51	< 10	< 1	0.20	40	0.13	55	475
799 A	299	229	2.8	0.55	14	70	< 0.5	6	1.08	< 0.5	10	62	2990	2.68	< 10	< 1	0.30	10	0.52	95	467

CERTIFICATION: 

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570729 H	299	229	0.01	3	190	12	< 2	1	35	< 0.01	< 10	< 10	9	< 10	8
570730 H	299	229	0.01	2	130	8	4	1	18	< 0.01	< 10	< 10	10	< 10	6
570731 H	299	229	0.01	3	150	4	< 2	< 1	20	< 0.01	< 10	< 10	3	< 10	8
570732 H	299	229	0.01	2	170	8	2	< 1	17	< 0.01	< 10	< 10	3	< 10	8
570733 H	299	229	0.01	4	170	16	8	< 1	12	< 0.01	< 10	< 10	4	< 10	26
570734 H	299	229	0.01	6	210	24	2	< 1	15	< 0.01	< 10	< 10	3	< 10	24
570735 H	299	229	0.01	3	270	14	< 2	2	18	< 0.01	< 10	< 10	13	< 10	8
570736 H	299	229	0.01	3	230	4	2	3	14	< 0.01	< 10	< 10	22	< 10	8
570737 H	299	229	0.01	9	260	8	8	6	15	< 0.01	< 10	< 10	30	< 10	12
570738 H	299	229	0.01	5	180	12	4	1	16	< 0.01	< 10	< 10	8	< 10	12
570739 H	299	229	0.01	6	290	14	4	3	14	< 0.01	< 10	< 10	17	< 10	18
570740 H	299	229	0.01	6	380	6	2	1	14	< 0.01	< 10	< 10	8	< 10	16
570741 H	299	229	0.01	5	290	8	6	4	25	0.01	< 10	< 10	31	< 10	12
570742 H	299	229	0.01	8	340	6	2	6	48	0.03	< 10	10	40	< 10	16
570743 H	299	229	0.01	11	230	12	2	4	53	0.01	< 10	< 10	27	< 10	6
570744 H	299	229	0.02	10	370	4	2	11	68	0.06	< 10	< 10	57	< 10	14
570745 H	299	229	0.01	9	260	2	< 2	8	17	0.03	< 10	< 10	43	< 10	16
570746 H	299	229	0.01	11	330	2	6	9	62	0.03	< 10	< 10	44	< 10	12
570747 H	299	229	0.01	5	160	8	2	1	20	< 0.01	< 10	< 10	8	< 10	4
570748 H	299	229	0.01	7	210	6	4	4	28	0.03	< 10	< 10	33	< 10	8
570749 H	299	229	0.02	10	480	10	< 2	6	71	0.06	< 10	< 10	43	< 10	16
570750 H	299	229	0.01	8	340	20	4	1	30	< 0.01	< 10	< 10	13	< 10	14
570751 H	299	229	< 0.01	8	100	16	8	1	27	< 0.01	< 10	< 10	8	< 10	8
570752 H	299	229	0.01	6	140	12	2	2	17	< 0.01	< 10	< 10	15	< 10	6
570753 H	299	229	0.01	11	250	10	< 2	7	20	0.03	< 10	< 10	41	< 10	12
570754 H	299	229	0.01	11	270	4	< 2	8	28	0.07	< 10	< 10	60	< 10	18
570755 H	299	229	0.01	12	230	4	< 2	6	25	0.03	< 10	< 10	39	< 10	12
570756 H	299	229	0.01	9	310	4	2	8	38	0.04	< 10	< 10	54	< 10	16
570757 H	299	229	0.01	8	300	12	4	6	30	0.03	< 10	< 10	41	< 10	16
570758 H	299	229	0.02	9	360	12	< 2	9	41	0.07	< 10	< 10	62	< 10	18
795 A	299	229	< 0.01	3	580	14	< 2	7	14	< 0.01	< 10	< 10	33	< 10	18
796 A	299	229	0.01	3	410	12	< 2	7	43	0.01	< 10	< 10	38	< 10	14
797 A	299	229	0.01	5	380	22	2	3	25	< 0.01	< 10	< 10	21	< 10	12
798 A	299	229	0.01	3	170	12	4	1	16	< 0.01	< 10	< 10	9	< 10	6
799 A	299	229	0.01	6	320	18	6	1	28	< 0.01	< 10	< 10	12	< 10	16

CERTIFICATION:

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Project : CASINO/138
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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
570532H	208	274	0.11	0.046	0.31	7020						
570533H	208	276	0.06	0.053	0.24	9900						
570534H	208	273	0.17	0.079	0.24	13000						
570535H	208	276	0.30	0.058	0.45	9380						
570536H	208	273	0.17	0.033	0.21	12440						
570537H	208	273	0.17	0.063	0.21	13000						
570538H	208	273	0.09	0.076	0.21	13060						
570539H	208	276	0.11	0.106	0.24	10980						
570540H	208	276	0.19	0.152	0.27	10260						
570541H	208	273	0.11	0.119	0.31	12560						
570542H	208	273	0.06	0.090	0.27	12060						
570543H	208	273	0.10	0.087	0.27	14700						
570544H	208	273	0.21	0.107	0.41	12900						
570545H	208	273	0.23	0.084	0.31	12300						
570546H	208	273	0.23	0.067	0.24	15220						
570547H	208	273	0.20	0.066	0.21	12560						
570548H	208	273	0.22	0.083	0.27	12420						
570549H	208	273	0.22	0.036	0.17	13740						
570550H	208	273	0.21	0.161	0.21	11920						
570551H	208	273	0.21	0.022	0.24	12960						
570552H	208	273	0.24	0.039	0.17	13420						
570553H	208	273	0.12	0.028	0.14	12560						
570554H	208	273	0.37	0.033	0.17	12720						
570555H	208	273	0.27	0.026	0.17	12960						
570556H	208	273	0.23	0.023	0.10	12620						
570557H	208	273	0.20	0.025	0.10	12500						
570558H	208	276	0.15	0.026	0.10	11780						
570559H	208	273	0.13	0.019	0.07	12680						
570560H	208	273	0.17	0.030	0.10	15600						
570561H	208	276	0.24	0.028	0.10	9160						
570562H	208	273	0.19	0.019	0.10	12350						
570563H	208	273	0.36	0.033	0.17	12000						
570564H	208	273	0.22	0.019	0.14	12340						
570565H	208	276	0.21	0.016	0.17	11360						
570566H	208	276	0.13	0.028	0.10	9800						
570567H	208	273	0.16	0.014	0.14	12240						
570568H	208	273	0.20	0.039	0.17	12580						
570569H	208	273	0.15	0.026	0.14	13260						
570570H	208	276	0.17	0.024	0.27	10300						
570571H	208	276	0.20	0.021	0.27	11700						

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
570572H	208	274	0.15	0.014	0.14	6500						
570573H	208	273	0.18	0.034	0.17	12860						
570574H	208	273	0.23	0.046	0.27	12540						
570575H	208	273	0.31	0.020	0.45	12520						
570576H	208	274	0.23	0.036	0.21	6360						
570577H	208	276	0.21	0.033	0.17	10160						
570578H	208	276	0.23	0.037	0.27	8720						
570579H	208	273	0.17	0.049	0.17	12400						
570580H	208	273	0.26	0.017	0.27	12920						
570581H	208	273	0.22	0.018	0.21	12460						
570582H	208	273	0.21	0.026	0.17	12260						
570583H	208	274	0.31	0.053	0.14	7140						
570584H	208	276	0.26	0.045	0.21	10020						
570585H	208	276	0.20	0.026	0.17	7560						
570586H	208	273	0.18	0.024	0.17	12360						
570587H	208	273	0.27	0.026	0.31	13060						
570588H	208	273	0.40	0.099	0.24	12640						
570589H	208	273	0.44	0.038	0.31	14020						
570590H	208	276	0.75	0.157	0.27	10860						
570591H	208	270	0.64	0.064	0.24	16420						
570592H	208	273	0.30	0.104	0.24	13060						
570593H	208	273	0.30	0.068	0.21	13260						
570594H	208	273	0.14	0.052	0.17	13200						
570595H	208	273	0.13	0.036	0.14	13220						
570596H	208	273	0.17	0.034	0.14	12800						
570597H	208	276	0.20	0.029	0.21	11760						
570598H	208	276	0.22	0.040	0.21	8860						
570599H	208	273	0.25	0.040	0.27	14900						
570600H	208	276	0.17	0.095	0.14	11320						
570601H	208	273	0.16	0.032	0.14	12200						
570602H	208	273	0.15	0.023	0.10	11900						
570603H	208	276	0.17	0.096	0.07	11160						
570604H	208	276	0.17	0.060	0.17	11200						
570605H	208	276	0.11	0.062	0.07	11440						
570606H	208	276	0.06	0.030	0.03	11760						
570607H	208	276	0.15	0.035	0.07	11070						
570608H	208	273	0.14	0.025	0.17	11860						
570609H	208	276	0.16	0.033	0.14	8100						
570610H	208	273	0.15	0.061	0.10	12290						
570611H	208	276	0.15	0.057	0.14	11380						

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
570612H	208 276	0.12	0.043	0.07	11460
570613H	208 273	0.10	0.039	0.10	12600
570614H	208 273	0.09	0.042	0.07	13360
570615H	208 273	0.09	0.081	0.10	12600
570616H	208 273	0.09	0.050	0.17	13400
570617H	208 273	0.09	0.065	0.10	14100
570618H	208 273	0.10	0.021	0.07	13320
570619H	208 273	0.15	0.022	0.10	13120
570620H	208 273	0.14	0.032	0.07	13140
570621H	208 273	0.11	0.057	0.10	13680
570622H	208 273	0.11	0.062	0.07	13940
570623H	208 273	0.07	0.047	0.07	13120
570624H	208 273	0.10	0.046	0.10	14320
570625H	208 273	0.13	0.053	0.07	12920
570626H	208 273	0.15	0.080	0.07	12900
570627H	208 273	0.18	0.074	0.17	13000
570628H	208 273	0.21	0.048	0.14	12900
570629H	208 273	0.30	0.025	0.17	13450
570630H	208 273	0.15	0.050	0.14	12900
570631H	208 273	0.41	0.040	0.24	13750
570632H	208 273	0.34	0.071	0.31	12900
570633H	208 273	0.32	0.041	0.31	12800
570634H	208 273	0.26	0.051	0.10	12960
570635H	208 273	0.22	0.060	0.14	13520
570636H	208 273	0.25	0.045	0.17	12200
570637H	208 276	0.31	0.060	0.14	11800
570638H	208 273	0.18	0.138	0.10	12980
570639H	208 273	0.23	0.086	0.14	12740
570640H	208 276	0.28	0.079	0.10	11740
570641H	208 273	0.27	0.049	0.10	13220
570642H	208 273	0.13	0.054	0.10	12820
570643H	208 273	0.19	0.030	0.10	12880
570644H	208 273	0.07	0.058	0.07	12180
570645H	208 273	0.11	0.089	0.07	12720
570646H	208 273	0.12	0.030	0.03	12500
570647H	208 273	0.07	0.030	< 0.03	12800
570648H	208 276	0.10	0.100	< 0.03	11280
790A	208 274	0.21	0.254	0.24	6400
791A	208 274	0.20	0.021	0.24	4980
792A	208 274	0.71	0.049	0.24	6150

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CERTIFICATE OF ANALYSIS A9317002

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
793A	208	274	0.15	0.031	0.10	5850
794A	208	274	0.20	0.060	< 0.03	6340

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Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9317003

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570532H	299	229	3.8	0.33	34	10	< 0.5	4	0.21	1.0	6	84	1000	5.70	< 10	< 1	0.24	< 10	0.07	120	286
570533H	299	229	3.0	0.32	38	10	< 0.5	< 2	0.16	0.5	7	68	527	8.39	< 10	< 1	0.23	< 10	0.05	55	309
570534H	299	229	3.2	0.41	98	10	< 0.5	4	0.23	0.5	10	85	1745	10.30	< 10	< 1	0.26	< 10	0.11	175	483
570535H	299	229	5.2	0.37	70	20	< 0.5	46	0.63	1.0	11	65	3190	6.00	< 10	< 1	0.26	10	0.20	460	361
570536H	299	229	3.0	0.45	80	20	< 0.5	8	0.63	0.5	7	72	1845	5.11	< 10	< 1	0.27	10	0.23	375	199
570537H	299	229	3.0	0.34	42	20	< 0.5	6	0.58	0.5	7	79	1760	4.53	< 10	< 1	0.24	10	0.24	230	364
570538H	299	229	2.6	0.29	30	10	< 0.5	6	0.31	0.5	6	60	920	6.37	< 10	< 1	0.20	10	0.10	135	462
570539H	299	229	3.4	0.18	36	10	< 0.5	2	0.31	0.5	8	18	1145	6.27	< 10	< 1	0.11	10	0.04	55	651
570540H	299	229	3.8	0.35	38	10	< 0.5	14	0.24	1.0	8	74	1990	7.52	< 10	< 1	0.23	10	0.06	50	927
570541H	299	229	3.6	0.33	52	10	< 0.5	6	0.25	1.0	8	67	1105	8.81	< 10	< 1	0.22	10	0.08	95	703
570542H	299	229	3.2	0.44	70	10	< 0.5	2	0.14	0.5	8	91	520	8.04	< 10	< 1	0.24	< 10	0.08	85	471
570543H	299	229	3.2	0.52	146	20	< 0.5	2	0.34	0.5	9	111	1015	8.19	< 10	< 1	0.32	10	0.15	200	526
570544H	299	229	2.4	0.60	26	30	< 0.5	2	0.48	0.5	9	127	2350	4.72	< 10	< 1	0.36	10	0.11	85	686
570545H	299	229	3.4	0.60	26	20	< 0.5	< 2	0.37	0.5	13	151	2630	6.31	< 10	< 1	0.39	10	0.16	100	561
570546H	299	229	4.4	0.42	46	20	< 0.5	< 2	0.31	1.0	12	86	2370	6.66	< 10	< 1	0.28	10	0.12	110	395
570547H	299	229	3.4	0.36	28	10	< 0.5	2	0.42	0.5	10	64	2230	6.47	< 10	< 1	0.24	10	0.10	105	418
570548H	299	229	4.0	0.49	26	10	< 0.5	4	0.64	0.5	12	110	2460	6.87	< 10	< 1	0.28	10	0.18	165	537
570549H	299	229	3.0	0.41	6	20	< 0.5	4	1.02	0.5	18	69	2180	4.27	< 10	< 1	0.25	10	0.24	215	193
570550H	299	229	3.4	0.47	14	20	< 0.5	4	0.73	0.5	13	103	2200	5.22	< 10	< 1	0.27	10	0.18	160	952
570551H	299	229	3.2	0.49	20	10	< 0.5	2	0.83	0.5	14	81	2210	6.14	< 10	< 1	0.29	10	0.13	195	123
570552H	299	229	4.0	0.44	30	20	< 0.5	12	0.79	0.5	12	86	2660	5.74	< 10	< 1	0.28	10	0.17	165	223
570553H	299	229	3.2	0.35	16	10	< 0.5	14	0.87	0.5	9	72	1220	5.65	< 10	< 1	0.25	10	0.07	135	157
570554H	299	229	3.8	0.20	8	10	< 0.5	6	0.99	< 0.5	10	45	4090	2.25	< 10	< 1	0.16	10	0.15	130	220
570555H	299	229	2.8	0.35	4	30	< 0.5	4	1.83	0.5	8	87	2880	1.52	< 10	< 1	0.23	10	0.11	160	147
570556H	299	229	3.6	0.43	8	40	< 0.5	6	0.67	0.5	7	127	2560	2.24	< 10	< 1	0.31	20	0.11	70	143
570557H	299	229	2.6	0.59	4	110	< 0.5	2	0.89	0.5	11	96	2310	1.42	< 10	< 1	0.39	20	0.21	85	157
570558H	299	229	1.8	0.51	8	40	< 0.5	4	1.30	< 0.5	10	115	1635	1.41	< 10	< 1	0.24	10	0.12	65	156
570559H	299	229	1.8	0.76	2	70	< 0.5	< 2	0.83	< 0.5	8	92	1375	1.13	< 10	< 1	0.51	20	0.49	100	120
570560H	299	229	2.2	0.83	4	80	< 0.5	2	0.73	< 0.5	7	108	1650	1.09	< 10	< 1	0.62	10	0.65	105	168
570561H	299	229	3.4	0.58	4	110	< 0.5	4	0.63	< 0.5	7	87	2590	1.21	< 10	< 1	0.42	20	0.36	70	172
570562H	299	229	2.6	0.70	2	90	< 0.5	2	0.91	< 0.5	9	113	2030	1.40	< 10	< 1	0.47	20	0.51	105	117
570563H	299	229	4.4	0.56	10	40	< 0.5	2	1.05	< 0.5	11	88	3860	1.46	< 10	< 1	0.39	10	0.37	95	188
570564H	299	229	2.2	0.72	14	70	< 0.5	2	0.83	< 0.5	13	104	2220	1.51	< 10	< 1	0.48	10	0.52	90	105
570565H	299	229	2.0	0.69	6	100	< 0.5	2	0.74	< 0.5	10	89	2250	1.39	< 10	< 1	0.50	20	0.64	100	87
570566H	299	229	1.2	0.63	< 2	90	< 0.5	< 2	0.99	< 0.5	6	56	1280	0.92	< 10	< 1	0.45	20	0.53	90	173
570567H	299	229	1.6	1.08	6	170	< 0.5	< 2	1.16	< 0.5	8	75	1650	1.38	< 10	< 1	0.80	30	1.11	125	88
570568H	299	229	2.0	0.91	6	120	< 0.5	< 2	1.58	< 0.5	7	117	2110	1.51	< 10	< 1	0.60	40	0.72	120	241
570569H	299	229	1.6	0.88	8	110	< 0.5	< 2	1.19	< 0.5	7	79	1550	1.66	< 10	< 1	0.56	20	0.70	110	145
570570H	299	229	1.6	1.11	6	150	< 0.5	< 2	1.19	< 0.5	7	127	1895	1.15	< 10	< 1	0.74	40	0.87	120	148
570571H	299	229	2.0	1.56	12	150	0.5	< 2	1.67	< 0.5	12	84	2240	1.66	10	< 1	0.88	30	1.21	150	125

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO/138
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-JUL-93
Invoice No. :I9317003
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317003

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570532H	299	229	< 0.01	7	450	82	2	< 1	8	< 0.01	< 10	< 10	< 1	< 10	100
570533H	299	229	< 0.01	6	460	50	2	< 1	4	< 0.01	< 10	< 10	< 1	< 10	70
570534H	299	229	< 0.01	8	470	30	2	< 1	6	< 0.01	< 10	< 10	< 1	< 10	52
570535H	299	229	< 0.01	7	550	54	12	< 1	10	< 0.01	< 10	< 10	< 1	< 10	80
570536H	299	229	< 0.01	7	610	24	6	< 1	9	< 0.01	< 10	< 10	1	< 10	48
570537H	299	229	< 0.01	6	440	16	16	< 1	10	< 0.01	< 10	< 10	< 1	< 10	52
570538H	299	229	< 0.01	5	390	24	4	< 1	6	< 0.01	< 10	< 10	< 1	< 10	44
570539H	299	229	< 0.01	5	380	44	8	< 1	7	< 0.01	< 10	< 10	< 1	< 10	56
570540H	299	229	< 0.01	7	400	46	12	< 1	9	< 0.01	< 10	< 10	< 1	< 10	84
570541H	299	229	< 0.01	6	410	22	14	< 1	9	< 0.01	< 10	< 10	< 1	< 10	74
570542H	299	229	< 0.01	7	270	36	2	< 1	5	< 0.01	< 10	< 10	< 1	< 10	56
570543H	299	229	< 0.01	7	360	26	8	< 1	8	< 0.01	< 10	< 10	< 1	< 10	58
570544H	299	229	< 0.01	6	480	10	8	< 1	16	< 0.01	< 10	< 10	< 1	10	50
570545H	299	229	< 0.01	7	480	24	8	< 1	10	< 0.01	< 10	< 10	1	< 10	42
570546H	299	229	< 0.01	5	420	24	26	< 1	6	< 0.01	< 10	< 10	< 1	< 10	66
570547H	299	229	< 0.01	6	390	16	14	< 1	10	< 0.01	< 10	< 10	< 1	40	42
570548H	299	229	< 0.01	7	380	24	16	< 1	15	< 0.01	< 10	< 10	1	< 10	48
570549H	299	229	< 0.01	4	380	14	4	< 1	14	< 0.01	< 10	< 10	1	< 10	46
570550H	299	229	< 0.01	7	370	18	14	< 1	16	< 0.01	< 10	< 10	< 1	< 10	48
570551H	299	229	< 0.01	7	420	18	4	< 1	12	< 0.01	< 10	< 10	1	< 10	48
570552H	299	229	< 0.01	7	440	40	4	< 1	14	< 0.01	< 10	< 10	1	< 10	44
570553H	299	229	< 0.01	3	480	44	2	< 1	8	< 0.01	< 10	< 10	< 1	< 10	42
570554H	299	229	< 0.01	6	330	30	4	1	11	< 0.01	< 10	< 10	2	< 10	50
570555H	299	229	< 0.01	4	370	32	< 2	1	16	< 0.01	< 10	< 10	6	< 10	56
570556H	299	229	< 0.01	6	260	24	< 2	1	10	< 0.01	< 10	< 10	8	< 10	76
570557H	299	229	0.01	5	280	28	2	3	18	< 0.01	< 10	< 10	16	< 10	54
570558H	299	229	0.01	3	290	24	< 2	< 1	28	< 0.01	< 10	< 10	3	< 10	34
570559H	299	229	0.01	3	260	12	< 2	3	23	0.01	< 10	< 10	25	< 10	40
570560H	299	229	0.01	6	280	8	< 2	5	18	0.03	< 10	< 10	38	< 10	46
570561H	299	229	0.01	6	330	12	< 2	3	20	0.01	< 10	< 10	22	< 10	40
570562H	299	229	0.01	7	480	12	< 2	4	29	0.02	< 10	< 10	28	< 10	38
570563H	299	229	0.01	6	400	12	2	3	18	0.01	< 10	< 10	22	< 10	58
570564H	299	229	0.01	7	260	10	2	4	26	0.02	< 10	< 10	30	< 10	40
570565H	299	229	0.02	6	310	4	< 2	6	29	0.03	< 10	< 10	37	< 10	34
570566H	299	229	0.01	4	330	6	2	5	23	0.03	< 10	< 10	34	< 10	30
570567H	299	229	0.03	6	460	8	2	9	34	0.08	< 10	< 10	62	< 10	36
570568H	299	229	0.02	7	390	8	< 2	6	37	0.04	10	< 10	40	< 10	36
570569H	299	229	0.02	7	470	8	2	6	37	0.04	< 10	< 10	38	< 10	32
570570H	299	229	0.02	8	380	8	2	8	36	0.05	10	< 10	53	< 10	36
570571H	299	229	0.03	13	720	6	< 2	6	46	0.07	< 10	< 10	44	< 10	40

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CERTIFICATE OF ANALYSIS A9317003

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570572H	299	229	1.8	1.14	8	100	0.5	< 2	1.91	< 0.5	16	84	1635	2.16	< 10	< 1	0.58	20	0.84	140	87
570573H	299	229	1.8	0.96	2	110	0.5	< 2	1.69	< 0.5	13	82	1970	1.97	< 10	< 1	0.57	20	0.89	135	211
570574H	299	229	2.0	1.17	< 2	130	0.5	< 2	1.42	< 0.5	13	99	2480	1.53	< 10	< 1	0.71	20	0.90	125	281
570575H	299	229	2.6	0.87	12	100	< 0.5	< 2	1.60	< 0.5	13	130	3210	1.52	< 10	< 1	0.53	20	0.70	105	112
570576H	299	229	2.4	0.71	8	100	< 0.5	< 2	1.35	< 0.5	12	83	2480	1.67	< 10	< 1	0.42	20	0.62	100	211
570577H	299	229	1.8	0.78	8	100	< 0.5	< 2	1.53	< 0.5	9	119	2160	1.85	< 10	< 1	0.47	10	0.52	120	196
570578H	299	229	2.8	1.00	12	70	0.5	< 2	1.88	< 0.5	10	86	2550	2.23	< 10	< 1	0.42	20	0.52	120	219
570579H	299	229	1.6	0.92	8	80	0.5	2	1.70	< 0.5	10	80	1735	2.32	< 10	< 1	0.35	10	0.54	120	283
570580H	299	229	3.6	1.26	26	90	0.5	4	1.67	0.5	11	103	3040	2.72	< 10	< 1	0.53	20	0.41	160	105
570581H	299	229	3.8	1.31	8	110	0.5	4	1.72	0.5	13	92	2370	1.94	< 10	< 1	0.56	20	0.41	140	98
570582H	299	229	2.0	0.86	12	150	< 0.5	< 2	2.40	< 0.5	10	82	2180	1.36	< 10	< 1	0.36	20	0.61	180	145
570583H	299	229	2.6	1.03	16	60	< 0.5	4	3.14	0.5	11	92	3370	3.38	< 10	< 1	0.56	10	0.34	245	304
570584H	299	229	2.8	1.36	12	80	0.5	6	4.31	< 0.5	14	98	2810	2.62	< 10	< 1	0.60	30	1.11	290	265
570585H	299	229	1.6	0.99	12	100	0.5	6	1.80	< 0.5	18	76	2180	2.06	< 10	< 1	0.44	20	0.67	115	157
570586H	299	229	1.4	1.10	18	160	0.5	4	1.82	< 0.5	16	68	1850	1.68	< 10	< 1	0.46	30	0.66	110	155
570587H	299	229	2.6	0.73	16	90	< 0.5	8	1.66	< 0.5	14	79	3110	2.37	< 10	< 1	0.38	20	0.40	115	188
570588H	299	229	3.2	0.81	6	40	< 0.5	16	1.36	< 0.5	15	93	4510	3.96	< 10	< 1	0.52	20	0.14	105	644
570589H	299	229	5.4	0.70	88	20	< 0.5	30	0.46	3.0	11	69	4750	5.67	< 10	< 1	0.42	10	0.10	45	235
570590H	299	229	6.8	0.47	8	40	< 0.5	90	1.06	1.0	10	58	8000	3.12	< 10	< 1	0.31	10	0.21	140	939
570591H	299	229	5.8	0.90	12	40	< 0.5	42	0.97	0.5	13	84	7000	3.94	< 10	< 1	0.58	10	0.26	180	406
570592H	299	229	4.8	0.99	16	50	< 0.5	16	2.07	0.5	8	109	3270	3.27	< 10	< 1	0.60	30	0.18	115	654
570593H	299	229	3.0	0.42	30	60	< 0.5	6	1.55	1.0	6	90	3250	1.92	< 10	< 1	0.23	10	0.46	510	453
570594H	299	229	3.0	0.53	48	10	< 0.5	12	1.39	2.0	7	54	1510	6.30	< 10	< 1	0.25	10	0.23	340	309
570595H	299	229	1.6	0.45	8	100	< 0.5	6	1.39	0.5	6	68	1375	1.68	< 10	< 1	0.32	10	0.37	95	229
570596H	299	229	1.6	1.06	12	110	0.5	4	1.86	< 0.5	13	126	1750	1.93	< 10	< 1	0.57	20	0.84	115	195
570597H	299	229	1.8	1.13	4	90	0.5	2	2.06	< 0.5	14	116	2020	2.01	10	< 1	0.67	30	1.18	130	167
570598H	299	229	2.4	1.31	14	110	0.5	6	1.55	< 0.5	17	87	2330	2.14	< 10	< 1	0.65	20	1.09	150	246
570599H	299	229	2.2	0.63	8	60	< 0.5	4	0.95	< 0.5	8	76	3010	1.86	< 10	< 1	0.47	10	0.41	105	298
570600H	299	229	1.6	0.98	6	120	< 0.5	4	0.75	0.5	9	116	1915	1.62	< 10	< 1	0.70	20	0.29	75	652
570601H	299	229	1.4	0.78	4	120	< 0.5	4	0.78	< 0.5	7	108	1520	1.05	< 10	< 1	0.58	20	0.61	100	203
570602H	299	229	1.4	1.20	8	200	< 0.5	2	1.08	< 0.5	8	123	1555	1.16	< 10	< 1	0.78	30	0.78	120	135
570603H	299	229	1.6	0.74	8	90	< 0.5	6	0.87	< 0.5	7	90	1705	1.45	< 10	< 1	0.55	10	0.27	85	609
570604H	299	229	1.6	0.46	12	30	< 0.5	12	0.82	< 0.5	6	83	1775	1.44	< 10	< 1	0.38	10	0.29	75	368
570605H	299	229	1.0	0.53	2	80	< 0.5	4	0.84	< 0.5	5	104	1150	0.83	< 10	< 1	0.36	10	0.33	80	420
570606H	299	229	0.4	1.28	6	240	< 0.5	2	1.35	< 0.5	5	243	617	1.02	< 10	< 1	0.79	30	0.61	140	168
570607H	299	229	1.2	1.28	< 2	140	< 0.5	6	1.01	< 0.5	8	198	1630	1.66	< 10	< 1	0.84	20	0.47	105	214
570608H	299	229	2.0	0.60	16	130	< 0.5	6	0.90	< 0.5	7	96	1500	1.52	< 10	< 1	0.46	10	0.42	90	165
570609H	299	229	2.4	0.76	4	60	< 0.5	6	0.70	1.0	7	183	1600	1.26	< 10	< 1	0.59	30	0.21	75	211
570610H	299	229	1.6	1.23	12	110	< 0.5	4	1.58	0.5	6	195	1615	1.70	< 10	< 1	0.65	20	0.56	265	395
570611H	299	229	2.0	1.00	2	60	< 0.5	4	1.12	< 0.5	6	193	1620	1.38	< 10	< 1	0.66	10	0.44	110	372

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570572H	299	229	0.03	14	680	4	2	3	48	0.03	< 10	< 10	24	< 10	32
570573H	299	229	0.03	13	620	4	2	3	44	0.03	< 10	< 10	24	< 10	40
570574H	299	229	0.04	10	620	4	< 2	4	52	0.03	< 10	< 10	27	< 10	32
570575H	299	229	0.04	11	490	8	2	3	88	0.02	< 10	< 10	23	< 10	34
570576H	299	229	0.05	11	510	12	2	2	47	0.01	< 10	< 10	14	< 10	38
570577H	299	229	0.04	9	450	10	< 2	2	45	< 0.01	< 10	< 10	13	< 10	30
570578H	299	229	0.02	9	460	16	2	2	48	< 0.01	< 10	< 10	11	< 10	46
570579H	299	229	0.01	8	450	22	2	1	65	< 0.01	< 10	< 10	9	< 10	36
570580H	299	229	0.01	9	450	64	4	1	33	< 0.01	< 10	< 10	9	< 10	70
570581H	299	229	0.01	8	470	24	2	2	35	< 0.01	< 10	< 10	11	< 10	54
570582H	299	229	0.01	8	480	14	2	2	52	< 0.01	< 10	< 10	12	< 10	40
570583H	299	229	0.01	8	530	26	2	1	24	< 0.01	< 10	< 10	8	< 10	64
570584H	299	229	0.01	11	620	18	2	2	32	< 0.01	< 10	< 10	13	< 10	46
570585H	299	229	0.02	13	580	8	2	2	62	< 0.01	< 10	< 10	13	< 10	36
570586H	299	229	0.02	10	610	8	2	2	59	< 0.01	10	< 10	14	< 10	32
570587H	299	229	0.01	10	550	16	2	1	52	< 0.01	< 10	< 10	9	< 10	36
570588H	299	229	0.01	11	620	28	2	1	16	< 0.01	< 10	< 10	4	< 10	44
570589H	299	229	< 0.01	10	620	118	4	1	13	< 0.01	< 10	< 10	4	< 10	140
570590H	299	229	< 0.01	10	570	62	6	1	22	< 0.01	< 10	< 10	1	< 10	88
570591H	299	229	0.01	12	610	62	4	1	18	< 0.01	< 10	< 10	6	< 10	78
570592H	299	229	0.01	8	650	36	4	2	20	< 0.01	< 10	< 10	11	< 10	62
570593H	299	229	0.01	7	380	34	6	4	20	< 0.01	< 10	< 10	15	< 10	78
570594H	299	229	< 0.01	8	390	262	4	1	19	< 0.01	< 10	10	1	10	126
570595H	299	229	< 0.01	5	480	30	< 2	2	28	0.01	< 10	< 10	13	< 10	46
570596H	299	229	0.03	11	640	8	2	3	113	0.01	< 10	< 10	21	< 10	32
570597H	299	229	0.03	19	660	12	< 2	4	99	0.04	< 10	< 10	31	< 10	36
570598H	299	229	0.03	16	700	12	2	3	74	0.03	< 10	< 10	30	< 10	40
570599H	299	229	0.01	6	570	28	< 2	4	16	0.02	< 10	< 10	27	< 10	46
570600H	299	229	0.01	4	520	22	4	3	19	0.01	< 10	< 10	22	< 10	60
570601H	299	229	0.01	5	250	8	< 2	6	19	0.04	< 10	< 10	40	< 10	30
570602H	299	229	0.03	7	410	6	2	7	47	0.04	< 10	< 10	45	< 10	32
570603H	299	229	0.01	3	380	14	2	3	16	< 0.01	< 10	< 10	20	< 10	30
570604H	299	229	0.01	4	280	16	< 2	3	11	0.01	< 10	< 10	18	< 10	30
570605H	299	229	0.01	3	240	6	2	2	21	0.01	< 10	< 10	18	< 10	22
570606H	299	229	0.03	6	350	4	2	6	53	0.02	< 10	< 10	32	10	22
570607H	299	229	0.02	5	380	14	< 2	5	22	0.02	< 10	< 10	32	< 10	28
570608H	299	229	0.01	4	320	26	< 2	4	17	0.02	< 10	< 10	28	< 10	40
570609H	299	229	0.02	6	300	32	2	2	15	< 0.01	< 10	< 10	14	< 10	134
570610H	299	229	0.02	5	410	26	2	4	32	< 0.01	< 10	< 10	19	10	106
570611H	299	229	0.02	5	350	36	2	4	24	0.01	< 10	< 10	27	< 10	48

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570612H	299	229	2.0	0.79	6	90	0.5	< 2	1.36	< 0.5	5	38	1225	1.73	< 10	< 1	0.52	< 10	0.64	155	275
570613H	299	229	1.2	0.98	< 2	80	0.5	< 2	1.37	0.5	4	56	973	1.21	< 10	< 1	0.62	10	0.93	125	242
570614H	299	229	1.6	0.67	< 2	80	< 0.5	< 2	2.03	0.5	6	54	937	1.66	< 10	< 1	0.37	< 10	0.49	100	267
570615H	299	229	1.2	0.52	< 2	60	< 0.5	2	2.43	< 0.5	1	60	888	0.65	< 10	< 1	0.32	30	0.51	90	566
570616H	299	229	1.4	0.45	< 2	200	< 0.5	2	0.96	0.5	4	45	940	0.82	< 10	< 1	0.26	10	0.43	105	315
570617H	299	229	1.4	0.30	8	100	< 0.5	< 2	1.28	< 0.5	5	45	971	2.05	< 10	< 1	0.18	20	0.34	205	443
570618H	299	229	1.0	0.21	< 2	200	< 0.5	2	0.69	< 0.5	6	45	1040	0.81	< 10	< 1	0.14	10	0.29	70	145
570619H	299	229	1.2	0.20	< 2	180	< 0.5	< 2	0.58	< 0.5	5	37	1520	1.21	< 10	< 1	0.13	10	0.22	85	145
570620H	299	229	1.2	0.26	< 2	180	< 0.5	< 2	0.60	< 0.5	6	55	1455	1.31	< 10	< 1	0.18	10	0.22	65	207
570621H	299	229	1.4	0.26	16	70	< 0.5	6	1.42	< 0.5	6	50	1160	2.61	< 10	< 1	0.19	< 10	0.34	185	378
570622H	299	229	1.4	0.18	4	80	< 0.5	6	0.65	< 0.5	4	36	1175	2.07	< 10	< 1	0.14	< 10	0.15	105	451
570623H	299	229	1.2	0.30	8	70	< 0.5	4	2.39	< 0.5	6	49	699	3.06	< 10	< 1	0.17	< 10	0.10	280	344
570624H	299	229	1.2	0.26	20	50	< 0.5	2	0.86	< 0.5	7	48	997	3.84	< 10	< 1	0.18	< 10	0.06	85	298
570625H	299	229	1.2	0.47	< 2	230	< 0.5	< 2	0.67	< 0.5	2	69	1375	1.18	< 10	< 1	0.32	< 10	0.33	90	346
570626H	299	229	1.4	0.31	2	110	< 0.5	2	1.02	< 0.5	7	59	1575	2.26	< 10	< 1	0.20	< 10	0.40	75	466
570627H	299	229	2.2	0.57	< 2	170	< 0.5	2	0.80	< 0.5	4	86	1930	1.17	< 10	< 1	0.41	20	0.58	75	475
570628H	299	229	2.0	0.26	6	160	< 0.5	4	0.75	< 0.5	5	59	2260	1.07	< 10	< 1	0.18	< 10	0.31	45	292
570629H	299	229	3.0	0.26	12	110	< 0.5	2	0.80	< 0.5	7	58	3260	1.76	< 10	< 1	0.18	< 10	0.29	55	161
570630H	299	229	1.8	0.35	2	120	< 0.5	< 2	1.23	< 0.5	9	85	1550	1.80	< 10	< 1	0.24	10	0.59	75	313
570631H	299	229	4.6	0.57	4	120	< 0.5	18	0.78	< 0.5	10	82	4310	1.76	< 10	< 1	0.23	10	0.80	70	237
570632H	299	229	4.4	0.75	< 2	180	< 0.5	4	0.64	< 0.5	7	97	3590	1.50	< 10	< 1	0.46	10	0.81	75	444
570633H	299	229	2.0	0.82	4	190	< 0.5	6	0.61	< 0.5	8	88	3150	1.23	< 10	< 1	0.62	10	0.85	85	264
570634H	299	229	2.8	0.52	8	260	< 0.5	< 2	0.99	< 0.5	6	118	2680	1.25	< 10	< 1	0.32	< 10	0.49	105	334
570635H	299	229	2.6	0.30	2	210	< 0.5	< 2	0.78	0.5	4	108	2310	1.29	< 10	< 1	0.19	< 10	0.31	120	373
570636H	299	229	3.4	0.39	20	80	< 0.5	56	1.35	< 0.5	4	130	2750	2.70	< 10	< 1	0.22	< 10	0.39	245	272
570637H	299	229	2.4	0.50	< 2	240	< 0.5	2	0.99	0.5	8	102	3140	1.16	< 10	< 1	0.32	< 10	0.57	75	357
570638H	299	229	1.8	0.39	2	220	< 0.5	2	1.23	< 0.5	6	101	1805	1.14	< 10	< 1	0.23	10	0.52	75	919
570639H	299	229	2.4	0.55	< 2	240	< 0.5	2	0.81	0.5	7	123	2410	1.07	< 10	< 1	0.34	10	0.45	70	569
570640H	299	229	3.2	0.48	< 2	200	< 0.5	6	0.65	< 0.5	5	103	2840	0.99	< 10	< 1	0.36	< 10	0.49	60	490
570641H	299	229	3.0	0.61	< 2	160	< 0.5	< 2	0.56	< 0.5	9	109	2770	1.18	< 10	< 1	0.50	20	0.68	65	291
570642H	299	229	1.2	0.85	10	230	< 0.5	< 2	0.47	< 0.5	5	176	1245	0.87	< 10	< 1	0.69	10	0.80	85	314
570643H	299	229	2.2	0.85	< 2	250	< 0.5	8	0.56	0.5	4	207	1975	1.07	< 10	< 1	0.70	< 10	0.77	80	176
570644H	299	229	1.2	0.66	4	190	< 0.5	< 2	0.59	< 0.5	4	102	690	0.77	< 10	< 1	0.54	< 10	0.68	65	356
570645H	299	229	1.4	0.69	< 2	260	< 0.5	< 2	0.98	< 0.5	4	149	1110	0.83	< 10	< 1	0.43	10	0.70	65	594
570646H	299	229	1.4	0.61	12	210	< 0.5	2	0.87	< 0.5	4	95	1155	1.43	< 10	< 1	0.42	< 10	0.66	65	182
570647H	299	229	0.6	0.34	< 2	210	< 0.5	< 2	1.30	< 0.5	3	62	663	0.96	< 10	< 1	0.18	< 10	0.54	60	174
570648H	299	229	1.2	0.42	< 2	260	< 0.5	< 2	1.44	< 0.5	2	56	993	0.93	< 10	< 1	0.20	< 10	0.67	65	701
790A	299	229	3.4	0.39	20	20	0.5	16	0.81	< 0.5	13	90	2370	5.07	< 10	< 1	0.27	< 10	0.15	155	1435
791A	299	229	1.8	0.85	< 2	140	< 0.5	< 2	0.95	< 0.5	8	55	2070	1.11	< 10	< 1	0.58	30	0.70	95	98
792A	299	229	7.8	0.33	8	50	< 0.5	82	1.08	< 0.5	10	50	7430	3.00	< 10	< 1	0.22	< 10	0.23	165	418

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WHITEHORSE, YT
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Project : CASINO/138
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :4
Certificate Date: 16-JUL-93
Invoice No. :I9317003
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317003

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570612H	299	229	0.01	6	560	26	4	6	28	0.03	< 10	< 10	36	< 10	38
570613H	299	229	0.02	8	450	10	4	8	47	0.05	< 10	< 10	49	< 10	52
570614H	299	229	0.01	4	400	24	2	4	42	0.01	< 10	< 10	25	< 10	42
570615H	299	229	0.01	5	350	6	8	4	19	0.01	< 10	< 10	29	< 10	38
570616H	299	229	0.01	6	390	8	2	5	17	0.01	< 10	< 10	25	< 10	42
570617H	299	229	< 0.01	4	360	20	6	4	16	< 0.01	< 10	< 10	16	< 10	32
570618H	299	229	< 0.01	5	240	6	2	3	16	< 0.01	< 10	< 10	16	< 10	28
570619H	299	229	< 0.01	7	290	12	4	2	15	< 0.01	< 10	< 10	11	< 10	22
570620H	299	229	< 0.01	4	290	10	2	2	17	< 0.01	< 10	< 10	10	< 10	16
570621H	299	229	< 0.01	6	290	18	6	1	19	< 0.01	< 10	< 10	6	10	18
570622H	299	229	< 0.01	6	270	20	2	1	16	< 0.01	< 10	< 10	6	< 10	16
570623H	299	229	< 0.01	5	260	8	6	1	22	< 0.01	< 10	10	4	10	14
570624H	299	229	< 0.01	8	280	24	2	1	14	< 0.01	< 10	< 10	5	< 10	14
570625H	299	229	0.01	6	250	2	2	2	25	0.01	< 10	< 10	19	< 10	14
570626H	299	229	< 0.01	7	270	16	6	2	24	< 0.01	< 10	< 10	13	10	20
570627H	299	229	0.01	10	300	6	4	4	22	0.03	< 10	< 10	32	< 10	20
570628H	299	229	< 0.01	8	300	4	4	2	26	< 0.01	< 10	< 10	18	< 10	14
570629H	299	229	< 0.01	9	280	6	2	1	22	< 0.01	< 10	< 10	10	< 10	30
570630H	299	229	0.01	11	290	4	6	2	21	< 0.01	< 10	< 10	16	10	20
570631H	299	229	0.01	22	380	< 2	4	3	25	0.01	< 10	< 10	28	< 10	56
570632H	299	229	0.02	15	340	16	2	3	35	0.04	< 10	< 10	35	< 10	42
570633H	299	229	0.01	12	370	8	2	4	31	0.07	< 10	< 10	43	< 10	28
570634H	299	229	0.01	9	420	8	6	3	36	0.01	< 10	< 10	26	< 10	34
570635H	299	229	0.01	9	340	10	4	2	25	< 0.01	< 10	< 10	14	< 10	30
570636H	299	229	0.01	9	350	16	12	3	24	< 0.01	< 10	< 10	16	10	30
570637H	299	229	0.01	10	330	4	6	4	27	0.01	< 10	< 10	37	< 10	20
570638H	299	229	0.01	8	260	12	6	3	21	< 0.01	< 10	< 10	28	< 10	28
570639H	299	229	0.01	10	300	24	6	3	27	0.01	< 10	< 10	30	< 10	32
570640H	299	229	0.01	11	320	8	2	3	19	0.02	< 10	< 10	35	< 10	38
570641H	299	229	0.01	8	310	6	2	4	15	0.03	< 10	< 10	42	< 10	34
570642H	299	229	0.02	8	340	6	2	4	22	0.06	< 10	< 10	43	< 10	38
570643H	299	229	0.02	11	450	10	2	4	24	0.06	< 10	10	41	< 10	44
570644H	299	229	0.01	6	710	< 2	4	3	20	0.05	< 10	10	35	< 10	56
570645H	299	229	0.01	12	450	4	6	4	26	0.02	< 10	< 10	39	< 10	30
570646H	299	229	0.01	8	380	6	2	4	29	0.03	< 10	10	36	< 10	36
570647H	299	229	0.01	7	300	4	2	4	29	< 0.01	< 10	< 10	30	< 10	14
570648H	299	229	0.01	8	360	2	8	5	36	< 0.01	< 10	10	39	< 10	26
790A	299	229	< 0.01	6	410	14	22	< 1	15	< 0.01	< 10	< 10	9	10	42
791A	299	229	0.01	7	390	6	4	6	31	0.04	< 10	< 10	48	< 10	22
792A	299	229	< 0.01	14	580	54	4	1	22	< 0.01	< 10	< 10	5	10	46

CERTIFICATION: _____

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO/138
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-A
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Invoice No. :19317003
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317003

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
793A	299	229	2.8	0.33	6	30	< 0.5	4	0.72	0.5	4	71	1580	0.95	< 10	< 1	0.24	20	0.19	75	201
794A	299	229	2.4	0.29	2	130	< 0.5	4	0.70	< 0.5	8	65	2090	1.14	< 10	< 1	0.20	10	0.35	45	394

CERTIFICATION: Jhai D'Ma

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Project : CASINO/138
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Page Number :4-B
Total Pages :4
Certificate Date: 16-JUL-93
Invoice No. :I9317003
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317003

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
793A	299	229	< 0.01	6	270	34	2	2	12	< 0.01	< 10	< 10	13	< 10	118
794A	299	229	< 0.01	6	290	< 2	2	1	21	< 0.01	< 10	< 10	14	< 10	14

CERTIFICATION: Jhai D Ma

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Project : CASINO 139
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUL-93
Invoice No. :19316487
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316487

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H570376	208 274	0.20	0.088	0.34	5780
H570377	208 273	0.25	0.162	0.48	12100
H570378	208 273	0.18	0.031	0.31	14120
H570379	208 273	0.16	0.048	0.21	12440
H570380	208 273	0.11	0.144	0.21	11920
H570381	208 276	0.16	0.100	0.24	11480
H570382	208 273	0.24	0.034	0.24	12580
H570383	208 276	0.12	0.144	0.17	11800
H570384	208 276	0.13	0.234	0.21	11120
H570385	208 273	0.22	0.174	0.27	11980
H570386	208 276	0.09	0.170	0.14	11780
H570387	208 276	0.12	0.224	0.14	11620
H570388	208 273	0.15	0.141	0.24	12340
H570389	208 273	0.15	0.123	0.10	11920
H570390	208 273	0.16	0.142	0.14	12180
H570391	208 276	0.13	0.112	0.10	11520
H570392	208 273	0.12	0.072	0.10	12280
H570393	208 273	0.13	0.069	0.14	12000
H570394	208 273	0.23	0.139	0.31	12665
H570395	208 273	0.12	0.031	0.17	12300
H570396	208 276	0.14	0.231	0.14	11800
H570397	208 273	0.14	0.228	0.14	11840
H570398	208 273	0.28	0.069	0.14	12320
H570399	208 274	0.24	0.091	0.17	6540
H570400	208 276	0.28	0.025	0.10	8020
H570401	208 274	0.25	0.026	0.17	5720
H570402	208 273	0.30	0.056	0.21	11900
H570403	208 276	0.18	0.021	0.17	10920
H570404	208 276	0.32	0.041	0.14	11300
H570405	208 273	0.36	0.018	0.24	12000
H570406	208 276	0.40	0.056	0.27	9640
H570407	208 274	0.27	0.030	0.31	5580
H570408	208 276	0.29	0.069	0.14	9440
H570409	208 276	0.25	0.162	0.24	10760
H570410	208 274	0.17	0.058	0.10	6600
H570411	208 273	0.18	0.085	0.17	12280
H570412	208 274	0.20	0.055	0.21	6860
H570413	208 273	0.31	0.037	0.17	12260
H570414	208 273	0.20	0.073	0.10	14200
H570415	208 273	0.19	0.072	0.14	12420

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Project : CASINO 139
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Certificate Date: 07-JUL-93
Invoice No. :19316487
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316487

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H570416	208 276	0.15	0.079	0.10	11560
H570417	208 276	0.15	0.057	0.10	10040
H570418	208 276	0.19	0.094	0.14	11760
H570419	208 276	0.12	0.043	0.07	9620
H570420	208 276	0.15	0.038	0.07	11040
H570421	208 273	0.17	0.053	0.07	12220
H570422	208 273	0.16	0.016	< 0.03	16340
H570423	208 273	0.07	0.008	< 0.03	13260
H570424	208 273	0.13	0.009	0.14	12560
H570425	208 273	0.08	0.030	0.14	12340
H570426	208 273	0.10	0.009	0.14	12440
H570427	208 273	0.13	0.035	0.10	12660
H570428	208 273	0.11	0.023	0.10	12060
H570429	208 273	0.16	0.035	0.14	12440
H570430	208 273	0.02	0.013	< 0.03	12480
H570431	208 273	0.04	0.021	0.03	11920
H570432	208 276	0.10	0.037	0.10	11100
H570433	208 273	0.03	0.029	0.03	12120
H570434	208 276	0.11	0.008	0.14	11380
H570435	208 276	0.07	0.008	0.07	11640
H570436	208 276	0.13	0.006	0.07	10420
H570437	208 276	0.09	0.005	0.07	11400
H570438	208 276	0.11	0.002	0.07	11000
H570439	208 276	0.10	0.003	0.10	11560
H570440	208 276	0.17	0.005	0.10	10860
H570441	208 273	0.04	0.005	0.03	12560
H570442	208 273	0.01	0.008	0.07	12270
H570443	208 276	0.05	0.018	< 0.03	10860
H570444	208 273	0.11	0.054	0.07	12480
H570445	208 273	0.22	0.064	0.34	12280
H570446	208 273	0.13	0.081	0.07	13020
H570447	208 273	0.29	0.048	0.10	12360
H570448	208 273	0.60	0.066	0.27	13400
H570449	208 276	0.39	0.045	0.17	11140
H570450	208 276	0.62	0.062	0.38	11360
H570451	208 273	0.24	0.115	0.17	12740
H570452	208 276	0.26	0.033	0.14	11400
H570453	208 273	0.26	0.054	0.17	12120
H570454	208 276	0.32	0.048	0.17	11560
H570455	208 273	0.09	0.036	0.07	12800

CERTIFICATION: A Christie

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Certificate Date: 07-JUL-93
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CERTIFICATE OF ANALYSIS A9316487

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H570456	208	276	0.39	0.208	0.17	11540
H570457	208	273	0.55	0.054	0.27	12440
H570458	208	276	0.45	0.077	0.34	10480
H570459	208	273	0.61	0.030	0.48	12000
H570460	208	276	0.47	0.032	0.31	10960
H570461	208	276	0.26	0.052	0.17	10760
H570462	208	273	0.20	0.021	0.10	11840
H570463	208	276	0.27	0.027	0.17	11740
H570464	208	276	0.32	0.084	0.24	11780
H570465	208	276	0.23	0.065	0.34	10480
H570466	208	273	0.40	0.024	0.38	11840
H570467	208	276	0.38	0.096	0.41	10780
H570468	208	273	0.33	0.059	0.34	12180
H570469	208	273	0.37	0.055	0.38	12780
H570470	208	273	0.26	0.053	0.24	12220
H570471	208	273	0.30	0.076	0.27	12720
H570472	208	276	0.25	0.037	0.17	11340
H570473	208	273	0.36	0.061	0.17	12500
H570474	208	273	0.16	0.079	0.14	12620
H570475	208	273	0.12	0.070	0.10	12620
H570476	208	273	0.11	0.077	0.14	12640
H570477	208	273	0.29	0.044	0.10	12620
H570478	208	273	0.26	0.088	0.21	12800
H570479	208	276	0.26	0.065	0.07	11760
H570480	208	273	0.33	0.067	0.21	12860
H570481	208	273	0.24	0.071	0.14	15380
H570482	208	273	0.26	0.039	0.21	15170
H570483	208	273	0.26	0.030	0.14	15000
H570484	208	273	0.24	0.022	0.03	15300
H570485	208	273	0.10	0.013	< 0.03	15000
H570486	208	273	0.20	0.019	0.14	13000
H570487	208	273	0.21	0.017	0.10	13140
H570488	208	276	0.23	0.027	0.10	11620
H570489	208	273	0.20	0.027	0.10	14200
H570490	208	273	0.19	0.040	0.10	14700
H570491	208	273	0.21	0.024	0.14	13200
H570492	208	273	0.29	0.023	0.27	12280
H570493	208	273	0.23	0.044	0.27	11940
H570494	208	273	0.25	0.029	0.24	12760
H570495	208	273	0.19	0.027	0.17	13120

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Y1A 3S9

Project : CASINO 139
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUL-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316487

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H570496	208 273	0.19	0.017	0.10	13000
H570497	208 273	0.23	0.112	0.14	12640
H570498	208 273	0.16	0.046	0.10	12600
H570499	208 273	0.18	0.024	0.10	13860
H570500	208 273	0.26	0.064	0.14	13960
H570501	208 273	0.22	0.038	0.10	12740
H570502	208 273	0.21	0.008	0.14	13080
H570503	208 273	0.20	0.032	0.03	13000
H570504	208 273	0.30	0.034	0.24	12440
H570505	208 273	0.25	0.022	0.14	13180
H570506	208 273	0.38	0.007	0.34	12540
H570507	208 273	0.28	0.005	0.27	12820
H570508	208 273	0.16	0.004	0.10	12880
H570509	208 273	0.21	0.039	0.10	14200
H570510	208 273	0.30	0.009	0.17	13720
H570511	208 273	0.17	0.007	0.10	12900
H570512	208 273	0.26	0.013	0.21	14740
H570513	208 273	0.20	0.059	0.17	12920
H570514	208 273	0.35	0.022	0.27	14720
H570515	208 273	0.42	0.030	0.27	12080
H570516	208 273	0.40	0.017	0.27	13440
H570517	208 273	0.19	0.053	0.10	14060
H570518	208 273	0.30	0.059	0.38	12780
H570519	208 273	0.16	0.045	0.10	13860
H570520	208 273	0.29	0.021	0.41	14580
H570521	208 273	0.30	0.066	0.17	13060
H570522	208 273	0.32	0.019	0.21	13160
H570523	208 273	0.22	0.018	0.07	12860
H570524	208 273	0.26	0.015	0.21	13620
H570525	208 273	0.17	0.018	0.07	13880
H570526	208 273	0.21	0.013	0.21	11940
H570527	208 276	0.13	0.013	0.07	11340
H570528	208 273	0.16	0.016	0.07	13000
H570529	208 273	0.09	0.008	< 0.03	14220
H570530	208 273	0.05	0.020	< 0.03	14280
H570531	208 273	0.12	0.006	0.07	14340
782	208 274	0.17	0.184	0.58	6240
783	208 274	0.26	0.031	0.10	5780
784	208 274	0.15	0.041	0.03	4520
785	208 274	0.11	0.005	< 0.03	6740

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
786	208 274	0.44	0.055	0.14	6920
787	208 274	0.30	0.068	0.14	5960
788	208 274	0.21	0.077	0.10	6200
789	208 274	0.32	0.026	0.21	6240

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570376	299	229	3.0	0.39	2	30	0.5	< 2	1.10	< 0.5	22	68	2080	1.98	< 10	< 1	0.21	20	0.28	325	541
H570377	299	229	4.4	0.73	12	70	0.5	6	1.38	< 0.5	27	161	2610	2.41	< 10	< 1	0.45	20	0.42	195	992
H570378	299	229	3.6	0.28	26	60	< 0.5	18	1.57	< 0.5	10	58	1790	2.05	< 10	< 1	0.21	20	0.73	220	211
H570379	299	229	2.2	0.17	12	70	< 0.5	< 2	1.46	< 0.5	7	34	1535	1.69	< 10	< 1	0.14	10	0.67	210	247
H570380	299	229	1.8	0.22	< 2	20	0.5	< 2	1.27	< 0.5	20	59	1040	3.09	< 10	< 1	0.15	10	0.27	205	827
H570381	299	229	3.0	0.58	12	40	0.5	< 2	0.97	< 0.5	21	155	1630	3.22	< 10	< 1	0.39	20	0.34	110	616
H570382	299	229	3.4	0.20	14	30	0.5	< 2	1.10	< 0.5	9	29	2510	3.38	< 10	< 1	0.16	10	0.49	125	202
H570383	299	229	2.4	0.34	32	20	0.5	< 2	0.48	< 0.5	15	66	1225	4.09	< 10	< 1	0.24	20	0.23	95	917
H570384	299	229	2.2	1.08	6	50	0.5	4	1.19	< 0.5	25	209	1295	3.49	< 10	< 1	0.57	10	0.28	275	1350
H570385	299	229	2.8	0.52	4	60	0.5	< 2	1.28	< 0.5	25	101	2240	2.55	< 10	< 1	0.31	10	0.26	125	1025
H570386	299	229	1.6	0.85	< 2	40	0.5	< 2	1.80	< 0.5	20	156	913	2.89	< 10	< 1	0.52	10	0.27	130	962
H570387	299	229	2.2	1.04	2	80	0.5	< 2	1.41	< 0.5	35	177	1245	2.39	< 10	< 1	0.59	20	0.25	120	1325
H570388	299	229	2.4	0.45	6	50	0.5	< 2	1.30	< 0.5	21	65	1395	2.75	< 10	< 1	0.28	20	0.24	135	804
H570389	299	229	2.0	0.71	4	50	< 0.5	< 2	1.09	< 0.5	15	119	1540	2.23	< 10	< 1	0.41	20	0.54	135	731
H570390	299	229	2.2	0.26	2	70	< 0.5	< 2	1.15	< 0.5	15	50	1660	2.24	< 10	< 1	0.19	20	0.55	130	854
H570391	299	229	1.6	0.24	4	30	0.5	< 2	0.95	< 0.5	18	62	1315	2.46	< 10	< 1	0.17	10	0.44	110	674
H570392	299	229	1.6	0.72	24	30	0.5	4	1.42	< 0.5	13	105	1185	2.93	< 10	< 1	0.42	10	0.67	190	429
H570393	299	229	1.6	0.69	8	60	0.5	2	1.21	< 0.5	14	119	1285	2.71	< 10	< 1	0.42	10	0.58	180	431
H570394	299	229	3.2	0.21	14	40	< 0.5	< 2	1.16	< 0.5	14	24	2370	2.77	< 10	< 1	0.16	10	0.47	130	792
H570395	299	229	1.6	0.75	< 2	40	0.5	< 2	1.70	< 0.5	9	100	1165	2.30	< 10	< 1	0.43	10	0.79	200	178
H570396	299	229	1.8	0.47	2	70	0.5	< 2	0.80	< 0.5	32	93	1505	2.04	< 10	< 1	0.27	20	0.38	105	1385
H570397	299	229	2.0	0.91	< 2	70	0.5	< 2	0.63	< 0.5	50	155	1420	2.10	< 10	< 1	0.46	20	0.28	100	1285
H570398	299	229	3.4	0.82	< 2	30	0.5	< 2	0.69	< 0.5	62	142	3010	3.15	< 10	< 1	0.44	20	0.32	90	430
H570399	299	229	2.6	0.85	4	90	< 0.5	< 2	0.54	< 0.5	17	118	2420	1.59	< 10	< 1	0.38	20	0.19	45	567
H570400	299	229	3.2	0.57	< 2	90	< 0.5	< 2	0.63	< 0.5	19	51	2920	1.83	< 10	< 1	0.29	10	0.30	65	166
H570401	299	229	3.6	0.41	< 2	150	< 0.5	< 2	0.66	< 0.5	20	53	2610	1.39	< 10	< 1	0.25	20	0.34	100	173
H570402	299	229	4.0	0.43	8	90	< 0.5	< 2	0.54	< 0.5	16	66	3180	1.84	< 10	< 1	0.25	20	0.28	90	383
H570403	299	229	2.4	0.45	4	90	< 0.5	< 2	0.69	< 0.5	19	69	1890	1.77	< 10	< 1	0.25	20	0.35	75	132
H570404	299	229	4.4	0.45	< 2	80	< 0.5	< 2	0.77	< 0.5	17	54	3130	1.98	< 10	< 1	0.22	20	0.34	100	243
H570405	299	229	5.2	0.54	< 2	120	< 0.5	< 2	0.68	< 0.5	17	67	3620	1.66	< 10	< 1	0.32	30	0.42	90	113
H570406	299	229	5.4	0.56	< 2	110	< 0.5	< 2	0.67	< 0.5	16	69	3960	1.74	< 10	< 1	0.35	20	0.44	85	353
H570407	299	229	4.0	0.51	8	140	< 0.5	< 2	0.58	< 0.5	15	75	2780	1.35	< 10	< 1	0.31	20	0.31	65	185
H570408	299	229	4.2	0.52	16	150	< 0.5	< 2	0.68	< 0.5	18	77	3090	1.26	< 10	< 1	0.27	30	0.32	110	429
H570409	299	229	4.0	0.45	2	110	< 0.5	< 2	0.60	< 0.5	13	83	2620	1.33	< 10	< 1	0.25	30	0.29	90	1045
H570410	299	229	2.8	0.47	< 2	130	< 0.5	< 2	0.55	< 0.5	7	106	1650	1.17	< 10	< 1	0.30	30	0.25	95	351
H570411	299	229	3.4	0.47	14	70	< 0.5	< 2	0.85	< 0.5	10	99	1805	1.69	< 10	< 1	0.28	50	0.43	125	545
H570412	299	229	2.6	0.56	16	60	< 0.5	< 2	0.78	< 0.5	8	92	1905	1.93	< 10	< 1	0.37	30	0.41	125	328
H570413	299	229	4.4	0.36	12	110	< 0.5	< 2	0.74	< 0.5	8	101	3220	1.07	< 10	< 1	0.26	40	0.34	80	241
H570414	299	229	2.8	0.45	4	210	< 0.5	< 2	0.40	< 0.5	6	144	2040	0.81	< 10	< 1	0.31	40	0.21	45	475
H570415	299	229	3.2	0.46	< 2	140	< 0.5	< 2	0.65	< 0.5	11	121	1960	1.26	< 10	< 1	0.31	50	0.34	70	458

CERTIFICATION: Jan Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570376	299	229	< 0.01	5	390	6	6	< 1	16	< 0.01	< 10	< 10	9	20	38
H570377	299	229	0.01	8	430	26	8	1	20	< 0.01	< 10	< 10	12	< 10	28
H570378	299	229	< 0.01	4	530	20	4	< 1	21	< 0.01	< 10	< 10	5	< 10	24
H570379	299	229	< 0.01	4	440	18	4	< 1	19	< 0.01	< 10	< 10	3	< 10	24
H570380	299	229	< 0.01	5	220	10	8	< 1	13	< 0.01	< 10	< 10	6	< 10	36
H570381	299	229	0.01	6	320	14	6	1	19	< 0.01	< 10	< 10	9	< 10	20
H570382	299	229	< 0.01	5	540	8	4	< 1	19	< 0.01	< 10	< 10	3	< 10	18
H570383	299	229	< 0.01	6	390	14	8	< 1	17	< 0.01	< 10	< 10	7	< 10	16
H570384	299	229	0.01	7	370	10	8	1	21	< 0.01	< 10	< 10	16	10	40
H570385	299	229	0.01	6	330	8	8	< 1	16	< 0.01	< 10	< 10	10	20	14
H570386	299	229	0.01	3	320	12	6	< 1	21	< 0.01	< 10	< 10	10	20	20
H570387	299	229	0.01	6	410	8	8	< 1	21	< 0.01	< 10	< 10	12	10	16
H570388	299	229	< 0.01	7	410	14	8	< 1	19	< 0.01	< 10	< 10	7	< 10	14
H570389	299	229	0.01	4	400	10	6	< 1	25	< 0.01	< 10	< 10	9	< 10	14
H570390	299	229	< 0.01	5	330	16	12	< 1	21	< 0.01	< 10	< 10	6	< 10	14
H570391	299	229	< 0.01	7	390	4	6	< 1	21	< 0.01	< 10	< 10	5	< 10	8
H570392	299	229	0.01	4	550	14	4	1	29	< 0.01	< 10	< 10	7	< 10	14
H570393	299	229	0.01	6	530	12	6	< 1	21	< 0.01	< 10	< 10	7	< 10	16
H570394	299	229	< 0.01	4	620	12	8	< 1	17	< 0.01	< 10	< 10	5	< 10	10
H570395	299	229	0.01	5	600	16	2	1	21	< 0.01	< 10	< 10	8	< 10	12
H570396	299	229	0.01	3	380	12	12	< 1	22	< 0.01	< 10	< 10	9	< 10	10
H570397	299	229	0.01	9	390	12	12	< 1	21	< 0.01	< 10	< 10	11	< 10	14
H570398	299	229	0.01	8	400	22	4	1	26	< 0.01	< 10	< 10	10	< 10	18
H570399	299	229	0.01	6	340	6	4	1	64	< 0.01	< 10	< 10	12	< 10	18
H570400	299	229	< 0.01	8	300	< 2	4	1	23	< 0.01	< 10	< 10	10	< 10	16
H570401	299	229	< 0.01	5	250	2	6	1	17	< 0.01	< 10	< 10	10	< 10	16
H570402	299	229	0.01	5	280	10	4	2	22	< 0.01	< 10	< 10	11	< 10	14
H570403	299	229	0.01	7	270	34	2	3	22	< 0.01	< 10	< 10	17	< 10	14
H570404	299	229	< 0.01	6	400	4	6	2	24	< 0.01	< 10	< 10	14	< 10	20
H570405	299	229	0.01	7	230	8	8	2	15	< 0.01	< 10	< 10	20	< 10	20
H570406	299	229	0.01	4	280	8	8	2	14	< 0.01	< 10	10	19	< 10	20
H570407	299	229	0.01	7	220	8	8	3	19	< 0.01	< 10	< 10	19	< 10	14
H570408	299	229	0.01	6	280	6	16	2	17	< 0.01	< 10	< 10	15	< 10	16
H570409	299	229	0.01	2	350	8	24	1	13	< 0.01	< 10	< 10	13	< 10	22
H570410	299	229	0.01	4	350	16	6	1	16	< 0.01	< 10	< 10	8	< 10	20
H570411	299	229	0.01	5	300	22	6	2	18	< 0.01	< 10	< 10	14	< 10	32
H570412	299	229	0.01	6	400	24	10	1	27	< 0.01	< 10	< 10	11	< 10	32
H570413	299	229	0.01	3	170	26	12	1	18	< 0.01	< 10	< 10	8	< 10	18
H570414	299	229	0.01	3	190	10	4	< 1	21	< 0.01	< 10	< 10	6	< 10	8
H570415	299	229	0.01	4	180	24	4	1	17	< 0.01	< 10	< 10	7	< 10	14

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570416	299	229	2.6	0.47	2	130	< 0.5	4	0.70	< 0.5	9	108	1520	1.19	< 10	< 1	0.32	30	0.37	90	489
H570417	299	229	2.4	0.73	2	160	< 0.5	4	0.90	< 0.5	9	120	1515	1.17	< 10	< 1	0.50	30	0.53	155	349
H570418	299	229	2.8	0.62	4	130	< 0.5	4	0.76	< 0.5	12	125	1910	1.26	< 10	< 1	0.44	30	0.51	105	578
H570419	299	229	1.6	0.72	8	200	< 0.5	2	0.83	< 0.5	9	116	1200	0.96	< 10	< 1	0.49	30	0.54	110	261
H570420	299	229	1.6	0.80	12	70	< 0.5	4	0.93	< 0.5	10	159	1550	2.56	< 10	< 1	0.53	30	0.51	130	232
H570421	299	229	1.6	0.61	8	190	< 0.5	4	0.85	< 0.5	7	126	1750	1.16	< 10	< 1	0.44	30	0.45	80	323
H570422	299	229	3.0	0.87	26	50	< 0.5	10	1.74	0.5	6	74	1655	2.67	< 10	< 1	0.45	10	0.80	190	101
H570423	299	229	1.6	1.00	22	40	< 0.5	14	1.03	< 0.5	10	63	685	3.07	< 10	< 1	0.50	10	0.47	160	45
H570424	299	229	3.2	0.98	16	40	< 0.5	94	2.17	< 0.5	7	61	1285	2.77	< 10	< 1	0.53	10	0.45	165	51
H570425	299	229	1.8	0.85	34	30	< 0.5	8	2.34	< 0.5	9	72	784	3.84	< 10	< 1	0.46	10	0.48	160	165
H570426	299	229	1.6	0.58	46	60	< 0.5	8	2.66	< 0.5	8	37	925	2.51	< 10	< 1	0.35	10	0.65	185	53
H570427	299	229	2.4	0.82	8	40	< 0.5	8	1.76	< 0.5	11	81	1355	2.72	< 10	< 1	0.47	10	0.50	145	203
H570428	299	229	2.0	1.00	10	50	< 0.5	14	1.96	0.5	7	70	1105	2.44	< 10	< 1	0.50	10	0.65	135	128
H570429	299	229	2.6	0.83	22	60	< 0.5	10	1.47	< 0.5	7	70	1620	2.45	< 10	< 1	0.48	10	0.63	120	207
H570430	299	229	0.6	1.02	16	40	< 0.5	12	1.24	< 0.5	7	91	190	3.00	< 10	< 1	0.58	10	0.57	115	80
H570431	299	229	1.2	0.75	18	20	< 0.5	12	1.14	< 0.5	10	43	417	3.48	< 10	< 1	0.40	10	0.46	110	127
H570432	299	229	1.4	0.70	16	20	< 0.5	6	0.30	< 0.5	12	77	939	4.16	< 10	< 1	0.42	10	0.17	30	214
H570433	299	229	0.6	0.76	12	40	< 0.5	4	1.33	< 0.5	6	57	265	2.44	< 10	< 1	0.43	20	0.53	105	179
H570434	299	229	1.4	0.86	20	40	< 0.5	6	1.65	< 0.5	6	43	1165	2.59	< 10	< 1	0.46	10	0.51	110	49
H570435	299	229	1.0	0.86	6	40	< 0.5	8	1.30	< 0.5	6	52	707	2.16	< 10	< 1	0.43	10	0.54	125	44
H570436	299	229	1.6	0.89	14	50	0.5	6	2.27	< 0.5	7	40	1260	2.26	< 10	< 1	0.41	10	0.51	105	30
H570437	299	229	1.6	0.89	4	80	0.5	8	2.41	< 0.5	7	40	900	2.14	< 10	< 1	0.45	10	0.53	120	24
H570438	299	229	1.6	0.91	< 2	80	0.5	8	2.47	< 0.5	8	35	1055	2.17	< 10	< 1	0.47	10	0.42	95	19
H570439	299	229	1.8	0.91	16	60	0.5	8	2.74	< 0.5	6	36	935	2.01	< 10	< 1	0.47	10	0.59	120	22
H570440	299	229	5.4	1.01	2	70	0.5	46	2.21	< 0.5	7	43	1720	2.11	< 10	< 1	0.53	10	0.46	105	26
H570441	299	229	0.8	0.67	8	90	< 0.5	12	2.48	< 0.5	4	38	402	1.90	< 10	< 1	0.39	10	0.58	145	23
H570442	299	229	0.4	0.99	8	80	0.5	2	2.18	< 0.5	3	49	85	1.95	< 10	< 1	0.43	10	0.56	135	45
H570443	299	229	0.6	0.87	4	90	0.5	2	1.78	< 0.5	2	54	466	1.75	< 10	< 1	0.39	20	0.54	100	104
H570444	299	229	1.2	0.67	6	30	< 0.5	2	0.63	< 0.5	8	89	1080	2.74	< 10	< 1	0.42	20	0.31	80	309
H570445	299	229	2.0	0.58	28	50	< 0.5	12	1.10	< 0.5	11	73	2230	2.53	< 10	< 1	0.32	20	0.49	95	390
H570446	299	229	0.8	0.53	14	100	< 0.5	6	0.92	< 0.5	4	74	1250	1.44	< 10	< 1	0.30	20	0.43	75	495
H570447	299	229	2.4	0.40	6	60	< 0.5	4	1.13	< 0.5	8	59	3010	2.13	< 10	< 1	0.27	20	0.51	65	284
H570448	299	229	5.4	0.41	6	90	< 0.5	6	1.02	< 0.5	5	95	6540	1.30	< 10	< 1	0.33	30	0.42	55	399
H570449	299	229	2.8	0.51	4	90	< 0.5	2	1.07	< 0.5	9	78	4070	1.69	< 10	< 1	0.41	20	0.56	75	269
H570450	299	229	4.6	0.38	8	60	< 0.5	8	0.66	< 0.5	7	87	6730	2.43	< 10	< 1	0.31	20	0.33	40	372
H570451	299	229	2.4	0.41	4	150	< 0.5	4	0.76	< 0.5	7	94	2600	1.08	< 10	< 1	0.33	40	0.38	55	741
H570452	299	229	2.6	0.45	12	210	< 0.5	4	0.89	< 0.5	6	103	2750	0.89	< 10	< 1	0.33	40	0.40	70	202
H570453	299	229	2.6	0.44	18	160	< 0.5	4	1.11	< 0.5	7	110	2730	1.26	10	< 1	0.31	100	0.52	85	337
H570454	299	229	3.2	0.44	40	140	< 0.5	4	1.22	< 0.5	7	97	3330	1.34	< 10	< 1	0.32	30	0.60	75	303
H570455	299	229	0.8	0.77	16	190	< 0.5	< 2	2.28	< 0.5	2	53	900	1.04	< 10	< 1	0.31	30	1.01	120	200

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 139
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-JUL-93
Invoice No. : I9316488
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316488

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B570416	299	229	0.01	5	180	16	2	2	20	< 0.01	10	< 10	10	< 10	24
B570417	299	229	0.01	6	330	4	2	4	18	< 0.01	10	< 10	24	< 10	28
B570418	299	229	0.01	6	250	16	4	4	18	< 0.01	10	< 10	27	< 10	28
B570419	299	229	0.01	6	230	4	2	4	19	0.01	10	< 10	29	< 10	20
B570420	299	229	0.02	6	250	8	2	3	26	< 0.01	10	< 10	21	10	26
B570421	299	229	0.01	5	290	< 2	2	3	22	< 0.01	10	< 10	16	< 10	24
B570422	299	229	0.01	3	570	20	2	1	35	< 0.01	< 10	< 10	5	10	40
B570423	299	229	0.01	4	760	16	< 2	1	20	< 0.01	< 10	< 10	4	10	18
B570424	299	229	0.01	4	670	20	2	< 1	31	< 0.01	< 10	< 10	3	10	14
B570425	299	229	0.01	6	650	8	< 2	1	41	< 0.01	< 10	< 10	3	10	20
B570426	299	229	< 0.01	4	630	8	2	1	51	< 0.01	< 10	< 10	2	10	18
B570427	299	229	0.01	7	560	4	< 2	1	32	< 0.01	< 10	< 10	6	10	18
B570428	299	229	0.01	4	580	12	< 2	1	41	< 0.01	< 10	< 10	6	10	26
B570429	299	229	0.01	4	540	10	2	1	43	< 0.01	< 10	< 10	7	< 10	22
B570430	299	229	0.01	5	490	14	< 2	1	34	< 0.01	< 10	< 10	7	10	14
B570431	299	229	< 0.01	6	620	16	< 2	< 1	23	< 0.01	< 10	< 10	2	10	16
B570432	299	229	0.01	8	380	8	< 2	< 1	12	< 0.01	< 10	< 10	3	10	22
B570433	299	229	0.01	6	540	8	< 2	< 1	27	< 0.01	< 10	< 10	3	< 10	10
B570434	299	229	< 0.01	3	730	12	2	< 1	30	< 0.01	< 10	< 10	3	< 10	24
B570435	299	229	< 0.01	3	700	4	< 2	< 1	25	< 0.01	< 10	< 10	2	< 10	16
B570436	299	229	< 0.01	2	720	2	4	< 1	38	< 0.01	< 10	< 10	3	< 10	26
B570437	299	229	< 0.01	2	710	10	< 2	< 1	39	< 0.01	< 10	< 10	3	< 10	22
B570438	299	229	< 0.01	2	720	4	< 2	< 1	45	< 0.01	< 10	< 10	3	< 10	14
B570439	299	229	< 0.01	3	730	8	2	< 1	51	< 0.01	< 10	< 10	3	< 10	18
B570440	299	229	0.01	3	710	24	2	< 1	43	< 0.01	10	< 10	4	< 10	22
B570441	299	229	< 0.01	2	700	12	< 2	< 1	50	< 0.01	< 10	< 10	3	< 10	18
B570442	299	229	< 0.01	3	690	4	< 2	< 1	40	< 0.01	< 10	< 10	3	< 10	10
B570443	299	229	< 0.01	2	710	4	< 2	< 1	32	< 0.01	< 10	< 10	2	< 10	14
B570444	299	229	0.01	6	350	6	2	1	19	< 0.01	< 10	< 10	4	< 10	20
B570445	299	229	< 0.01	6	460	16	2	< 1	20	< 0.01	< 10	< 10	2	< 10	30
B570446	299	229	0.01	6	350	6	2	< 1	21	< 0.01	< 10	< 10	1	< 10	26
B570447	299	229	0.01	12	380	8	2	1	21	< 0.01	10	< 10	4	< 10	30
B570448	299	229	0.01	13	220	2	2	1	19	< 0.01	10	< 10	6	< 10	48
B570449	299	229	0.01	10	250	2	< 2	3	19	0.01	10	< 10	21	< 10	30
B570450	299	229	0.01	15	240	4	< 2	1	17	< 0.01	10	10	6	< 10	50
B570451	299	229	0.01	8	280	4	2	3	21	< 0.01	10	< 10	13	< 10	26
B570452	299	229	0.01	7	240	6	4	3	23	< 0.01	10	< 10	18	< 10	40
B570453	299	229	0.01	8	200	10	2	3	27	< 0.01	20	< 10	13	< 10	34
B570454	299	229	0.01	8	240	16	2	2	26	< 0.01	10	< 10	8	< 10	50
B570455	299	229	< 0.01	4	570	6	4	1	41	< 0.01	10	< 10	3	< 10	36

CERTIFICATION: Jan Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 139
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-JUL-93
Invoice No. : I9316488
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316488

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570456	299	229	4.0	0.57	26	130	< 0.5	6	1.12	0.5	6	82	4340	1.24	10	< 1	0.33	110	0.50	120	1350
H570457	299	229	7.8	0.58	8	230	< 0.5	6	0.76	< 0.5	6	124	6110	1.05	< 10	< 1	0.39	30	0.34	80	340
H570458	299	229	4.6	0.49	6	210	< 0.5	6	1.12	< 0.5	7	136	4750	0.98	< 10	< 1	0.34	40	0.38	115	497
H570459	299	229	4.4	0.63	6	110	< 0.5	6	0.66	< 0.5	18	140	6740	1.59	< 10	< 1	0.44	40	0.36	75	184
H570460	299	229	4.2	0.44	8	30	< 0.5	4	0.70	< 0.5	18	91	5070	2.80	< 10	< 1	0.31	20	0.32	65	209
H570461	299	229	2.4	0.43	6	60	< 0.5	4	0.53	< 0.5	9	117	2860	1.81	< 10	< 1	0.37	10	0.27	45	348
H570462	299	229	1.8	0.51	4	100	< 0.5	2	0.61	< 0.5	10	104	2110	1.70	< 10	< 1	0.40	20	0.38	60	131
H570463	299	229	2.6	0.71	12	190	< 0.5	4	0.62	< 0.5	10	117	2890	1.28	< 10	< 1	0.56	20	0.54	85	143
H570464	299	229	3.0	0.77	8	180	< 0.5	2	0.60	< 0.5	10	128	3370	1.10	< 10	< 1	0.61	30	0.60	95	538
H570465	299	229	1.8	0.93	8	190	< 0.5	2	1.02	< 0.5	11	134	2470	1.25	< 10	< 1	0.65	30	0.79	110	420
H570466	299	229	3.8	0.83	6	220	< 0.5	4	0.59	< 0.5	10	118	4390	1.43	< 10	< 1	0.61	20	0.62	85	135
H570467	299	229	2.6	0.88	6	220	< 0.5	4	0.64	< 0.5	7	152	3950	1.15	< 10	< 1	0.66	30	0.63	95	601
H570468	299	229	2.6	0.73	8	150	< 0.5	4	0.77	< 0.5	6	136	3580	1.04	< 10	< 1	0.50	20	0.46	80	368
H570469	299	229	2.2	0.73	10	240	< 0.5	4	0.72	< 0.5	11	136	4040	1.21	< 10	< 1	0.48	30	0.48	85	352
H570470	299	229	1.8	0.63	10	220	< 0.5	2	0.72	< 0.5	8	122	2680	0.99	< 10	< 1	0.32	40	0.35	70	338
H570471	299	229	2.2	0.64	18	220	< 0.5	4	0.55	< 0.5	5	134	3250	0.99	< 10	< 1	0.35	20	0.26	70	486
H570472	299	229	2.0	0.51	16	210	< 0.5	4	0.58	< 0.5	5	71	2720	1.14	< 10	< 1	0.26	20	0.23	75	231
H570473	299	229	3.4	0.57	6	160	< 0.5	4	0.88	< 0.5	4	97	3820	1.44	< 10	< 1	0.37	20	0.43	85	385
H570474	299	229	1.6	0.45	6	200	< 0.5	2	0.83	< 0.5	3	81	1620	0.74	< 10	< 1	0.30	30	0.36	75	524
H570475	299	229	1.0	0.45	4	30	< 0.5	4	1.01	< 0.5	7	115	1265	3.46	< 10	< 1	0.29	30	0.42	90	417
H570476	299	229	1.4	0.56	4	60	< 0.5	4	0.77	< 0.5	10	132	1210	2.44	< 10	< 1	0.44	20	0.41	60	483
H570477	299	229	2.6	0.47	16	100	< 0.5	4	0.63	< 0.5	6	89	3120	1.61	< 10	< 1	0.35	20	0.34	55	263
H570478	299	229	2.8	0.58	6	290	< 0.5	4	0.88	< 0.5	6	112	2720	1.04	< 10	< 1	0.41	20	0.47	75	579
H570479	299	229	2.6	0.51	30	190	< 0.5	4	0.92	< 0.5	7	117	2920	1.44	< 10	< 1	0.37	30	0.44	235	423
H570480	299	229	3.0	0.52	58	60	< 0.5	6	0.86	0.5	10	110	3520	2.52	< 10	< 1	0.35	10	0.43	225	411
H570481	299	229	2.2	0.43	10	230	< 0.5	4	0.72	< 0.5	5	118	2590	1.24	< 10	< 1	0.36	20	0.37	60	474
H570482	299	229	2.2	0.47	10	170	< 0.5	4	0.80	< 0.5	8	94	2660	1.14	< 10	< 1	0.36	20	0.48	70	231
H570483	299	229	2.0	0.53	10	160	< 0.5	4	0.91	< 0.5	12	117	2750	1.59	< 10	< 1	0.38	20	0.50	75	183
H570484	299	229	1.6	0.50	14	170	< 0.5	6	0.89	< 0.5	7	110	2510	1.47	< 10	< 1	0.35	20	0.46	90	135
H570485	299	229	0.8	0.82	34	90	< 0.5	8	1.49	< 0.5	14	51	1020	2.08	< 10	< 1	0.39	20	0.75	275	76
H570486	299	229	1.8	2.24	24	110	0.5	2	2.06	< 0.5	15	63	2120	3.03	10	< 1	1.05	30	1.62	225	85
H570487	299	229	1.6	2.47	12	230	0.5	< 2	2.05	< 0.5	15	79	2300	2.84	10	< 1	1.21	30	1.80	165	90
H570488	299	229	1.6	1.51	6	150	0.5	6	1.99	< 0.5	9	104	2360	2.01	10	< 1	0.63	30	1.17	115	148
H570489	299	229	1.4	1.16	2	180	< 0.5	4	1.33	< 0.5	12	131	2140	2.01	10	< 1	0.54	40	0.87	110	160
H570490	299	229	1.4	1.29	10	210	0.5	4	1.41	< 0.5	10	127	1990	1.75	< 10	< 1	0.55	40	0.88	105	244
H570491	299	229	1.6	1.49	10	230	0.5	6	1.28	< 0.5	14	128	2200	1.88	10	< 1	0.49	40	1.09	120	139
H570492	299	229	2.2	1.53	10	210	0.5	2	1.33	< 0.5	21	159	3040	2.16	10	< 1	0.56	40	1.02	135	121
H570493	299	229	1.6	1.37	12	200	0.5	4	2.83	< 0.5	12	143	2540	1.95	10	< 1	0.52	30	1.03	125	265
H570494	299	229	1.6	1.30	< 2	190	0.5	4	2.01	< 0.5	12	150	2580	1.79	10	< 1	0.51	40	0.89	100	166
H570495	299	229	1.2	1.26	2	250	< 0.5	4	1.69	< 0.5	12	129	1935	1.53	10	< 1	0.59	40	0.88	100	151

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CERTIFICATE OF ANALYSIS A9316488

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570456	299	229	0.01	8	500	10	8	2	25	< 0.01	30	< 10	4	< 10	60
H570457	299	229	0.02	9	270	4	< 2	1	21	< 0.01	10	< 10	8	< 10	48
H570458	299	229	0.02	9	530	2	2	2	22	< 0.01	10	< 10	14	< 10	30
H570459	299	229	0.02	11	230	4	< 2	2	20	< 0.01	10	< 10	14	< 10	36
H570460	299	229	0.01	12	300	10	< 2	1	17	< 0.01	10	< 10	7	< 10	46
H570461	299	229	0.02	9	270	8	< 2	1	18	< 0.01	10	< 10	8	< 10	36
H570462	299	229	0.01	9	250	6	< 2	2	17	< 0.01	10	< 10	17	< 10	30
H570463	299	229	0.02	8	340	4	< 2	3	20	0.03	10	< 10	23	< 10	34
H570464	299	229	0.02	9	300	2	2	3	20	0.03	10	< 10	27	< 10	30
H570465	299	229	0.02	8	370	< 2	2	4	24	0.04	10	< 10	32	< 10	30
H570466	299	229	0.02	9	340	2	2	3	27	0.04	< 10	< 10	30	< 10	34
H570467	299	229	0.02	10	480	4	2	3	24	0.04	10	< 10	30	< 10	34
H570468	299	229	0.02	8	340	6	< 2	2	20	0.01	< 10	< 10	19	< 10	28
H570469	299	229	0.02	9	280	4	2	3	22	0.01	< 10	< 10	21	< 10	32
H570470	299	229	0.01	9	270	4	2	3	25	< 0.01	10	< 10	16	< 10	26
H570471	299	229	0.01	8	320	4	8	2	21	< 0.01	< 10	< 10	13	< 10	30
H570472	299	229	0.01	9	340	2	12	2	20	< 0.01	< 10	< 10	11	< 10	24
H570473	299	229	0.01	9	370	2	2	2	28	< 0.01	< 10	< 10	12	< 10	28
H570474	299	229	0.01	6	490	< 2	2	2	20	< 0.01	10	< 10	11	< 10	18
H570475	299	229	0.01	10	740	2	< 2	2	19	< 0.01	10	< 10	9	10	18
H570476	299	229	0.02	9	390	10	2	2	21	< 0.01	10	< 10	11	180	24
H570477	299	229	0.01	10	320	4	< 2	2	21	< 0.01	10	< 10	12	< 10	26
H570478	299	229	0.01	7	360	4	2	3	25	< 0.01	10	< 10	16	< 10	26
H570479	299	229	0.01	8	480	12	8	2	27	< 0.01	10	< 10	11	< 10	34
H570480	299	229	0.01	10	340	14	18	2	24	< 0.01	< 10	< 10	9	< 10	58
H570481	299	229	0.02	7	290	4	2	2	25	< 0.01	10	< 10	10	< 10	22
H570482	299	229	0.01	8	400	2	< 2	3	25	0.01	10	< 10	18	< 10	24
H570483	299	229	0.01	8	380	4	< 2	3	28	< 0.01	10	< 10	17	< 10	28
H570484	299	229	0.01	7	390	4	< 2	2	29	< 0.01	10	< 10	13	< 10	26
H570485	299	229	0.01	6	650	16	4	1	29	< 0.01	10	< 10	4	< 10	32
H570486	299	229	0.10	10	1040	2	10	11	194	0.13	10	< 10	81	10	40
H570487	299	229	0.12	10	910	2	2	13	388	0.17	10	< 10	105	10	28
H570488	299	229	0.08	8	650	2	2	6	436	0.03	10	< 10	45	< 10	22
H570489	299	229	0.08	7	440	4	< 2	6	87	0.02	10	< 10	41	60	22
H570490	299	229	0.06	7	540	< 2	2	7	48	0.03	10	< 10	48	10	20
H570491	299	229	0.07	7	500	4	< 2	7	44	0.03	10	< 10	58	10	24
H570492	299	229	0.07	8	500	6	< 2	7	72	0.04	10	< 10	55	< 10	26
H570493	299	229	0.04	7	470	4	2	6	285	0.02	10	< 10	37	10	24
H570494	299	229	0.05	9	440	4	< 2	7	92	0.02	10	< 10	42	10	22
H570495	299	229	0.06	6	400	2	< 2	7	121	0.04	10	< 10	50	30	20

CERTIFICATION: Garth Bidder

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 139
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-JUL-93
Invoice No. : 19316488
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316488

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570496	299	229	1.4	1.11	2	210	0.5	4	2.04	< 0.5	12	128	2020	1.60	10	< 1	0.45	40	0.75	105	107
H570497	299	229	1.8	1.49	8	180	0.5	6	2.14	< 0.5	15	113	2380	1.65	10	< 1	0.44	40	0.69	110	659
H570498	299	229	1.0	0.96	< 2	140	< 0.5	4	1.50	< 0.5	8	143	1575	1.13	< 10	< 1	0.35	50	0.52	115	272
H570499	299	229	1.2	1.23	10	120	0.5	4	2.18	< 0.5	10	98	1800	1.45	10	< 1	0.31	40	0.69	105	144
H570500	299	229	1.4	0.92	2	90	< 0.5	6	2.16	< 0.5	9	113	2580	1.66	10	< 1	0.37	30	0.83	105	354
H570501	299	229	1.6	0.79	2	130	< 0.5	2	1.99	< 0.5	9	122	2300	1.40	< 10	< 1	0.37	30	0.74	100	214
H570502	299	229	1.2	0.83	4	120	0.5	4	1.89	< 0.5	14	89	2090	1.91	< 10	< 1	0.34	30	0.75	125	42
H570503	299	229	1.2	0.52	4	180	0.5	4	2.48	< 0.5	10	107	2010	1.52	< 10	< 1	0.27	30	0.67	150	176
H570504	299	229	2.0	0.72	6	90	0.5	4	4.19	< 0.5	15	105	3120	1.70	< 10	< 1	0.24	30	0.83	165	182
H570505	299	229	1.6	1.38	6	220	0.5	4	2.15	< 0.5	19	118	2590	2.12	10	< 1	0.45	40	0.75	120	127
H570506	299	229	2.8	1.37	6	160	0.5	8	2.22	< 0.5	24	151	4150	2.42	10	< 1	0.62	40	0.89	145	39
H570507	299	229	1.8	1.41	16	140	0.5	6	2.09	< 0.5	21	116	3030	2.13	10	< 1	0.51	20	0.77	130	28
H570508	299	229	1.0	1.42	4	120	< 0.5	4	1.85	< 0.5	25	160	1620	2.39	10	< 1	0.60	20	0.99	125	21
H570509	299	229	1.2	1.77	8	140	< 0.5	4	2.48	< 0.5	16	135	2220	2.05	10	< 1	0.75	20	1.20	125	228
H570510	299	229	1.8	2.53	12	90	0.5	4	2.63	< 0.5	26	93	3100	3.49	10	< 1	1.47	20	1.62	165	46
H570511	299	229	0.8	2.90	4	240	0.5	< 2	2.71	< 0.5	22	77	1730	3.90	10	< 1	1.60	20	1.86	220	38
H570512	299	229	2.4	2.42	8	160	< 0.5	< 2	2.09	< 0.5	22	119	2620	3.10	10	< 1	1.44	20	1.70	160	71
H570513	299	229	1.2	2.39	10	170	0.5	< 2	3.50	< 0.5	17	86	1960	2.53	10	< 1	1.31	20	1.71	165	316
H570514	299	229	2.2	1.51	10	150	< 0.5	4	1.80	< 0.5	15	170	3810	1.91	< 10	< 1	0.64	20	1.20	120	125
H570515	299	229	2.4	1.39	< 2	90	< 0.5	4	2.11	< 0.5	18	116	4440	2.19	10	< 1	0.69	30	1.11	120	166
H570516	299	229	3.0	1.51	10	150	0.5	4	2.95	< 0.5	12	142	4480	2.21	10	< 1	0.63	20	1.00	155	98
H570517	299	229	1.4	1.16	4	110	0.5	4	2.45	< 0.5	10	131	2130	1.80	< 10	< 1	0.50	30	0.82	130	330
H570518	299	229	4.0	1.27	< 2	90	0.5	4	2.75	< 0.5	8	133	3020	1.57	10	< 1	0.57	30	0.91	95	338
H570519	299	229	0.8	1.55	6	170	0.5	< 2	2.16	< 0.5	9	113	1605	1.64	10	< 1	0.72	30	1.13	110	264
H570520	299	229	2.4	1.28	2	110	< 0.5	2	1.73	< 0.5	8	111	3000	2.00	< 10	< 1	0.58	20	1.04	105	124
H570521	299	229	2.2	1.11	6	100	< 0.5	4	2.75	< 0.5	7	107	3150	1.39	< 10	< 1	0.49	30	0.82	85	387
H570522	299	229	2.0	1.44	2	200	0.5	4	2.05	< 0.5	8	188	3550	1.44	< 10	< 1	0.59	30	0.86	85	120
H570523	299	229	1.4	1.36	4	230	0.5	2	3.13	< 0.5	9	113	2210	1.95	< 10	< 1	0.41	20	0.85	150	110
H570524	299	229	1.8	1.64	6	230	< 0.5	< 2	1.71	< 0.5	14	178	2790	2.06	10	< 1	0.74	30	1.13	135	99
H570525	299	229	1.2	1.31	4	110	< 0.5	2	2.03	< 0.5	12	118	1730	1.77	< 10	< 1	0.64	20	1.01	95	114
H570526	299	229	1.6	1.35	6	140	< 0.5	< 2	1.74	< 0.5	16	117	2120	2.02	< 10	< 1	0.59	20	1.02	110	79
H570527	299	229	1.2	1.34	2	220	< 0.5	2	1.27	< 0.5	15	75	1335	2.33	< 10	< 1	0.58	20	1.09	125	74
H570528	299	229	1.6	1.26	4	130	< 0.5	2	1.35	< 0.5	14	56	1680	2.60	< 10	< 1	0.40	20	1.08	140	95
H570529	299	229	0.6	1.33	4	110	< 0.5	2	2.27	< 0.5	9	62	891	2.06	10	< 1	0.34	10	1.09	155	50
H570530	299	229	0.2	1.32	4	130	< 0.5	2	1.71	< 0.5	8	79	465	2.05	10	< 1	0.47	10	1.12	145	123
H570531	299	229	1.2	1.32	16	160	< 0.5	2	1.43	< 0.5	13	86	1175	2.58	10	< 1	0.46	20	1.08	155	36
782	299	229	2.8	0.49	14	40	< 0.5	6	1.20	< 0.5	23	87	1820	3.05	< 10	< 1	0.30	20	0.27	195	1125
783	299	229	2.8	0.52	8	110	< 0.5	6	0.67	< 0.5	16	79	2700	1.61	< 10	< 1	0.29	20	0.30	75	193
784	299	229	1.6	0.43	14	90	< 0.5	4	0.82	< 0.5	10	92	1560	1.69	< 10	< 1	0.30	30	0.43	100	288
785	299	229	2.0	0.66	6	70	0.5	12	2.31	< 0.5	7	53	1170	1.98	< 10	< 1	0.38	10	0.45	110	28

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

): ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 139
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-JUL-93
Invoice No. :19316488
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CERTIFICATE OF ANALYSIS A9316488

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570496	299	229	0.04	7	440	4	< 2	5	118	0.01	10	< 10	31	10	20
H570497	299	229	0.02	8	500	< 2	2	7	65	0.01	10	< 10	36	< 10	24
H570498	299	229	0.01	6	600	< 2	2	6	31	< 0.01	10	< 10	29	< 10	20
H570499	299	229	0.03	9	460	6	< 2	6	62	< 0.01	10	< 10	33	< 10	20
H570500	299	229	0.05	8	500	2	2	4	161	0.01	10	< 10	32	< 10	24
H570501	299	229	0.05	5	420	2	2	4	142	0.01	10	< 10	33	< 10	20
H570502	299	229	0.04	7	490	2	< 2	5	88	0.01	10	< 10	38	10	20
H570503	299	229	0.04	6	440	4	< 2	3	115	< 0.01	< 10	< 10	16	10	16
H570504	299	229	0.01	7	460	4	2	6	50	< 0.01	< 10	< 10	32	< 10	22
H570505	299	229	0.04	7	470	2	2	8	80	0.02	10	< 10	50	10	24
H570506	299	229	0.08	8	520	2	< 2	9	322	0.05	10	< 10	63	10	32
H570507	299	229	0.06	6	540	2	2	8	238	0.04	10	< 10	54	< 10	26
H570508	299	229	0.09	8	520	2	2	9	101	0.07	10	< 10	68	10	20
H570509	299	229	0.11	7	590	2	2	9	147	0.08	10	< 10	74	10	22
H570510	299	229	0.16	12	1040	2	2	14	152	0.20	< 10	< 10	109	10	28
H570511	299	229	0.13	13	1110	< 2	2	15	232	0.21	10	< 10	116	290	34
H570512	299	229	0.15	11	930	< 2	2	14	112	0.20	< 10	< 10	115	10	28
H570513	299	229	0.13	9	980	< 2	4	13	243	0.16	< 10	< 10	111	10	26
H570514	299	229	0.11	9	510	10	< 2	9	97	0.11	< 10	< 10	77	10	28
H570515	299	229	0.09	7	570	4	2	9	125	0.10	10	< 10	73	< 10	32
H570516	299	229	0.07	8	640	10	< 2	8	127	0.06	< 10	< 10	67	10	32
H570517	299	229	0.07	5	490	4	2	5	177	0.02	10	< 10	43	10	22
H570518	299	229	0.06	9	420	6	2	6	149	0.04	10	< 10	55	10	24
H570519	299	229	0.07	5	500	6	2	9	119	0.08	10	< 10	72	< 10	20
H570520	299	229	0.07	7	470	< 2	2	8	86	0.12	< 10	< 10	74	< 10	26
H570521	299	229	0.04	7	450	2	2	6	182	0.02	< 10	< 10	48	< 10	24
H570522	299	229	0.07	9	480	4	< 2	7	142	0.04	< 10	< 10	61	< 10	24
H570523	299	229	0.04	7	570	2	2	7	94	0.02	< 10	< 10	49	< 10	22
H570524	299	229	0.10	8	510	4	2	10	84	0.10	< 10	< 10	79	10	28
H570525	299	229	0.08	8	470	< 2	< 2	8	102	0.09	< 10	< 10	68	10	20
H570526	299	229	0.07	5	480	2	2	8	87	0.12	< 10	< 10	74	10	22
H570527	299	229	0.08	4	530	2	2	8	57	0.15	< 10	< 10	81	10	22
H570528	299	229	0.06	6	520	2	2	7	49	0.10	< 10	< 10	73	10	24
H570529	299	229	0.06	4	580	4	2	7	94	0.04	< 10	< 10	64	10	22
H570530	299	229	0.08	5	550	2	2	7	66	0.12	< 10	< 10	72	10	20
H570531	299	229	0.07	6	560	4	2	8	54	0.13	< 10	< 10	80	10	24
782	299	229	0.01	8	290	12	2	< 1	17	< 0.01	10	< 10	2	10	48
783	299	229	0.01	6	340	6	2	1	21	< 0.01	< 10	< 10	7	< 10	24
784	299	229	0.01	6	240	6	2	3	22	< 0.01	< 10	< 10	16	< 10	22
785	299	229	< 0.01	4	770	6	2	< 1	44	< 0.01	< 10	< 10	3	< 10	20

CERTIFICATION: Jan Buchler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 139
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Page N. :5-A
Total Pages :5
Certificate Date: 06-JUL-93
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Account : FC

CERTIFICATE OF ANALYSIS A9316488

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
786	299	229	4.0	0.34	6	90	< 0.5	4	0.64	< 0.5	13	71	4770	2.17	< 10	< 1	0.26	20	0.31	55	337
787	299	229	3.0	0.33	40	60	< 0.5	4	0.85	0.5	10	79	3300	2.52	< 10	< 1	0.24	10	0.40	175	416
788	299	229	1.4	0.95	6	150	0.5	2	2.28	< 0.5	8	79	2170	1.54	10	< 1	0.35	40	0.87	110	451
789	299	229	3.2	1.24	8	110	< 0.5	4	1.91	< 0.5	10	79	3390	1.92	< 10	< 1	0.50	20	1.08	110	141

CERTIFICATION: Stewart Buchan

Chemex Labs Ltd.

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Page : 5-B
Total Pages : 5
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CERTIFICATE OF ANALYSIS A9316488

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
786	299	229	0.01	9	250	8	2	1	15	< 0.01	10	< 10	7	< 10	46
787	299	229	0.01	9	320	16	12	2	20	< 0.01	10	< 10	8	< 10	48
788	299	229	0.04	5	450	2	2	4	163	0.01	10	< 10	33	< 10	24
789	299	229	0.06	9	480	4	2	8	89	0.10	10	< 10	72	10	26

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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Page [illegible] :1
Total Pages :2
Certificate Date: 04-AUG-93
Invoice No. :I9318114
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318114

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569383 H	208 274	0.24	0.026	0.41	2160
569384 H	208 276	0.51	0.047	0.82	7860
569385 H	208 274	0.38	0.053	0.51	6340
569386 H	208 276	0.23	0.030	0.31	11200
569387 H	208 273	0.21	0.026	0.27	12380
569388 H	208 276	0.15	0.029	0.24	7620
569389 H	208 276	0.12	0.050	0.14	8880
569390 H	208 274	0.18	0.046	0.21	6000
569391 H	208 273	0.13	0.040	0.14	13520
569392 H	208 276	0.22	0.037	0.27	11320
569393 H	208 273	0.10	0.027	0.07	14260
569394 H	208 276	0.18	0.030	0.27	10160
569395 H	208 273	0.14	0.040	0.14	15360
569396 H	208 273	0.23	0.206	0.34	12420
569397 H	208 273	0.16	0.054	0.21	13580
569398 H	208 273	0.12	0.046	0.10	12580
569399 H	208 273	0.08	0.047	< 0.03	12880
569400 H	208 273	0.11	0.044	0.07	13760
569401 H	208 273	0.14	0.053	0.21	13260
569402 H	208 273	0.07	0.032	0.03	12460
569403 H	208 273	0.10	0.093	0.10	12600
569404 H	208 273	0.05	0.052	< 0.03	12280
569405 H	208 276	0.06	0.058	< 0.03	11640
569406 H	208 276	0.07	0.047	< 0.03	10800
569407 H	208 273	0.10	0.048	0.03	13460
569408 H	208 273	0.12	0.046	0.10	12520
569409 H	208 276	0.06	0.037	< 0.03	10320
569410 H	208 274	0.06	0.050	0.07	7160
569411 H	208 274	0.04	0.047	0.07	5540
569412 H	208 274	0.12	0.040	0.14	6100
569413 H	208 273	0.09	0.041	0.07	12940
569414 H	208 274	0.07	0.043	0.10	5840
569415 H	208 274	0.11	0.046	0.14	5000
569416 H	208 274	0.15	0.049	0.07	6980
569417 H	208 276	0.09	0.038	0.10	8840
569418 H	208 273	0.10	0.032	0.07	11840
569419 H	208 273	0.11	0.028	< 0.03	12620
569420 H	208 273	0.08	0.070	0.10	14340
569421 H	208 276	0.09	0.060	0.10	10580
569422 H	208 273	0.13	0.066	0.17	13040

CERTIFICATION: [signature]

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CERTIFICATE OF ANALYSIS A9318114

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569423 H	208	273	0.06	0.040	0.07	13600						
569424 H	208	273	0.06	0.075	0.10	13220						
569425 H	208	273	0.15	0.068	0.10	13440						
569426 H	208	273	0.13	0.079	0.14	13340						
569427 H	208	273	0.10	0.156	0.17	13160						
569428 H	208	273	0.15	0.174	0.17	13520						
569429 H	208	273	0.17	0.155	0.14	12280						

CERTIFICATION: A Christie

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 140
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. :I9318115
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318115

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569383 H	299	229	1.8	1.52	30	140	< 0.5	< 2	0.29	1.5	29	60	2350	4.16	< 10	< 1	0.56	20	1.15	265	158
569384 H	299	229	3.2	1.95	18	120	< 0.5	< 2	0.37	1.5	26	78	4900	4.52	10	< 1	0.83	30	1.38	325	261
569385 H	299	229	3.0	1.48	20	80	< 0.5	4	0.84	1.5	24	66	3840	3.82	10	< 1	0.61	20	1.06	355	329
569386 H	299	229	2.4	1.69	22	90	< 0.5	< 2	0.91	1.0	25	76	2260	4.48	10	< 1	0.64	40	0.99	485	161
569387 H	299	229	1.8	1.32	12	170	< 0.5	< 2	1.86	0.5	22	55	2110	3.54	10	< 1	0.53	30	0.91	345	155
569388 H	299	229	2.4	1.54	20	40	< 0.5	10	1.13	< 0.5	23	77	1525	6.54	10	< 1	0.43	40	0.52	300	158
569389 H	299	229	1.6	1.40	6	50	< 0.5	< 2	1.68	< 0.5	19	53	1235	3.68	10	< 1	0.49	70	0.48	280	291
569390 H	299	229	2.8	1.98	< 2	70	< 0.5	16	1.00	0.5	19	85	1785	4.23	10	< 1	0.55	60	0.76	245	252
569391 H	299	229	1.6	1.15	16	190	< 0.5	< 2	1.35	< 0.5	20	51	1255	3.60	10	< 1	0.39	30	0.66	295	251
569392 H	299	229	2.6	1.36	18	60	< 0.5	< 2	1.79	< 0.5	19	87	2130	3.22	10	< 1	0.42	60	0.55	355	181
569393 H	299	229	0.6	1.05	6	90	< 0.5	< 2	1.80	< 0.5	14	44	863	2.91	10	< 1	0.39	60	0.68	280	129
569394 H	299	229	2.2	1.39	26	80	< 0.5	8	1.63	0.5	30	79	1850	4.01	10	< 1	0.55	40	0.64	495	156
569395 H	299	229	1.2	1.04	14	60	< 0.5	< 2	1.65	< 0.5	31	48	1060	3.89	10	< 1	0.45	30	0.67	295	195
569396 H	299	229	3.6	1.50	26	80	< 0.5	< 2	1.53	< 0.5	13	91	2190	3.23	10	< 1	0.60	50	0.80	335	1150
569397 H	299	229	1.8	1.05	10	40	< 0.5	4	1.31	< 0.5	18	42	1550	3.92	10	< 1	0.42	30	0.59	420	282
569398 H	299	229	1.2	1.49	12	40	< 0.5	2	1.73	< 0.5	15	79	1135	3.69	10	< 1	0.47	40	0.65	490	254
569399 H	299	229	0.6	1.34	< 2	40	< 0.5	< 2	1.12	0.5	20	64	754	5.64	10	< 1	0.47	30	0.98	265	256
569400 H	299	229	0.8	1.55	< 2	70	< 0.5	< 2	1.22	< 0.5	18	87	1050	4.05	10	< 1	0.55	30	0.92	305	228
569401 H	299	229	0.6	1.57	< 2	50	< 0.5	4	1.13	0.5	18	73	1415	4.46	10	< 1	0.80	20	1.36	190	298
569402 H	299	229	0.6	1.41	16	100	< 0.5	4	2.26	8.0	15	98	619	3.29	10	< 1	0.58	20	1.03	185	168
569403 H	299	229	1.2	0.84	12	40	< 0.5	< 2	1.90	< 0.5	14	48	975	3.10	10	< 1	0.35	30	0.61	440	511
569404 H	299	229	0.4	1.43	< 2	150	< 0.5	< 2	1.82	< 0.5	11	124	404	2.55	10	< 1	0.51	40	0.75	205	276
569405 H	299	229	0.6	1.54	< 2	70	< 0.5	< 2	0.98	< 0.5	20	88	563	4.34	10	< 1	0.61	30	1.09	280	298
569406 H	299	229	0.6	1.75	14	90	< 0.5	4	1.27	< 0.5	22	113	632	4.08	10	< 1	0.66	30	1.09	280	238
569407 H	299	229	1.0	1.56	16	70	< 0.5	< 2	1.11	0.5	24	91	667	5.01	10	< 1	0.49	30	1.12	735	255
569408 H	299	229	1.4	2.07	14	120	< 0.5	< 2	1.19	< 0.5	21	111	1080	3.75	10	< 1	0.81	30	1.17	300	248
569409 H	299	229	0.4	1.43	6	80	< 0.5	< 2	0.85	< 0.5	21	90	526	4.01	10	< 1	0.54	20	1.04	175	187
569410 H	299	229	0.4	1.99	8	80	< 0.5	< 2	0.87	< 0.5	24	125	550	3.98	10	< 1	0.87	30	1.34	215	261
569411 H	299	229	0.4	1.52	16	100	< 0.5	< 2	0.82	< 0.5	12	80	347	2.30	10	< 1	0.69	20	1.20	180	243
569412 H	299	229	0.8	1.94	12	130	< 0.5	2	0.86	< 0.5	16	121	1160	4.07	10	< 1	0.79	20	1.38	220	220
569413 H	299	229	0.8	1.68	8	100	< 0.5	< 2	0.74	< 0.5	28	95	822	3.48	< 10	< 1	0.69	10	1.42	210	237
569414 H	299	229	0.6	1.70	6	150	< 0.5	< 2	0.57	< 0.5	12	111	609	2.26	< 10	< 1	0.76	20	1.19	175	247
569415 H	299	229	0.8	1.41	2	70	< 0.5	< 2	0.58	< 0.5	18	76	1045	4.01	< 10	< 1	0.53	10	1.09	190	277
569416 H	299	229	1.6	1.63	12	80	< 0.5	10	0.52	< 0.5	16	98	1370	4.52	< 10	< 1	0.61	10	1.09	185	258
569417 H	299	229	1.2	1.54	10	60	< 0.5	< 2	0.79	< 0.5	14	74	818	3.25	10	< 1	0.47	20	1.17	215	201
569418 H	299	229	1.2	1.69	2	100	< 0.5	16	1.84	< 0.5	12	97	874	2.88	10	< 1	0.57	30	0.89	230	171
569419 H	299	229	0.8	1.44	< 2	70	< 0.5	12	1.38	0.5	12	86	848	2.96	10	< 1	0.55	30	1.04	195	149
569420 H	299	229	1.4	1.46	16	130	< 0.5	14	2.41	< 0.5	16	91	708	3.51	10	< 1	0.56	30	0.76	260	378
569421 H	299	229	1.0	1.18	< 2	90	< 0.5	14	1.52	< 0.5	20	84	872	3.98	10	< 1	0.55	30	0.87	215	313
569422 H	299	229	2.6	1.64	12	90	< 0.5	20	1.88	< 0.5	15	113	1420	4.18	10	< 1	0.59	40	0.61	325	373

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 140
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. :19318115
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318115

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569383 H	299	229	0.02	18	710	86	2	3	20	0.02	< 10	< 10	46	20	92
569384 H	299	229	0.02	19	550	30	2	6	20	0.04	< 10	< 10	61	20	120
569385 H	299	229	0.01	17	550	12	2	3	24	0.03	< 10	< 10	41	10	108
569386 H	299	229	0.02	17	730	18	< 2	3	33	0.02	< 10	< 10	39	10	112
569387 H	299	229	0.01	15	730	8	4	3	58	0.02	< 10	< 10	36	10	52
569388 H	299	229	0.01	15	660	26	< 2	3	37	0.01	< 10	< 10	29	20	80
569389 H	299	229	0.01	12	800	4	2	3	40	0.01	< 10	< 10	30	10	62
569390 H	299	229	0.01	13	1010	6	< 2	2	39	0.01	< 10	< 10	23	10	70
569391 H	299	229	0.02	12	810	6	2	2	49	< 0.01	< 10	< 10	20	10	54
569392 H	299	229	0.01	12	750	14	< 2	2	57	< 0.01	< 10	< 10	18	< 10	40
569393 H	299	229	0.02	11	680	8	4	2	75	0.01	< 10	< 10	18	< 10	44
569394 H	299	229	0.01	13	640	8	4	2	49	< 0.01	< 10	< 10	19	10	62
569395 H	299	229	0.02	14	480	2	4	2	73	0.01	< 10	< 10	22	10	44
569396 H	299	229	0.02	9	330	18	8	3	81	0.02	< 10	< 10	31	10	56
569397 H	299	229	0.01	12	420	14	2	2	64	0.01	< 10	< 10	19	10	52
569398 H	299	229	0.02	12	390	16	2	2	80	0.01	< 10	< 10	20	10	42
569399 H	299	229	0.03	15	370	6	4	2	54	0.02	< 10	20	28	10	50
569400 H	299	229	0.04	14	320	12	4	4	70	0.03	< 10	< 10	32	10	56
569401 H	299	229	0.04	14	310	4	4	3	53	0.06	< 10	< 10	34	10	54
569402 H	299	229	0.05	13	550	110	2	4	114	0.04	< 10	< 10	39	10	254
569403 H	299	229	0.01	9	930	8	4	2	55	< 0.01	< 10	< 10	21	10	28
569404 H	299	229	0.05	12	940	8	2	3	67	0.01	< 10	< 10	30	10	30
569405 H	299	229	0.04	15	700	10	4	3	33	0.03	< 10	< 10	38	10	44
569406 H	299	229	0.06	16	1090	10	2	4	37	0.03	< 10	< 10	37	10	44
569407 H	299	229	0.04	18	1110	8	< 2	4	32	0.02	< 10	< 10	43	10	46
569408 H	299	229	0.05	14	500	< 2	< 2	4	42	0.03	< 10	< 10	42	10	42
569409 H	299	229	0.04	15	440	2	4	4	27	0.04	< 10	< 10	48	10	34
569410 H	299	229	0.09	15	640	4	2	4	33	0.07	< 10	< 10	45	10	38
569411 H	299	229	0.04	9	790	2	2	7	26	0.07	< 10	< 10	56	10	32
569412 H	299	229	0.11	12	830	8	2	6	40	0.08	< 10	< 10	69	10	40
569413 H	299	229	0.05	17	840	4	2	6	27	0.11	< 10	< 10	68	10	40
569414 H	299	229	0.09	12	530	10	< 2	4	34	0.11	< 10	< 10	58	10	36
569415 H	299	229	0.04	21	710	6	< 2	4	25	0.07	< 10	< 10	49	30	36
569416 H	299	229	0.06	21	610	4	< 2	4	25	0.06	< 10	< 10	65	20	36
569417 H	299	229	0.03	16	650	6	2	3	26	0.02	< 10	< 10	42	20	36
569418 H	299	229	0.04	12	710	12	< 2	4	37	0.01	< 10	< 10	35	10	32
569419 H	299	229	0.04	12	870	2	2	4	35	0.03	< 10	< 10	38	10	28
569420 H	299	229	0.02	15	740	12	6	3	59	0.01	< 10	< 10	31	10	30
569421 H	299	229	0.02	14	800	< 2	2	4	41	0.03	< 10	< 10	39	20	30
569422 H	299	229	0.01	15	600	16	4	4	28	0.01	< 10	< 10	38	10	36

CERTIFICATION: Bart Bichler

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CERTIFICATE OF ANALYSIS A9318115

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569423 H	299	229	1.2	1.96	< 2	200	< 0.5	10	1.42	< 0.5	12	76	617	2.90	10	< 1	0.66	40	1.13	195	240
569424 H	299	229	0.6	1.52	< 2	110	< 0.5	< 2	1.61	< 0.5	13	99	578	2.67	10	< 1	0.53	40	1.05	155	431
569425 H	299	229	2.0	1.53	< 2	120	< 0.5	14	1.52	< 0.5	12	84	1525	3.02	< 10	< 1	0.71	30	1.31	135	365
569426 H	299	229	1.6	1.49	14	140	< 0.5	6	1.84	< 0.5	12	112	1335	2.50	< 10	< 1	0.62	40	1.14	120	463
569427 H	299	229	1.2	0.99	12	90	< 0.5	4	1.83	< 0.5	10	77	927	2.11	< 10	< 1	0.46	30	0.85	95	905
569428 H	299	229	1.8	1.49	6	100	< 0.5	< 2	1.89	< 0.5	13	117	1545	3.54	10	< 1	0.70	20	1.13	140	967
569429 H	299	229	1.6	1.50	26	130	< 0.5	2	1.46	< 0.5	20	90	1655	3.80	< 10	< 1	0.73	20	1.33	140	882

CERTIFICATION: Stewart Buchlen

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CERTIFICATE OF ANALYSIS A9318115

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569423 H	299	229	0.02	10	560	6	4	8	63	0.05	< 10	< 10	54	10	34
569424 H	299	229	0.04	13	650	4	2	4	63	0.02	< 10	< 10	45	10	24
569425 H	299	229	0.03	13	510	8	4	5	84	0.06	< 10	< 10	56	10	24
569426 H	299	229	0.04	16	460	2	4	5	135	0.04	< 10	< 10	49	10	16
569427 H	299	229	0.02	9	550	< 2	8	3	144	0.03	< 10	< 10	34	10	12
569428 H	299	229	0.04	17	700	< 2	12	3	150	0.04	< 10	10	43	10	20
569429 H	299	229	0.03	19	620	4	4	5	98	0.08	< 10	< 10	57	10	20

CERTIFICATION: Ian Bichler

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Project : CASINO 93/141
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Certificate Date: 08-JUN-93
Invoice No. : I9315083
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315083

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570057	208	274	0.12	0.015	0.14	4660						
H570058	208	273	0.21	0.028	0.34	12450						
H570059	208	273	0.26	0.030	0.34	13000						
H570060	208	276	0.19	0.043	0.21	11700						
H570061	208	276	0.33	0.059	0.41	11600						
H570062	208	273	0.20	0.043	0.31	11900						
H570063	208	276	0.22	0.036	0.31	11760						
H570064	208	276	0.18	0.023	0.24	10600						
H570065	208	273	0.51	0.022	0.45	12940						
H570066	208	273	0.14	0.024	0.17	12400						
H570067	208	276	0.12	0.030	0.24	11200						
H570068	208	276	0.11	0.021	0.14	10700						
H570069	208	273	0.21	0.041	0.27	13080						
H570070	208	273	0.14	0.035	0.21	12280						
H570071	208	276	0.09	0.061	0.14	10940						
H570072	208	276	0.10	0.054	0.14	9980						
H570073	208	273	0.23	0.055	0.34	12080						
H570074	208	276	0.09	0.062	0.10	10600						
H570075	208	276	0.14	0.086	0.14	9000						
H570076	208	276	0.09	0.042	0.14	7960						
H570077	208	274	0.09	0.032	0.10	4060						
H570078	208	273	0.11	0.053	0.10	12460						
H570079	208	273	0.12	0.060	0.14	11900						
H570080	208	276	0.20	0.049	0.24	11680						
H570081	208	276	0.09	0.066	0.07	9680						
H570082	208	273	0.14	0.067	0.10	11880						
H570083	208	273	0.15	0.073	0.14	12040						
H570084	208	276	0.12	0.063	0.21	9480						
H570085	208	276	0.24	0.069	0.27	11480						
H570086	208	276	0.13	0.054	0.17	11680						
H570087	208	273	0.14	0.044	0.17	12680						
H570088	208	273	0.15	0.068	0.21	11900						
H570089	208	273	0.18	0.055	0.17	12560						
H570090	208	273	0.18	0.061	0.21	12440						
H570091	208	273	0.25	0.074	0.21	12140						
H570092	208	273	0.22	0.065	0.14	12320						
H570093	208	276	0.15	0.075	0.17	11400						
H570094	208	276	0.09	0.066	0.07	11140						
H570095	208	276	0.12	0.084	0.31	10860						
H570096	208	276	0.28	0.114	0.34	11700						

CERTIFICATION: J. Chatten

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Page N. :2
Total Pa. :3
Certificate Date: 08-JUN-93
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Account :FC

CERTIFICATE OF ANALYSIS A9315083

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H570097	208	273	0.29	0.129	0.38	13780
H570098	208	273	0.27	0.126	0.24	11920
H570099	208	274	0.12	0.067	0.17	6460
H570100	208	276	0.05	0.077	0.03	11560
H570101	208	273	0.06	0.064	0.07	12480
H570102	208	276	0.07	0.058	0.07	11540
H570103	208	276	0.17	0.059	0.10	9010
H570104	208	274	0.10	0.092	0.10	7060
H570105	208	276	0.09	0.035	0.10	10830
H570106	208	276	0.14	0.043	0.17	9100
H570107	208	276	0.08	0.020	0.07	11480
H570108	208	276	0.07	0.023	0.14	11430
H570109	208	273	0.04	0.016	0.03	13830
H570110	208	273	0.13	0.037	0.14	13600
H570111	208	273	0.15	0.027	0.10	12610
H570112	208	273	0.07	0.024	0.03	12700
H570113	208	276	0.09	0.129	0.07	11110
H570114	208	273	0.14	0.106	0.10	13100
H570115	208	273	0.07	0.037	< 0.03	13900
H570116	208	273	0.06	0.051	0.03	12980
H570117	208	273	0.24	0.040	0.31	12880
H570118	208	273	0.14	0.041	0.14	12920
H570119	208	273	0.07	0.038	0.03	12200
H570120	208	273	0.21	0.060	0.24	13810
H570121	208	273	0.15	0.072	0.21	13380
H570122	208	273	0.05	0.019	< 0.03	13800
H570123	208	273	0.08	0.009	< 0.03	13030
H570124	208	273	0.05	0.012	< 0.03	13730
H570125	208	273	0.06	0.043	< 0.03	14200
H570126	208	273	0.10	0.046	0.10	13810
H570127	208	276	0.12	0.061	0.14	11600
H570128	208	273	0.05	0.011	< 0.03	13380
H570129	208	273	0.07	0.018	< 0.03	13450
H570130	208	273	0.11	0.021	< 0.03	14080
H570131	208	273	0.11	0.029	0.10	14130
H570132	208	273	0.03	0.035	< 0.03	13750
H570133	208	273	0.01	0.004	< 0.03	13330
H570134	208	273	0.01	0.005	< 0.03	13930
H570135	208	273	0.01	0.004	< 0.03	13200
H570136	208	273	0.01	0.006	< 0.03	12940

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/141
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-JUN-93
Invoice No. : I9315083
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315083

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H570137	208 273	0.01	0.007	< 0.03	13830
H570138	208 273	0.01	0.023	< 0.03	14050
H570139	208 273	0.04	0.038	< 0.03	13710
H570140	208 273	0.06	0.023	0.03	14000
H570141	208 273	0.04	0.018	0.07	13010
H570142	208 273	0.06	0.029	0.07	13200

CERTIFICATION: A Christie

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Y1A 3S9

Project : CASINO 93/141
Comments: CC: PACIFIC SENTINEL GOLD CORP.

CERTIFICATE OF ANALYSIS A9315084

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570057	299	229	1.0	1.01	24	120	< 0.5	2	1.04	< 0.5	17	51	1180	4.44	< 10	< 1	0.60	10	0.80	210	89
H570058	299	229	1.8	0.91	38	140	< 0.5	6	1.88	< 0.5	18	66	2140	4.71	< 10	< 1	0.49	10	1.05	225	174
H570059	299	229	52.4	1.05	112	30	< 0.5	90	1.27	13.0	15	50	2630	5.64	< 10	< 1	0.59	10	0.73	475	176
H570060	299	229	2.0	1.58	20	120	< 0.5	6	1.82	< 0.5	17	65	1885	3.85	< 10	< 1	0.76	20	0.79	255	259
H570061	299	229	4.0	1.52	68	80	< 0.5	14	2.45	0.5	22	60	4190	5.32	< 10	< 1	1.00	20	0.89	225	343
H570062	299	229	1.4	1.58	34	90	< 0.5	4	1.80	< 0.5	23	65	1900	5.24	< 10	< 1	0.75	20	0.85	175	252
H570063	299	229	2.8	0.74	88	60	< 0.5	20	1.84	0.5	23	49	2260	6.62	< 10	< 1	0.39	20	0.90	410	211
H570064	299	229	1.8	0.84	34	40	< 0.5	< 2	1.21	< 0.5	16	52	1820	5.62	< 10	< 1	0.40	10	0.67	240	139
H570065	299	229	5.0	0.89	18	30	< 0.5	26	1.52	< 0.5	29	37	4810	6.59	< 10	< 1	0.45	20	0.57	135	121
H570066	299	229	1.2	1.40	< 2	130	< 0.5	4	1.53	< 0.5	11	64	1360	4.78	< 10	< 1	0.73	20	0.93	160	147
H570067	299	229	0.8	1.15	22	130	< 0.5	< 2	1.96	< 0.5	13	47	1065	2.72	< 10	< 1	0.69	30	0.84	140	178
H570068	299	229	0.6	0.78	24	190	< 0.5	< 2	2.34	< 0.5	8	56	1020	4.28	< 10	< 1	0.28	10	1.40	485	121
H570069	299	229	1.4	0.65	36	130	< 0.5	< 2	1.60	< 0.5	11	51	2060	4.79	< 10	1	0.28	20	0.80	265	225
H570070	299	229	3.8	0.81	40	140	< 0.5	6	2.63	0.5	8	51	1355	3.93	< 10	< 1	0.32	10	1.36	570	194
H570071	299	229	0.8	0.67	26	150	< 0.5	2	1.80	< 0.5	10	68	826	3.98	< 10	< 1	0.28	10	1.01	485	384
H570072	299	229	0.6	0.86	4	140	< 0.5	6	1.43	< 0.5	10	72	929	3.36	< 10	< 1	0.45	20	0.70	160	307
H570073	299	229	2.0	0.50	42	60	< 0.5	8	1.70	< 0.5	20	66	2220	4.38	< 10	< 1	0.29	10	0.99	260	322
H570074	299	229	0.6	1.40	< 2	80	< 0.5	6	0.61	< 0.5	14	88	819	4.33	< 10	< 1	0.97	20	1.26	170	346
H570075	299	229	0.8	1.12	8	90	< 0.5	2	1.76	< 0.5	12	70	1310	4.57	< 10	< 1	0.60	20	1.40	265	509
H570076	299	229	0.6	0.95	2	90	< 0.5	< 2	0.77	< 0.5	14	117	834	4.53	< 10	< 1	0.55	20	0.76	150	259
H570077	299	229	0.4	1.40	< 2	80	< 0.5	4	0.78	< 0.5	11	78	842	4.69	10	< 1	0.73	20	1.07	145	193
H570078	299	229	0.6	1.21	4	80	< 0.5	2	1.64	< 0.5	11	68	1005	4.43	< 10	< 1	0.60	10	0.81	160	283
H570079	299	229	0.8	0.78	24	60	< 0.5	6	2.13	< 0.5	14	81	1140	5.16	< 10	< 1	0.40	10	0.79	230	325
H570080	299	229	1.4	2.25	24	180	< 0.5	8	2.02	< 0.5	15	53	1870	3.78	10	< 1	0.89	20	1.23	285	273
H570081	299	229	0.6	1.31	18	60	< 0.5	2	3.44	< 0.5	11	68	766	3.01	< 10	< 1	0.44	20	0.61	565	354
H570082	299	229	1.2	1.51	< 2	140	< 0.5	6	1.29	< 0.5	10	52	1275	3.77	< 10	< 1	0.71	20	1.01	175	388
H570083	299	229	1.0	1.73	6	170	< 0.5	6	1.23	< 0.5	10	82	1385	5.06	10	< 1	0.68	20	0.94	135	415
H570084	299	229	0.6	2.11	< 2	90	< 0.5	2	1.11	< 0.5	12	67	1060	4.72	10	< 1	0.75	20	1.19	145	339
H570085	299	229	1.8	1.60	14	70	< 0.5	< 2	1.19	< 0.5	16	66	2270	4.78	< 10	< 1	0.60	30	0.86	205	394
H570086	299	229	0.6	1.06	6	190	< 0.5	< 2	1.32	< 0.5	14	81	1135	3.26	< 10	< 1	0.52	20	0.68	150	296
H570087	299	229	0.8	1.42	8	100	< 0.5	< 2	0.72	< 0.5	17	96	1305	5.04	< 10	< 1	0.87	20	1.17	140	237
H570088	299	229	0.8	1.04	12	80	< 0.5	< 2	0.88	< 0.5	11	104	1410	4.16	< 10	< 1	0.61	20	0.95	155	392
H570089	299	229	1.8	1.06	40	70	< 0.5	16	1.72	< 0.5	21	82	1670	4.45	< 10	< 1	0.49	20	0.90	200	301
H570090	299	229	2.4	0.67	56	60	< 0.5	36	2.06	< 0.5	39	69	1795	5.73	< 10	< 1	0.25	10	1.04	290	357
H570091	299	229	3.0	0.49	94	30	< 0.5	24	1.56	< 0.5	65	66	2390	5.09	< 10	< 1	0.18	10	0.80	435	433
H570092	299	229	2.0	1.11	46	60	< 0.5	10	1.93	< 0.5	17	57	2000	4.46	< 10	< 1	0.54	10	1.16	270	377
H570093	299	229	1.0	1.15	6	70	< 0.5	6	0.63	< 0.5	18	76	1385	4.66	< 10	< 1	0.88	10	1.27	135	425
H570094	299	229	1.6	0.91	26	90	< 0.5	6	0.81	< 0.5	14	84	897	5.79	< 10	< 1	0.63	10	1.02	800	393
H570095	299	229	0.6	1.15	< 2	80	< 0.5	2	0.53	< 0.5	15	105	1135	6.47	10	< 1	0.76	10	1.09	155	487
H570096	299	229	2.0	1.45	4	90	< 0.5	< 2	0.95	< 0.5	18	88	2690	4.85	10	< 1	0.75	20	1.04	150	632

CERTIFICATION: Ian Bristow

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Project : CASINO 93/141
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Total Pages :3
Certificate Date: 08-JUN-93
Invoice No. :19315084
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315084

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B570057	299	229	0.01	11	370	8	< 2	3	24	0.03	< 10	< 10	40	10	36
B570058	299	229	0.01	12	480	6	2	4	28	0.01	< 10	< 10	49	< 10	38
B570059	299	229	0.01	10	480	390	140	2	26	0.02	< 10	< 10	27	< 10	346
B570060	299	229	0.01	12	620	8	2	5	30	0.04	< 10	< 10	42	10	40
B570061	299	229	0.01	13	420	8	4	4	22	0.07	< 10	< 10	49	< 10	40
B570062	299	229	0.01	14	530	4	2	4	24	0.04	< 10	< 10	49	10	32
B570063	299	229	0.01	12	560	4	18	3	21	0.01	< 10	< 10	34	10	30
B570064	299	229	0.01	11	430	2	10	4	27	0.01	< 10	< 10	42	10	28
B570065	299	229	0.01	14	540	16	2	3	24	0.01	< 10	< 10	26	< 10	26
B570066	299	229	0.01	10	410	4	2	4	32	0.04	< 10	< 10	46	10	30
B570067	299	229	0.01	9	720	6	2	4	28	0.04	< 10	< 10	30	10	22
B570068	299	229	0.01	10	350	4	2	3	39	< 0.01	< 10	< 10	31	10	24
B570069	299	229	0.01	12	370	4	4	5	24	< 0.01	< 10	< 10	50	10	30
B570070	299	229	0.01	10	330	28	4	4	40	< 0.01	< 10	< 10	34	10	52
B570071	299	229	0.01	10	310	8	4	3	30	< 0.01	< 10	< 10	34	10	20
B570072	299	229	0.01	9	430	4	2	3	26	0.01	< 10	< 10	29	10	18
B570073	299	229	0.01	11	330	6	2	3	26	< 0.01	< 10	< 10	31	10	22
B570074	299	229	0.03	12	380	10	4	9	19	0.10	< 10	< 10	72	10	26
B570075	299	229	0.02	13	550	4	2	8	30	0.05	< 10	< 10	66	20	28
B570076	299	229	0.02	11	400	4	2	4	23	0.03	< 10	< 10	48	10	22
B570077	299	229	0.03	12	480	4	2	7	20	0.07	< 10	< 10	70	10	22
B570078	299	229	0.02	10	490	< 2	2	4	27	0.04	< 10	< 10	53	10	18
B570079	299	229	0.01	11	380	< 2	6	4	31	0.01	< 10	< 10	36	20	22
B570080	299	229	0.01	12	750	10	4	9	49	0.09	< 10	< 10	66	10	34
B570081	299	229	0.01	8	390	8	6	5	27	0.02	< 10	< 10	38	10	22
B570082	299	229	0.01	9	370	< 2	2	5	48	0.06	< 10	< 10	43	10	18
B570083	299	229	0.02	13	410	4	2	5	60	0.05	< 10	< 10	57	10	16
B570084	299	229	0.01	10	450	4	< 2	5	44	0.05	< 10	< 10	51	20	20
B570085	299	229	0.01	12	520	4	4	5	29	0.03	< 10	< 10	53	10	26
B570086	299	229	0.01	10	320	4	2	6	27	0.04	< 10	< 10	44	< 10	20
B570087	299	229	0.03	14	450	10	< 2	9	21	0.10	< 10	< 10	82	10	22
B570088	299	229	0.02	13	440	4	4	8	19	0.07	< 10	< 10	62	10	22
B570089	299	229	0.01	12	580	4	4	7	32	0.03	< 10	< 10	50	10	22
B570090	299	229	0.01	13	420	16	8	10	21	0.01	< 10	< 10	64	20	28
B570091	299	229	0.01	19	400	6	14	4	21	< 0.01	< 10	< 10	34	10	40
B570092	299	229	0.02	12	490	16	2	8	33	0.03	< 10	< 10	51	20	28
B570093	299	229	0.02	13	640	4	4	7	18	0.08	< 10	< 10	63	10	20
B570094	299	229	0.02	14	560	8	2	6	21	0.06	< 10	< 10	68	10	22
B570095	299	229	0.03	10	590	4	4	6	18	0.08	< 10	< 10	65	10	24
B570096	299	229	0.03	13	620	4	4	6	25	0.07	< 10	< 10	56	10	22

CERTIFICATION: Stewart Bichler

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Page Nu :2-A
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CERTIFICATE OF ANALYSIS A9315084

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B570097	299	229	3.8	1.14	12	50	< 0.5	12	1.53	< 0.5	20	89	3010	6.92	< 10	< 1	0.58	10	0.81	495	784
B570098	299	229	2.0	1.10	18	160	< 0.5	6	1.84	< 0.5	16	62	2510	4.21	< 10	< 1	0.54	20	0.86	200	723
B570099	299	229	7.0	0.75	172	40	< 0.5	8	1.03	10.0	13	42	1240	6.19	< 10	< 1	0.44	10	0.84	640	403
B570100	299	229	0.4	1.21	4	80	< 0.5	< 2	0.58	< 0.5	9	102	497	4.95	10	< 1	0.61	20	1.06	145	470
B570101	299	229	0.6	1.16	12	140	< 0.5	2	1.16	< 0.5	13	78	602	4.98	< 10	< 1	0.58	10	0.96	420	398
B570102	299	229	1.2	0.99	8	100	< 0.5	4	1.67	< 0.5	11	64	633	4.38	< 10	< 1	0.48	10	0.72	330	311
B570103	299	229	1.6	1.08	40	50	< 0.5	22	2.07	< 0.5	14	56	1545	4.63	< 10	< 1	0.44	20	0.99	205	351
B570104	299	229	0.6	1.09	8	190	< 0.5	< 2	1.79	< 0.5	11	80	872	3.67	< 10	< 1	0.47	20	0.96	170	529
B570105	299	229	0.6	1.29	2	130	< 0.5	8	0.55	< 0.5	9	82	811	3.87	< 10	< 1	0.87	20	1.06	190	205
B570106	299	229	0.8	1.29	< 2	90	< 0.5	8	0.50	< 0.5	9	88	1285	4.91	10	< 1	0.76	30	1.02	180	266
B570107	299	229	0.4	1.38	< 2	110	< 0.5	4	0.50	< 0.5	9	81	736	4.78	10	< 1	0.86	30	1.18	155	126
B570108	299	229	0.8	1.15	6	90	< 0.5	12	1.35	0.5	9	94	683	5.82	< 10	< 1	0.69	10	1.04	225	129
B570109	299	229	< 0.2	1.34	< 2	110	< 0.5	4	1.99	< 0.5	8	79	418	5.57	10	< 1	0.74	20	1.05	135	78
B570110	299	229	0.6	1.36	< 2	80	< 0.5	8	2.67	< 0.5	9	93	1185	4.40	10	< 1	0.82	20	1.03	130	196
B570111	299	229	0.8	1.26	< 2	70	< 0.5	4	2.63	< 0.5	8	77	1280	3.27	10	< 1	0.78	20	1.00	110	143
B570112	299	229	0.2	0.83	4	80	< 0.5	< 2	1.75	< 0.5	8	87	656	4.70	< 10	< 1	0.58	10	0.77	95	126
B570113	299	229	0.6	1.04	8	80	< 0.5	6	2.73	< 0.5	11	58	881	3.38	< 10	< 1	0.74	20	0.81	95	737
B570114	299	229	0.8	0.99	18	100	< 0.5	< 2	2.22	< 0.5	10	84	1315	3.34	< 10	< 1	0.69	10	0.83	90	599
B570115	299	229	0.4	0.86	8	70	< 0.5	< 2	2.05	< 0.5	7	63	663	4.15	< 10	< 1	0.56	10	0.74	120	196
B570116	299	229	0.2	0.99	6	80	< 0.5	< 2	2.12	< 0.5	5	112	543	3.49	< 10	< 1	0.67	20	0.95	110	289
B570117	299	229	1.8	0.84	42	90	< 0.5	10	1.92	< 0.5	9	88	2180	3.06	< 10	< 1	0.53	10	0.85	140	235
B570118	299	229	0.6	0.66	< 2	40	< 0.5	4	1.75	< 0.5	7	73	1200	3.41	< 10	< 1	0.48	10	0.66	75	211
B570119	299	229	0.4	0.81	6	100	< 0.5	2	1.87	0.5	5	93	592	3.45	< 10	< 1	0.50	10	0.81	140	203
B570120	299	229	1.2	0.78	< 2	50	< 0.5	4	1.85	< 0.5	7	69	1875	3.39	< 10	< 1	0.51	20	0.85	100	326
B570121	299	229	1.0	0.96	< 2	60	< 0.5	2	1.81	< 0.5	6	79	1335	3.51	< 10	< 1	0.60	10	0.95	105	429
B570122	299	229	0.2	0.67	< 2	50	< 0.5	2	1.37	< 0.5	5	56	419	4.32	10	< 1	0.39	10	0.66	85	102
B570123	299	229	0.2	0.80	< 2	70	< 0.5	2	0.97	< 0.5	8	114	711	5.06	< 10	< 1	0.51	10	0.79	90	45
B570124	299	229	0.2	0.84	< 2	70	< 0.5	2	1.17	< 0.5	8	85	482	4.84	< 10	< 1	0.56	10	0.78	90	59
B570125	299	229	0.4	0.88	8	70	< 0.5	2	1.69	< 0.5	8	96	609	4.78	< 10	< 1	0.56	10	0.90	125	236
B570126	299	229	0.4	1.04	< 2	80	< 0.5	< 2	1.27	< 0.5	6	90	958	5.05	10	< 1	0.64	10	0.86	110	246
B570127	299	229	0.8	1.09	< 2	60	< 0.5	6	3.67	< 0.5	8	75	1075	4.78	< 10	< 1	0.50	10	0.84	125	341
B570128	299	229	0.6	0.60	8	60	< 0.5	6	2.16	0.5	7	71	505	5.06	< 10	< 1	0.29	< 10	0.56	260	61
B570129	299	229	0.4	0.56	4	40	< 0.5	4	1.42	< 0.5	7	86	679	5.06	< 10	< 1	0.37	< 10	0.52	80	91
B570130	299	229	0.4	1.28	2	130	< 0.5	2	1.70	< 0.5	8	80	938	3.57	10	< 1	0.84	10	1.19	105	106
B570131	299	229	0.6	1.54	< 2	160	< 0.5	< 2	1.93	< 0.5	9	92	990	3.05	10	< 1	0.92	20	1.29	135	169
B570132	299	229	< 0.2	1.32	< 2	80	< 0.5	4	2.38	< 0.5	7	64	248	4.22	10	< 1	0.91	10	1.20	115	201
B570133	299	229	< 0.2	1.35	< 2	80	< 0.5	2	2.31	< 0.5	6	79	90	3.19	10	< 1	0.91	10	1.12	115	16
B570134	299	229	< 0.2	1.59	< 2	90	< 0.5	< 2	2.40	< 0.5	6	67	92	2.28	10	1	1.09	20	1.32	145	21
B570135	299	229	< 0.2	1.26	< 2	80	< 0.5	4	2.36	< 0.5	6	92	74	2.53	10	< 1	0.73	20	1.10	105	15
B570136	299	229	0.6	0.81	22	40	< 0.5	2	3.53	1.0	7	67	90	4.27	< 10	< 1	0.33	10	1.60	495	29

CERTIFICATION: Ian Bridler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/141
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-JUN-93
Invoice No. :19315084
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315084

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570097	299	229	0.01	16	790	10	6	4	27	0.03	< 10	< 10	49	< 10	22
H570098	299	229	0.02	13	880	4	12	4	31	0.04	< 10	< 10	40	< 10	26
H570099	299	229	0.01	11	590	362	72	4	24	0.03	< 10	< 10	44	< 10	444
H570100	299	229	0.03	13	600	4	4	5	20	0.06	< 10	< 10	59	< 10	26
H570101	299	229	0.02	11	600	4	2	4	29	0.03	< 10	< 10	45	< 10	24
H570102	299	229	0.01	10	600	4	2	3	26	0.02	< 10	< 10	36	< 10	22
H570103	299	229	0.01	14	700	6	8	5	34	0.01	< 10	< 10	47	< 10	28
H570104	299	229	0.01	9	600	6	4	4	33	0.02	< 10	< 10	36	< 10	22
H570105	299	229	0.03	11	480	8	2	7	20	0.08	< 10	< 10	67	< 10	26
H570106	299	229	0.03	11	550	44	2	5	17	0.07	< 10	< 10	60	< 10	24
H570107	299	229	0.04	12	600	8	2	7	20	0.09	< 10	< 10	67	< 10	22
H570108	299	229	0.02	11	530	14	2	6	72	0.06	< 10	< 10	53	< 10	56
H570109	299	229	0.03	13	520	2	< 2	6	230	0.06	< 10	< 10	66	< 10	18
H570110	299	229	0.03	10	490	2	2	5	226	0.07	< 10	< 10	55	< 10	20
H570111	299	229	0.03	11	430	4	2	6	214	0.08	< 10	< 10	57	< 10	26
H570112	299	229	0.02	11	330	2	2	4	288	0.05	< 10	< 10	48	< 10	12
H570113	299	229	0.02	10	530	< 2	4	4	323	0.07	< 10	< 10	40	< 10	16
H570114	299	229	0.02	11	330	< 2	4	4	1025	0.06	< 10	< 10	37	< 10	16
H570115	299	229	0.02	11	400	< 2	< 2	4	199	0.04	< 10	< 10	39	< 10	12
H570116	299	229	0.03	11	480	2	4	6	187	0.08	< 10	< 10	57	< 10	18
H570117	299	229	0.02	12	450	10	2	4	178	0.04	< 10	< 10	39	< 10	18
H570118	299	229	0.02	9	320	< 2	2	4	150	0.04	< 10	< 10	37	< 10	8
H570119	299	229	0.02	9	460	12	< 2	4	707	0.04	< 10	< 10	35	< 10	28
H570120	299	229	0.03	10	470	< 2	2	5	126	0.06	< 10	< 10	45	< 10	14
H570121	299	229	0.03	10	540	2	2	6	166	0.08	< 10	< 10	54	< 10	16
H570122	299	229	0.02	9	390	2	< 2	4	176	0.03	< 10	< 10	39	< 10	12
H570123	299	229	0.03	13	400	< 2	< 2	4	115	0.05	< 10	< 10	53	< 10	10
H570124	299	229	0.03	11	460	4	2	4	163	0.05	< 10	< 10	41	< 10	8
H570125	299	229	0.02	13	450	6	< 2	4	179	0.05	< 10	< 10	39	< 10	12
H570126	299	229	0.03	13	390	2	< 2	6	80	0.06	< 10	< 10	51	< 10	12
H570127	299	229	0.02	11	480	6	2	4	115	0.03	< 10	< 10	49	< 10	12
H570128	299	229	0.01	10	430	16	< 2	3	98	0.01	< 10	< 10	36	< 10	18
H570129	299	229	0.02	10	270	2	< 2	3	102	0.02	< 10	< 10	35	< 10	10
H570130	299	229	0.03	14	560	< 2	< 2	5	196	0.08	< 10	< 10	45	< 10	12
H570131	299	229	0.04	13	710	< 2	< 2	6	151	0.09	< 10	< 10	50	< 10	16
H570132	299	229	0.03	12	520	4	2	5	175	0.09	< 10	< 10	49	< 10	14
H570133	299	229	0.03	11	560	< 2	< 2	5	170	0.08	< 10	< 10	44	< 10	14
H570134	299	229	0.04	10	580	< 2	< 2	6	180	0.11	< 10	< 10	47	< 10	20
H570135	299	229	0.04	11	690	4	< 2	6	230	0.07	< 10	< 10	45	< 10	12
H570136	299	229	0.02	10	590	44	4	4	149	< 0.01	< 10	< 10	31	< 10	32

CERTIFICATION: Ian Bichler

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Project : CASINO 93/141
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu :3-A
Total Pa :3
Certificate Date: 08-JUN-93
Invoice No. :19315084
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315084

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570137	299	229	< 0.2	1.35	2	70	< 0.5	< 2	2.57	< 0.5	4	97	52	1.46	10	< 1	0.63	30	1.27	80	30
H570138	299	229	0.2	1.91	< 2	190	< 0.5	< 2	1.57	< 0.5	8	109	128	2.87	10	< 1	0.95	10	1.50	140	119
H570139	299	229	0.4	1.71	< 2	190	< 0.5	2	1.71	< 0.5	11	73	343	2.99	< 10	< 1	0.87	10	1.45	130	209
H570140	299	229	0.6	1.72	< 2	210	< 0.5	< 2	1.41	< 0.5	12	76	522	3.19	< 10	< 1	1.00	< 10	1.49	130	121
H570141	299	229	0.4	1.62	6	190	< 0.5	2	1.47	< 0.5	9	68	393	2.73	< 10	< 1	0.87	< 10	1.42	110	93
H570142	299	229	0.6	1.67	< 2	220	< 0.5	2	1.32	< 0.5	11	86	582	3.07	< 10	< 1	0.93	< 10	1.43	120	162

CERTIFICATION: Hugh Bidder

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Project : CASINO 93/141
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CERTIFICATE OF ANALYSIS A9315084

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570137	299	229	0.05	10	630	6	2	6	234	0.06	< 10	< 10	41	10	8
H570138	299	229	0.08	15	890	6	2	7	117	0.13	< 10	< 10	69	10	14
H570139	299	229	0.06	13	790	8	2	6	112	0.14	< 10	< 10	62	10	16
H570140	299	229	0.06	15	770	< 2	2	7	100	0.15	< 10	< 10	62	10	14
H570141	299	229	0.05	12	780	2	< 2	7	119	0.14	< 10	< 10	61	10	14
H570142	299	229	0.06	14	790	< 2	2	7	95	0.16	< 10	< 10	63	10	16

CERTIFICATION: Stewart Bichler

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Project : CASINO 142
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. :I9320377
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320377

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566429H	208 276	0.11	0.016	0.21	9800
566430H	208 274	0.11	0.014	0.24	5240
566431H	208 273	0.15	0.068	0.31	12840
566432H	208 273	0.09	0.064	0.17	13180
566433H	208 273	0.13	0.068	0.24	11940
566434H	208 273	0.13	0.058	0.21	14820
566435H	208 273	0.15	0.035	0.21	11880
566436H	208 276	0.15	0.023	0.17	11100
566437H	208 274	0.09	0.010	0.14	6080
566438H	208 276	0.09	0.012	0.14	11700
566439H	208 273	0.16	0.030	0.38	12540
566440H	208 273	0.10	0.050	0.14	11920
566441H	208 273	0.08	0.048	0.27	13480
566442H	208 273	0.11	0.139	0.10	12100
566443H	208 273	0.08	0.023	0.17	13440
566444H	208 273	0.22	0.056	0.58	12580
566445H	208 274	0.12	0.017	0.17	2840
566446H	208 276	0.06	0.026	0.17	11200
566447H	208 276	0.12	0.010	0.58	10540
566448H	208 276	0.24	0.046	1.65	10420
566449H	208 273	0.16	0.035	0.17	12100
566450H	208 274	0.15	0.038	0.24	4040
566451H	208 273	0.06	0.014	0.14	12900
566452H	208 273	0.05	0.010	0.10	12680
566453H	208 276	0.09	0.026	0.24	11540
566454H	208 273	0.05	0.021	0.10	12540
566455H	208 276	0.04	0.027	0.07	9060
566456H	208 273	0.03	0.016	0.07	13620
566457H	208 276	0.05	0.041	0.21	11500
566458H	208 276	0.02	0.017	0.07	8180
566459H	208 274	0.02	0.071	0.07	6260
566460H	208 276	0.01	0.086	< 0.03	8300
566461H	208 276	0.03	0.018	< 0.03	10960
566462H	208 274	0.07	0.072	0.14	5860
566463H	208 273	0.04	0.011	0.10	12540
566464H	208 276	0.10	0.018	0.10	11060
566465H	208 274	0.13	0.036	0.31	4680
566466H	208 276	0.10	0.021	0.17	11200
566467H	208 273	0.15	0.023	0.10	12080
566468H	208 273	0.07	0.012	0.07	12900

CERTIFICATION: A Christie

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Project : CASINO 142
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. : 19320377
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320377

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
566469H	208	273	0.07	0.018	0.07	12880
566470H	208	273	0.06	0.009	0.14	12320
566471H	208	273	0.03	0.010	0.10	15300
566472H	208	273	0.06	0.016	0.14	12600
566473H	208	273	0.22	0.055	0.27	12680
566474H	208	273	0.12	0.040	0.14	13020
566475H	208	273	0.12	0.019	0.14	12900
566476H	208	276	0.06	0.016	0.10	10060
566477H	208	276	0.04	0.008	0.03	11200
566478H	208	274	0.02	0.005	< 0.03	4480
566479H	208	276	0.04	0.006	< 0.03	7960
566480H	208	276	0.03	0.014	< 0.03	8820
566481H	208	276	0.08	0.015	0.03	9820
566482H	208	276	0.12	0.026	0.10	10600
566483H	208	273	0.04	0.006	< 0.03	12160
566484H	208	274	0.04	0.009	< 0.03	5020
566485H	208	276	0.03	0.070	< 0.03	7900

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Total Pag :2
Certificate Date: 07-SEP-93
Invoice No. :I9320378
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Account :FC

CERTIFICATE OF ANALYSIS A9320378

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566429H	299	229	1.2	1.39	2	130	0.5	< 2	1.24	< 0.5	7	154	1055	3.07	< 10	< 1	0.64	20	0.70	155	85
566430H	299	229	1.4	1.43	< 2	140	0.5	< 2	0.95	< 0.5	8	104	1155	4.17	< 10	< 1	0.64	30	0.73	120	81
566431H	299	229	1.4	2.03	< 2	200	0.5	< 2	0.94	< 0.5	10	112	1505	3.29	< 10	< 1	1.18	30	1.32	170	370
566432H	299	229	1.4	1.67	< 2	140	0.5	< 2	1.15	< 0.5	8	93	981	2.92	< 10	< 1	0.75	30	0.98	140	358
566433H	299	229	1.6	1.94	< 2	120	0.5	< 2	0.97	< 0.5	9	205	1300	4.24	< 10	< 1	1.04	20	1.38	170	366
566434H	299	229	1.6	1.46	2	100	0.5	< 2	1.50	< 0.5	8	102	1240	2.67	< 10	< 1	0.60	20	0.83	135	309
566435H	299	229	1.6	1.73	2	140	0.5	< 2	0.90	< 0.5	8	188	1485	3.49	< 10	< 1	0.86	20	1.00	145	185
566436H	299	229	2.2	1.34	4	100	0.5	2	1.03	< 0.5	10	118	1440	3.76	< 10	< 1	0.54	20	0.68	150	117
566437H	299	229	1.4	0.96	18	80	0.5	< 2	1.37	< 0.5	11	160	955	4.55	< 10	< 1	0.36	20	0.31	500	50
566438H	299	229	1.8	0.98	60	100	0.5	2	1.78	< 0.5	9	107	932	4.84	< 10	< 1	0.34	10	0.64	605	62
566439H	299	229	1.4	0.95	24	220	< 0.5	< 2	2.12	< 0.5	12	123	1625	3.20	< 10	< 1	0.39	20	0.58	300	166
566440H	299	229	0.8	1.19	14	260	0.5	2	1.32	< 0.5	7	138	1025	2.87	< 10	< 1	0.39	30	0.40	220	291
566441H	299	229	1.4	1.61	90	140	0.5	< 2	2.01	< 0.5	9	164	810	4.33	10	< 1	0.57	20	0.87	785	259
566442H	299	229	0.8	0.96	56	170	0.5	2	4.79	1.0	11	100	1105	3.45	< 10	< 1	0.27	20	1.09	585	729
566443H	299	229	0.8	0.82	76	40	< 0.5	2	5.68	1.0	8	140	789	4.43	10	1	0.21	80	1.88	815	116
566444H	299	229	1.8	1.04	16	50	0.5	< 2	1.45	0.5	13	93	2250	4.46	< 10	< 1	0.21	20	0.60	370	319
566445H	299	229	0.8	1.30	18	90	0.5	< 2	2.25	2.0	10	94	1190	3.89	< 10	< 1	0.17	10	0.60	515	91
566446H	299	229	0.8	0.72	82	90	< 0.5	4	2.98	< 0.5	9	70	577	3.64	< 10	< 1	0.18	20	1.22	1675	139
566447H	299	229	10.6	1.34	216	250	0.5	< 2	1.79	2.5	10	97	1235	4.77	< 10	1	0.35	20	0.85	1085	52
566448H	299	229	8.8	0.88	820	80	0.5	< 2	3.77	2.0	15	71	2400	4.23	< 10	< 1	0.16	20	1.63	3290	230
566449H	299	229	1.0	1.69	2	120	0.5	< 2	0.95	0.5	11	137	1585	4.35	< 10	< 1	0.51	20	0.71	295	175
566450H	299	229	1.2	1.52	< 2	130	0.5	< 2	1.51	< 0.5	11	81	1495	3.65	< 10	< 1	0.72	20	0.88	265	201
566451H	299	229	0.6	2.50	4	180	1.0	< 2	1.95	< 0.5	12	96	631	4.83	< 10	1	1.09	20	1.51	430	69
566452H	299	229	0.6	1.28	8	110	0.5	6	1.55	< 0.5	4	110	449	3.61	< 10	< 1	0.48	20	0.61	355	60
566453H	299	229	0.6	1.63	< 2	470	0.5	< 2	1.16	< 0.5	9	125	856	3.80	< 10	< 1	0.63	30	0.76	175	145
566454H	299	229	0.4	1.85	< 2	310	0.5	< 2	1.49	< 0.5	8	98	503	4.58	10	< 1	0.78	20	1.02	265	114
566455H	299	229	4.8	1.27	28	70	0.5	< 2	2.49	40.5	10	101	409	8.13	10	1	0.48	10	0.62	420	131
566456H	299	229	0.6	1.64	< 2	300	0.5	< 2	1.58	0.5	7	164	329	5.01	10	< 1	0.66	20	1.07	270	90
566457H	299	229	0.2	1.65	< 2	110	0.5	< 2	1.04	< 0.5	10	154	542	10.20	10	< 1	0.76	20	1.16	225	221
566458H	299	229	< 0.2	1.84	6	170	0.5	< 2	1.08	< 0.5	7	114	230	4.35	< 10	< 1	0.70	20	0.99	155	97
566459H	299	229	< 0.2	1.51	4	100	0.5	< 2	2.91	< 0.5	7	83	215	3.42	< 10	< 1	0.68	20	0.88	235	383
566460H	299	229	< 0.2	1.86	4	160	0.5	< 2	2.79	< 0.5	6	127	145	2.85	< 10	< 1	0.78	30	1.06	225	470
566461H	299	229	< 0.2	1.50	< 2	180	0.5	< 2	0.97	< 0.5	6	106	241	3.91	< 10	< 1	0.62	20	0.98	160	93
566462H	299	229	0.4	1.46	2	180	0.5	< 2	1.01	< 0.5	7	157	686	3.35	< 10	< 1	0.67	20	0.90	135	419
566463H	299	229	0.2	1.35	< 2	180	0.5	< 2	1.31	< 0.5	7	105	417	3.29	< 10	< 1	0.69	20	0.89	155	61
566464H	299	229	0.4	1.14	< 2	120	< 0.5	< 2	0.72	< 0.5	7	133	954	4.47	< 10	< 1	0.57	20	0.75	105	97
566465H	299	229	0.8	1.27	6	130	< 0.5	< 2	0.69	< 0.5	11	118	1355	3.04	< 10	< 1	0.65	20	0.90	125	202
566466H	299	229	0.8	1.59	18	190	0.5	< 2	1.44	< 0.5	11	139	1040	3.75	< 10	< 1	0.69	20	0.87	155	109
566467H	299	229	1.2	0.78	14	40	< 0.5	6	1.51	< 0.5	9	79	1445	4.84	< 10	1	0.38	10	0.52	210	117
566468H	299	229	0.4	1.07	< 2	90	0.5	2	1.38	< 0.5	6	112	681	3.40	< 10	< 1	0.47	20	0.52	130	62

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 142
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. :I9320378
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320378

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566429H	299	229	0.03	9	440	4	2	6	21	0.06	< 10	< 10	46	< 10	38
566430H	299	229	0.03	12	540	2	2	6	22	0.08	< 10	< 10	55	< 10	38
566431H	299	229	0.04	10	540	< 2	< 2	13	28	0.16	< 10	< 10	91	< 10	42
566432H	299	229	0.03	11	470	4	< 2	7	33	0.09	< 10	< 10	47	< 10	36
566433H	299	229	0.03	16	500	< 2	2	9	24	0.11	< 10	< 10	71	< 10	54
566434H	299	229	0.02	8	430	4	2	5	28	0.05	< 10	< 10	43	< 10	30
566435H	299	229	0.03	13	450	2	2	8	23	0.09	< 10	< 10	54	< 10	38
566436H	299	229	0.01	11	410	10	2	4	19	0.04	< 10	< 10	42	< 10	42
566437H	299	229	0.01	11	420	10	2	4	16	0.01	< 10	< 10	43	< 10	34
566438H	299	229	0.01	15	490	38	10	6	17	0.01	< 10	< 10	44	< 10	48
566439H	299	229	0.01	9	480	6	4	4	22	0.01	< 10	< 10	30	< 10	26
566440H	299	229	0.01	8	410	4	4	5	20	0.01	10	< 10	36	< 10	24
566441H	299	229	0.01	13	480	52	10	7	23	0.04	< 10	< 10	56	10	44
566442H	299	229	0.01	9	460	12	14	5	23	< 0.01	< 10	< 10	35	< 10	62
566443H	299	229	0.01	8	440	16	14	6	24	< 0.01	30	< 10	45	10	62
566444H	299	229	0.01	10	300	8	8	7	14	< 0.01	< 10	< 10	44	10	38
566445H	299	229	0.01	10	340	12	4	6	15	< 0.01	< 10	< 10	49	< 10	76
566446H	299	229	0.01	9	390	12	8	6	28	< 0.01	< 10	< 10	27	< 10	42
566447H	299	229	0.02	10	590	400	62	8	28	0.02	< 10	< 10	67	< 10	116
566448H	299	229	0.01	12	310	50	38	5	48	< 0.01	< 10	< 10	32	10	98
566449H	299	229	0.01	11	460	4	8	8	23	0.04	< 10	< 10	53	< 10	48
566450H	299	229	0.01	8	450	4	2	8	26	0.08	< 10	< 10	53	< 10	28
566451H	299	229	0.01	12	770	4	4	13	42	0.13	< 10	< 10	88	10	42
566452H	299	229	0.02	7	490	4	4	5	35	0.03	< 10	< 10	39	< 10	28
566453H	299	229	0.02	12	530	< 2	2	6	40	0.07	< 10	< 10	45	< 10	30
566454H	299	229	0.02	12	660	4	2	8	36	0.10	< 10	< 10	61	< 10	46
566455H	299	229	0.01	12	490	1225	12	4	24	0.03	< 10	< 10	71	10	2020
566456H	299	229	0.02	11	1100	102	2	7	34	0.04	< 10	< 10	48	10	66
566457H	299	229	0.02	17	1070	2	< 2	8	26	0.07	< 10	< 10	94	10	82
566458H	299	229	0.02	9	860	6	2	7	33	0.08	< 10	< 10	58	< 10	36
566459H	299	229	0.01	8	380	6	4	7	39	0.07	< 10	< 10	53	10	26
566460H	299	229	0.02	8	420	4	4	8	40	0.09	< 10	< 10	46	< 10	28
566461H	299	229	0.02	9	380	2	2	7	34	0.06	< 10	< 10	53	< 10	30
566462H	299	229	0.02	10	360	2	2	6	33	0.06	< 10	< 10	42	< 10	22
566463H	299	229	0.03	8	470	4	2	7	29	0.08	< 10	< 10	51	< 10	24
566464H	299	229	0.03	10	390	2	< 2	6	33	0.06	< 10	< 10	70	< 10	20
566465H	299	229	0.03	8	320	4	2	7	25	0.07	< 10	< 10	53	< 10	30
566466H	299	229	0.02	13	650	2	4	6	33	0.07	< 10	< 10	45	< 10	34
566467H	299	229	0.01	10	530	< 2	4	5	20	0.01	< 10	< 10	31	< 10	24
566468H	299	229	0.01	8	320	4	2	4	27	0.02	< 10	< 10	28	< 10	26

CERTIFICATION: Ian H Bachlet

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 142
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. : I9320378
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320378

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566469H	299	229	0.8	1.37	< 2	140	0.5	2	1.33	< 0.5	8	129	677	3.71	< 10	< 1	0.66	20	0.72	165	104
566470H	299	229	0.4	1.73	4	180	0.5	< 2	1.04	< 0.5	10	85	555	4.83	10	< 1	0.83	30	1.13	215	51
566471H	299	229	0.2	1.88	2	180	0.5	< 2	1.33	< 0.5	9	95	317	4.10	< 10	< 1	0.92	30	1.25	195	57
566472H	299	229	0.4	1.72	8	160	0.5	< 2	1.55	< 0.5	10	75	530	3.87	< 10	< 1	0.82	20	1.11	245	89
566473H	299	229	2.2	1.42	16	40	0.5	10	1.46	< 0.5	11	89	2130	4.78	< 10	< 1	0.69	10	0.74	190	319
566474H	299	229	1.0	1.17	2	220	0.5	2	1.09	< 0.5	8	63	1155	3.51	< 10	< 1	0.62	20	0.84	215	224
566475H	299	229	1.2	1.33	2	190	0.5	< 2	1.06	< 0.5	7	99	1150	3.74	< 10	< 1	0.57	20	0.69	135	111
566476H	299	229	0.6	1.35	< 2	180	0.5	8	1.24	< 0.5	8	84	588	3.84	< 10	< 1	0.72	20	0.89	140	86
566477H	299	229	0.4	0.99	12	210	0.5	2	1.21	< 0.5	8	101	406	3.50	< 10	< 1	0.45	20	0.80	245	49
566478H	299	229	< 0.2	0.81	< 2	140	0.5	< 2	0.49	< 0.5	6	102	234	5.10	< 10	< 1	0.52	10	0.70	130	32
566479H	299	229	0.2	1.04	6	150	0.5	< 2	0.58	< 0.5	6	121	350	3.76	< 10	< 1	0.59	20	0.70	125	39
566480H	299	229	0.2	1.20	4	170	0.5	2	0.93	< 0.5	7	112	273	2.73	< 10	< 1	0.68	30	0.81	145	86
566481H	299	229	0.4	1.05	< 2	110	< 0.5	< 2	0.53	< 0.5	7	116	735	2.68	< 10	< 1	0.47	20	0.64	115	91
566482H	299	229	1.0	0.86	8	140	0.5	2	0.59	< 0.5	8	101	1250	2.92	< 10	< 1	0.55	10	0.58	165	160
566483H	299	229	0.2	1.17	2	170	0.5	< 2	0.46	< 0.5	7	105	349	3.44	< 10	< 1	0.69	20	0.89	140	42
566484H	299	229	0.2	0.98	< 2	130	0.5	4	0.49	< 0.5	8	102	408	3.60	< 10	< 1	0.61	20	0.78	165	51
566485H	299	229	0.2	0.86	< 2	140	0.5	2	0.55	< 0.5	6	81	245	2.37	< 10	< 1	0.50	20	0.68	165	425

CERTIFICATION: Stewart Bachlin

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WHITEHORSE, YT
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Project : CASINO 142
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. :19320378
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320378

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566469H	299	229	0.04	9	490	4	2	5	32	0.05	< 10	< 10	38	< 10	48
566470H	299	229	0.04	15	680	2	2	7	28	0.11	< 10	< 10	59	< 10	58
566471H	299	229	0.04	12	750	< 2	2	7	32	0.13	< 10	< 10	53	< 10	40
566472H	299	229	0.02	11	560	< 2	4	10	37	0.11	< 10	< 10	59	< 10	36
566473H	299	229	0.02	11	440	8	6	6	31	0.05	< 10	< 10	43	10	30
566474H	299	229	0.02	10	420	6	4	7	27	0.07	< 10	< 10	49	< 10	26
566475H	299	229	0.02	9	450	4	4	6	36	0.05	< 10	< 10	41	< 10	28
566476H	299	229	0.02	10	510	6	< 2	8	29	0.09	< 10	< 10	51	10	36
566477H	299	229	0.03	9	510	8	< 2	8	28	0.03	< 10	< 10	48	10	32
566478H	299	229	0.05	10	410	10	< 2	7	20	0.06	< 10	< 10	74	< 10	32
566479H	299	229	0.07	10	430	8	2	7	22	0.06	< 10	< 10	61	< 10	30
566480H	299	229	0.06	7	440	12	< 2	8	23	0.08	< 10	< 10	52	< 10	36
566481H	299	229	0.06	8	280	8	< 2	4	18	0.03	< 10	< 10	39	< 10	30
566482H	299	229	0.03	8	350	6	< 2	4	18	0.04	< 10	< 10	29	10	22
566483H	299	229	0.06	12	500	4	2	6	22	0.08	< 10	< 10	48	< 10	30
566484H	299	229	0.05	9	450	6	< 2	7	22	0.06	< 10	< 10	52	< 10	32
566485H	299	229	0.06	7	370	4	2	6	22	0.04	< 10	< 10	35	< 10	30

CERTIFICATION: Stewart Bichler

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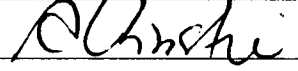
Project : CASINO 143
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :3
Certificate Date: 04-AUG-93
Invoice No. : I9318100
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318100

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
566001 H	208	274	0.11	0.017	0.17	5060						
566002 H	208	274	0.10	0.114	0.14	5240						
566003 H	208	274	0.14	0.084	0.14	5960						
566004 H	208	274	0.08	0.076	0.48	6180						
566005 H	208	274	0.09	0.076	0.14	6280						
566006 H	208	274	0.08	0.078	0.10	5880						
566007 H	208	274	0.13	0.086	0.17	6580						
566008 H	208	274	0.14	0.104	0.10	5820						
566009 H	208	274	0.11	0.207	0.21	6720						
566010 H	208	274	0.09	0.068	0.14	6440						
566011 H	208	274	0.13	0.102	0.34	6400						
566012 H	208	274	0.15	0.032	0.21	6600						
566013 H	208	274	0.09	0.047	0.10	6480						
566014 H	208	274	0.17	0.089	0.14	6520						
566015 H	208	274	0.08	0.119	0.14	7020						
566016 H	208	274	0.14	0.064	0.24	6740						
566017 H	208	274	0.18	0.086	0.31	6780						
566018 H	208	276	0.08	0.087	0.14	7320						
566019 H	208	274	0.08	0.066	0.14	6760						
566020 H	208	274	0.10	0.086	0.14	6900						
566021 H	208	274	0.10	0.066	0.14	7180						
566022 H	208	274	0.19	0.033	0.31	7200						
566023 H	208	274	0.10	0.040	0.17	3120						
566024 H	208	274	0.11	0.037	0.17	7060						
566025 H	208	276	0.09	0.050	0.14	7380						
566026 H	208	274	0.11	0.094	0.21	6960						
566027 H	208	274	0.18	0.054	0.24	7140						
566028 H	208	276	0.08	0.075	0.14	7420						
566029 H	208	274	0.09	0.050	0.34	7240						
566030 H	208	274	0.09	0.006	0.21	3040						
566031 H	208	274	0.19	0.005	0.27	7060						
566032 H	208	274	0.11	0.006	0.17	7180						
566033 H	208	274	0.15	0.018	0.48	7020						
566034 H	208	274	0.21	0.056	0.38	6820						
566035 H	208	274	0.22	0.135	0.48	6360						
566036 H	208	274	0.20	0.203	0.38	6860						
566037 H	208	274	0.25	0.073	0.45	6700						
566038 H	208	274	0.22	0.062	0.82	6820						
566039 H	208	274	0.23	0.053	0.38	6920						
566040 H	208	274	0.13	0.042	0.21	6660						

CERTIFICATION: 

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TO: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 143
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2
Total Pages :3
Certificate Date: 04-AUG-93
Invoice No. : I9318100
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318100

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566041 H	208 276	0.19	0.088	0.24	7300
566042 H	208 276	0.21	0.113	0.31	7480
566043 H	208 274	0.18	0.048	0.21	7000
566044 H	208 274	0.21	0.053	0.21	7240
566045 H	208 274	0.18	0.055	0.24	6880
566046 H	208 274	0.20	0.073	0.45	7180
566047 H	208 274	0.17	0.113	0.34	6580
566048 H	208 274	0.23	0.103	0.31	7180
566049 H	208 274	0.19	0.063	0.21	6740
566050 H	208 274	0.20	0.066	0.34	6800
566051 H	208 276	0.14	0.119	0.24	7360
566052 H	208 274	0.18	0.096	0.21	7260
566053 H	208 274	0.22	0.062	0.24	6580
566054 H	208 274	0.20	0.090	0.21	7080
566055 H	208 274	0.28	0.100	0.27	6560
566056 H	208 274	0.44	0.248	0.45	6760
566057 H	208 274	0.26	0.127	0.38	7100
566058 H	208 274	0.21	0.181	0.34	6420
566059 H	208 274	0.09	0.081	0.17	6420
566060 H	208 274	0.36	0.175	0.58	6560
566061 H	208 274	0.21	0.253	0.45	6260
566062 H	208 274	0.22	0.073	0.51	6120
566063 H	208 274	0.16	0.131	0.34	6000
566064 H	208 274	0.19	0.120	0.24	6520
566065 H	208 274	0.13	0.091	0.17	6880
566066 H	208 274	0.18	0.112	0.34	7180
566067 H	208 274	0.21	0.086	0.41	6920
566068 H	208 274	0.11	0.088	0.17	6580
566069 H	208 274	0.18	0.157	0.27	6760
566070 H	208 274	0.21	0.094	0.17	7120
566071 H	208 274	0.14	0.074	0.38	7020
566072 H	208 274	0.13	0.108	0.24	6960
566073 H	208 274	0.06	0.083	0.17	7060
566074 H	208 274	0.07	0.152	0.14	6760
566075 H	208 274	0.09	0.047	0.10	7080
566076 H	208 274	0.10	0.071	0.14	6620
566077 H	208 274	0.16	0.133	0.31	7200
566078 H	208 274	0.10	0.221	0.31	6640
566079 H	208 274	0.09	0.186	0.10	6620
566080 H	208 274	0.08	0.091	0.03	7080

CERTIFICATION: A Christie

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Y1A 3S9

Project : CASINO 143
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : I9318100
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318100

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566081 H	208 274	0.09	0.123	0.21	6480
566082 H	208 274	0.09	0.143	0.14	6740
566083 H	208 274	0.11	0.066	0.10	6420
566084 H	208 274	0.05	0.192	0.10	7160
566085 H	208 274	0.08	0.181	0.17	6900
566086 H	208 274	0.07	0.180	0.14	4620

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 143
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. : I9318101
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318101

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566001 H	299	229	1.0	1.61	4	600	< 0.5	< 2	1.30	< 0.5	7	67	1005	1.50	< 10	< 1	0.63	20	1.06	140	92
566002 H	299	229	1.0	0.75	6	80	< 0.5	6	1.00	1.0	8	109	1010	1.42	< 10	< 1	0.30	20	0.52	210	700
566003 H	299	229	1.2	0.48	8	60	< 0.5	< 2	0.74	1.0	9	95	1395	1.29	< 10	< 1	0.18	30	0.37	245	568
566004 H	299	229	2.2	0.54	42	60	< 0.5	< 2	0.58	< 0.5	6	125	813	3.32	< 10	< 1	0.32	10	0.26	110	431
566005 H	299	229	0.8	0.62	2	160	< 0.5	< 2	0.78	< 0.5	9	79	910	1.19	< 10	< 1	0.27	20	0.45	135	538
566006 H	299	229	0.8	1.24	6	640	< 0.5	2	0.70	< 0.5	10	165	772	1.47	< 10	< 1	0.63	20	0.67	175	479
566007 H	299	229	1.0	1.12	< 2	230	< 0.5	< 2	0.89	0.5	13	67	1230	1.46	< 10	< 1	0.53	20	0.75	185	511
566008 H	299	229	1.0	0.54	8	170	< 0.5	4	0.51	< 0.5	7	173	1395	0.88	< 10	< 1	0.30	20	0.21	130	656
566009 H	299	229	1.2	0.32	8	240	< 0.5	2	0.56	< 0.5	4	85	1145	0.60	< 10	< 1	0.15	30	0.22	90	1290
566010 H	299	229	0.6	0.57	4	150	< 0.5	< 2	0.51	< 0.5	3	152	872	0.61	< 10	< 1	0.23	30	0.22	95	450
566011 H	299	229	1.0	0.35	6	180	< 0.5	< 2	0.26	< 0.5	7	89	1355	0.74	< 10	< 1	0.17	20	0.12	45	684
566012 H	299	229	1.2	0.55	2	360	< 0.5	< 2	0.60	< 0.5	4	191	1465	0.91	< 10	< 1	0.23	20	0.27	100	178
566013 H	299	229	0.6	0.42	4	210	< 0.5	< 2	0.70	0.5	8	89	922	0.89	< 10	< 1	0.13	20	0.28	215	269
566014 H	299	229	1.2	0.62	20	220	< 0.5	< 2	0.67	< 0.5	7	126	1665	1.11	< 10	< 1	0.22	30	0.27	135	543
566015 H	299	229	0.6	1.28	6	300	< 0.5	4	1.32	< 0.5	10	94	726	1.50	< 10	< 1	0.75	30	1.05	175	707
566016 H	299	229	1.2	1.08	2	220	< 0.5	< 2	1.89	0.5	9	144	1370	1.39	< 10	< 1	0.43	40	0.67	170	414
566017 H	299	229	1.0	1.10	8	470	< 0.5	< 2	1.61	< 0.5	7	79	1705	1.44	< 10	< 1	0.57	40	0.89	175	514
566018 H	299	229	0.6	1.05	14	780	< 0.5	< 2	1.58	< 0.5	5	148	832	0.92	10	< 1	0.47	50	0.67	115	526
566019 H	299	229	0.6	0.38	6	150	< 0.5	< 2	1.14	< 0.5	3	69	746	0.48	< 10	< 1	0.15	30	0.25	75	412
566020 H	299	229	0.6	0.76	14	280	< 0.5	2	2.13	< 0.5	9	124	989	1.10	< 10	< 1	0.31	30	0.43	240	494
566021 H	299	229	0.6	0.39	6	460	< 0.5	2	1.22	< 0.5	3	69	1005	0.59	< 10	< 1	0.17	30	0.34	70	411
566022 H	299	229	1.2	0.68	< 2	320	< 0.5	< 2	1.52	< 0.5	4	144	1905	0.99	< 10	< 1	0.29	30	0.39	90	200
566023 H	299	229	0.6	0.35	6	110	< 0.5	< 2	1.30	< 0.5	7	77	937	0.68	< 10	< 1	0.20	20	0.24	110	267
566024 H	299	229	0.6	0.59	4	460	< 0.5	< 2	2.09	< 0.5	4	131	958	0.68	< 10	< 1	0.24	40	0.31	130	200
566025 H	299	229	0.4	0.43	62	120	< 0.5	< 2	1.09	0.5	7	83	868	1.33	< 10	< 1	0.22	20	0.27	185	261
566026 H	299	229	0.8	0.90	10	390	< 0.5	2	1.59	< 0.5	7	126	1070	1.24	< 10	< 1	0.32	30	0.53	180	564
566027 H	299	229	0.8	0.59	6	150	< 0.5	< 2	1.59	< 0.5	6	83	1675	1.17	< 10	< 1	0.25	30	0.53	110	339
566028 H	299	229	0.8	0.48	94	40	< 0.5	< 2	0.81	< 0.5	4	157	785	2.68	< 10	< 1	0.26	20	0.20	95	431
566029 H	299	229	1.0	0.35	174	30	< 0.5	8	1.70	1.5	8	75	957	3.90	< 10	< 1	0.19	10	0.45	450	277
566030 H	299	229	0.4	1.02	42	130	< 0.5	< 2	2.79	< 0.5	13	110	864	2.51	< 10	< 1	0.14	20	0.52	220	30
566031 H	299	229	1.2	0.69	26	60	< 0.5	14	3.37	< 0.5	9	55	1850	3.63	< 10	< 1	0.25	10	0.67	200	22
566032 H	299	229	0.8	0.69	36	90	< 0.5	6	3.45	< 0.5	9	64	1045	3.55	< 10	< 1	0.22	10	0.84	150	34
566033 H	299	229	9.6	1.06	148	20	< 0.5	12	1.97	32.0	11	86	1520	4.80	< 10	< 1	0.39	10	0.70	510	105
566034 H	299	229	1.2	0.84	26	400	< 0.5	< 2	1.96	0.5	5	75	2110	1.28	< 10	< 1	0.36	20	0.66	210	383
566035 H	299	229	1.2	1.45	16	410	< 0.5	< 2	1.97	< 0.5	4	122	2130	1.33	10	< 1	0.56	40	0.83	105	748
566036 H	299	229	1.2	1.60	< 2	130	< 0.5	< 2	2.08	< 0.5	7	73	2020	2.03	10	< 1	0.65	30	1.03	120	1090
566037 H	299	229	1.4	1.58	12	180	< 0.5	< 2	2.19	< 0.5	8	89	2510	1.85	< 10	< 1	0.59	20	1.13	150	413
566038 H	299	229	6.6	0.32	708	40	< 0.5	24	2.50	< 0.5	21	69	2250	4.21	< 10	< 1	0.20	10	0.69	435	385
566039 H	299	229	1.6	0.55	96	110	< 0.5	2	0.99	< 0.5	7	97	2390	1.95	< 10	< 1	0.31	10	0.32	150	317
566040 H	299	229	0.6	0.58	8	560	< 0.5	< 2	1.37	< 0.5	4	80	1350	0.64	< 10	< 1	0.26	20	0.36	65	277

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9318101

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566001 H	299	229	0.02	4	590	22	6	7	47	0.03	< 10	< 10	49	< 10	40
566002 H	299	229	0.01	3	170	56	14	4	17	< 0.01	< 10	< 10	17	< 10	66
566003 H	299	229	0.01	2	140	18	8	3	15	< 0.01	< 10	< 10	12	< 10	74
566004 H	299	229	0.01	4	120	28	8	1	11	< 0.01	< 10	< 10	7	< 10	36
566005 H	299	229	0.01	2	160	12	12	3	16	< 0.01	< 10	< 10	15	< 10	38
566006 H	299	229	0.02	5	170	10	8	6	23	0.04	< 10	20	41	< 10	44
566007 H	299	229	0.01	3	380	10	6	6	21	0.04	< 10	< 10	41	< 10	42
566008 H	299	229	0.01	3	130	12	8	< 1	14	< 0.01	< 10	< 10	8	< 10	42
566009 H	299	229	0.01	< 1	110	16	24	1	14	< 0.01	< 10	< 10	8	< 10	28
566010 H	299	229	0.01	2	130	12	8	1	13	< 0.01	< 10	< 10	7	< 10	32
566011 H	299	229	0.01	2	160	16	14	< 1	12	< 0.01	< 10	< 10	5	< 10	28
566012 H	299	229	0.01	3	90	14	6	1	23	< 0.01	< 10	10	7	< 10	42
566013 H	299	229	0.01	2	160	18	10	2	14	< 0.01	< 10	< 10	9	< 10	78
566014 H	299	229	0.01	3	220	16	16	3	14	< 0.01	< 10	< 10	12	< 10	42
566015 H	299	229	0.02	5	350	8	8	12	23	0.10	< 10	< 10	62	10	46
566016 H	299	229	0.02	9	380	12	4	11	28	0.03	< 10	< 10	46	10	22
566017 H	299	229	0.02	6	440	18	2	14	56	0.07	< 10	< 10	61	< 10	20
566018 H	299	229	0.03	4	200	18	2	6	171	0.03	< 10	< 10	32	< 10	24
566019 H	299	229	0.02	< 1	120	8	2	1	48	< 0.01	< 10	< 10	8	< 10	24
566020 H	299	229	0.02	3	310	8	6	3	51	< 0.01	< 10	< 10	17	< 10	52
566021 H	299	229	0.01	1	180	8	4	1	84	< 0.01	< 10	< 10	7	< 10	18
566022 H	299	229	0.02	4	200	6	< 2	2	54	< 0.01	< 10	< 10	11	< 10	18
566023 H	299	229	0.01	2	180	6	< 2	< 1	27	< 0.01	< 10	< 10	4	< 10	16
566024 H	299	229	0.01	4	170	16	4	2	66	< 0.01	< 10	< 10	8	< 10	22
566025 H	299	229	0.01	2	260	10	8	1	47	< 0.01	< 10	< 10	6	< 10	34
566026 H	299	229	0.01	4	530	4	2	6	39	< 0.01	< 10	< 10	29	10	22
566027 H	299	229	0.01	4	530	8	2	6	34	0.01	< 10	< 10	26	10	8
566028 H	299	229	0.01	3	200	24	8	1	39	< 0.01	< 10	< 10	9	< 10	18
566029 H	299	229	0.01	6	300	60	22	2	45	< 0.01	< 10	< 10	12	< 10	62
566030 H	299	229	0.01	16	880	2	4	7	70	< 0.01	< 10	< 10	34	< 10	12
566031 H	299	229	0.01	12	670	6	8	4	65	0.01	< 10	< 10	21	< 10	20
566032 H	299	229	0.01	14	780	4	4	4	52	< 0.01	< 10	< 10	26	< 10	22
566033 H	299	229	0.01	11	630	1295	70	3	48	< 0.01	< 10	< 10	23	< 10	1790
566034 H	299	229	0.01	4	280	48	8	5	74	0.02	< 10	< 10	31	< 10	30
566035 H	299	229	0.02	5	380	12	6	8	79	0.05	< 10	< 10	50	< 10	20
566036 H	299	229	0.03	3	510	6	12	9	351	0.07	< 10	< 10	62	< 10	16
566037 H	299	229	0.02	4	670	4	4	7	62	0.02	< 10	< 10	45	< 10	12
566038 H	299	229	0.01	3	330	376	46	3	32	< 0.01	< 10	< 10	11	< 10	70
566039 H	299	229	0.01	2	230	26	14	1	23	< 0.01	< 10	< 10	7	< 10	16
566040 H	299	229	0.02	2	280	12	2	3	86	< 0.01	< 10	< 10	12	< 10	8

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566041 H	299	229	0.8	0.75	2	110	< 0.5	2	3.11	< 0.5	4	74	1770	0.92	< 10	< 1	0.48	20	0.60	50	534
566042 H	299	229	1.0	1.20	2	80	< 0.5	< 2	3.23	< 0.5	6	42	2040	2.01	< 10	< 1	0.76	20	1.17	80	577
566043 H	299	229	0.6	1.96	< 2	70	< 0.5	< 2	2.88	< 0.5	14	42	1840	3.42	< 10	< 1	0.95	20	1.68	115	254
566044 H	299	229	1.2	0.66	2	170	< 0.5	4	2.06	< 0.5	5	61	2180	1.25	< 10	< 1	0.30	10	0.62	75	313
566045 H	299	229	0.8	1.10	2	210	< 0.5	2	2.13	< 0.5	7	77	1735	1.42	< 10	< 1	0.72	30	1.12	90	294
566046 H	299	229	0.8	0.71	< 2	110	< 0.5	< 2	3.15	< 0.5	5	62	2040	1.18	< 10	< 1	0.47	20	0.74	70	409
566047 H	299	229	1.4	0.49	4	130	< 0.5	< 2	2.28	< 0.5	4	79	1830	0.99	< 10	< 1	0.30	20	0.48	55	696
566048 H	299	229	1.4	0.59	< 2	100	< 0.5	< 2	2.77	< 0.5	4	66	2390	0.96	< 10	< 1	0.41	20	0.62	60	586
566049 H	299	229	1.2	0.65	4	150	< 0.5	4	1.41	< 0.5	3	109	1910	0.96	< 10	< 1	0.40	20	0.51	55	358
566050 H	299	229	1.2	0.69	4	130	< 0.5	< 2	2.04	< 0.5	7	63	2170	1.26	< 10	< 1	0.43	20	0.70	65	391
566051 H	299	229	1.0	0.61	2	140	< 0.5	< 2	2.14	< 0.5	4	70	1400	1.04	< 10	< 1	0.38	30	0.65	60	667
566052 H	299	229	1.2	0.70	6	180	< 0.5	4	2.55	< 0.5	3	54	1895	1.26	< 10	< 1	0.37	20	0.62	70	525
566053 H	299	229	1.6	0.47	8	230	< 0.5	2	1.33	< 0.5	5	72	2180	1.20	< 10	< 1	0.18	30	0.41	55	410
566054 H	299	229	1.6	0.41	12	120	< 0.5	< 2	1.44	< 0.5	8	62	1970	1.75	< 10	< 1	0.17	30	0.45	70	554
566055 H	299	229	2.2	0.40	6	160	< 0.5	< 2	1.50	< 0.5	9	103	2990	1.78	< 10	< 1	0.17	30	0.53	95	626
566056 H	299	229	3.4	0.32	16	200	< 0.5	< 2	2.34	< 0.5	5	78	4430	1.35	< 10	< 1	0.10	40	0.71	140	1470
566057 H	299	229	2.0	0.35	8	170	< 0.5	2	1.31	< 0.5	9	80	2680	1.47	< 10	< 1	0.12	30	0.43	110	802
566058 H	299	229	1.6	0.29	16	380	< 0.5	< 2	1.44	< 0.5	2	67	2080	0.84	< 10	< 1	0.09	60	0.50	125	1170
566059 H	299	229	0.8	0.33	6	290	< 0.5	< 2	1.26	< 0.5	2	76	953	0.89	< 10	< 1	0.13	40	0.41	95	485
566060 H	299	229	2.6	0.58	2	260	< 0.5	6	1.84	< 0.5	7	67	3700	1.71	< 10	< 1	0.20	30	0.76	145	1060
566061 H	299	229	1.6	1.24	26	360	< 0.5	< 2	1.91	< 0.5	7	113	2170	1.58	10	< 1	0.19	40	0.71	140	1550
566062 H	299	229	1.2	0.56	2	490	< 0.5	< 2	0.92	< 0.5	4	75	2210	0.80	< 10	< 1	0.12	30	0.31	50	461
566063 H	299	229	1.4	0.78	2	330	< 0.5	< 2	1.74	< 0.5	3	102	1585	1.02	< 10	< 1	0.21	40	0.62	110	768
566064 H	299	229	1.4	0.81	4	250	< 0.5	< 2	1.70	< 0.5	3	57	2050	1.24	< 10	< 1	0.36	50	0.83	95	773
566065 H	299	229	1.2	1.13	< 2	160	< 0.5	< 2	2.19	< 0.5	4	127	1400	1.33	10	< 1	0.50	40	0.82	75	554
566066 H	299	229	1.2	0.99	< 2	120	< 0.5	< 2	2.28	< 0.5	3	115	1820	1.43	10	< 1	0.53	40	0.79	75	661
566067 H	299	229	1.2	0.94	2	150	< 0.5	< 2	2.07	< 0.5	5	93	2120	1.36	< 10	< 1	0.52	30	0.78	75	545
566068 H	299	229	0.8	1.72	6	190	< 0.5	< 2	2.35	< 0.5	8	168	1240	2.64	10	< 1	0.85	20	1.50	160	511
566069 H	299	229	1.2	1.05	8	120	< 0.5	< 2	2.87	< 0.5	4	86	1885	1.03	< 10	< 1	0.51	20	0.84	65	935
566070 H	299	229	1.4	0.91	28	110	< 0.5	10	2.46	< 0.5	4	139	2220	1.66	< 10	< 1	0.53	30	0.80	85	568
566071 H	299	229	0.8	1.71	< 2	180	< 0.5	< 2	2.24	< 0.5	8	77	1370	2.22	< 10	< 1	1.17	10	1.38	105	432
566072 H	299	229	0.6	1.07	< 2	130	< 0.5	< 2	2.01	< 0.5	3	108	1290	1.11	< 10	< 1	0.61	20	0.90	70	624
566073 H	299	229	0.6	0.76	2	130	< 0.5	< 2	2.57	< 0.5	3	69	740	0.67	< 10	< 1	0.28	20	0.53	55	515
566074 H	299	229	0.6	0.89	< 2	140	< 0.5	< 2	2.87	< 0.5	2	94	808	0.70	< 10	< 1	0.35	30	0.53	55	971
566075 H	299	229	0.6	0.50	2	160	< 0.5	< 2	2.28	< 0.5	2	65	934	0.51	< 10	< 1	0.15	20	0.24	45	271
566076 H	299	229	0.8	0.44	< 2	150	< 0.5	< 2	3.12	< 0.5	2	97	1175	0.65	< 10	< 1	0.24	20	0.20	50	424
566077 H	299	229	1.2	0.76	< 2	180	< 0.5	< 2	2.53	< 0.5	3	92	1585	1.02	< 10	< 1	0.46	40	0.73	80	788
566078 H	299	229	1.0	1.09	< 2	210	< 0.5	< 2	2.57	< 0.5	3	104	970	1.25	< 10	< 1	0.47	40	0.62	105	1225
566079 H	299	229	0.8	0.40	4	230	< 0.5	4	1.87	< 0.5	3	89	929	1.05	< 10	< 1	0.20	20	0.37	80	1145
566080 H	299	229	0.8	0.77	44	400	< 0.5	2	2.74	< 0.5	3	106	846	1.12	< 10	< 1	0.32	30	0.77	235	543

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 143
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. : 19318101
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318101

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566041 H	299	229	0.03	2	250	4	6	4	193	0.03	< 10	< 10	33	10	12
566042 H	299	229	0.04	3	530	4	6	10	189	0.13	< 10	< 10	79	10	14
566043 H	299	229	0.07	5	1010	< 2	2	13	129	0.18	< 10	< 10	117	20	16
566044 H	299	229	0.03	2	430	8	< 2	5	120	0.01	< 10	< 10	23	< 10	12
566045 H	299	229	0.03	3	360	2	2	10	108	0.10	< 10	< 10	70	10	16
566046 H	299	229	0.03	2	350	< 2	4	7	162	0.06	< 10	< 10	47	10	14
566047 H	299	229	0.03	2	220	8	4	3	157	0.01	< 10	< 10	23	< 10	12
566048 H	299	229	0.03	4	220	2	4	5	155	0.03	< 10	< 10	38	10	14
566049 H	299	229	0.02	4	190	4	2	5	131	0.01	< 10	< 10	31	10	14
566050 H	299	229	0.03	4	220	4	2	7	133	0.03	< 10	< 10	42	< 10	14
566051 H	299	229	0.03	3	240	< 2	6	6	163	0.04	< 10	< 10	41	< 10	14
566052 H	299	229	0.03	2	370	8	4	6	180	0.04	< 10	< 10	36	10	14
566053 H	299	229	0.02	2	200	8	4	1	119	< 0.01	< 10	< 10	9	< 10	12
566054 H	299	229	0.01	3	320	18	8	2	46	< 0.01	< 10	< 10	10	10	16
566055 H	299	229	0.01	4	340	12	16	4	28	< 0.01	< 10	< 10	18	10	18
566056 H	299	229	0.01	1	350	6	50	3	28	< 0.01	< 10	< 10	19	10	22
566057 H	299	229	0.01	3	400	4	18	7	20	< 0.01	< 10	< 10	27	10	14
566058 H	299	229	0.01	1	220	10	36	2	23	< 0.01	< 10	< 10	13	< 10	16
566059 H	299	229	0.01	1	190	14	16	1	23	< 0.01	< 10	< 10	7	< 10	12
566060 H	299	229	0.01	3	400	10	26	8	26	0.01	< 10	< 10	43	10	18
566061 H	299	229	0.01	7	500	12	16	12	28	< 0.01	< 10	< 10	63	10	18
566062 H	299	229	0.01	3	330	6	4	5	26	< 0.01	< 10	< 10	24	< 10	12
566063 H	299	229	0.01	2	270	10	6	3	24	< 0.01	< 10	< 10	25	< 10	16
566064 H	299	229	0.02	3	480	8	10	5	62	0.02	< 10	< 10	37	10	16
566065 H	299	229	0.06	4	330	4	2	8	124	0.06	< 10	< 10	52	10	18
566066 H	299	229	0.05	4	390	4	2	7	139	0.07	< 10	< 10	51	10	16
566067 H	299	229	0.05	2	310	8	4	7	112	0.08	< 10	< 10	53	10	16
566068 H	299	229	0.07	34	510	8	2	9	155	0.10	< 10	< 10	64	30	20
566069 H	299	229	0.04	4	340	10	6	8	136	0.07	< 10	< 10	54	10	14
566070 H	299	229	0.05	3	300	4	4	7	153	0.05	< 10	< 10	47	10	16
566071 H	299	229	0.10	7	670	< 2	4	13	98	0.20	< 10	< 10	97	20	18
566072 H	299	229	0.07	7	350	< 2	4	7	92	0.08	< 10	< 10	53	10	14
566073 H	299	229	0.08	1	220	12	6	5	112	0.04	< 10	< 10	33	< 10	14
566074 H	299	229	0.09	< 1	260	8	8	5	126	0.03	< 10	< 10	35	< 10	14
566075 H	299	229	0.06	1	190	6	2	2	125	< 0.01	< 10	< 10	12	< 10	10
566076 H	299	229	0.04	1	170	12	4	1	218	< 0.01	< 10	< 10	8	10	12
566077 H	299	229	0.03	4	300	8	6	8	171	0.05	< 10	< 10	49	< 10	18
566078 H	299	229	0.03	2	340	6	12	7	72	0.03	< 10	< 10	42	10	16
566079 H	299	229	0.02	2	260	12	8	2	99	< 0.01	< 10	< 10	14	< 10	14
566080 H	299	229	0.02	4	340	8	6	5	137	< 0.01	< 10	< 10	23	< 10	26

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 143
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. :I9318101
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318101

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566081 H	299	229	1.0	0.88	10	540	< 0.5	< 2	2.36	< 0.5	4	62	1005	1.09	10	< 1	0.29	30	0.52	100	758
566082 H	299	229	0.8	0.92	10	590	< 0.5	< 2	2.43	< 0.5	3	64	914	0.92	< 10	< 1	0.24	30	0.37	115	885
566083 H	299	229	1.0	0.40	10	200	< 0.5	2	2.61	< 0.5	2	51	1155	0.82	< 10	< 1	0.16	20	0.26	90	365
566084 H	299	229	0.6	1.09	10	730	< 0.5	< 2	2.60	< 0.5	3	72	566	0.82	10	< 1	0.28	40	0.42	115	1145
566085 H	299	229	1.0	0.96	6	440	< 0.5	6	2.62	< 0.5	3	72	926	1.00	10	< 1	0.38	40	0.53	120	1140
566086 H	299	229	1.0	0.78	< 2	200	< 0.5	2	2.63	< 0.5	3	100	791	0.89	< 10	< 1	0.37	30	0.44	65	1105

CERTIFICATION: Ivan H Bichler

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9318101

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566081 H	299	229	0.02	4	420	6	6	7	210	0.01	< 10	< 10	36	< 10	18
566082 H	299	229	0.02	2	320	10	8	4	214	< 0.01	< 10	< 10	23	< 10	16
566083 H	299	229	0.03	1	280	8	4	2	329	< 0.01	< 10	< 10	10	< 10	12
566084 H	299	229	0.02	2	340	8	12	9	168	0.01	< 10	< 10	39	< 10	20
566085 H	299	229	0.02	4	430	4	10	10	206	0.03	< 10	< 10	48	< 10	16
566086 H	299	229	0.05	1	310	6	8	5	163	0.03	< 10	< 10	36	< 10	16

CERTIFICATION: Stewart Bachlet

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASIN0 144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :4
Certificate Date: 08-APR-9
Invoice No. :I9312750
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9312750

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
563001	208	274	0.15	0.015	0.21	3.0	2360					
563002	208	274	0.08	0.005	0.14	2.1	3300					
563003	208	274	0.15	0.005	0.10	2.1	1840					
563004	208	274	0.16	0.008	0.07	1.6	2100					
563005	208	274	0.41	0.004	0.14	1.2	4460					
563006	208	274	0.29	0.010	0.34	1.3	2360					
563007	208	274	0.41	0.022	0.24	1.8	2180					
563008	208	274	0.56	0.030	0.48	2.4	3760					
563009	208	274	0.76	0.024	0.34	2.3	5000					
563010	208	274	0.59	0.016	0.24	1.9	3960					
563011	208	276	0.29	0.013	0.14	1.3	7220					
563012	208	274	0.41	0.016	0.34	1.7	3440					
563013	208	276	0.47	0.012	0.31	1.6	8820					
563014	208	274	0.29	0.008	0.31	1.6	4340					
563015	208	274	0.31	0.001	0.24	1.2	3500					
563016	208	274	1.28	0.021	1.51	5.1	4840					
563017	208	274	0.55	0.013	0.38	1.9	4800					
563018	208	274	0.27	0.005	0.27	1.2	4300					
563019	208	274	0.66	0.007	0.51	2.3	2400					
563020	208	274	0.51	0.021	0.45	1.5	6340					
563021	208	274	0.37	0.027	0.48	1.5	6120					
563022	208	276	0.37	0.070	0.41	2.2	10560					
563023	208	276	0.45	0.062	0.45	1.4	7080					
563024	208	276	0.30	0.019	0.24	2.1	10720					
563025	208	276	0.75	0.034	0.82	2.8	9680					
563026	208	274	0.45	0.012	0.34	4.1	5220					
563027	208	274	0.23	0.006	0.27	2.7	6000					
563028	208	276	0.18	0.019	0.21	0.6	7500					
563029	208	276	0.54	0.035	0.55	1.8	8340					
563030	208	276	0.45	0.033	0.31	1.7	10480					
563031	208	276	0.22	0.015	0.21	1.4	8400					
563032	208	276	0.37	0.085	0.41	1.8	9600					
563033	208	276	0.55	0.025	0.45	1.7	6860					
563034	208	274	0.33	0.031	0.45	2.1	5700					
563035	208	274	0.21	0.034	0.17	4.0	6520					
563036	208	276	0.28	0.056	0.27	3.5	7360					
563037	208	276	0.27	0.024	0.31	3.6	7160					
563038	208	273	0.45	0.041	0.34	2.5	11920					
563039	208	276	0.27	0.019	0.34	1.8	10200					
563040	208	274	0.51	0.012	0.45	2.9	6280					

CERTIFICATION: Thank Vonk

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASIN0 144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-APR-93
Invoice No. :I9312750
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9312750

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
563041	208 274	0.21	0.004	0.24	1.7	4480
563042	208 274	0.73	0.064	0.86	2.9	5560
563043	208 274	0.43	0.048	0.41	2.9	6580
563044	208 276	0.61	0.018	0.58	2.3	7060
563045	208 276	0.69	0.054	0.55	2.6	9940
563046	208 276	0.40	0.037	0.45	1.6	9600
563047	208 276	0.38	0.045	0.41	1.2	10400
563048	208 276	0.30	0.028	0.34	1.1	10320
563049	208 276	0.23	0.012	0.34	1.2	8400
563050	208 276	0.48	0.042	0.45	3.1	8260
563051	208 273	0.66	0.034	0.69	2.8	12700
563052	208 274	0.43	0.039	0.45	1.5	6520
563053	208 273	0.41	0.038	0.34	1.8	12600
563054	208 273	0.40	0.026	0.34	1.2	12840
563055	208 273	0.38	0.049	0.38	1.3	11800
563056	208 276	0.30	0.039	0.17	1.5	10300
563057	208 273	0.19	0.014	0.34	0.9	13130
563058	208 276	0.27	0.036	0.38	1.2	11280
563059	208 274	0.29	0.040	0.38	1.0	5240
563060	208 276	0.47	0.063	0.55	2.7	11220
563061	208 273	0.31	0.051	0.34	1.7	11460
563062	208 273	0.32	0.038	0.34	1.5	11940
563063	208 276	0.41	0.042	0.51	2.0	8000
563064	208 274	0.29	0.048	0.34	1.5	4500
563065	208 274	0.23	0.010	0.17	1.1	5760
563066	208 276	0.15	0.016	0.10	1.0	7100
563067	208 276	0.28	0.048	0.34	4.5	8700
563068	208 276	0.37	0.043	0.38	1.6	8460
563069	208 273	0.54	0.035	0.58	2.0	12120
563070	208 276	0.30	0.027	0.27	1.4	7980
563071	208 274	0.28	0.016	0.58	1.0	6340
563072	208 276	0.33	0.016	0.31	1.1	8280
563073	208 276	0.27	0.024	0.27	0.9	9500
563074	208 276	0.24	0.022	0.27	0.9	10580
563075	208 273	0.21	0.007	0.27	1.5	11580
563076	208 276	0.35	0.012	0.41	1.9	6960
563077	208 276	0.35	0.006	0.34	1.9	10520
563078	208 276	0.15	0.004	0.24	1.2	7200
563079	208 276	0.09	0.008	0.07	0.7	10960
563080	208 274	0.20	0.010	0.24	1.4	5480

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASIN0 144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-APR-93
Invoice No. :19312750
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9312750

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
563081	208	273	0.58	0.025	0.48	1.9	13340					
563082	208	273	0.63	0.027	0.48	2.1	14320					
563083	208	273	0.58	0.020	0.51	2.0	15120					
563084	208	273	0.48	0.011	0.41	2.0	12040					
563085	208	273	0.66	0.028	0.45	2.7	13340					
563086	208	273	0.95	0.069	0.51	4.8	13300					
563087	208	273	0.96	0.064	0.79	3.1	13800					
563088	208	276	0.80	0.060	0.55	2.4	11280					
563089	208	273	1.30	0.154	1.17	4.1	12580					
563090	208	273	0.57	0.028	0.41	5.7	15100					
563091	208	273	0.25	0.005	0.17	1.0	11720					
563092	208	276	0.22	0.007	0.14	0.7	8300					
563093	208	273	0.25	0.032	0.14	2.1	13500					
563094	208	273	0.18	0.007	0.14	1.0	13540					
563095	208	276	0.24	0.010	0.17	1.9	7160					
563096	208	273	0.23	0.016	0.17	1.5	12800					
563097	208	273	0.18	0.009	0.17	2.0	11640					
563098	208	273	0.20	0.006	0.21	1.8	14840					
563099	208	273	0.16	0.005	0.10	1.3	13060					
563100	208	273	0.25	0.011	0.14	3.6	13700					
563101	208	273	0.18	0.010	0.10	1.7	13060					
563102	208	276	0.20	0.015	0.14	1.1	10600					
563103	208	276	0.32	0.022	0.14	1.7	10840					
563104	208	273	0.22	0.019	0.31	2.1	15460					
563105	208	273	0.23	0.004	0.17	1.4	12840					
563106	208	273	0.19	0.003	0.14	1.4	13640					
563107	208	273	0.11	0.003	0.03	0.7	14100					
563108	208	273	0.19	0.003	0.14	1.3	13280					
563109	208	273	0.21	0.012	0.21	1.8	13060					
563110	208	273	0.20	0.021	0.17	2.0	14260					
563111	208	273	0.19	0.005	0.10	1.6	13680					
563112	208	276	0.19	0.009	0.10	1.4	9020					
563113	208	276	0.16	0.006	0.14	0.7	7560					
563114	208	276	0.17	0.016	0.14	1.0	9920					
563115	208	273	0.31	0.016	0.24	2.0	13000					
563116	208	273	0.18	0.009	0.17	1.3	12460					
563117	208	273	0.25	0.030	0.31	1.9	11860					
563118	208	273	0.23	0.049	0.31	0.9	13020					
563119	208	273	0.23	0.046	0.21	1.0	12700					
563120	208	273	0.25	0.037	0.34	1.2	14700					

CERTIFICATION: _____

Chemex Labs Ltd.

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V6B 1L8

Project : CASIN0 144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page er :4
Total s :4
Certificate Date: 08-APR-93
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Account :FC

CERTIFICATE OF ANALYSIS A9312750

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
563121	208	273	0.28	0.029	0.34	1.2	13100					
563122	208	273	0.34	0.018	0.38	1.8	13360					
563123	208	273	0.16	0.010	0.17	1.0	13180					
563124	208	276	0.15	0.005	0.14	0.9	7080					
563125	208	273	0.18	0.016	0.10	1.3	13500					
563126	208	273	0.50	0.031	0.62	4.4	14240					
563127	208	270	0.18	0.013	0.17	1.1	16120					
563128	208	273	0.28	0.016	0.21	1.9	13620					
563129	208	273	0.14	0.007	0.21	1.3	12580					
563130	208	273	0.20	0.007	0.17	1.7	12820					
563131	208	273	0.36	0.057	0.24	2.1	13060					
563132	208	276	0.22	0.011	0.21	1.1	11140					
563133	208	274	0.43	0.011	0.31	175.0	5640					
563134	208	273	0.28	0.005	0.21	3.1	13360					
563135	208	273	0.32	0.008	0.17	1.4	12560					
563136	208	273	0.68	0.034	0.45	2.7	13120					
563137	208	273	0.18	0.018	0.14	0.8	12940					
563138	208	273	0.16	0.035	0.21	0.7	13480					
563139	208	273	0.08	0.018	0.14	0.9	12500					
563140	208	273	0.09	0.010	0.14	0.6	13860					
563141	208	273	0.11	0.011	0.14	0.5	12200					
563142	208	273	0.18	0.006	0.24	0.8	12220					
563143	208	273	0.19	0.003	0.31	1.0	12240					
563144	208	273	0.34	0.023	0.21	2.2	13860					
563145	208	273	0.21	0.008	0.17	0.8	13560					
563146	208	273	0.23	0.002	0.27	1.4	12000					
563147	208	273	0.20	0.005	0.14	1.0	12460					

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

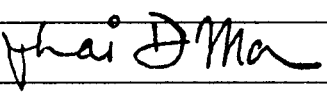
To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-MAY-93
Invoice No. :I9314131
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314131

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
563001	244	229	2.8	1.16	24	350	1.0	6	0.12	< 0.5	29	113	1445	3.18	< 10	< 1	0.41	30	0.19	1100	87
563002	244	229	1.6	0.84	18	440	< 0.5	< 2	0.06	< 0.5	8	143	734	1.64	< 10	< 1	0.44	30	0.06	135	34
563003	244	229	2.0	0.88	46	300	< 0.5	2	0.10	< 0.5	5	75	1515	1.67	< 10	1	0.40	40	0.04	25	33
563004	244	229	1.2	0.75	10	140	< 0.5	< 2	0.11	< 0.5	3	107	1625	0.83	< 10	< 1	0.28	30	0.04	20	50
563005	244	229	0.6	1.47	14	160	0.5	< 2	0.33	< 0.5	12	80	4250	0.96	< 10	< 1	0.36	30	0.22	25	18
563006	244	229	0.6	0.85	20	70	< 0.5	4	0.18	0.5	14	131	3400	1.03	< 10	< 1	0.28	20	0.06	30	63
563007	244	229	1.2	0.96	24	110	0.5	< 2	0.61	1.0	16	79	4210	1.19	< 10	< 1	0.27	20	0.24	75	128
563008	244	229	1.8	0.78	14	40	< 0.5	< 2	1.38	0.5	15	93	5540	1.64	< 10	< 1	0.22	20	0.47	205	169
563009	244	229	2.0	1.15	38	70	0.5	< 2	0.43	1.0	19	94	8160	1.87	< 10	< 1	0.32	30	0.16	85	146
563010	244	229	1.4	1.04	18	70	< 0.5	< 2	0.75	1.5	14	92	5900	1.66	< 10	< 1	0.39	20	0.26	115	94
563011	244	229	0.8	1.09	14	90	0.5	< 2	0.66	0.5	16	107	2980	1.49	< 10	< 1	0.42	20	0.24	110	75
563012	244	229	1.2	0.89	22	110	0.5	4	0.87	1.0	16	102	4020	1.33	< 10	< 1	0.42	20	0.40	75	97
563013	244	229	1.2	2.12	2	300	0.5	4	2.69	< 0.5	12	54	4270	2.29	< 10	< 1	1.13	10	1.76	175	64
563014	244	229	1.4	1.89	22	70	< 0.5	8	2.35	< 0.5	12	116	3040	2.92	< 10	< 1	0.76	10	1.43	255	39
563015	244	229	0.8	2.87	< 2	430	< 0.5	8	2.04	< 0.5	14	58	2930	3.24	< 10	< 1	1.37	10	2.27	225	6
563016	244	229	5.4	1.30	20	30	< 0.5	16	4.40	< 0.5	19	76	>10000	3.36	< 10	< 1	0.59	10	1.82	375	101
563017	244	229	1.8	3.32	14	380	< 0.5	2	3.35	< 0.5	17	46	5040	3.25	10	< 1	1.41	10	2.41	220	60
563018	244	229	1.4	3.73	2	550	< 0.5	4	3.16	< 0.5	17	68	2550	3.63	< 10	< 1	1.79	10	2.57	190	26
563019	244	229	2.0	1.80	16	190	< 0.5	2	2.83	< 0.5	19	107	6200	2.26	< 10	< 1	0.89	20	1.27	140	41
563020	244	229	1.4	2.80	12	260	< 0.5	4	3.36	< 0.5	21	58	4850	3.28	< 10	< 1	1.14	10	2.10	215	92
563021	244	229	1.6	1.15	20	60	< 0.5	2	2.61	< 0.5	10	100	3750	1.71	< 10	< 1	0.27	20	0.78	285	127
563022	244	229	1.8	1.79	28	270	< 0.5	8	2.93	< 0.5	10	82	3580	2.07	< 10	< 1	0.72	10	1.38	320	337
563023	244	229	1.6	1.75	12	140	< 0.5	2	2.41	< 0.5	14	79	4380	2.56	< 10	< 1	0.54	10	1.35	325	298
563024	244	229	2.2	0.82	48	100	< 0.5	6	2.80	1.0	12	106	3000	2.09	< 10	< 1	0.25	10	1.03	370	93
563025	244	229	2.6	0.76	18	80	< 0.5	2	1.94	< 0.5	14	95	7150	1.90	< 10	< 1	0.29	10	0.54	210	165
563026	244	229	4.2	1.16	120	110	< 0.5	< 2	1.80	2.0	13	60	4440	1.70	< 10	< 1	0.38	10	0.59	785	51
563027	244	229	2.8	0.99	78	100	< 0.5	2	2.65	2.5	16	75	2170	2.05	< 10	< 1	0.28	10	0.57	870	28
563028	244	229	0.8	1.18	14	250	0.5	< 2	2.81	< 0.5	7	53	1820	1.31	< 10	< 1	0.36	20	0.56	315	84
563029	244	229	1.8	2.13	14	160	< 0.5	2	3.58	< 0.5	17	31	5150	2.26	< 10	< 1	0.85	10	1.22	330	156
563030	244	229	2.2	2.08	22	240	< 0.5	4	3.98	< 0.5	16	27	4450	2.42	< 10	< 1	0.78	10	1.22	475	142
563031	244	229	1.4	2.57	34	310	< 0.5	< 2	1.89	0.5	10	59	2270	2.28	10	< 1	0.92	10	1.62	385	73
563032	244	229	2.4	1.54	22	110	< 0.5	4	1.78	< 0.5	15	92	3710	1.93	10	< 1	0.47	20	0.79	525	416
563033	244	229	1.8	1.99	12	170	< 0.5	6	1.04	< 0.5	14	53	5060	1.80	< 10	< 1	0.73	10	1.09	245	119
563034	244	229	2.2	1.00	8	120	< 0.5	4	1.46	< 0.5	17	110	3350	1.57	< 10	< 1	0.35	20	0.50	650	143
563035	244	229	3.8	0.64	32	60	< 0.5	2	0.70	1.5	26	104	2350	2.12	< 10	< 1	0.37	10	0.26	295	175
563036	244	229	3.4	1.15	16	70	< 0.5	< 2	2.20	0.5	18	110	2780	2.12	< 10	< 1	0.48	20	0.67	1000	265
563037	244	229	3.4	2.48	56	140	< 0.5	4	3.17	11.5	14	65	2630	2.67	10	< 1	0.89	20	1.80	665	106
563038	244	229	2.2	2.18	10	100	< 0.5	2	1.81	< 0.5	15	69	4240	2.03	< 10	< 1	0.76	20	1.31	345	177
563039	244	229	1.4	2.49	12	200	< 0.5	4	2.47	< 0.5	12	64	2670	2.39	10	< 1	1.04	10	1.83	385	78
563040	244	229	2.6	3.10	12	180	< 0.5	12	2.62	< 0.5	12	51	4830	2.77	10	< 1	1.19	20	2.23	325	48

CERTIFICATION: 

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Project : CASINO 93/144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :4
Certificate Date: 18-MAY-93
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CERTIFICATE OF ANALYSIS A9314131

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
563001	244	229	0.02	4	380	14	2	3	17	0.01	< 10	< 10	22	10	74
563002	244	229	0.01	3	180	12	2	< 1	18	< 0.01	< 10	< 10	5	< 10	24
563003	244	229	0.01	2	320	30	4	2	42	< 0.01	< 10	< 10	10	< 10	20
563004	244	229	0.01	2	210	18	< 2	1	18	< 0.01	< 10	< 10	4	< 10	14
563005	244	229	0.02	7	520	30	< 2	3	19	< 0.01	< 10	< 10	19	< 10	56
563006	244	229	< 0.01	4	410	14	10	2	8	< 0.01	< 10	< 10	8	< 10	38
563007	244	229	0.01	4	400	10	6	5	12	< 0.01	< 10	< 10	15	< 10	54
563008	244	229	0.01	4	390	6	4	6	15	< 0.01	< 10	< 10	19	< 10	50
563009	244	229	0.01	7	390	22	4	6	10	< 0.01	< 10	< 10	22	10	56
563010	244	229	0.01	4	400	8	2	2	10	< 0.01	< 10	< 10	12	< 10	44
563011	244	229	0.01	4	360	4	2	2	11	< 0.01	< 10	< 10	10	< 10	34
563012	244	229	0.01	5	310	8	4	3	17	< 0.01	< 10	< 10	21	< 10	38
563013	244	229	0.04	6	470	8	2	17	43	0.12	< 10	< 10	115	10	46
563014	244	229	0.06	8	670	12	2	10	92	0.07	< 10	10	78	10	72
563015	244	229	0.07	9	740	4	< 2	21	43	0.18	< 10	10	156	20	70
563016	244	229	0.02	8	640	8	2	8	70	0.01	< 10	20	57	20	120
563017	244	229	0.08	7	810	10	2	20	59	0.14	< 10	20	153	20	44
563018	244	229	0.10	7	780	< 2	< 2	24	53	0.23	< 10	10	194	20	34
563019	244	229	0.05	5	440	2	< 2	11	41	0.08	< 10	30	90	10	36
563020	244	229	0.06	7	750	< 2	2	16	50	0.11	< 10	< 10	148	160	44
563021	244	229	0.01	7	640	8	2	11	26	< 0.01	< 10	< 10	31	10	46
563022	244	229	0.03	6	800	20	2	10	43	0.03	< 10	< 10	67	10	58
563023	244	229	0.02	6	630	8	4	11	30	0.02	< 10	< 10	72	10	44
563024	244	229	0.01	6	480	98	8	5	23	< 0.01	< 10	< 10	26	10	240
563025	244	229	0.01	4	330	4	4	3	21	< 0.01	< 10	< 10	11	10	26
563026	244	229	0.01	6	500	122	14	7	24	< 0.01	< 10	10	34	10	156
563027	244	229	0.01	4	430	108	6	4	50	< 0.01	< 10	< 10	27	10	298
563028	244	229	0.02	3	500	22	2	6	66	< 0.01	< 10	< 10	32	< 10	40
563029	244	229	0.02	6	640	12	< 2	14	63	0.06	< 10	< 10	91	10	30
563030	244	229	0.02	6	610	20	< 2	14	61	0.04	< 10	< 10	85	10	40
563031	244	229	0.02	7	680	12	4	17	46	0.07	< 10	< 10	109	10	50
563032	244	229	0.01	7	790	30	8	10	27	0.02	< 10	10	54	10	42
563033	244	229	0.01	6	420	12	< 2	15	25	0.04	< 10	< 10	87	10	22
563034	244	229	0.01	6	230	16	4	5	27	< 0.01	< 10	10	18	10	44
563035	244	229	0.01	6	220	400	14	1	17	< 0.01	< 10	< 10	9	< 10	278
563036	244	229	0.02	4	460	62	2	4	48	< 0.01	< 10	10	24	10	134
563037	244	229	0.02	8	680	446	< 2	14	88	0.04	< 10	10	93	20	1540
563038	244	229	0.02	7	670	32	4	11	100	0.03	< 10	< 10	80	10	94
563039	244	229	0.04	4	510	< 2	2	14	117	0.09	< 10	10	110	10	38
563040	244	229	0.04	9	600	14	< 2	17	99	0.11	< 10	< 10	142	20	48

CERTIFICATION: Jhai D Ma

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Analytical Chemists * Geochemists * Registered Assayers
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Certificate Date: 18-MAY-93
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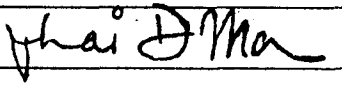
CERTIFICATE OF ANALYSIS A9314131

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
563041	244	229	1.6	3.18	14	160	< 0.5	4	3.10	< 0.5	24	34	2060	3.79	10	< 1	1.03	10	2.38	625	12
563042	244	229	3.0	1.79	8	170	< 0.5	12	3.68	< 0.5	22	67	7320	2.28	< 10	< 1	0.59	20	0.95	255	325
563043	244	229	2.8	2.85	14	130	< 0.5	16	3.99	0.5	19	58	4120	3.21	10	< 1	1.11	20	2.02	235	230
563044	244	229	2.4	3.96	8	100	< 0.5	20	2.12	< 0.5	19	109	6430	3.92	10	< 1	1.63	20	2.83	165	89
563045	244	229	2.4	3.07	6	60	< 0.5	8	2.67	< 0.5	21	73	6820	3.26	10	< 1	1.09	30	2.16	135	262
563046	244	229	1.2	2.95	6	150	< 0.5	8	2.26	< 0.5	16	90	3870	2.87	10	< 1	0.95	30	2.06	165	183
563047	244	229	1.6	2.97	14	150	< 0.5	< 2	2.43	< 0.5	14	86	3780	2.55	10	< 1	1.17	30	2.22	175	232
563048	244	229	1.2	2.59	4	140	< 0.5	2	2.06	< 0.5	13	110	2980	2.51	10	< 1	0.91	30	1.71	150	138
563049	244	229	1.4	1.88	8	70	< 0.5	2	2.10	< 0.5	10	145	2610	2.68	< 10	< 1	0.53	20	1.01	350	68
563050	244	229	2.8	1.63	8	140	< 0.5	2	2.58	< 0.5	16	113	4560	1.98	< 10	< 1	0.55	20	0.83	610	207
563051	244	229	2.2	3.04	12	210	< 0.5	8	2.49	< 0.5	18	84	6460	2.86	10	< 1	1.06	30	2.07	200	162
563052	244	229	1.4	3.38	12	260	< 0.5	16	2.38	< 0.5	17	74	4210	2.91	10	< 1	1.30	20	2.23	180	192
563053	244	229	1.8	2.39	8	180	< 0.5	6	2.26	< 0.5	20	111	3940	2.35	10	< 1	0.76	30	1.62	180	197
563054	244	229	1.2	3.18	< 2	330	< 0.5	8	2.13	0.5	13	60	3830	3.04	10	< 1	1.34	20	2.15	170	123
563055	244	229	1.6	2.13	4	250	< 0.5	6	2.37	< 0.5	21	89	3620	2.26	10	< 1	0.83	30	1.41	125	255
563056	244	229	1.4	2.45	< 2	310	< 0.5	< 2	1.59	< 0.5	19	68	2830	2.54	10	< 1	0.97	30	1.79	150	202
563057	244	229	0.6	2.07	2	240	< 0.5	< 2	1.41	< 0.5	8	86	1825	1.86	< 10	< 1	0.64	20	1.33	110	77
563058	244	229	1.2	2.14	< 2	280	< 0.5	2	1.82	< 0.5	7	92	2750	2.07	10	< 1	0.87	30	1.49	120	189
563059	244	229	1.0	2.55	< 2	570	< 0.5	6	3.23	< 0.5	10	58	2760	2.20	10	< 1	1.11	30	1.93	155	206
563060	244	229	3.4	2.55	< 2	350	< 0.5	2	1.85	0.5	13	92	4610	2.38	10	< 1	0.96	30	1.83	120	337
563061	244	229	1.6	1.80	12	310	< 0.5	< 2	1.41	1.5	9	117	3010	1.74	10	1	0.71	30	1.24	120	277
563062	244	229	1.4	2.91	4	450	< 0.5	< 2	1.90	< 0.5	12	112	3170	3.32	10	< 1	1.33	20	2.25	245	193
563063	244	229	1.6	2.72	16	120	< 0.5	10	1.89	< 0.5	14	82	3880	3.41	10	< 1	1.17	30	1.99	180	221
563064	244	229	1.2	3.00	< 2	500	< 0.5	10	2.78	< 0.5	13	46	2970	3.51	10	1	1.08	30	2.03	230	241
563065	244	229	1.2	2.52	12	640	< 0.5	8	2.86	< 0.5	11	78	2190	3.12	10	< 1	0.72	20	1.58	255	49
563066	244	229	0.8	1.98	12	330	< 0.5	< 2	3.13	< 0.5	8	68	1480	3.15	10	< 1	0.71	20	1.28	400	79
563067	244	229	4.2	2.46	138	120	< 0.5	6	3.55	0.5	9	51	2810	3.63	10	< 1	1.09	20	1.62	785	248
563068	244	229	1.4	2.40	4	330	< 0.5	6	2.31	< 0.5	10	48	3390	3.18	10	< 1	1.02	20	1.73	320	208
563069	244	229	1.6	2.69	4	170	< 0.5	16	2.09	< 0.5	10	34	4960	3.24	10	< 1	1.11	10	2.03	195	169
563070	244	229	1.2	3.21	8	200	< 0.5	4	2.84	< 0.5	10	39	2940	3.10	< 10	< 1	1.40	10	2.39	210	132
563071	244	229	1.0	3.08	< 2	180	< 0.5	4	2.91	< 0.5	9	50	2830	3.03	10	< 1	1.42	10	2.24	185	73
563072	244	229	0.6	3.54	< 2	180	< 0.5	8	3.18	< 0.5	12	58	3060	3.47	10	< 1	1.60	10	2.46	170	83
563073	244	229	0.8	3.37	2	60	< 0.5	12	3.25	< 0.5	9	57	2560	3.84	10	< 1	1.68	20	2.48	160	108
563074	244	229	0.8	2.95	6	90	< 0.5	2	3.19	< 0.5	8	68	2240	4.01	10	< 1	1.49	10	2.23	170	109
563075	244	229	1.4	2.70	< 2	90	< 0.5	2	3.47	0.5	9	82	1935	3.66	10	< 1	1.30	20	2.11	505	25
563076	244	229	1.8	2.72	4	60	< 0.5	4	3.34	< 0.5	15	82	3320	3.34	10	< 1	1.37	20	2.16	190	62
563077	244	229	1.8	2.25	26	80	< 0.5	8	3.85	1.0	12	111	3430	3.58	10	< 1	0.95	20	1.79	255	28
563078	244	229	0.6	1.70	2	90	< 0.5	< 2	2.03	< 0.5	10	103	1450	2.96	10	< 1	0.45	10	1.42	175	20
563079	244	229	0.2	2.07	< 2	320	< 0.5	< 2	1.90	0.5	7	104	876	3.45	10	< 1	0.48	10	1.49	190	38
563080	244	229	0.8	2.17	6	350	< 0.5	6	2.36	< 0.5	10	78	1955	3.30	10	< 1	0.64	10	1.52	180	45

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-MAY-93
Invoice No. :19314131
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314131

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
563041	244	229	0.07	6	740	8	< 2	16	77	0.09	< 10	< 10	142	20	114
563042	244	229	0.04	6	490	4	2	7	78	0.02	< 10	30	58	10	48
563043	244	229	0.04	8	720	30	4	15	86	0.09	< 10	10	125	20	90
563044	244	229	0.09	9	1080	2	< 2	24	115	0.20	< 10	< 10	185	20	40
563045	244	229	0.04	9	700	2	2	16	99	0.09	< 10	< 10	129	20	34
563046	244	229	0.07	9	660	4	4	14	95	0.08	< 10	< 10	122	20	40
563047	244	229	0.06	8	630	4	4	16	91	0.12	< 10	< 10	134	20	34
563048	244	229	0.08	8	540	< 2	2	13	125	0.09	< 10	< 10	121	10	34
563049	244	229	0.03	4	520	16	2	5	71	< 0.01	< 10	< 10	46	10	72
563050	244	229	0.02	6	570	28	2	4	59	< 0.01	< 10	< 10	37	10	64
563051	244	229	0.06	9	710	22	2	15	86	0.09	< 10	< 10	141	20	72
563052	244	229	0.06	9	750	< 2	< 2	18	107	0.11	< 10	< 10	154	20	40
563053	244	229	0.04	9	650	4	2	12	76	0.05	< 10	< 10	100	10	60
563054	244	229	0.11	8	1080	2	6	17	213	0.18	< 10	< 10	155	20	38
563055	244	229	0.06	7	630	4	2	11	68	0.07	< 10	< 10	100	10	28
563056	244	229	0.06	7	700	16	2	15	70	0.11	< 10	10	135	10	58
563057	244	229	0.07	4	610	4	< 2	9	59	0.06	< 10	< 10	78	10	28
563058	244	229	0.06	4	650	12	2	12	62	0.09	< 10	< 10	105	10	36
563059	244	229	0.06	9	640	8	4	13	95	0.12	< 10	10	117	10	32
563060	244	229	0.06	7	560	36	4	15	107	0.08	< 10	< 10	118	10	60
563061	244	229	0.06	5	380	62	4	9	46	0.06	< 10	10	81	10	158
563062	244	229	0.07	11	1040	10	2	17	60	0.17	< 10	10	147	20	56
563063	244	229	0.08	8	880	8	4	16	68	0.15	< 10	10	148	20	42
563064	244	229	0.05	7	970	6	2	14	76	0.14	< 10	< 10	121	20	38
563065	244	229	0.04	11	790	< 2	2	9	127	0.07	< 10	< 10	78	20	34
563066	244	229	0.05	7	820	4	2	10	80	0.08	< 10	< 10	80	20	44
563067	244	229	0.04	8	1050	22	16	13	93	0.13	< 10	< 10	105	20	84
563068	244	229	0.04	6	940	10	2	13	80	0.12	< 10	< 10	114	20	32
563069	244	229	0.04	7	1160	4	< 2	13	122	0.12	< 10	< 10	126	20	38
563070	244	229	0.09	6	1380	4	2	17	261	0.19	< 10	< 10	151	20	42
563071	244	229	0.10	6	1300	10	4	18	538	0.20	< 10	< 10	147	20	38
563072	244	229	0.15	6	1120	4	< 2	20	332	0.24	< 10	< 10	164	20	36
563073	244	229	0.10	8	1050	< 2	2	19	146	0.26	< 10	< 10	155	30	36
563074	244	229	0.10	9	1070	2	< 2	17	136	0.24	< 10	< 10	155	20	36
563075	244	229	0.07	10	940	16	2	15	193	0.20	< 10	< 10	135	20	66
563076	244	229	0.08	12	950	16	2	16	115	0.20	< 10	< 10	144	20	48
563077	244	229	0.08	13	860	42	2	13	178	0.13	< 10	< 10	108	20	108
563078	244	229	0.06	14	570	12	4	6	219	0.05	< 10	< 10	61	10	40
563079	244	229	0.06	14	780	8	2	6	140	0.04	< 10	< 10	61	20	40
563080	244	229	0.04	15	840	14	< 2	7	402	0.06	< 10	< 10	64	20	38

CERTIFICATION: Jhai D'Ma

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VANCOUVER, BC
V6B 1L8

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Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-MAY-93
Invoice No. :19314131
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CERTIFICATE OF ANALYSIS A9314131

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
563081	244	229	1.6	1.48	14	240	< 0.5	16	2.27	< 0.5	13	63	5380	1.73	10	< 1	0.64	20	1.05	105	128
563082	244	229	1.8	1.24	18	170	< 0.5	6	2.53	< 0.5	15	81	6000	2.15	< 10	< 1	0.46	20	1.09	160	154
563083	244	229	2.0	1.62	26	260	< 0.5	10	3.15	< 0.5	17	90	5610	2.33	< 10	< 1	0.63	10	1.22	185	106
563084	244	229	1.8	1.42	18	210	< 0.5	4	2.22	< 0.5	18	59	4750	2.54	< 10	< 1	0.39	20	0.96	165	55
563085	244	229	2.6	1.59	22	170	< 0.5	16	2.97	< 0.5	15	41	6570	2.22	< 10	1	0.55	20	1.21	235	155
563086	244	229	4.8	0.83	678	90	< 0.5	22	1.96	< 0.5	17	83	9540	2.21	< 10	< 1	0.35	20	0.78	895	393
563087	244	229	3.4	0.92	28	130	< 0.5	8	1.63	< 0.5	21	101	9240	2.02	< 10	1	0.34	20	0.60	175	351
563088	244	229	2.8	0.86	42	120	< 0.5	10	1.46	< 0.5	22	102	7860	1.89	< 10	< 1	0.34	10	0.57	175	343
563089	244	229	4.6	0.84	38	100	< 0.5	12	2.06	< 0.5	20	120	>10000	2.17	< 10	< 1	0.34	20	0.56	275	916
563090	244	229	6.2	2.06	484	70	< 0.5	14	2.71	26.0	21	63	5770	3.08	10	1	0.76	20	1.13	440	152
563091	244	229	1.2	2.83	18	220	< 0.5	6	2.52	< 0.5	20	67	2510	3.65	10	2	1.19	10	1.84	190	24
563092	244	229	0.8	1.42	44	160	< 0.5	6	1.98	< 0.5	20	121	2170	2.32	< 10	1	0.54	20	1.11	225	36
563093	244	229	1.8	1.01	40	190	< 0.5	< 2	1.91	< 0.5	12	127	2560	1.83	< 10	< 1	0.29	20	0.67	295	168
563094	244	229	0.8	1.01	20	120	< 0.5	< 2	2.42	< 0.5	11	81	1690	1.63	< 10	< 1	0.23	10	0.84	235	37
563095	244	229	2.0	0.86	104	40	< 0.5	14	3.44	< 0.5	24	114	2390	2.52	< 10	< 1	0.19	20	1.27	525	47
563096	244	229	1.6	0.76	150	170	< 0.5	2	3.44	< 0.5	22	73	2200	2.34	< 10	2	0.25	10	1.24	695	86
563097	244	229	2.0	0.72	214	120	< 0.5	2	2.27	< 0.5	17	54	1720	2.12	< 10	< 1	0.22	10	0.76	700	46
563098	244	229	2.0	0.80	236	50	< 0.5	8	1.83	< 0.5	9	65	1960	2.02	< 10	1	0.21	10	0.65	840	32
563099	244	229	1.6	1.30	30	160	< 0.5	2	2.16	< 0.5	22	68	1535	3.14	< 10	< 1	0.34	10	1.05	455	25
563100	244	229	3.2	0.99	174	40	< 0.5	20	2.73	< 0.5	12	98	2510	3.80	< 10	< 1	0.42	10	1.17	525	51
563101	244	229	1.6	1.50	12	310	< 0.5	2	2.46	< 0.5	13	92	1745	2.27	< 10	< 1	0.46	20	0.84	260	52
563102	244	229	0.6	1.80	6	550	< 0.5	< 2	2.25	< 0.5	12	82	1860	1.72	10	< 1	0.57	20	0.90	125	79
563103	244	229	1.4	1.53	66	390	< 0.5	8	2.24	< 0.5	12	82	3200	2.00	< 10	< 1	0.27	20	0.83	235	118
563104	244	229	2.8	1.29	32	200	< 0.5	2	2.14	< 0.5	15	78	2130	2.13	< 10	1	0.35	10	0.68	285	104
563105	244	229	1.0	1.58	8	270	< 0.5	4	2.11	< 0.5	20	77	2280	2.22	10	1	0.45	20	0.80	125	18
563106	244	229	0.8	1.82	6	470	< 0.5	< 2	2.98	< 0.5	10	77	1745	2.09	10	< 1	0.54	20	0.99	130	9
563107	244	229	0.4	1.40	< 2	140	< 0.5	2	2.40	< 0.5	10	68	989	1.42	< 10	< 1	0.20	20	0.56	90	10
563108	244	229	0.8	1.33	< 2	180	< 0.5	< 2	2.08	< 0.5	9	82	1885	1.40	10	< 1	0.21	20	0.62	90	19
563109	244	229	1.4	1.32	12	270	< 0.5	6	2.58	< 0.5	9	121	2070	1.72	10	< 1	0.32	20	0.67	125	69
563110	244	229	1.4	1.20	18	280	< 0.5	4	3.17	< 0.5	10	128	1955	1.49	10	< 1	0.28	30	0.61	160	119
563111	244	229	0.8	1.22	32	250	< 0.5	2	3.12	< 0.5	9	137	1965	1.71	10	< 1	0.30	30	0.43	190	29
563112	244	229	1.0	0.85	76	200	< 0.5	< 2	1.26	< 0.5	15	112	1840	1.51	< 10	1	0.36	20	0.45	155	61
563113	244	229	0.8	1.04	24	290	< 0.5	< 2	1.67	< 0.5	16	130	1560	1.47	< 10	1	0.28	20	0.54	195	36
563114	244	229	0.8	1.54	< 2	350	< 0.5	< 2	1.80	< 0.5	17	129	1720	2.15	10	< 1	0.38	20	0.75	175	100
563115	244	229	2.8	0.97	56	220	< 0.5	4	2.69	< 0.5	14	95	3100	1.97	< 10	2	0.26	20	0.81	345	93
563116	244	229	1.8	1.95	80	280	< 0.5	6	2.22	< 0.5	16	112	1785	3.18	10	< 1	0.83	20	1.40	605	50
563117	244	229	2.2	0.83	112	140	< 0.5	4	2.67	2.0	7	72	2560	2.16	< 10	< 1	0.34	10	0.77	470	170
563118	244	229	0.8	1.85	8	140	< 0.5	< 2	2.29	< 0.5	10	133	2230	2.54	10	2	0.68	10	1.20	235	268
563119	244	229	1.0	1.52	< 2	150	< 0.5	2	2.07	< 0.5	11	159	2250	1.74	< 10	< 1	0.57	20	0.64	140	261
563120	244	229	1.2	1.81	22	370	< 0.5	< 2	2.30	< 0.5	13	82	2590	1.79	10	1	0.55	20	0.66	110	203

CERTIFICATION: Jhai D Ma

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563081	244	229	0.02	14	670	8	2	8	135	0.02	< 10	10	54	10	26
563082	244	229	0.01	14	840	12	2	8	56	0.01	< 10	10	47	10	26
563083	244	229	0.02	18	770	< 2	2	10	73	0.02	< 10	10	62	10	28
563084	244	229	0.01	17	860	8	2	8	50	0.01	< 10	< 10	49	10	32
563085	244	229	0.02	15	1330	8	< 2	10	56	0.02	< 10	< 10	68	20	46
563086	244	229	0.01	16	650	66	72	2	33	< 0.01	< 10	< 10	13	20	276
563087	244	229	0.01	16	410	10	4	3	23	< 0.01	< 10	< 10	16	10	50
563088	244	229	0.01	14	410	14	10	1	22	< 0.01	< 10	< 10	10	10	44
563089	244	229	0.01	16	370	4	6	2	25	< 0.01	< 10	< 10	16	20	66
563090	244	229	0.03	12	890	110	122	9	214	0.04	< 10	< 10	58	20	1570
563091	244	229	0.06	6	1420	12	2	16	485	0.16	< 10	< 10	110	20	46
563092	244	229	0.03	9	640	6	2	10	47	0.03	< 10	< 10	42	10	42
563093	244	229	0.01	10	370	6	10	2	53	< 0.01	< 10	< 10	16	10	26
563094	244	229	0.01	9	530	8	2	3	32	< 0.01	< 10	< 10	27	< 10	30
563095	244	229	< 0.01	16	470	16	46	6	26	< 0.01	< 10	< 10	38	10	38
563096	244	229	< 0.01	11	500	6	122	6	34	< 0.01	< 10	10	28	10	42
563097	244	229	< 0.01	6	510	24	180	4	23	< 0.01	< 10	< 10	24	< 10	88
563098	244	229	< 0.01	12	540	8	38	6	20	< 0.01	< 10	< 10	24	< 10	36
563099	244	229	0.01	12	680	4	2	11	48	0.02	< 10	< 10	58	10	30
563100	244	229	0.01	6	560	20	14	6	70	< 0.01	< 10	< 10	33	10	44
563101	244	229	0.01	7	570	8	2	13	56	0.04	< 10	< 10	61	10	24
563102	244	229	0.02	6	500	8	2	11	153	0.04	< 10	< 10	56	10	26
563103	244	229	0.01	7	530	4	20	11	95	0.01	< 10	< 10	49	10	42
563104	244	229	0.02	7	510	24	4	11	206	0.02	< 10	< 10	48	< 10	64
563105	244	229	0.03	7	580	4	2	12	168	0.05	< 10	< 10	62	< 10	22
563106	244	229	0.03	8	530	8	< 2	10	361	0.05	< 10	< 10	61	< 10	24
563107	244	229	0.02	6	500	8	< 2	3	170	< 0.01	< 10	< 10	21	< 10	18
563108	244	229	0.03	4	490	14	< 2	4	171	< 0.01	< 10	< 10	26	< 10	24
563109	244	229	0.04	6	570	10	< 2	5	312	0.01	< 10	< 10	30	< 10	28
563110	244	229	0.02	5	540	24	2	3	433	< 0.01	< 10	< 10	20	10	32
563111	244	229	0.03	5	620	12	4	3	662	< 0.01	< 10	< 10	19	< 10	30
563112	244	229	0.01	6	550	14	22	1	31	< 0.01	< 10	< 10	7	< 10	26
563113	244	229	0.01	5	450	8	4	2	52	< 0.01	< 10	< 10	14	< 10	22
563114	244	229	0.03	7	560	6	2	11	124	0.03	< 10	< 10	53	< 10	28
563115	244	229	0.01	7	570	10	16	6	99	< 0.01	< 10	< 10	31	10	46
563116	244	229	0.01	22	750	12	24	11	72	0.12	< 10	< 10	78	< 10	54
563117	244	229	0.01	12	530	84	40	5	58	0.02	< 10	10	33	10	244
563118	244	229	0.03	12	610	6	2	9	90	0.07	< 10	10	70	10	32
563119	244	229	0.01	12	490	2	2	7	39	0.02	< 10	10	42	< 10	20
563120	244	229	0.01	11	780	14	2	9	57	0.03	< 10	10	51	< 10	26

CERTIFICATION: John D'Mar

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
563121	244	229	1.4	1.13	4	240	< 0.5	2	3.35	< 0.5	12	72	2860	1.88	< 10	1	0.52	20	0.70	185	171
563122	244	229	1.4	1.12	12	240	< 0.5	8	2.40	< 0.5	13	38	3200	1.98	< 10	1	0.47	20	0.72	155	102
563123	244	229	0.8	0.71	18	430	< 0.5	2	2.05	< 0.5	10	84	1680	1.27	< 10	< 1	0.21	20	0.55	165	58
563124	244	229	0.8	0.70	52	290	< 0.5	< 2	2.15	< 0.5	13	40	1620	1.12	< 10	< 1	0.10	20	0.50	165	25
563125	244	229	1.4	1.49	36	280	< 0.5	4	2.89	< 0.5	10	81	1905	2.25	< 10	< 1	0.59	20	0.99	365	85
563126	244	229	4.2	1.53	76	110	< 0.5	12	3.43	< 0.5	17	40	4770	3.30	< 10	< 1	0.55	10	1.01	530	166
563127	244	229	0.8	2.59	< 2	540	< 0.5	< 2	3.23	< 0.5	14	46	1835	2.86	10	< 1	1.00	20	1.81	325	68
563128	244	229	2.0	2.33	10	550	< 0.5	2	3.59	< 0.5	14	35	2810	2.57	10	< 1	1.04	20	1.72	245	84
563129	244	229	1.0	0.97	12	390	< 0.5	2	3.54	< 0.5	7	53	1470	1.04	< 10	2	0.32	10	0.50	205	32
563130	244	229	1.6	1.01	12	290	< 0.5	2	2.90	< 0.5	8	46	1935	1.48	< 10	1	0.32	20	0.62	250	37
563131	244	229	2.6	0.89	8	280	< 0.5	4	3.15	< 0.5	9	133	3620	1.62	< 10	2	0.34	30	0.58	255	341
563132	244	229	1.2	1.02	8	380	< 0.5	4	3.35	< 0.5	9	62	2160	1.51	< 10	1	0.40	10	0.68	250	57
563133	244	229	70.6	0.42	640	260	< 0.5	6	2.23	3.5	9	145	4220	1.41	< 10	< 1	0.19	10	0.81	1340	51
563134	244	229	3.6	0.64	140	330	< 0.5	6	2.77	< 0.5	9	68	2770	1.69	< 10	1	0.14	10	0.98	750	22
563135	244	229	1.4	0.86	62	240	< 0.5	8	1.72	< 0.5	9	118	3210	1.71	< 10	< 1	0.14	20	0.52	190	40
563136	244	229	3.0	0.77	98	150	< 0.5	16	2.07	< 0.5	13	65	6880	2.16	< 10	< 1	0.18	10	0.65	215	189
563137	244	229	1.2	1.01	30	300	< 0.5	< 2	2.46	< 0.5	13	88	1805	2.45	< 10	1	0.35	20	0.80	155	98
563138	244	229	0.6	1.27	22	360	< 0.5	2	3.39	< 0.5	9	65	1610	2.31	< 10	< 1	0.59	20	1.07	165	197
563139	244	229	0.4	1.29	26	280	< 0.5	< 2	3.15	< 0.5	6	87	909	2.76	< 10	1	0.47	20	1.25	190	95
563140	244	229	0.4	1.01	6	270	< 0.5	< 2	2.68	< 0.5	7	67	989	1.94	< 10	< 1	0.46	10	1.10	130	51
563141	244	229	0.4	1.49	2	590	< 0.5	4	2.29	< 0.5	7	82	1090	2.34	10	< 1	0.68	20	1.20	135	61
563142	244	229	0.6	1.54	8	250	< 0.5	2	2.35	< 0.5	12	77	1885	2.10	10	< 1	0.57	20	1.34	140	32
563143	244	229	1.2	1.20	20	330	< 0.5	4	2.54	< 0.5	10	91	2040	1.71	< 10	< 1	0.43	10	1.25	190	10
563144	244	229	2.6	0.70	42	130	< 0.5	4	2.40	< 0.5	10	69	3490	1.65	< 10	< 1	0.25	20	0.84	140	131
563145	244	229	0.8	1.27	14	340	< 0.5	4	3.76	< 0.5	11	72	2010	2.49	< 10	< 1	0.47	10	1.38	150	38
563146	244	229	1.0	1.01	2	160	< 0.5	6	4.80	< 0.5	13	61	2360	2.34	< 10	< 1	0.38	10	1.55	170	9
563147	244	229	0.6	1.00	4	280	< 0.5	6	2.82	< 0.5	14	90	1965	1.91	< 10	1	0.44	10	0.97	135	25

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

TO: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/144
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-MAY-93
Invoice No. :I9314131
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314131

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
563121	244	229	0.01	10	480	16	2	8	64	0.04	< 10	10	43	10	26
563122	244	229	0.01	9	670	16	< 2	8	61	0.05	< 10	10	48	10	28
563123	244	229	< 0.01	5	640	14	6	6	40	0.01	< 10	< 10	25	< 10	24
563124	244	229	< 0.01	7	1080	12	2	9	32	< 0.01	< 10	< 10	33	< 10	18
563125	244	229	0.01	7	1020	8	6	10	50	0.07	< 10	< 10	63	10	38
563126	244	229	0.01	7	810	66	6	9	60	0.03	< 10	10	56	10	84
563127	244	229	0.03	2	860	< 2	< 2	12	171	0.09	< 10	< 10	100	10	28
563128	244	229	0.03	4	790	2	2	13	435	0.09	< 10	< 10	100	10	30
563129	244	229	0.02	2	320	8	< 2	4	95	0.01	< 10	< 10	24	< 10	14
563130	244	229	0.02	2	460	6	2	5	88	0.01	< 10	< 10	31	< 10	28
563131	244	229	0.02	3	510	8	4	4	69	0.01	< 10	< 10	28	< 10	30
563132	244	229	0.01	2	390	8	2	6	71	0.02	< 10	< 10	33	< 10	18
563133	244	229	0.01	3	350	12	382	2	30	< 0.01	< 10	10	12	10	204
563134	244	229	< 0.01	4	490	18	32	7	38	< 0.01	< 10	10	30	< 10	56
563135	244	229	< 0.01	3	1010	18	12	9	23	< 0.01	< 10	< 10	33	< 10	46
563136	244	229	< 0.01	4	890	38	8	6	25	< 0.01	< 10	20	27	10	76
563137	244	229	0.01	15	940	16	4	7	52	0.03	< 10	< 10	42	< 10	32
563138	244	229	0.02	14	840	4	2	7	72	0.07	< 10	< 10	45	< 10	32
563139	244	229	0.02	15	910	16	2	8	65	0.05	< 10	< 10	50	< 10	42
563140	244	229	0.01	13	850	8	< 2	7	50	0.06	< 10	< 10	43	< 10	24
563141	244	229	0.03	13	820	10	< 2	7	282	0.09	< 10	< 10	52	< 10	24
563142	244	229	0.03	13	840	10	< 2	7	465	0.06	< 10	< 10	54	< 10	28
563143	244	229	0.02	13	770	10	< 2	6	198	0.03	< 10	< 10	44	< 10	38
563144	244	229	0.01	13	840	12	6	4	37	< 0.01	< 10	< 10	21	< 10	38
563145	244	229	0.02	13	780	8	< 2	6	85	0.03	< 10	< 10	39	< 10	28
563146	244	229	0.02	11	730	18	2	5	103	0.02	< 10	< 10	35	10	38
563147	244	229	0.04	11	770	2	< 2	4	73	0.03	< 10	< 10	38	< 10	30

CERTIFICATION: Jhai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-APR-93
Invoice No. : I9312884
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9312884

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
567501	208 276	0.05	0.009	0.07	1.4	9760
567502	208 276	0.07	0.007	0.10	1.0	8260
567503	208 276	0.14	0.017	0.17	1.5	10600
567504	208 276	0.14	0.022	0.24	3.8	8820
567505	208 276	0.09	0.041	0.27	4.2	7360
567506	208 276	0.07	0.021	0.10	1.6	7000
567507	208 276	0.08	0.015	0.21	1.5	8420
567508	208 273	0.07	0.011	0.07	1.9	11460
567509	208 276	0.08	0.015	0.10	1.6	8460
567510	208 276	0.11	0.016	0.17	1.7	7700
567511	208 274	0.15	0.019	0.17	1.7	5420
567512	208 276	0.16	0.021	0.38	2.6	10120
567513	208 273	0.09	0.036	0.89	3.9	11760
567514	208 273	0.10	0.041	0.34	2.7	11400
567515	208 276	0.09	0.052	0.31	3.7	8300
567516	208 274	0.07	0.068	0.45	4.0	10000
567517	208 --	0.15	0.055	0.58	1.0	6120
567518	208 276	0.08	0.103	0.58	5.2	11120
567519	208 276	0.11	0.111	0.51	2.6	9840
567520	208 276	0.10	0.111	0.41	1.6	8160
567521	208 276	0.04	0.098	0.14	1.4	10280
567522	208 273	0.03	0.073	0.24	1.8	12120
567523	208 276	0.05	0.163	0.41	3.2	11000
567524	208 276	0.03	0.113	0.34	2.8	10100
567525	208 276	0.04	0.143	0.58	3.1	10900
567526	208 273	0.10	0.093	0.65	2.6	11600
567527	208 273	0.07	0.130	0.51	2.3	11480
567528	208 276	0.05	0.112	0.31	1.9	10740
567529	208 276	0.09	0.077	0.75	2.0	10720
567530	208 276	0.12	0.049	0.79	2.5	10200
567531	208 276	0.15	0.129	0.93	2.7	10360
567532	208 273	0.11	0.126	0.58	2.1	11600
567533	208 273	0.39	0.154	0.99	3.2	13000
567534	208 276	0.22	0.126	0.62	1.7	11100
567535	208 276	0.77	0.165	0.69	1.9	9920
567536	208 273	1.05	0.049	0.79	2.4	11740
567537	208 276	0.81	0.054	0.41	1.8	10440
567538	208 276	1.21	0.094	0.48	2.0	9600
567539	208 276	0.86	0.044	0.79	2.9	11360
567540	208 276	1.23	0.040	0.41	1.8	7760

CERTIFICATION: D Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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): ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-APR-93
Invoice No. : I9312884
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9312884

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
567541	208	276	2.90	0.071	0.55	2.6	10280					
567542	208	276	1.59	0.073	0.55	1.9	8860					
567543	208	276	0.99	0.064	0.82	2.1	10140					
567544	208	276	0.67	0.061	0.79	1.8	7120					
567545	208	276	0.71	0.133	0.69	2.6	10820					
567546	208	276	0.81	0.114	0.86	3.6	11120					
567547	208	273	1.19	0.095	1.37	5.1	14420					
567548	208	276	0.97	0.137	1.58	2.9	10920					
567549	208	276	1.08	0.143	0.82	2.2	8820					
567550	208	273	0.46	0.032	0.62	2.5	11620					
567551	208	273	0.44	0.187	0.96	2.3	16000					
567552	208	273	0.45	0.069	0.89	2.4	14400					
567553	208	273	0.66	0.090	1.34	2.1	11920					
567554	208	276	0.59	0.086	1.10	2.4	10960					
567555	208	276	0.49	0.125	0.82	1.5	10950					
567556	208	273	0.61	0.090	1.23	2.9	16000					
567557	208	273	0.71	0.099	1.27	3.6	11520					
567558	208	276	0.45	0.065	0.45	4.4	10140					
567559	208	276	0.61	0.100	0.99	3.3	10800					
567560	208	276	0.55	0.158	1.03	2.2	9160					
567561	208	273	0.42	0.119	0.96	1.8	11860					
567562	208	276	0.37	0.127	0.69	2.0	11000					
567563	208	273	0.49	0.118	1.20	2.5	12340					
567564	208	273	0.38	0.080	0.55	2.0	12220					
567565	208	274	0.27	0.040	0.41	1.1	6200					
567566	208	276	0.51	0.090	0.51	4.5	7140					
567567	208	276	0.25	0.080	0.45	1.8	9540					
567568	208	273	0.34	0.071	0.79	1.6	11800					
567569	208	273	0.31	0.111	0.75	1.0	12060					
567570	208	273	0.22	0.079	0.69	0.5	12140					
567571	208	273	0.25	0.091	0.79	2.5	13460					
567572	208	276	0.35	0.220	0.55	1.4	6940					
567573	208	273	0.17	0.057	0.27	0.7	12360					
567574	208	273	0.27	0.078	1.30	1.4	13220					
567575	208	276	0.17	0.089	0.38	0.8	9420					
567576	208	276	0.24	0.074	0.48	1.8	10180					
567577	208	274	0.33	0.107	0.58	2.0	6120					
567578	208	276	0.17	0.059	0.27	1.4	7040					
567579	208	274	0.25	0.076	0.21	3.1	5000					
567580	208	276	0.29	0.095	0.24	1.3	7280					

CERTIFICATION: A Chacko

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
Total Pages :4
Certificate Date: 15-APR-93
Invoice No. :19312884
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9312884

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
567581	208	276	0.31	0.105	0.75	1.7	10100					
567582	208	276	0.23	0.097	0.51	1.5	10800					
567583	208	273	0.13	0.049	0.21	0.9	11560					
567584	208	273	0.20	0.151	0.34	1.4	11600					
567585	208	273	0.32	0.147	0.65	1.5	12300					
567586	208	273	0.18	0.166	0.41	0.7	11640					
567587	208	273	0.09	0.056	0.14	0.8	12020					
567588	208	273	0.10	0.033	0.21	0.7	11700					
567589	208	273	0.13	0.063	0.24	1.0	12680					
567590	208	273	0.15	0.040	0.31	0.7	12680					
567591	208	273	0.14	0.023	0.17	0.9	11840					
567592	208	273	0.22	0.111	0.48	0.7	12220					
567593	208	273	0.26	0.099	0.62	0.9	13400					
567594	208	273	0.15	0.047	0.24	0.5	13100					
567595	208	276	0.21	0.131	0.34	0.6	9360					
567596	208	276	0.33	0.093	0.62	1.0	10800					
567597	208	276	0.25	0.222	0.41	0.8	10880					
567598	208	273	0.23	0.105	0.41	1.0	11600					
567599	208	276	0.13	0.061	0.38	0.8	11000					
567600	208	273	0.12	0.133	0.17	0.5	13560					
567601	208	273	0.09	0.158	0.14	0.6	13000					
567602	208	273	0.15	0.120	0.21	0.6	11860					
567603	208	273	0.16	0.076	0.21	0.8	12300					
567604	208	273	0.27	0.166	0.41	1.6	11660					
567605	208	276	0.14	0.148	0.31	0.9	10760					
567606	208	273	0.18	0.210	0.31	1.3	12640					
567607	208	273	0.16	0.101	0.24	1.5	11600					
567608	208	276	0.10	0.077	0.17	0.9	10880					
567609	208	276	0.11	0.154	0.14	0.5	10460					
567610	208	273	0.23	0.116	0.45	1.2	12000					
567611	208	276	0.15	0.076	0.27	0.9	11320					
567612	208	276	0.12	0.112	0.21	0.6	10900					
567613	208	273	0.21	0.079	0.38	1.2	11480					
567614	208	273	0.21	0.057	0.34	1.6	13000					
567615	208	273	0.21	0.071	0.31	1.2	14140					
567616	208	273	0.16	0.083	0.27	0.8	12160					
567617	208	273	0.16	0.033	0.14	0.9	13100					
567618	208	276	0.19	0.104	0.24	1.2	11380					
567619	208	276	0.18	0.119	0.27	1.2	11160					
567620	208	273	0.28	0.061	0.48	2.4	11980					

CERTIFICATION: A Ghaffari

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

): ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page er :4
Total Pages :4
Certificate Date: 15-APR-93
Invoice No. :19312884
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9312884

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
567621	208	273	0.19	0.148	0.34	1.4	11980					
567622	208	274	0.08	0.037	0.07	0.6	4260					
567623	208	273	0.14	0.096	0.21	1.0	12280					
567624	208	273	0.09	0.093	0.10	0.4	11660					
567625	208	274	0.13	0.081	0.14	0.5	3520					
567626	208	273	0.08	0.046	0.10	0.8	11040					
567627	208	273	0.15	0.082	0.21	0.8	11640					
567628	208	273	0.13	0.111	0.24	0.6	12320					
567629	208	273	0.09	0.073	0.07	0.5	12680					
567630	208	273	0.06	0.064	0.07	0.4	13140					
567631	208	273	0.08	0.050	0.03	0.4	12200					
567632	208	273	0.17	0.102	0.17	0.8	11700					
567633	208	273	0.04	0.019	0.07	< 0.3	13200					
567634	208	273	0.06	0.020	0.14	0.3	13220					
567635	208	273	0.05	0.020	0.07	0.4	12380					
567636	208	273	0.07	0.018	0.07	0.3	12560					
567637	208	273	0.03	0.017	0.03	< 0.3	13120					
567638	208	273	0.07	0.043	0.07	0.5	12120					
567639	208	273	0.15	0.034	0.14	0.6	11840					
567640	208	276	0.11	0.021	0.10	0.4	11120					
567641	208	273	0.08	0.081	0.03	0.5	11660					
567642	208	276	0.13	0.067	0.07	0.8	11240					
567643	208	276	0.16	0.045	0.21	1.0	11120					
567644	208	276	0.17	0.044	0.24	1.1	10260					
567645	208	276	0.17	0.073	0.21	0.9	11300					
567646	208	273	0.18	0.083	0.21	1.4	12360					
567647	208	276	0.09	0.030	0.10	0.9	11160					
567648	208	273	0.03	0.036	0.03	0.3	11960					
567649	208	273	0.11	0.114	0.10	1.2	11880					
567650	208	273	0.11	0.113	0.14	0.8	11380					
567651	208	273	0.16	0.105	0.14	1.2	11420					
567652	208	276	0.14	0.090	0.17	0.9	11240					
567653	208	276	0.07	0.075	0.07	0.7	11640					

CERTIFICATION: D Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 17-MAY-93
Invoice No. :I9314132
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314132

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567501	244	229	0.8	1.42	8	260	< 0.5	< 2	0.40	1.0	10	95	505	3.35	10	< 1	0.43	30	1.09	270	41
567502	244	229	0.8	1.37	14	260	< 0.5	< 2	0.41	0.5	13	76	685	3.34	10	< 1	0.42	30	1.08	340	35
567503	244	229	1.2	1.41	14	270	< 0.5	2	0.31	1.0	14	86	1415	3.71	10	< 1	0.49	30	1.03	640	93
567504	244	229	3.6	1.43	34	290	< 0.5	2	0.28	4.0	16	65	1445	3.68	10	< 1	0.51	30	0.77	830	118
567505	244	229	4.0	0.93	38	280	< 0.5	12	0.14	4.5	4	64	881	4.83	< 10	< 1	0.45	30	0.33	135	222
567506	244	229	1.2	1.48	12	260	< 0.5	4	0.19	1.0	13	69	709	4.09	10	< 1	0.42	30	0.82	525	116
567507	244	229	1.4	1.90	22	270	< 0.5	< 2	0.18	1.0	9	84	791	3.91	10	< 1	0.73	60	1.29	350	76
567508	244	229	1.8	1.19	16	260	< 0.5	4	0.11	1.0	6	59	654	4.22	< 10	< 1	0.45	30	0.67	175	59
567509	244	229	1.4	1.35	18	280	< 0.5	4	0.15	1.0	10	68	748	4.38	10	< 1	0.57	40	0.68	195	81
567510	244	229	1.2	1.56	6	270	< 0.5	< 2	0.17	1.0	12	63	1160	3.59	< 10	< 1	0.50	20	0.80	280	83
567511	244	229	1.4	1.05	12	300	< 0.5	4	0.14	2.0	13	67	1435	4.18	< 10	< 1	0.46	20	0.53	295	97
567512	244	229	2.4	1.04	22	340	< 0.5	6	0.11	0.5	8	50	1675	4.77	< 10	< 1	0.58	30	0.53	130	111
567513	244	229	4.2	0.74	22	170	< 0.5	2	0.02	< 0.5	3	73	1065	4.03	< 10	< 1	0.61	40	0.28	70	227
567514	244	229	2.6	0.50	10	130	< 0.5	2	0.01	< 0.5	2	80	1025	3.18	< 10	< 1	0.22	40	0.03	65	251
567515	244	229	3.6	0.42	14	130	< 0.5	4	0.01	< 0.5	2	108	912	3.51	< 10	< 1	0.24	40	0.03	45	298
567516	244	229	3.6	0.73	16	200	< 0.5	4	0.03	< 0.5	3	80	712	3.04	< 10	< 1	0.45	30	0.18	50	407
567517	244	229	1.0	1.04	24	160	< 0.5	4	0.07	< 0.5	4	71	1535	3.19	< 10	< 1	0.42	40	0.34	80	316
567518	244	229	5.4	0.43	38	130	< 0.5	< 2	0.02	< 0.5	2	69	823	2.17	< 10	< 1	0.25	40	0.07	35	623
567519	244	229	2.8	0.80	30	170	< 0.5	< 2	0.03	< 0.5	4	94	1095	2.73	< 10	< 1	0.41	30	0.31	70	653
567520	244	229	1.8	1.12	24	280	< 0.5	< 2	0.05	< 0.5	6	84	979	3.06	< 10	< 1	0.58	60	0.50	100	681
567521	244	229	1.2	0.31	20	60	< 0.5	2	0.02	< 0.5	1	99	390	1.31	< 10	< 1	0.17	60	0.02	25	622
567522	244	229	1.8	0.32	12	80	< 0.5	2	0.02	< 0.5	1	149	328	1.29	< 10	< 1	0.24	70	0.02	25	442
567523	244	229	3.2	0.47	18	120	< 0.5	2	0.03	< 0.5	< 1	102	464	1.62	10	< 1	0.23	70	0.02	20	987
567524	244	229	3.0	0.40	14	100	< 0.5	2	0.01	< 0.5	1	148	341	1.48	10	< 1	0.22	80	0.02	20	716
567525	244	229	3.0	0.49	26	140	< 0.5	2	0.01	< 0.5	2	129	381	2.03	10	< 1	0.23	80	0.02	25	903
567526	244	229	2.4	0.71	48	160	< 0.5	< 2	0.02	< 0.5	7	76	1065	3.57	< 10	< 1	0.25	50	0.15	120	559
567527	244	229	2.4	0.38	66	90	< 0.5	4	0.01	< 0.5	2	147	744	2.68	< 10	< 1	0.27	60	0.02	25	765
567528	244	229	2.2	0.28	16	110	< 0.5	2	< 0.01	< 0.5	1	120	528	1.48	< 10	< 1	0.20	40	0.01	20	681
567529	244	229	2.0	0.48	42	70	< 0.5	< 2	< 0.01	< 0.5	2	158	932	3.04	< 10	< 1	0.18	30	0.03	25	459
567530	244	229	2.4	0.70	44	270	< 0.5	2	< 0.01	< 0.5	2	119	1265	2.92	< 10	< 1	0.27	20	0.14	35	280
567531	244	229	2.6	0.58	68	70	< 0.5	2	< 0.01	< 0.5	2	158	1495	3.20	< 10	< 1	0.22	50	0.07	30	758
567532	244	229	2.4	0.37	12	80	< 0.5	4	< 0.01	< 0.5	2	132	1100	1.05	< 10	< 1	0.17	50	0.02	20	774
567533	244	229	3.0	0.92	40	80	< 0.5	2	0.01	< 0.5	4	157	3950	2.55	< 10	< 1	0.31	40	0.17	40	907
567534	244	229	1.8	0.85	18	90	< 0.5	4	0.01	< 0.5	4	130	2300	2.11	10	< 1	0.41	50	0.30	50	779
567535	244	229	1.8	0.97	10	170	< 0.5	< 2	0.08	< 0.5	11	118	8330	2.98	< 10	< 1	0.34	40	0.29	60	957
567536	244	229	2.0	1.28	6	220	< 0.5	< 2	0.11	0.5	8	91	>10000	3.37	< 10	< 1	0.57	40	0.59	95	270
567537	244	229	1.4	1.28	14	260	< 0.5	< 2	0.04	< 0.5	8	130	9330	2.54	< 10	< 1	0.59	20	0.60	80	328
567538	244	229	2.0	0.91	22	100	< 0.5	< 2	0.12	< 0.5	9	95	>10000	2.04	< 10	< 1	0.30	40	0.23	50	556
567539	244	229	2.8	0.75	14	110	< 0.5	< 2	0.06	< 0.5	10	156	9890	2.32	< 10	< 1	0.26	30	0.19	50	255
567540	244	229	1.8	2.61	4	210	< 0.5	< 2	0.27	< 0.5	14	43	>10000	4.43	10	< 1	0.74	20	1.09	170	207

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 17-MAY-93
Invoice No. :I9314132
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314132

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567501	244	229	0.03	18	790	2	< 2	4	20	0.07	< 10	< 10	53	< 10	134
567502	244	229	0.03	17	820	4	< 2	4	19	0.07	< 10	< 10	52	< 10	108
567503	244	229	0.03	18	790	10	< 2	4	22	0.07	< 10	< 10	48	< 10	130
567504	244	229	0.07	18	850	366	< 2	4	43	0.05	< 10	< 10	39	< 10	478
567505	244	229	0.07	10	740	50	< 2	2	48	0.01	< 10	< 10	25	< 10	424
567506	244	229	0.04	16	850	10	< 2	3	36	0.04	< 10	< 10	43	< 10	170
567507	244	229	0.03	15	750	12	< 2	6	53	0.10	< 10	< 10	50	< 10	188
567508	244	229	0.09	10	700	28	< 2	3	44	0.03	< 10	< 10	35	< 10	180
567509	244	229	0.08	14	740	24	< 2	4	67	0.05	< 10	< 10	41	< 10	200
567510	244	229	0.03	17	810	12	< 2	4	32	0.07	< 10	< 10	48	< 10	254
567511	244	229	0.04	15	760	14	< 2	4	34	0.04	< 10	< 10	40	< 10	326
567512	244	229	0.08	10	730	28	< 2	5	41	0.05	< 10	< 10	38	< 10	252
567513	244	229	0.03	4	330	34	< 2	6	20	0.03	< 10	< 10	40	< 10	124
567514	244	229	0.01	4	230	8	< 2	1	15	< 0.01	< 10	< 10	14	< 10	102
567515	244	229	0.01	4	200	12	< 2	1	13	< 0.01	< 10	< 10	11	< 10	196
567516	244	229	0.02	3	410	18	< 2	3	22	0.01	< 10	< 10	24	< 10	106
567517	244	229	0.02	4	570	16	< 2	6	22	0.02	< 10	< 10	36	< 10	208
567518	244	229	0.01	3	290	12	2	2	16	< 0.01	< 10	< 10	20	< 10	124
567519	244	229	0.01	7	380	8	2	4	15	0.02	< 10	< 10	27	< 10	204
567520	244	229	0.01	7	380	6	< 2	6	25	0.04	< 10	< 10	35	< 10	190
567521	244	229	0.01	3	190	18	4	1	10	< 0.01	10	< 10	2	< 10	54
567522	244	229	0.01	3	160	14	2	< 1	9	< 0.01	10	< 10	3	< 10	54
567523	244	229	0.01	3	310	22	4	1	16	< 0.01	10	< 10	7	< 10	42
567524	244	229	0.01	3	250	18	6	1	12	< 0.01	20	< 10	4	< 10	64
567525	244	229	0.01	3	350	14	12	3	15	< 0.01	10	< 10	18	< 10	106
567526	244	229	0.01	6	460	8	8	5	12	0.01	< 10	< 10	41	< 10	182
567527	244	229	0.01	2	350	12	14	2	9	< 0.01	< 10	< 10	22	< 10	48
567528	244	229	0.01	3	110	18	4	< 1	7	< 0.01	< 10	< 10	1	< 10	34
567529	244	229	< 0.01	4	150	14	10	1	4	< 0.01	< 10	< 10	25	< 10	66
567530	244	229	0.01	4	180	12	6	2	7	< 0.01	< 10	< 10	24	< 10	54
567531	244	229	0.01	4	280	12	14	2	9	< 0.01	< 10	< 10	23	< 10	38
567532	244	229	0.01	4	140	18	6	< 1	7	< 0.01	10	< 10	1	< 10	26
567533	244	229	0.01	6	200	6	20	3	7	0.01	< 10	< 10	35	< 10	62
567534	244	229	0.01	5	230	6	8	4	8	0.02	10	< 10	39	< 10	48
567535	244	229	0.01	7	270	6	4	4	6	0.01	< 10	< 10	39	< 10	94
567536	244	229	0.01	8	310	14	< 2	6	9	0.06	< 10	< 10	55	< 10	104
567537	244	229	0.01	8	240	34	2	7	10	0.06	< 10	< 10	50	< 10	96
567538	244	229	0.01	8	610	18	4	6	6	0.02	10	< 10	32	< 10	104
567539	244	229	0.01	7	240	16	4	2	8	< 0.01	< 10	< 10	16	< 10	82
567540	244	229	0.02	8	1130	8	< 2	9	9	0.11	< 10	< 10	91	< 10	162

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
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V6B 1L8

Project : CASINO 93/145
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Certificate Date: 17-MAY-93
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CERTIFICATE OF ANALYSIS A9314132

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567541	244	229	2.4	2.46	30	60	< 0.5	< 2	0.28	< 0.5	19	42	>10000	5.47	< 10	< 1	0.71	30	0.51	110	420
567542	244	229	2.0	2.32	< 2	220	< 0.5	30	0.31	0.5	16	43	>10000	3.90	< 10	< 1	0.90	40	1.05	230	438
567543	244	229	2.0	1.93	< 2	230	< 0.5	20	0.69	3.0	28	69	6690	3.71	10	< 1	0.88	60	1.13	820	347
567544	244	229	2.4	2.32	6	200	< 0.5	18	0.39	14.0	24	67	>10000	4.55	10	< 1	0.95	50	1.31	580	378
567545	244	229	2.8	2.28	< 2	220	< 0.5	18	0.33	10.5	18	62	7360	4.18	10	< 1	0.98	70	1.25	530	820
567546	244	229	3.4	1.41	6	140	< 0.5	12	0.19	2.5	14	72	8290	3.68	10	< 1	0.72	50	0.64	280	728
567547	244	229	4.6	1.50	12	130	< 0.5	38	0.22	4.0	18	58	>10000	4.22	10	< 1	0.67	40	0.93	405	633
567548	244	229	2.8	1.47	6	100	< 0.5	20	0.22	1.0	12	89	>10000	3.06	10	< 1	0.56	80	0.77	200	885
567549	244	229	2.4	1.32	10	80	< 0.5	16	0.25	3.5	18	49	>10000	4.63	10	< 1	0.61	60	0.63	285	909
567550	244	229	2.2	1.65	8	40	< 0.5	12	0.40	2.0	17	84	4650	5.54	< 10	< 1	0.71	20	0.88	460	192
567551	244	229	2.6	2.04	< 2	210	< 0.5	8	0.55	1.5	13	109	4680	2.98	10	< 1	0.80	40	1.23	295	1200
567552	244	229	1.8	2.23	< 2	290	< 0.5	14	1.15	< 0.5	14	78	4770	3.45	10	< 1	1.01	50	1.44	180	441
567553	244	229	2.8	2.00	< 2	210	< 0.5	4	0.67	3.0	12	90	6830	3.02	10	< 1	0.92	70	1.21	185	560
567554	244	229	2.8	1.43	< 2	150	< 0.5	4	0.58	1.0	12	83	6020	2.45	10	< 1	0.56	80	0.83	215	560
567555	244	229	1.8	1.52	< 2	150	< 0.5	12	0.44	1.5	10	94	4930	2.03	< 10	< 1	0.62	30	0.98	220	790
567556	244	229	2.8	1.79	< 2	130	< 0.5	16	0.80	1.0	13	59	5960	3.07	10	< 1	0.87	40	1.30	225	544
567557	244	229	3.6	1.60	< 2	130	< 0.5	16	0.48	1.5	19	67	7190	2.40	< 10	< 1	0.72	40	0.88	285	622
567558	244	229	6.2	1.26	18	100	< 0.5	14	0.52	8.5	31	86	5010	2.52	< 10	< 1	0.73	30	0.34	335	402
567559	244	229	3.4	1.63	2	160	< 0.5	6	0.29	5.0	17	100	6010	2.03	< 10	< 1	0.77	30	0.80	335	595
567560	244	229	2.6	1.19	< 2	70	< 0.5	4	0.33	6.5	19	43	5560	2.21	< 10	< 1	0.48	30	0.86	385	1085
567561	244	229	2.0	1.73	< 2	180	< 0.5	4	0.46	1.5	13	91	4340	2.02	< 10	< 1	0.70	30	1.12	235	755
567562	244	229	2.2	1.29	< 2	120	< 0.5	6	0.40	1.5	13	101	3750	1.87	< 10	< 1	0.74	40	0.79	255	817
567563	244	229	2.4	1.52	2	180	< 0.5	14	0.42	0.5	12	82	4950	2.28	< 10	< 1	0.81	30	1.00	265	751
567564	244	229	1.8	1.17	14	90	< 0.5	4	0.22	2.0	18	57	3820	3.25	< 10	< 1	0.68	30	0.88	380	504
567565	244	229	1.2	1.16	2	160	< 0.5	12	0.20	1.5	18	76	3080	2.12	< 10	< 1	0.61	50	0.37	515	232
567566	244	229	4.4	0.58	50	30	< 0.5	28	0.42	5.5	19	39	5240	5.64	< 10	< 1	0.30	30	0.19	550	558
567567	244	229	1.8	0.95	8	210	< 0.5	< 2	0.67	1.0	8	81	2540	1.51	< 10	1	0.52	40	0.41	280	486
567568	244	229	1.6	1.08	2	150	< 0.5	6	0.66	1.0	10	114	3490	1.40	< 10	< 1	0.65	40	0.46	190	433
567569	244	229	1.6	0.99	2	150	< 0.5	10	0.71	< 0.5	7	99	3180	1.28	< 10	< 1	0.62	40	0.49	155	752
567570	244	229	0.8	1.80	4	330	< 0.5	4	0.75	0.5	16	92	2210	3.17	10	< 1	1.07	40	1.29	255	476
567571	244	229	2.4	1.18	20	60	< 0.5	14	1.09	< 0.5	11	92	2700	4.13	< 10	< 1	0.67	30	0.62	155	550
567572	244	229	2.0	0.82	< 2	180	< 0.5	14	0.72	1.0	13	98	3690	1.60	< 10	< 1	0.54	50	0.36	180	1440
567573	244	229	0.8	1.03	< 2	140	< 0.5	2	0.59	1.0	11	99	1675	1.74	< 10	< 1	0.52	30	0.52	235	335
567574	244	229	1.6	0.99	14	140	< 0.5	14	0.87	1.0	11	61	2740	2.49	< 10	< 1	0.54	30	0.56	160	482
567575	244	229	1.2	0.84	< 2	120	< 0.5	4	0.75	1.5	8	99	1730	1.10	< 10	< 1	0.39	30	0.30	115	532
567576	244	229	1.6	0.80	8	130	< 0.5	2	0.68	0.5	8	141	2580	1.13	< 10	< 1	0.40	40	0.24	115	476
567577	244	229	2.0	0.98	20	120	< 0.5	4	0.56	1.5	7	74	3470	1.37	< 10	< 1	0.58	40	0.48	120	699
567578	244	229	1.6	0.88	8	80	< 0.5	< 2	0.68	2.5	10	64	1725	1.32	< 10	< 1	0.52	50	0.55	195	338
567579	244	229	2.4	0.45	10	80	< 0.5	4	0.47	1.0	6	93	2650	0.75	< 10	< 1	0.23	40	0.07	80	486
567580	244	229	1.8	0.86	18	40	< 0.5	8	0.93	4.0	20	48	3150	1.83	10	< 1	0.28	60	0.25	415	667

CERTIFICATION: Kurt Buchler

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9314132

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567541	244	229	0.01	14	1250	42	< 2	8	10	0.04	< 10	< 10	54	270	252
567542	244	229	0.03	11	1020	26	< 2	12	12	0.10	< 10	< 10	96	40	178
567543	244	229	0.03	11	890	14	< 2	10	14	0.09	< 10	< 10	73	20	318
567544	244	229	0.03	9	860	14	2	12	13	0.10	< 10	< 10	103	20	280
567545	244	229	0.03	9	750	12	6	10	12	0.09	< 10	< 10	86	20	268
567546	244	229	0.03	7	600	18	4	7	10	0.05	< 10	< 10	64	10	148
567547	244	229	0.02	9	660	14	< 2	7	11	0.06	< 10	< 10	57	30	196
567548	244	229	0.03	7	390	28	4	6	14	0.03	< 10	< 10	55	20	144
567549	244	229	0.01	8	470	16	6	7	11	0.05	< 10	< 10	49	30	198
567550	244	229	0.03	4	650	6	< 2	8	17	0.07	< 10	< 10	65	10	152
567551	244	229	0.03	7	460	12	6	8	20	0.06	< 10	< 10	71	10	116
567552	244	229	0.04	7	670	6	4	11	24	0.10	< 10	< 10	92	10	64
567553	244	229	0.04	8	610	14	2	8	19	0.08	< 10	< 10	67	20	78
567554	244	229	0.03	6	480	12	2	4	17	0.02	< 10	< 10	44	10	92
567555	244	229	0.04	6	370	20	4	6	21	0.04	< 10	< 10	50	10	106
567556	244	229	0.02	9	680	12	2	8	19	0.07	< 10	< 10	66	10	110
567557	244	229	0.02	6	610	8	4	6	16	0.02	< 10	< 10	42	20	144
567558	244	229	0.01	7	490	20	< 2	4	12	0.01	< 10	< 10	31	10	616
567559	244	229	0.02	6	400	16	4	6	17	0.03	< 10	< 10	39	10	146
567560	244	229	0.01	6	440	12	6	4	16	0.02	< 10	< 10	36	10	192
567561	244	229	0.03	7	380	4	4	7	20	0.04	< 10	< 10	52	10	106
567562	244	229	0.02	6	360	8	6	5	16	0.04	< 10	< 10	42	10	106
567563	244	229	0.04	6	400	6	2	8	18	0.07	< 10	< 10	61	10	118
567564	244	229	0.02	8	320	6	< 2	7	11	0.07	< 10	< 10	78	< 10	164
567565	244	229	0.03	8	280	8	< 2	4	16	0.02	< 10	< 10	34	< 10	226
567566	244	229	< 0.01	6	290	64	4	2	11	< 0.01	< 10	< 10	9	< 10	514
567567	244	229	0.03	4	240	18	2	4	22	0.02	< 10	< 10	27	< 10	104
567568	244	229	0.04	7	320	12	4	5	17	0.03	< 10	< 10	36	10	84
567569	244	229	0.04	4	260	14	4	5	17	0.04	< 10	< 10	38	< 10	64
567570	244	229	0.05	9	690	12	2	12	26	0.14	< 10	< 10	97	< 10	86
567571	244	229	0.02	7	310	38	4	4	16	0.03	< 10	< 10	42	< 10	54
567572	244	229	0.03	4	330	14	8	4	19	0.03	< 10	< 10	39	10	82
567573	244	229	0.06	6	310	8	2	4	19	0.03	< 10	< 10	38	< 10	100
567574	244	229	0.02	6	460	10	2	5	21	0.05	< 10	< 10	49	< 10	70
567575	244	229	0.03	2	350	12	4	3	26	0.01	< 10	< 10	21	< 10	74
567576	244	229	0.02	4	170	12	4	2	24	< 0.01	< 10	< 10	20	< 10	64
567577	244	229	0.02	5	280	12	4	5	20	0.04	< 10	< 10	36	10	84
567578	244	229	0.02	6	250	14	2	4	20	0.04	< 10	< 10	28	< 10	98
567579	244	229	0.02	2	80	20	< 2	< 1	16	< 0.01	< 10	< 10	4	< 10	60
567580	244	229	0.01	10	370	26	4	3	31	< 0.01	< 10	< 10	16	< 10	232

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :4
Certificate Date: 17-MAY-93
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Account :FC

CERTIFICATE OF ANALYSIS A9314132

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567581	244	229	1.8	0.92	4	80	< 0.5	4	0.51	1.0	12	87	3010	1.61	< 10	< 1	0.54	30	0.51	155	546
567582	244	229	1.2	0.50	8	70	< 0.5	6	1.21	< 0.5	7	133	2310	1.09	< 10	< 1	0.29	30	0.25	145	507
567583	244	229	1.0	0.85	2	190	0.5	2	1.01	0.5	8	123	1310	1.33	< 10	< 1	0.54	30	0.62	145	273
567584	244	229	1.6	0.45	8	90	< 0.5	6	0.79	< 0.5	6	90	2100	1.04	< 10	< 1	0.33	30	0.27	95	814
567585	244	229	1.4	0.55	6	80	< 0.5	8	0.92	< 0.5	4	116	3020	1.13	< 10	< 1	0.36	30	0.32	85	760
567586	244	229	1.0	0.56	4	90	< 0.5	2	0.66	< 0.5	7	90	1920	1.10	< 10	< 1	0.36	40	0.31	140	658
567587	244	229	0.6	0.62	6	110	< 0.5	4	1.26	< 0.5	4	106	938	0.76	< 10	< 1	0.31	30	0.30	80	312
567588	244	229	0.4	0.44	< 2	110	< 0.5	2	2.30	< 0.5	1	91	1030	0.56	< 10	< 1	0.23	20	0.25	50	175
567589	244	229	1.0	0.76	< 2	100	< 0.5	4	3.36	< 0.5	6	108	1360	1.50	< 10	< 1	0.52	40	0.69	75	359
567590	244	229	0.8	1.02	< 2	140	< 0.5	2	1.90	< 0.5	6	91	1495	1.81	< 10	< 1	0.74	30	0.90	100	214
567591	244	229	1.0	0.87	4	140	< 0.5	< 2	1.43	< 0.5	5	114	1435	1.37	< 10	< 1	0.53	30	0.69	100	139
567592	244	229	1.0	1.35	< 2	150	0.5	8	2.27	< 0.5	9	73	2110	2.31	< 10	< 1	1.11	30	1.32	130	602
567593	244	229	1.4	1.16	4	130	0.5	8	1.94	< 0.5	9	108	2530	2.37	< 10	< 1	1.01	30	1.12	110	510
567594	244	229	0.6	1.31	< 2	170	0.5	4	2.09	< 0.5	8	66	1465	2.27	< 10	< 1	1.03	30	1.16	135	235
567595	244	229	1.0	0.73	< 2	90	< 0.5	2	1.10	< 0.5	7	113	2040	1.70	< 10	< 1	0.62	30	0.72	110	710
567596	244	229	1.4	0.84	6	100	0.5	10	0.81	< 0.5	10	153	3220	2.37	< 10	< 1	0.77	30	0.90	120	497
567597	244	229	1.2	0.56	4	90	0.5	4	1.20	< 0.5	7	128	2500	1.89	< 10	< 1	0.48	30	0.61	125	1165
567598	244	229	1.2	0.57	2	90	< 0.5	10	2.29	< 0.5	6	78	2370	1.54	< 10	< 1	0.46	30	0.59	65	564
567599	244	229	0.6	0.92	< 2	30	0.5	4	1.53	< 0.5	15	92	1310	5.13	< 10	< 1	0.62	20	0.74	70	327
567600	244	229	0.6	0.38	2	60	< 0.5	4	2.42	< 0.5	3	85	1190	0.82	< 10	< 1	0.26	40	0.40	50	714
567601	244	229	0.6	0.22	< 2	70	< 0.5	< 2	2.67	< 0.5	2	129	896	0.62	< 10	< 1	0.16	30	0.26	35	805
567602	244	229	0.6	0.45	< 2	80	< 0.5	4	2.45	< 0.5	3	84	1450	1.13	< 10	< 1	0.40	30	0.55	50	581
567603	244	229	0.6	0.39	< 2	70	< 0.5	6	2.57	< 0.5	3	105	1665	0.92	< 10	< 1	0.31	30	0.46	50	362
567604	244	229	1.8	0.71	14	90	< 0.5	6	1.10	< 0.5	7	76	2670	1.58	10	< 1	0.43	30	0.57	65	977
567605	244	229	1.0	0.63	12	190	< 0.5	2	1.82	< 0.5	4	109	1465	1.11	10	< 1	0.30	40	0.43	80	905
567606	244	229	1.8	0.38	14	200	< 0.5	4	1.36	< 0.5	4	102	1875	0.99	< 10	< 1	0.19	30	0.28	75	1360
567607	244	229	1.4	0.74	6	230	< 0.5	2	1.47	< 0.5	6	114	1800	1.59	< 10	< 1	0.32	30	0.54	85	622
567608	244	229	0.6	0.54	8	160	0.5	4	1.71	< 0.5	4	43	1040	1.35	< 10	< 1	0.22	20	0.29	70	371
567609	244	229	1.0	0.37	8	80	< 0.5	2	2.20	< 0.5	4	106	1195	1.22	< 10	< 1	0.20	20	0.17	95	943
567610	244	229	1.4	0.53	8	140	< 0.5	6	1.74	< 0.5	5	70	2410	1.69	< 10	< 1	0.27	20	0.41	100	736
567611	244	229	0.8	0.75	6	180	< 0.5	6	1.60	< 0.5	6	92	1540	1.90	10	< 1	0.42	30	0.86	105	444
567612	244	229	1.0	0.48	14	250	< 0.5	< 2	2.56	< 0.5	4	73	1245	1.69	10	1	0.22	30	0.95	130	655
567613	244	229	1.6	0.90	< 2	200	< 0.5	8	1.32	< 0.5	8	110	2200	1.77	< 10	< 1	0.50	20	0.80	105	468
567614	244	229	1.4	0.81	< 2	190	< 0.5	8	1.09	< 0.5	6	85	2170	1.81	< 10	< 1	0.48	20	0.65	85	361
567615	244	229	1.2	1.05	2	170	< 0.5	< 2	1.86	< 0.5	7	94	2040	2.09	10	< 1	0.66	30	0.90	100	411
567616	244	229	0.8	0.93	4	140	< 0.5	4	1.72	< 0.5	8	84	1585	2.26	< 10	< 1	0.64	20	0.90	85	511
567617	244	229	0.8	0.81	8	160	< 0.5	4	1.48	< 0.5	6	121	1595	2.13	< 10	1	0.47	10	0.75	85	199
567618	244	229	1.2	0.47	14	90	< 0.5	8	1.27	< 0.5	6	65	1930	1.60	< 10	< 1	0.19	20	0.36	80	585
567619	244	229	1.4	0.40	20	200	< 0.5	2	2.20	< 0.5	5	117	1885	1.45	< 10	< 1	0.12	20	0.38	120	736
567620	244	229	2.2	0.56	28	140	< 0.5	12	0.57	< 0.5	9	76	2880	2.56	< 10	< 1	0.28	10	0.40	110	369

CERTIFICATION: Hart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 17-MAY-93
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567581	244	229	0.01	4	290	8	2	4	21	0.03	< 10	< 10	31	< 10	90
567582	244	229	0.01	3	180	8	2	2	25	0.01	< 10	< 10	18	< 10	52
567583	244	229	0.03	4	350	24	< 2	4	29	0.06	< 10	< 10	33	< 10	84
567584	244	229	0.02	2	190	18	6	2	17	0.02	< 10	< 10	21	< 10	78
567585	244	229	0.02	3	280	14	4	3	21	0.02	< 10	< 10	27	< 10	56
567586	244	229	0.02	2	210	6	4	2	22	0.02	< 10	< 10	21	< 10	62
567587	244	229	0.04	2	230	24	2	2	37	0.01	< 10	< 10	16	< 10	68
567588	244	229	0.04	1	140	12	< 2	3	52	0.01	< 10	< 10	14	< 10	24
567589	244	229	0.03	3	330	2	2	5	208	0.06	< 10	< 10	42	< 10	24
567590	244	229	0.04	5	600	4	< 2	7	105	0.11	< 10	< 10	53	< 10	30
567591	244	229	0.04	2	360	14	2	5	84	0.07	< 10	< 10	42	< 10	48
567592	244	229	0.04	7	570	6	2	11	112	0.15	< 10	< 10	78	30	48
567593	244	229	0.03	7	520	8	2	9	125	0.14	< 10	< 10	68	10	46
567594	244	229	0.04	4	670	16	< 2	11	103	0.15	< 10	< 10	81	10	50
567595	244	229	0.03	4	300	20	4	5	44	0.06	< 10	< 10	39	< 10	36
567596	244	229	0.03	8	480	26	2	8	21	0.09	< 10	< 10	58	10	28
567597	244	229	0.02	4	300	134	6	4	27	0.05	< 10	< 10	40	10	32
567598	244	229	0.02	4	300	6	4	5	153	0.04	< 10	< 10	33	< 10	16
567599	244	229	0.02	6	570	4	2	5	87	0.07	< 10	< 10	39	20	14
567600	244	229	0.02	2	190	6	6	2	143	0.02	< 10	< 10	18	< 10	12
567601	244	229	0.02	1	160	2	6	1	173	< 0.01	< 10	< 10	9	< 10	10
567602	244	229	0.02	4	280	6	2	4	166	0.04	< 10	< 10	27	< 10	14
567603	244	229	0.03	3	230	4	2	2	149	0.02	< 10	< 10	18	< 10	14
567604	244	229	0.01	4	380	2	8	5	31	0.03	< 10	< 10	37	10	20
567605	244	229	0.01	2	250	10	4	3	39	0.01	< 10	< 10	23	10	16
567606	244	229	0.01	1	270	6	12	1	26	< 0.01	< 10	< 10	13	10	18
567607	244	229	0.01	2	370	12	6	4	53	0.01	< 10	< 10	24	10	20
567608	244	229	0.01	3	300	14	2	2	57	< 0.01	< 10	< 10	14	< 10	20
567609	244	229	0.01	2	590	6	8	3	27	< 0.01	< 10	< 10	19	10	12
567610	244	229	0.01	5	320	2	6	4	29	0.01	< 10	< 10	33	10	18
567611	244	229	0.01	6	500	8	4	6	42	0.04	< 10	< 10	40	10	20
567612	244	229	0.01	4	610	8	6	6	39	0.01	< 10	< 10	37	10	22
567613	244	229	0.01	6	390	6	4	7	35	0.05	< 10	< 10	41	10	20
567614	244	229	0.02	5	340	12	2	5	44	0.04	< 10	< 10	39	10	20
567615	244	229	0.03	6	650	6	< 2	8	43	0.09	< 10	< 10	57	10	22
567616	244	229	0.02	8	550	< 2	< 2	7	37	0.09	< 10	< 10	52	10	20
567617	244	229	0.02	8	440	2	2	4	43	0.04	< 10	< 10	32	10	24
567618	244	229	< 0.01	3	490	10	12	6	20	< 0.01	< 10	< 10	25	10	24
567619	244	229	0.01	2	240	16	20	3	27	< 0.01	< 10	< 10	17	10	28
567620	244	229	< 0.01	4	260	14	12	6	18	0.02	< 10	< 10	37	10	34

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567621	244	229	1.6	0.41	20	210	< 0.5	2	1.07	< 0.5	7	99	1950	1.47	< 10	< 1	0.15	20	0.33	85	951
567622	244	229	0.6	0.69	8	490	< 0.5	2	1.81	< 0.5	6	107	800	1.20	< 10	< 1	0.27	20	0.69	85	249
567623	244	229	0.8	0.47	16	480	< 0.5	< 2	1.46	< 0.5	3	84	1475	0.89	< 10	< 1	0.17	20	0.41	75	669
567624	244	229	0.4	0.63	8	360	< 0.5	< 2	1.40	< 0.5	4	139	887	1.06	< 10	< 1	0.33	30	0.56	95	620
567625	244	229	0.6	0.37	8	140	< 0.5	< 2	1.24	< 0.5	3	87	1315	1.05	< 10	< 1	0.20	20	0.37	65	531
567626	244	229	0.4	0.59	10	460	< 0.5	< 2	1.68	< 0.5	4	86	851	0.94	< 10	< 1	0.28	20	0.57	75	313
567627	244	229	1.0	0.50	8	220	0.5	4	1.73	< 0.5	4	59	1570	1.20	< 10	< 1	0.16	20	0.45	90	526
567628	244	229	0.8	0.31	6	210	< 0.5	4	3.43	< 0.5	3	123	1385	1.26	< 10	< 1	0.14	10	0.40	150	717
567629	244	229	0.4	0.36	4	260	< 0.5	< 2	2.18	< 0.5	2	92	978	0.70	< 10	< 1	0.17	10	0.23	60	479
567630	244	229	0.4	0.43	< 2	440	0.5	4	2.59	< 0.5	1	86	698	0.58	< 10	< 1	0.16	30	0.25	60	438
567631	244	229	0.6	0.51	14	910	0.5	2	2.89	< 0.5	1	50	897	0.52	< 10	< 1	0.14	20	0.22	75	311
567632	244	229	1.2	1.25	18	230	0.5	12	3.23	< 0.5	9	81	1735	2.29	10	< 1	0.71	20	0.95	115	667
567633	244	229	0.2	1.22	< 2	200	< 0.5	< 2	1.73	< 0.5	8	94	432	3.02	10	1	0.68	10	1.19	115	105
567634	244	229	0.4	1.33	< 2	210	< 0.5	4	1.88	< 0.5	7	104	637	2.84	10	< 1	0.70	20	1.25	120	127
567635	244	229	0.2	1.23	26	220	0.5	2	2.34	< 0.5	9	97	510	2.62	10	< 1	0.64	10	1.19	215	127
567636	244	229	< 0.2	1.28	4	200	< 0.5	< 2	2.07	< 0.5	9	108	663	2.41	10	< 1	0.74	10	1.26	115	102
567637	244	229	< 0.2	1.33	6	230	< 0.5	< 2	1.75	< 0.5	8	107	319	2.76	10	< 1	0.81	10	1.33	135	105
567638	244	229	0.4	1.00	< 2	260	< 0.5	4	2.01	< 0.5	7	110	684	2.10	< 10	< 1	0.56	20	0.84	180	261
567639	244	229	0.8	0.47	2	170	< 0.5	4	1.16	< 0.5	3	77	1565	0.87	< 10	< 1	0.28	20	0.33	55	200
567640	244	229	0.6	0.50	8	170	< 0.5	4	1.45	< 0.5	3	106	1140	1.04	< 10	1	0.28	20	0.30	60	131
567641	244	229	0.4	0.53	4	110	< 0.5	2	1.80	< 0.5	3	79	883	1.88	< 10	< 1	0.30	10	0.46	95	502
567642	244	229	1.0	0.34	14	110	< 0.5	6	1.61	< 0.5	4	126	1380	1.92	< 10	< 1	0.17	10	0.47	130	430
567643	244	229	0.8	0.36	6	200	< 0.5	< 2	1.94	< 0.5	4	105	1655	1.26	< 10	< 1	0.14	10	0.44	130	272
567644	244	229	1.0	0.74	< 2	380	< 0.5	6	1.57	< 0.5	7	112	1845	1.39	< 10	1	0.33	20	0.60	95	303
567645	244	229	1.2	0.80	8	320	< 0.5	< 2	0.96	< 0.5	5	91	1750	1.53	< 10	< 1	0.47	10	0.73	80	483
567646	244	229	1.4	0.46	10	100	< 0.5	6	0.85	< 0.5	6	126	1920	1.75	< 10	< 1	0.32	20	0.49	60	548
567647	244	229	0.4	0.83	4	490	0.5	4	1.48	< 0.5	3	53	957	1.17	< 10	< 1	0.26	20	0.44	65	169
567648	244	229	< 0.2	0.97	< 2	130	< 0.5	< 2	3.05	< 0.5	3	87	292	1.11	10	< 1	0.44	30	0.72	95	208
567649	244	229	0.6	0.76	4	160	< 0.5	2	2.75	< 0.5	4	69	1070	1.11	10	< 1	0.32	20	0.57	75	735
567650	244	229	0.8	1.00	< 2	250	0.5	2	1.52	< 0.5	4	83	1105	1.73	10	< 1	0.51	20	0.75	95	746
567651	244	229	1.2	1.05	14	230	0.5	4	1.38	< 0.5	6	76	1575	1.88	10	< 1	0.62	20	0.97	110	695
567652	244	229	1.0	0.60	4	60	< 0.5	2	0.95	< 0.5	4	121	1470	1.46	< 10	< 1	0.27	20	0.44	70	562
567653	244	229	0.4	0.81	2	360	0.5	2	1.40	< 0.5	3	43	768	1.24	< 10	< 1	0.27	30	0.51	65	496

CERTIFICATION: Stan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/145
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-B
Total Pages :4
Certificate Date: 17-MAY-93
Invoice No. :I9314132
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314132

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567621	244	229	< 0.01	4	330	6	18	4	26	< 0.01	< 10	< 10	23	10	24
567622	244	229	0.01	5	370	8	4	3	66	< 0.01	< 10	< 10	17	10	20
567623	244	229	0.01	1	210	10	14	2	65	< 0.01	< 10	< 10	14	< 10	18
567624	244	229	0.01	3	270	4	12	5	34	0.02	< 10	< 10	27	< 10	16
567625	244	229	0.01	2	160	6	6	3	24	< 0.01	< 10	< 10	16	< 10	10
567626	244	229	0.01	3	250	6	4	3	82	< 0.01	< 10	< 10	18	< 10	12
567627	244	229	0.01	3	290	8	8	5	43	< 0.01	< 10	< 10	22	10	16
567628	244	229	0.01	3	140	4	14	3	27	< 0.01	< 10	< 10	19	10	12
567629	244	229	0.02	2	200	6	4	1	107	< 0.01	< 10	< 10	7	< 10	8
567630	244	229	0.02	< 1	160	8	4	1	166	< 0.01	< 10	< 10	6	< 10	8
567631	244	229	0.01	1	140	6	2	1	169	< 0.01	< 10	< 10	6	< 10	10
567632	244	229	0.02	7	690	4	2	7	90	0.08	< 10	< 10	54	10	18
567633	244	229	0.03	13	800	< 2	< 2	6	152	0.11	< 10	< 10	55	10	28
567634	244	229	0.04	14	810	< 2	< 2	7	190	0.11	< 10	< 10	56	10	26
567635	244	229	0.03	13	820	< 2	< 2	6	290	0.10	< 10	< 10	51	10	24
567636	244	229	0.04	13	750	6	< 2	7	200	0.13	< 10	< 10	60	10	20
567637	244	229	0.04	15	800	4	< 2	7	194	0.13	< 10	< 10	64	10	26
567638	244	229	0.03	11	640	6	< 2	5	83	0.07	< 10	< 10	41	10	22
567639	244	229	0.02	2	160	6	< 2	3	47	0.01	< 10	< 10	15	< 10	14
567640	244	229	0.03	3	170	8	2	2	49	0.01	< 10	< 10	15	< 10	14
567641	244	229	0.02	3	210	4	6	3	50	0.01	< 10	< 10	19	10	16
567642	244	229	0.01	2	210	4	8	2	24	< 0.01	< 10	< 10	11	10	14
567643	244	229	0.01	6	300	4	6	4	23	< 0.01	< 10	< 10	26	10	16
567644	244	229	0.01	4	420	6	8	5	42	0.01	< 10	< 10	27	10	18
567645	244	229	0.01	6	230	8	4	7	49	0.04	< 10	< 10	40	10	18
567646	244	229	0.01	6	230	8	4	3	17	0.01	< 10	< 10	29	10	14
567647	244	229	0.02	2	290	6	2	3	119	< 0.01	< 10	< 10	16	< 10	12
567648	244	229	0.02	4	400	4	2	6	189	0.03	< 10	< 10	34	< 10	14
567649	244	229	0.03	1	250	4	2	4	160	0.02	< 10	< 10	31	10	12
567650	244	229	0.02	6	500	4	6	6	61	0.04	< 10	< 10	46	10	16
567651	244	229	0.01	6	320	6	4	7	54	0.06	< 10	< 10	53	10	20
567652	244	229	0.01	2	360	2	4	5	14	0.02	< 10	< 10	36	< 10	14
567653	244	229	0.01	1	320	12	8	4	88	< 0.01	< 10	< 10	21	< 10	14

CERTIFICATION: David Bradley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-APR-93
Invoice No. : 19313305
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313305

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
H563148	208 274	0.03	0.024	0.10	0.8	3900
H563149	208 274	0.03	0.049	0.21	1.8	5620
H563150	208 274	0.05	0.064	0.38	3.0	4640
H563151	208 274	0.06	0.066	0.34	3.7	6100
H563152	208 276	0.06	0.060	0.45	3.3	7240
H563153	208 276	0.10	0.078	0.62	4.7	7960
H563154	208 276	0.10	0.082	0.24	2.4	9420
H563155	208 274	0.40	0.043	0.69	2.5	6340
H563156	208 276	0.62	0.055	0.31	2.0	7820
H563157	208 276	0.55	0.048	0.48	2.3	7560
H563158	208 276	1.06	0.086	0.58	2.8	7760
H563159	208 276	0.76	0.067	0.79	2.5	7220
H563160	208 276	0.57	0.094	0.41	2.1	9320
H563161	208 276	0.61	0.054	0.31	1.5	10900
H563162	208 276	0.74	0.125	0.48	3.7	9240
H563163	208 276	0.75	0.151	0.69	5.7	10820
H563164	208 276	0.80	0.294	0.69	6.8	10700
H563165	208 273	0.56	0.266	0.75	2.3	11940
H563166	208 276	0.42	0.103	0.41	1.3	7800
H563167	208 273	0.60	0.045	0.69	2.4	11640
H563168	208 276	0.85	0.167	1.03	2.6	9640
H563169	208 273	0.40	0.099	0.55	1.2	11880
H563170	208 276	0.48	0.090	0.69	1.7	10820
H563171	208 276	0.68	0.112	0.65	2.1	9220
H563172	208 276	0.64	0.266	0.75	2.8	10300
H563173	208 273	0.83	0.161	1.13	2.7	11840
H563174	208 273	0.29	0.091	0.45	1.2	12780
H563175	208 273	0.32	0.084	0.69	1.2	12680
H563176	208 276	0.44	0.094	0.51	2.1	11020
H563177	208 276	0.25	0.073	0.21	1.0	9820
H563178	208 276	0.20	0.086	0.27	1.3	10520
H563179	208 276	0.12	0.034	0.14	0.9	7080
H563180	208 274	0.26	0.136	0.31	1.6	4720
H563181	208 276	0.28	0.045	0.62	2.5	10780
H563182	208 276	0.25	0.077	0.31	1.3	10900
H563183	208 273	0.43	0.094	0.72	4.3	12380
H563184	208 276	0.43	0.090	0.79	2.9	11320
H563185	208 276	0.53	0.139	0.69	9.0	10820
H563186	208 273	0.22	0.020	0.24	1.0	12540
H563187	208 273	0.41	0.077	0.41	1.7	11400

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-APR-93
Invoice No. :19313305
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313305

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
H563188	208 273	0.45	0.026	0.45	3.2	13500
H563189	208 273	0.17	0.126	0.27	1.6	13280
H563190	208 276	0.12	0.024	0.10	0.5	10800
H563191	208 276	0.13	0.023	0.17	1.0	9200
H563192	208 273	0.27	0.028	0.27	2.5	12060
H563193	208 273	0.15	0.128	0.14	0.7	12720
H563194	208 273	0.21	0.039	0.21	0.9	11960
H563195	208 273	0.33	0.038	0.31	1.4	13320
H563196	208 273	0.28	0.060	0.34	1.2	11980
H563197	208 273	0.33	0.027	0.55	1.0	14720
H563198	208 274	0.17	0.010	0.21	0.4	1720
H563199	208 273	0.21	0.027	0.21	0.7	12200
H563200	208 273	0.23	0.087	0.31	0.8	13980
H563201	208 273	0.31	0.092	0.34	2.4	12580
H563202	208 273	0.22	0.102	0.31	1.1	13980
H563203	208 273	0.10	0.031	0.14	0.9	13500
H563204	208 273	0.12	0.058	0.14	0.5	13760
H563205	208 276	0.16	0.060	0.31	0.8	10720
H563206	208 276	0.23	0.051	0.45	0.8	10720
H563207	208 276	0.26	0.037	0.34	1.8	7260
H563208	208 276	0.23	0.039	0.27	1.2	10840
H563209	208 276	0.20	0.056	0.34	0.7	10720
H563210	208 276	0.25	0.036	0.38	1.2	8140
H563211	208 273	0.20	0.056	0.34	0.7	12560
H563212	208 276	0.26	0.026	0.34	0.9	10940
H563213	208 276	0.20	0.015	0.24	0.7	9260
H563214	208 274	0.23	0.019	0.27	1.0	4880
H563215	208 276	0.49	0.031	0.65	1.0	9500
H563216	208 276	0.29	0.237	0.69	0.8	9400
H563217	208 276	0.43	0.131	0.89	1.9	10880
H563218	208 273	0.18	0.011	0.24	1.1	11380
H563219	208 274	0.57	0.016	0.89	4.6	4300
H563220	208 276	0.64	0.057	1.54	2.7	9600
H563221	208 273	0.48	0.134	0.69	1.6	11380
H563222	208 273	0.20	0.016	0.34	1.1	12060
H563223	208 273	0.30	0.035	0.38	2.3	12520
H563224	208 273	0.26	0.012	0.41	1.1	12180
H563225	208 273	0.18	0.015	0.24	0.5	11700
H563226	208 273	0.21	0.043	0.24	< 0.3	12780
H563227	208 273	0.19	0.017	0.21	< 0.3	13560

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page ber :3
Total s :6
Certificate Date: 28-APR-93
Invoice No. :I9313305
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313305

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
H563228	208	273	0.16	0.050	0.34	0.8	13200					
H563229	208	273	0.09	0.079	0.17	0.8	12360					
H563230	208	273	0.17	0.015	0.21	1.9	13060					
H563231	208	273	0.29	0.015	0.34	1.3	13080					
H563232	208	273	0.29	0.036	0.45	1.1	12780					
H563233	208	273	0.19	0.027	0.38	1.0	11900					
H563234	208	273	0.12	0.067	0.17	0.4	13620					
H563235	208	273	0.25	0.021	0.27	1.1	11740					
H563236	208	276	0.46	0.019	0.58	2.3	11060					
H563237	208	273	0.55	0.128	0.58	3.5	12260					
H563238	208	273	0.27	0.017	0.34	14.5	12220					
H563239	208	273	0.31	0.017	0.69	1.5	11800					
H563240	208	273	0.25	0.022	0.31	1.5	12380					
H563241	208	273	0.15	0.047	0.24	1.0	12420					
H563242	208	273	0.16	0.044	0.27	10.6	12200					
H563243	208	273	0.33	0.027	0.45	7.4	12580					
H563244	208	273	0.13	0.032	0.21	5.3	12200					
H563245	208	273	0.29	0.036	0.38	1.3	11540					
H563246	208	273	0.19	0.027	0.27	1.0	12500					
H563247	208	273	0.36	0.058	0.48	1.6	13160					
H563248	208	273	0.24	0.022	0.45	1.1	13020					
H563249	208	273	0.23	0.050	0.38	1.5	13280					
H563250	208	273	0.20	0.038	0.38	18.7	14080					
H563251	208	273	0.21	0.049	0.41	4.1	13680					
H563252	208	273	0.17	0.055	0.38	4.9	14000					
H563253	208	273	0.13	0.081	0.24	1.7	13020					
H563254	208	273	0.18	0.033	0.31	0.8	13320					
H563255	208	273	0.26	0.045	0.34	2.0	14000					
H563256	208	273	0.21	0.019	0.31	1.2	12700					
H563257	208	273	0.23	0.073	0.58	1.0	13440					
H563258	208	273	0.17	0.109	0.21	0.7	13820					
H563259	208	273	0.17	0.133	0.38	0.7	13180					
H563260	208	273	0.16	0.103	0.24	1.6	12680					
H563261	208	273	0.05	0.182	0.10	0.4	11980					
H563262	208	273	0.05	0.063	0.10	0.6	14980					
H563263	208	276	0.15	0.111	0.31	1.2	9200					
H563264	208	273	0.22	0.106	0.24	1.9	13580					
H563265	208	273	0.16	0.051	0.17	3.2	12920					
H563266	208	273	0.11	0.024	0.31	2.9	11960					
H563267	208	273	0.10	0.045	0.07	0.7	13740					

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-APR-93
Invoice No. : I9313305
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313305

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
H563268	208 273	0.15	0.022	0.10	4.9	12860
H563269	208 273	0.09	0.018	0.03	1.1	12680
H563270	208 273	0.06	0.041	0.03	0.6	12460
H563271	208 273	0.21	0.024	0.21	0.7	13900
H563272	208 273	0.15	0.031	0.58	1.0	13780
H563273	208 273	0.09	0.031	0.14	0.7	13560
H563274	208 273	0.13	0.023	0.10	0.5	12980
H563275	208 273	0.10	0.030	0.07	0.7	11880
H563276	208 273	0.22	0.054	0.21	1.3	12320
H563277	208 273	0.10	0.017	0.10	0.4	12760
H563278	208 273	0.13	0.026	0.17	0.6	13100
H563279	208 273	0.08	0.071	0.07	1.0	13220
H563280	208 273	0.12	0.017	0.10	1.2	11780
H563281	208 273	0.11	0.042	0.10	1.1	12180
H563282	208 276	0.09	0.034	0.07	2.7	7200
H563283	208 273	0.18	0.032	0.17	1.4	14180
H563284	208 273	0.13	0.014	0.14	1.0	12920
H563285	208 276	0.18	0.010	0.17	0.6	10960
H563286	208 273	0.29	0.026	0.21	1.2	12560
H563287	208 276	0.31	0.022	0.38	1.1	7280
H563288	208 274	0.16	0.088	0.17	0.7	2220
H563289	208 274	0.26	0.012	0.17	1.0	5940
H563290	208 274	0.18	0.006	0.17	0.7	5600
H563291	208 274	0.17	0.005	0.51	1.7	6220
H563292	208 276	0.11	0.003	0.03	1.1	7500
H563293	208 276	0.10	0.033	0.10	0.7	7380
H563294	208 276	0.10	0.007	0.07	0.8	7580
H563295	208 276	0.11	0.003	0.10	0.3	7960
H563296	208 274	0.19	0.006	0.14	0.7	5740
H563297	208 276	0.13	0.004	0.24	0.6	7680
H563298	208 274	0.12	0.022	0.10	0.4	6620
H563299	208 276	0.07	0.025	0.03	0.3	7300
H563300	208 276	0.06	0.058	0.07	0.3	7000
H563301	208 276	0.12	0.091	0.07	1.1	6840
H563302	208 276	0.12	0.349	0.10	0.3	7160
H563303	208 276	0.25	0.195	0.48	1.0	7520
H563304	208 276	0.08	0.017	0.07	< 0.3	7740
H563305	208 276	0.07	0.033	0.10	1.4	7220
H563306	208 276	0.07	0.014	0.07	0.4	7300
H563307	208 274	0.06	0.020	0.07	0.3	6480

CERTIFICATION: A Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-APR-93
Invoice No. : I9313305
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313305

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
H563308	208	276	0.09	0.078	0.07	0.5	6920					
H563309	208	274	0.05	0.016	< 0.03	0.7	4140					
H563310	208	276	0.31	0.085	0.38	1.4	6900					
H563311	208	274	0.14	0.018	0.21	0.6	2480					
H563312	208	274	0.11	0.035	0.07	0.9	6780					
H563313	208	276	0.08	0.012	0.10	0.6	7120					
H563314	208	276	0.08	0.048	0.14	0.8	6840					
H563315	208	274	0.08	0.068	0.14	1.1	6600					
H563316	208	276	0.07	0.058	0.07	0.3	7100					
H563317	208	276	0.06	0.051	0.03	< 0.3	6860					
H563318	208	276	0.20	0.033	0.34	0.8	7320					
H563319	208	276	0.07	0.046	0.07	0.5	7080					
H563320	208	276	0.11	0.059	0.14	0.9	7340					
H563321	208	276	0.13	0.083	0.14	1.2	7740					
H563322	208	274	0.06	0.158	0.03	0.5	5580					
H563323	208	274	0.14	0.095	0.10	0.8	6080					
H563324	208	276	0.20	0.054	0.14	1.2	7580					
H563325	208	276	0.06	0.020	< 0.03	0.8	7960					
H563326	208	276	0.10	0.059	0.07	1.0	7440					
H563327	208	274	0.09	0.060	0.10	2.0	6280					
H563328	208	276	0.16	0.049	0.24	0.9	7280					
H563329	208	274	0.27	0.068	0.24	5.1	6400					
H563330	208	274	0.24	0.068	0.21	22.6	6200					
H563331	208	276	0.22	0.061	0.10	12.3	7640					
H563332	208	274	0.34	0.081	0.34	1.2	6440					
H563333	208	274	0.25	0.074	0.24	1.3	1860					
H563334	208	274	0.23	0.049	0.07	0.9	6300					
H563335	208	276	0.49	0.092	0.34	1.5	7300					
H563336	208	274	0.31	0.086	0.10	1.0	6500					
H563337	208	274	0.11	0.036	0.03	0.4	5340					
H563338	208	276	0.24	0.143	0.10	0.7	7180					
H563339	208	274	0.38	0.149	0.31	1.6	6680					
H563340	208	276	0.26	0.064	0.21	1.6	7000					
H563341	208	276	0.18	0.084	0.17	1.0	7240					
H563342	208	276	0.28	0.062	0.21	1.3	6940					
H563343	208	276	0.23	0.075	0.14	1.8	7340					
H563344	208	276	0.21	0.078	0.14	1.6	7540					
H563345	208	276	0.21	0.090	0.21	1.3	7580					
H563346	208	276	0.16	0.080	0.10	1.0	7140					
H563347	208	276	0.20	0.075	0.10	1.2	7240					

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
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Project : CASINO 146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 28-APR-93
Invoice No. : I9313305
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313305

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
H563348	208	276	0.17	0.072	0.14	0.9	7520					
H563349	208	276	0.06	0.066	0.03	< 0.3	7180					
H563350	208	274	0.12	0.052	0.07	0.5	6660					
H563351	208	276	0.08	0.038	0.10	0.3	7280					
H563352	208	276	0.03	0.222	< 0.03	< 0.3	7240					
H563353	208	276	0.13	0.056	0.10	0.4	6960					
H563354	208	276	0.15	0.027	0.72	0.6	7360					
H563355	208	274	0.07	0.043	0.07	< 0.3	6680					
H563356	208	274	0.09	0.041	0.10	< 0.3	6260					
H563357	208	276	0.10	0.012	0.07	< 0.3	7160					
H563358	208	276	0.12	0.206	0.10	0.4	7700					
H563359	208	276	0.12	0.195	0.07	0.4	7180					
H563360	208	276	0.18	0.139	0.21	0.5	7760					
H563361	208	276	0.14	0.250	0.10	0.5	7660					
H563362	208	276	0.16	0.115	0.27	0.9	7840					
H563363	208	276	0.10	0.190	0.51	0.4	7660					
H563364	208	276	0.09	0.247	0.07	0.5	7500					
H563365	208	276	0.06	0.303	0.24	0.3	7240					
H563366	208	276	0.24	0.158	0.17	4.0	7300					
H563367	208	276	0.11	0.204	0.14	0.3	7060					
H563368	208	276	0.13	0.148	0.07	0.6	7620					
H563369	208	276	0.06	0.061	0.03	0.6	7380					
H563370	208	276	0.03	0.107	< 0.03	< 0.3	7120					
H563371	208	276	0.03	0.021	< 0.03	< 0.3	7060					
H563372	208	276	0.04	0.042	< 0.03	0.4	7220					
H563373	208	276	0.03	0.037	< 0.03	< 0.3	6880					
H563374	208	276	0.03	0.067	< 0.03	< 0.3	7260					

CERTIFICATION: _____

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
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Project : CASINO 93/146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :6
Certificate Date: 19-MAY-93
Invoice No. :I9314133
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314133

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563148	244	229	0.8	0.69	28	600	0.5	< 2	0.07	< 0.5	1	70	354	1.19	< 10	< 1	0.23	60	0.07	35	142
H563149	244	229	1.6	0.71	12	790	0.5	< 2	0.13	< 0.5	4	70	370	1.52	< 10	< 1	0.27	30	0.07	45	309
H563150	244	229	3.6	0.67	18	270	0.5	< 2	0.06	< 0.5	2	75	529	1.61	< 10	1	0.23	30	0.04	30	409
H563151	244	229	4.2	0.60	46	610	0.5	< 2	0.04	< 0.5	2	77	690	1.72	< 10	< 1	0.26	40	0.04	20	427
H563152	244	229	3.4	0.97	38	390	0.5	< 2	0.04	< 0.5	18	84	643	1.70	< 10	1	0.24	40	0.04	245	391
H563153	244	229	4.6	1.07	34	180	0.5	< 2	0.10	< 0.5	6	55	1055	2.17	< 10	< 1	0.27	30	0.10	55	509
H563154	244	229	2.4	0.71	24	140	0.5	< 2	0.03	< 0.5	16	68	1110	2.16	< 10	1	0.25	20	0.04	10	508
H563155	244	229	3.0	0.89	12	60	< 0.5	< 2	0.17	< 0.5	4	82	4510	0.92	< 10	< 1	0.18	40	0.08	15	267
H563156	244	229	1.6	2.17	10	170	1.0	6	0.53	0.5	12	137	6770	2.02	10	< 1	0.50	40	0.65	75	342
H563157	244	229	1.8	2.70	12	410	1.0	2	0.73	1.5	20	142	5490	2.52	10	< 1	1.06	30	1.46	120	286
H563158	244	229	3.0	1.33	20	180	0.5	< 2	0.43	1.5	19	67	>10000	1.46	10	< 1	0.44	40	0.53	40	559
H563159	244	229	2.6	1.65	16	300	0.5	4	0.53	6.5	14	44	8020	1.83	10	< 1	0.68	40	0.84	55	417
H563160	244	229	2.6	0.61	26	60	0.5	2	0.20	< 0.5	17	43	6490	1.55	< 10	< 1	0.16	40	0.04	10	624
H563161	244	229	1.6	1.10	20	130	0.5	2	0.38	1.0	10	48	6250	1.18	10	1	0.31	50	0.38	30	333
H563162	244	229	4.0	1.20	30	100	0.5	< 2	0.23	< 0.5	11	78	8030	1.61	10	< 1	0.31	40	0.19	30	809
H563163	244	229	5.8	0.81	56	40	0.5	12	0.19	< 0.5	12	61	7930	4.54	< 10	< 1	0.22	40	0.06	15	982
H563164	244	229	7.6	0.94	32	70	0.5	6	0.40	2.5	16	51	9100	2.33	10	< 1	0.21	60	0.08	45	2070
H563165	244	229	2.8	1.82	32	280	1.0	4	0.50	< 0.5	17	67	5870	2.60	10	< 1	0.75	50	0.99	165	1750
H563166	244	229	1.6	1.04	22	260	0.5	2	0.86	0.5	10	98	4650	1.34	< 10	< 1	0.29	20	0.58	70	679
H563167	244	229	2.2	1.62	16	200	0.5	8	1.11	0.5	18	89	6160	2.69	10	1	0.60	20	1.18	120	267
H563168	244	229	2.6	1.12	18	170	0.5	12	2.25	< 0.5	14	81	8170	2.11	10	< 1	0.34	30	0.83	120	944
H563169	244	229	1.2	1.03	2	180	0.5	2	4.44	< 0.5	9	101	4260	1.39	< 10	< 1	0.37	40	0.58	140	590
H563170	244	229	1.4	0.49	16	160	< 0.5	< 2	3.57	< 0.5	8	90	4620	0.93	< 10	< 1	0.18	30	0.21	115	515
H563171	244	229	2.2	1.89	4	200	0.5	4	4.53	< 0.5	13	82	7020	2.38	10	< 1	0.74	30	1.49	205	649
H563172	244	229	2.8	0.51	22	100	< 0.5	6	3.73	< 0.5	9	80	6440	1.35	< 10	< 1	0.20	20	0.28	115	1570
H563173	244	229	2.4	0.87	12	140	< 0.5	4	3.18	< 0.5	11	85	8060	1.59	< 10	< 1	0.36	20	0.68	110	907
H563174	244	229	1.2	0.65	2	200	< 0.5	< 2	2.83	< 0.5	5	91	3110	1.01	< 10	< 1	0.25	20	0.36	85	539
H563175	244	229	1.4	0.55	6	210	< 0.5	< 2	2.06	< 0.5	8	82	3390	0.95	< 10	< 1	0.22	30	0.29	90	503
H563176	244	229	2.2	0.47	10	180	< 0.5	< 2	1.36	< 0.5	13	80	4850	1.16	< 10	< 1	0.20	30	0.18	65	618
H563177	244	229	1.0	0.52	6	270	< 0.5	< 2	1.54	< 0.5	8	91	2830	0.90	< 10	< 1	0.22	30	0.20	70	502
H563178	244	229	1.2	1.54	12	350	0.5	< 2	3.67	< 0.5	8	74	2190	1.73	10	< 1	0.67	30	1.17	165	514
H563179	244	229	0.8	1.14	8	170	0.5	< 2	3.45	< 0.5	10	84	1265	1.94	10	< 1	0.24	30	0.76	195	200
H563180	244	229	1.8	0.52	8	320	< 0.5	< 2	2.52	< 0.5	7	62	2860	0.84	10	< 1	0.18	40	0.17	95	854
H563181	244	229	2.4	0.92	12	140	0.5	< 2	2.32	< 0.5	7	84	3110	2.03	10	< 1	0.43	30	0.61	270	283
H563182	244	229	1.4	1.18	2	300	< 0.5	2	0.86	< 0.5	11	70	2780	1.86	10	< 1	0.56	30	0.77	210	537
H563183	244	229	4.6	0.78	20	90	< 0.5	8	0.91	< 0.5	15	90	5060	2.85	< 10	< 1	0.41	30	0.44	345	656
H563184	244	229	3.0	0.81	6	190	< 0.5	< 2	0.89	< 0.5	12	80	5030	1.73	< 10	< 1	0.40	40	0.57	160	656
H563185	244	229	8.8	0.94	38	60	0.5	14	1.08	< 0.5	23	85	6140	4.56	< 10	< 1	0.50	30	0.56	195	937
H563186	244	229	0.6	2.58	8	490	0.5	4	1.47	< 0.5	14	63	2320	3.29	10	< 1	1.24	20	1.94	215	124
H563187	244	229	1.8	1.80	6	200	0.5	6	1.76	< 0.5	19	73	4470	3.11	10	< 1	0.96	20	1.34	175	488

CERTIFICATION: Ian Pitcher

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :6
Certificate Date: 19-MAY-93
Invoice No. :19314133
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314133

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563148	244	229	< 0.01	1	390	6	6	4	16	< 0.01	< 10	< 10	18	< 10	18
H563149	244	229	0.01	< 1	440	6	8	3	13	< 0.01	< 10	< 10	18	< 10	16
H563150	244	229	< 0.01	1	470	14	10	3	8	< 0.01	< 10	< 10	17	< 10	14
H563151	244	229	< 0.01	2	360	12	38	2	14	< 0.01	< 10	< 10	12	< 10	14
H563152	244	229	< 0.01	1	430	22	48	3	13	< 0.01	< 10	< 10	15	< 10	20
H563153	244	229	0.01	< 1	840	24	36	7	8	< 0.01	< 10	10	33	< 10	24
H563154	244	229	< 0.01	1	340	10	20	1	6	< 0.01	< 10	< 10	10	< 10	14
H563155	244	229	< 0.01	2	870	10	4	12	7	< 0.01	< 10	< 10	41	< 10	20
H563156	244	229	0.01	7	780	16	4	10	21	0.01	< 10	< 10	59	< 10	138
H563157	244	229	0.03	10	870	16	6	16	25	0.09	< 10	< 10	113	< 10	202
H563158	244	229	0.01	5	690	6	6	7	19	0.01	< 10	< 10	42	< 10	74
H563159	244	229	0.01	6	1420	18	6	12	18	0.06	< 10	< 10	78	< 10	82
H563160	244	229	< 0.01	8	820	18	8	8	7	< 0.01	< 10	< 10	21	< 10	62
H563161	244	229	0.01	6	910	18	4	8	14	0.01	< 10	< 10	37	< 10	70
H563162	244	229	< 0.01	6	900	24	10	8	8	0.01	< 10	< 10	36	< 10	54
H563163	244	229	< 0.01	4	720	44	26	7	7	< 0.01	< 10	< 10	28	< 10	80
H563164	244	229	< 0.01	8	830	330	26	10	9	< 0.01	< 10	30	37	< 10	318
H563165	244	229	0.01	8	950	20	16	16	15	0.08	< 10	50	102	< 10	114
H563166	244	229	0.02	6	570	10	4	4	27	< 0.01	< 10	< 10	32	< 10	70
H563167	244	229	0.01	8	560	4	2	9	30	0.04	< 10	< 10	81	< 10	80
H563168	244	229	0.02	7	680	6	8	6	35	0.01	< 10	< 10	46	< 10	60
H563169	244	229	0.03	3	500	8	4	6	47	0.02	< 10	< 10	44	< 10	40
H563170	244	229	0.02	2	340	8	4	2	44	< 0.01	< 10	< 10	13	< 10	36
H563171	244	229	0.02	6	780	8	4	12	56	0.04	< 10	< 10	100	< 10	44
H563172	244	229	0.02	1	550	8	12	2	41	< 0.01	< 10	< 10	20	< 10	32
H563173	244	229	0.02	5	630	6	6	6	38	0.01	< 10	< 10	40	< 10	36
H563174	244	229	0.02	3	430	2	4	2	39	< 0.01	< 10	< 10	21	< 10	18
H563175	244	229	0.02	3	470	8	6	2	34	< 0.01	< 10	< 10	17	< 10	22
H563176	244	229	0.02	1	410	4	2	1	28	< 0.01	< 10	< 10	11	< 10	28
H563177	244	229	0.02	2	400	6	4	1	29	< 0.01	< 10	< 10	12	< 10	28
H563178	244	229	0.02	4	740	6	2	8	44	0.06	< 10	< 10	65	< 10	34
H563179	244	229	0.01	9	530	6	2	3	52	< 0.01	< 10	< 10	28	< 10	28
H563180	244	229	0.01	1	460	4	6	1	40	< 0.01	< 10	< 10	11	< 10	22
H563181	244	229	0.01	4	630	8	4	4	33	0.02	< 10	< 10	33	< 10	42
H563182	244	229	0.01	6	770	2	6	9	21	0.06	< 10	< 10	60	< 10	46
H563183	244	229	0.01	4	860	12	10	6	16	0.02	< 10	< 10	37	< 10	50
H563184	244	229	0.01	3	560	10	10	4	21	0.02	< 10	< 10	33	< 10	36
H563185	244	229	0.01	6	1050	36	10	7	21	0.03	< 10	< 10	52	< 10	48
H563186	244	229	0.03	6	1130	2	2	14	60	0.15	< 10	< 10	121	< 10	40
H563187	244	229	0.01	7	1460	8	4	16	31	0.11	< 10	< 10	122	< 10	48

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563188	244	229	3.2	1.96	20	280	< 0.5	< 2	2.71	< 0.5	20	40	4760	3.43	< 10	< 1	0.92	20	1.42	415	150
H563189	244	229	1.6	1.06	18	200	< 0.5	< 2	1.91	< 0.5	10	56	1890	2.00	< 10	< 1	0.36	20	0.59	155	833
H563190	244	229	0.6	1.16	6	360	< 0.5	< 2	1.49	< 0.5	7	78	1290	1.30	< 10	< 1	0.29	20	0.71	110	174
H563191	244	229	0.8	1.73	< 2	220	< 0.5	< 2	1.81	< 0.5	10	70	1460	2.22	< 10	< 1	0.44	20	1.13	160	153
H563192	244	229	2.2	1.88	34	210	< 0.5	< 2	2.15	0.5	9	76	2950	2.57	< 10	< 1	0.63	20	1.25	180	170
H563193	244	229	0.8	2.67	8	610	< 0.5	< 2	1.97	< 0.5	12	117	1660	2.99	< 10	< 1	1.04	30	1.62	165	809
H563194	244	229	1.0	2.99	28	380	< 0.5	< 2	1.29	< 0.5	20	87	2230	3.92	< 10	< 1	1.42	20	2.05	150	243
H563195	244	229	1.2	3.21	8	410	< 0.5	< 2	1.38	< 0.5	15	72	3540	3.34	< 10	< 1	1.44	20	2.10	145	228
H563196	244	229	1.6	2.11	20	330	< 0.5	< 2	2.02	< 0.5	11	81	3000	2.31	< 10	< 1	0.93	30	1.47	135	367
H563197	244	229	1.2	3.29	< 2	440	< 0.5	< 2	1.88	< 0.5	11	64	3480	3.24	< 10	< 1	1.61	30	2.53	160	150
H563198	244	229	0.6	2.31	4	400	< 0.5	< 2	1.24	< 0.5	7	61	1945	2.14	< 10	< 1	1.03	40	1.79	115	60
H563199	244	229	0.8	3.43	16	780	< 0.5	< 2	1.52	< 0.5	13	66	2230	3.75	< 10	< 1	1.85	20	2.65	185	150
H563200	244	229	1.2	2.46	8	540	< 0.5	< 2	1.68	< 0.5	9	55	2340	2.69	< 10	< 1	1.33	30	2.07	145	461
H563201	244	229	2.6	1.66	14	280	< 0.5	< 2	2.68	< 0.5	10	45	3010	2.62	< 10	< 1	0.78	30	1.16	185	478
H563202	244	229	1.2	2.02	< 2	390	< 0.5	< 2	2.17	< 0.5	9	45	2190	2.33	< 10	< 1	1.00	20	1.54	140	546
H563203	244	229	0.8	4.29	4	1270	< 0.5	< 2	2.26	< 0.5	14	27	969	4.66	< 10	< 1	1.86	10	2.89	260	145
H563204	244	229	0.4	2.80	8	770	< 0.5	< 2	2.09	< 0.5	10	27	1120	2.89	< 10	< 1	1.43	20	2.24	170	293
H563205	244	229	0.6	2.85	6	650	< 0.5	< 2	1.47	< 0.5	10	37	1645	2.85	< 10	< 1	1.25	20	2.05	145	323
H563206	244	229	0.6	3.29	8	550	< 0.5	2	1.51	< 0.5	12	60	2280	3.25	< 10	< 1	1.82	10	2.63	150	266
H563207	244	229	0.6	3.18	< 2	640	< 0.5	< 2	1.90	< 0.5	10	48	2470	2.74	< 10	< 1	1.64	10	2.50	135	200
H563208	244	229	0.8	3.64	12	870	< 0.5	< 2	1.57	< 0.5	16	55	2380	3.65	< 10	< 1	1.86	10	2.75	170	194
H563209	244	229	0.8	2.19	2	270	< 0.5	< 2	1.68	< 0.5	6	77	2040	1.97	< 10	< 1	0.96	20	1.60	110	300
H563210	244	229	1.2	3.53	6	580	< 0.5	2	1.92	< 0.5	15	54	2520	3.82	< 10	< 1	1.70	20	2.49	205	182
H563211	244	229	0.8	2.29	4	380	< 0.5	< 2	1.82	< 0.5	10	84	2020	2.36	< 10	< 1	0.96	20	1.64	145	312
H563212	244	229	0.8	3.71	< 2	230	< 0.5	< 2	2.36	< 0.5	12	50	2520	3.57	< 10	< 1	2.11	10	2.95	165	126
H563213	244	229	0.8	1.94	4	310	< 0.5	< 2	1.03	< 0.5	9	86	1935	2.24	< 10	< 1	0.81	20	1.49	120	82
H563214	244	229	0.8	2.44	2	300	< 0.5	< 2	1.64	< 0.5	11	209	2240	2.63	< 10	< 1	1.09	20	2.25	170	98
H563215	244	229	1.4	1.32	2	210	< 0.5	< 2	0.70	< 0.5	8	105	4480	1.60	< 10	< 1	0.66	30	1.22	100	166
H563216	244	229	0.8	2.75	14	510	< 0.5	< 2	1.65	< 0.5	12	26	1810	3.58	< 10	< 1	1.01	10	2.18	230	59
H563217	244	229	1.8	2.12	8	290	< 0.5	< 2	1.44	< 0.5	8	67	4210	2.19	< 10	1	0.85	20	1.77	195	760
H563218	244	229	1.2	1.32	8	110	< 0.5	< 2	0.75	< 0.5	6	99	2850	1.47	< 10	< 1	0.54	20	1.15	105	1355
H563219	244	229	4.2	2.56	18	190	< 0.5	< 2	1.78	< 0.5	21	63	5460	3.39	< 10	< 1	0.75	20	1.99	285	85
H563220	244	229	3.0	1.90	10	280	< 0.5	< 2	1.63	< 0.5	9	70	6300	2.28	< 10	< 1	0.69	20	1.54	165	328
H563221	244	229	2.2	1.83	4	300	< 0.5	< 2	1.38	< 0.5	8	93	4830	2.01	< 10	< 1	0.74	20	1.44	160	823
H563222	244	229	1.4	1.85	2	420	< 0.5	< 2	1.68	< 0.5	6	63	2150	1.72	< 10	< 1	0.73	20	1.40	165	94
H563223	244	229	2.2	2.13	8	130	< 0.5	2	2.29	< 0.5	7	62	3020	3.05	< 10	< 1	0.95	10	1.53	205	199
H563224	244	229	1.2	2.20	< 2	310	< 0.5	< 2	2.24	< 0.5	9	44	2480	2.34	< 10	< 1	1.05	10	1.67	150	71
H563225	244	229	0.6	2.37	< 2	280	< 0.5	< 2	2.08	< 0.5	9	53	1755	2.46	< 10	< 1	1.05	10	1.82	160	82
H563226	244	229	0.8	2.27	4	290	< 0.5	2	3.13	< 0.5	11	47	2160	2.51	< 10	2	1.13	20	1.93	185	237
H563227	244	229	0.8	1.66	8	100	< 0.5	2	2.73	< 0.5	10	97	1950	2.20	< 10	< 1	0.96	20	1.52	140	118

CERTIFICATION: Ian Bachler

Chemex Labs Ltd.

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J: ARCHER CATHRO & ASSOC. (1981) LTD.
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510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :6
Certificate Date: 19-MAY-93
Invoice No. :19314133
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314133

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A563188	244	229	0.01	7	1410	8	4	24	44	0.11	< 10	< 10	142	< 10	50
A563189	244	229	0.01	2	760	6	10	6	42	0.01	< 10	< 10	40	< 10	38
A563190	244	229	0.01	3	590	2	4	3	47	< 0.01	< 10	< 10	27	< 10	26
A563191	244	229	0.02	2	960	32	2	6	58	0.02	< 10	< 10	53	< 10	48
A563192	244	229	0.01	5	1560	42	12	10	60	0.04	< 10	< 10	86	< 10	108
A563193	244	229	0.02	3	1150	12	8	16	94	0.10	< 10	< 10	133	< 10	32
A563194	244	229	0.03	8	1360	4	< 2	21	81	0.17	< 10	< 10	168	< 10	40
A563195	244	229	0.03	7	1170	6	< 2	20	104	0.14	< 10	< 10	169	< 10	40
A563196	244	229	0.02	8	980	8	6	14	63	0.09	< 10	< 10	102	< 10	42
A563197	244	229	0.03	8	1380	8	2	21	107	0.15	< 10	< 10	162	< 10	42
A563198	244	229	0.03	7	1520	6	< 2	13	107	0.09	< 10	< 10	106	< 10	34
A563199	244	229	0.04	9	1410	14	< 2	21	110	0.19	< 10	< 10	175	< 10	48
A563200	244	229	0.02	6	1050	< 2	6	17	102	0.15	< 10	< 10	141	< 10	32
A563201	244	229	0.01	6	1070	12	8	13	74	0.08	< 10	< 10	101	< 10	52
A563202	244	229	0.02	4	1060	8	4	14	90	0.11	< 10	< 10	114	< 10	30
A563203	244	229	0.19	4	1360	4	< 2	20	372	0.26	< 10	< 10	176	10	38
A563204	244	229	0.05	5	1200	8	4	17	107	0.18	< 10	< 10	147	< 10	30
A563205	244	229	0.11	6	1040	12	2	14	279	0.17	< 10	< 10	133	< 10	28
A563206	244	229	0.08	8	1260	8	< 2	20	81	0.25	< 10	< 10	173	< 10	32
A563207	244	229	0.08	7	1190	2	< 2	20	85	0.21	< 10	< 10	178	10	30
A563208	244	229	0.13	5	1210	4	< 2	23	93	0.27	< 10	< 10	196	10	62
A563209	244	229	0.06	5	830	8	4	13	79	0.12	< 10	< 10	116	< 10	30
A563210	244	229	0.13	9	1240	6	2	20	182	0.26	< 10	< 10	180	< 10	46
A563211	244	229	0.09	7	800	4	< 2	12	95	0.13	< 10	< 10	111	< 10	36
A563212	244	229	0.16	6	1400	6	2	24	116	0.31	< 10	< 10	206	10	38
A563213	244	229	0.07	6	800	8	2	11	60	0.12	< 10	< 10	102	< 10	30
A563214	244	229	0.05	11	670	2	< 2	15	61	0.13	< 10	< 10	129	< 10	42
A563215	244	229	0.06	8	700	6	< 2	10	26	0.08	< 10	< 10	87	< 10	34
A563216	244	229	0.07	3	1520	4	2	13	80	0.15	< 10	< 10	137	< 10	48
A563217	244	229	0.05	9	900	6	8	15	53	0.11	< 10	< 10	120	< 10	66
A563218	244	229	0.06	8	800	4	12	10	29	0.07	< 10	< 10	72	< 10	30
A563219	244	229	0.06	6	1510	16	< 2	11	61	0.10	< 10	< 10	119	< 10	68
A563220	244	229	0.05	14	860	8	4	10	53	0.09	< 10	20	88	< 10	58
A563221	244	229	0.07	7	750	10	6	10	55	0.09	< 10	20	89	< 10	44
A563222	244	229	0.05	6	590	4	2	10	55	0.10	< 10	10	85	< 10	32
A563223	244	229	0.03	4	1100	28	6	10	58	0.08	< 10	< 10	89	< 10	40
A563224	244	229	0.08	4	980	6	2	11	97	0.14	< 10	10	97	< 10	40
A563225	244	229	0.05	3	1380	10	< 2	12	144	0.14	< 10	< 10	104	< 10	40
A563226	244	229	0.06	8	940	4	4	16	128	0.16	< 10	< 10	129	< 10	40
A563227	244	229	0.06	8	820	6	< 2	13	114	0.16	< 10	10	106	< 10	34

CERTIFICATION: Iain Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 19-MAY-93
Invoice No. :I9314133
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314133

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563228	244	229	0.2	1.69	10	60	< 0.5	< 2	2.22	< 0.5	8	59	1550	2.16	< 10	< 1	0.90	20	1.45	130	270
H563229	244	229	0.2	1.58	4	300	0.5	2	1.35	< 0.5	6	104	873	3.08	10	< 1	0.68	20	1.46	210	494
H563230	244	229	1.4	1.31	20	100	0.5	2	2.40	< 0.5	9	80	1620	2.39	10	< 1	0.52	20	0.98	235	100
H563231	244	229	0.8	1.55	20	90	< 0.5	< 2	3.22	< 0.5	8	72	2830	1.74	10	< 1	0.79	20	1.23	180	74
H563232	244	229	0.8	1.94	8	40	0.5	< 2	2.83	< 0.5	10	50	2900	2.34	< 10	< 1	0.97	10	1.52	120	192
H563233	244	229	0.6	1.93	6	70	0.5	< 2	2.19	< 0.5	11	82	1845	2.71	< 10	< 1	1.00	10	1.59	140	168
H563234	244	229	0.4	1.64	10	330	0.5	< 2	1.55	< 0.5	6	53	1180	1.85	< 10	< 1	0.76	20	1.29	115	392
H563235	244	229	0.4	2.02	12	310	0.5	< 2	2.52	< 0.5	10	81	2550	2.30	10	< 1	0.95	30	1.33	190	109
H563236	244	229	2.0	1.05	14	110	0.5	2	2.71	< 0.5	8	78	4510	1.77	10	< 1	0.49	30	0.70	190	113
H563237	244	229	2.8	1.23	266	140	0.5	4	2.51	0.5	8	63	5400	1.95	< 10	< 1	0.63	20	1.01	465	711
H563238	244	229	13.4	0.62	408	50	0.5	12	3.39	6.0	14	65	2720	3.82	10	< 1	0.18	10	0.78	1455	93
H563239	244	229	1.6	0.47	60	50	< 0.5	2	2.39	< 0.5	13	107	3150	2.24	10	< 1	0.13	30	0.63	355	87
H563240	244	229	1.4	0.58	36	190	0.5	4	3.04	0.5	8	57	2520	1.87	< 10	< 1	0.17	20	0.75	300	115
H563241	244	229	0.6	0.76	16	220	< 0.5	< 2	2.60	0.5	4	117	1455	1.22	< 10	< 1	0.36	20	0.88	260	242
H563242	244	229	10.6	0.40	192	200	< 0.5	2	1.32	9.0	4	114	1575	0.99	< 10	< 1	0.20	20	0.50	1305	252
H563243	244	229	6.4	1.02	132	60	0.5	4	1.57	4.0	8	109	3290	2.38	< 10	< 1	0.48	30	0.95	1155	147
H563244	244	229	4.6	1.37	60	160	0.5	2	2.21	1.5	8	66	1230	2.09	10	< 1	0.63	20	1.08	725	158
H563245	244	229	0.8	1.47	8	340	0.5	2	1.36	< 0.5	7	109	2950	1.50	10	< 1	0.54	30	1.04	165	189
H563246	244	229	0.6	0.62	54	220	0.5	2	0.81	< 0.5	13	37	1895	3.45	< 10	< 1	0.07	30	0.32	360	157
H563247	244	229	1.4	0.51	58	120	< 0.5	2	0.57	< 0.5	11	67	3510	2.26	< 10	< 1	0.06	30	0.16	185	327
H563248	244	229	0.6	1.35	54	300	0.5	< 2	1.79	< 0.5	13	28	2280	4.50	10	< 1	0.40	20	0.98	360	121
H563249	244	229	1.0	1.65	34	200	0.5	< 2	1.96	< 0.5	7	66	2260	2.44	10	< 1	0.83	30	1.30	260	246
H563250	244	229	17.2	1.01	300	10	0.5	10	2.39	5.5	11	47	2050	5.04	10	< 1	0.50	10	0.81	1345	184
H563251	244	229	3.6	0.98	266	70	0.5	< 2	3.24	1.5	11	77	2050	2.54	10	< 1	0.47	20	1.04	1355	249
H563252	244	229	4.4	0.46	164	100	< 0.5	< 2	3.26	0.5	8	75	1635	1.82	< 10	< 1	0.11	10	1.15	885	274
H563253	244	229	1.4	1.07	26	70	0.5	2	2.06	< 0.5	8	154	1325	2.56	< 10	< 1	0.49	20	0.86	310	456
H563254	244	229	0.6	2.32	4	600	< 0.5	< 2	2.41	< 0.5	11	89	1805	3.14	10	< 1	1.31	< 10	1.59	225	191
H563255	244	229	2.2	1.27	36	180	< 0.5	< 2	4.48	< 0.5	11	86	2950	1.86	10	< 1	0.52	< 10	0.64	250	293
H563256	244	229	1.2	1.91	6	380	< 0.5	< 2	3.35	< 0.5	11	53	2320	2.65	10	< 1	1.04	< 10	1.28	225	106
H563257	244	229	1.2	1.38	18	350	< 0.5	< 2	2.89	< 0.5	11	96	2630	1.69	10	< 1	0.62	< 10	0.82	170	464
H563258	244	229	0.4	1.89	2	690	< 0.5	< 2	2.21	< 0.5	13	126	1780	2.54	10	< 1	0.99	< 10	1.50	220	674
H563259	244	229	0.6	1.39	12	260	< 0.5	< 2	1.09	< 0.5	8	104	1705	1.65	10	< 1	0.60	30	0.83	155	779
H563260	244	229	1.8	0.82	12	260	< 0.5	< 2	1.45	< 0.5	8	122	1695	1.65	10	< 1	0.29	10	0.59	250	677
H563261	244	229	0.4	0.79	4	260	< 0.5	< 2	1.45	< 0.5	4	96	566	0.85	10	< 1	0.28	20	0.57	175	1195
H563262	244	229	0.2	1.16	4	390	< 0.5	< 2	1.71	< 0.5	3	78	573	0.90	10	< 1	0.49	10	0.82	105	409
H563263	244	229	1.0	1.16	8	140	< 0.5	< 2	1.73	< 0.5	6	81	1625	1.11	10	< 1	0.53	10	0.85	115	732
H563264	244	229	1.8	1.01	12	310	< 0.5	< 2	2.28	< 0.5	6	61	2360	1.33	10	< 1	0.50	10	0.72	160	664
H563265	244	229	3.0	0.66	58	70	< 0.5	< 2	2.63	0.5	6	134	1685	2.05	10	< 1	0.20	< 10	0.71	595	305
H563266	244	229	2.6	0.78	64	80	< 0.5	2	1.52	0.5	7	89	1165	2.05	10	< 1	0.28	< 10	0.50	385	160
H563267	244	229	0.8	0.78	18	70	< 0.5	< 2	2.61	< 0.5	3	105	1095	0.77	10	< 1	0.25	< 10	0.51	150	267

CERTIFICATION: Stuart Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A563228	244	229	0.05	6	620	2	< 2	12	76	0.17	10	< 10	99	< 10	32
A563229	244	229	0.04	15	780	2	< 2	8	90	0.13	< 10	< 10	64	10	48
A563230	244	229	0.04	11	750	8	< 2	6	113	0.07	< 10	< 10	54	< 10	50
A563231	244	229	0.04	8	760	4	< 2	11	323	0.12	< 10	< 10	88	< 10	38
A563232	244	229	0.05	8	910	4	< 2	12	161	0.17	< 10	< 10	95	< 10	36
A563233	244	229	0.06	10	730	4	< 2	14	261	0.20	< 10	< 10	109	< 10	30
A563234	244	229	0.05	4	510	4	2	12	88	0.14	< 10	< 10	89	< 10	26
A563235	244	229	0.03	13	490	6	< 2	12	79	0.10	10	< 10	78	< 10	36
A563236	244	229	0.02	9	460	4	2	7	75	0.04	10	< 10	46	< 10	36
A563237	244	229	0.02	10	650	8	8	10	57	0.06	10	< 10	58	< 10	56
A563238	244	229	< 0.01	19	780	142	32	9	42	< 0.01	< 10	< 10	38	10	350
A563239	244	229	< 0.01	22	530	8	4	13	31	< 0.01	10	< 10	43	< 10	50
A563240	244	229	< 0.01	8	1170	14	4	11	40	< 0.01	10	< 10	44	< 10	60
A563241	244	229	0.01	9	610	22	2	8	43	0.02	10	< 10	54	< 10	50
A563242	244	229	< 0.01	12	730	288	66	4	21	0.01	< 10	< 10	30	< 10	420
A563243	244	229	0.01	9	690	100	20	8	29	0.04	< 10	< 10	59	< 10	200
A563244	244	229	0.02	10	590	66	12	10	52	0.07	10	< 10	61	< 10	96
A563245	244	229	0.02	11	580	12	< 2	9	129	0.03	10	< 10	62	< 10	36
A563246	244	229	< 0.01	8	1490	8	8	14	26	< 0.01	< 10	< 10	50	< 10	50
A563247	244	229	< 0.01	13	980	12	16	10	21	< 0.01	< 10	< 10	35	< 10	40
A563248	244	229	0.02	10	1370	2	8	20	386	0.07	< 10	< 10	105	10	46
A563249	244	229	0.03	8	800	4	2	11	83	0.12	10	< 10	84	< 10	38
A563250	244	229	0.01	11	760	178	70	7	75	0.04	< 10	< 10	42	10	284
A563251	244	229	0.01	10	820	32	24	10	78	0.04	< 10	< 10	56	< 10	108
A563252	244	229	< 0.01	9	510	38	24	8	53	< 0.01	< 10	< 10	35	< 10	64
A563253	244	229	0.01	7	600	6	4	7	33	0.04	< 10	< 10	50	< 10	36
A563254	244	229	0.04	10	990	< 2	< 2	15	81	0.17	< 10	< 10	115	< 10	46
A563255	244	229	0.02	7	850	6	4	8	75	0.03	< 10	< 10	52	< 10	42
A563256	244	229	0.03	8	1010	< 2	< 2	13	73	0.12	< 10	< 10	92	< 10	36
A563257	244	229	0.03	10	710	6	2	11	230	0.06	< 10	< 10	61	< 10	26
A563258	244	229	0.07	26	470	< 2	4	15	454	0.13	< 10	< 10	106	< 10	34
A563259	244	229	0.02	9	500	4	6	12	44	0.08	< 10	< 10	54	< 10	28
A563260	244	229	0.01	8	480	8	6	7	39	0.02	< 10	< 10	37	< 10	60
A563261	244	229	0.01	4	320	6	8	6	43	0.01	< 10	< 10	17	< 10	22
A563262	244	229	0.03	4	370	6	2	8	257	0.04	< 10	< 10	49	< 10	24
A563263	244	229	0.03	6	460	4	6	9	51	0.05	< 10	< 10	51	< 10	30
A563264	244	229	0.02	7	500	4	4	8	49	0.05	< 10	< 10	43	< 10	32
A563265	244	229	< 0.01	7	670	20	14	6	24	< 0.01	< 10	< 10	25	< 10	52
A563266	244	229	0.01	6	560	38	6	9	21	0.01	< 10	< 10	41	< 10	70
A563267	244	229	0.01	3	380	8	4	3	45	< 0.01	< 10	< 10	19	< 10	34

CERTIFICATION: Jan Pochon

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :6
Certificate Date: 19-MAY-93
Invoice No. :19314133
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314133

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563268	244	229	5.0	0.64	52	90	< 0.5	18	1.53	1.0	3	127	1555	1.27	< 10	< 1	0.23	20	0.39	250	130
H563269	244	229	0.8	0.53	26	60	< 0.5	< 2	1.20	< 0.5	1	94	875	0.45	< 10	< 1	0.19	20	0.22	75	108
H563270	244	229	0.4	0.71	36	70	< 0.5	< 2	1.74	0.5	2	118	648	0.71	< 10	< 1	0.22	20	0.41	155	247
H563271	244	229	0.6	1.16	44	50	0.5	< 2	1.60	< 0.5	11	41	2190	1.55	< 10	< 1	0.09	20	0.53	145	128
H563272	244	229	0.8	1.44	42	60	0.5	2	2.86	< 0.5	8	55	1550	3.33	< 10	< 1	0.20	10	1.05	470	160
H563273	244	229	0.6	0.75	32	180	0.5	< 2	1.44	< 0.5	3	70	854	1.42	< 10	< 1	0.21	20	0.59	215	173
H563274	244	229	0.4	0.76	42	670	< 0.5	< 2	2.56	< 0.5	3	75	1225	0.93	< 10	< 1	0.15	20	1.13	160	123
H563275	244	229	0.8	0.50	64	320	< 0.5	< 2	1.41	< 0.5	3	72	999	0.63	< 10	< 1	0.11	20	0.57	75	162
H563276	244	229	1.4	0.70	46	170	< 0.5	2	2.62	< 0.5	6	42	2060	1.55	< 10	< 1	0.18	10	1.02	255	274
H563277	244	229	0.2	0.46	32	340	< 0.5	< 2	1.83	< 0.5	3	52	963	0.91	< 10	< 1	0.11	20	0.65	125	93
H563278	244	229	0.4	0.52	22	340	< 0.5	< 2	2.21	< 0.5	4	47	1210	0.99	< 10	< 1	0.11	20	0.77	125	132
H563279	244	229	0.8	0.42	28	60	< 0.5	2	1.64	< 0.5	3	45	749	1.76	< 10	< 1	0.16	20	0.64	150	412
H563280	244	229	0.8	0.61	34	150	< 0.5	2	1.50	< 0.5	4	50	1190	1.00	< 10	< 1	0.15	20	0.54	120	96
H563281	244	229	0.6	0.68	20	240	< 0.5	2	1.83	< 0.5	6	45	1120	1.25	< 10	< 1	0.16	30	0.61	150	249
H563282	244	229	2.2	0.56	100	70	< 0.5	2	2.02	3.0	3	71	804	1.66	< 10	< 1	0.23	10	0.61	455	182
H563283	244	229	1.2	0.69	16	100	0.5	2	2.27	< 0.5	7	49	1715	1.36	< 10	< 1	0.13	20	0.81	155	172
H563284	244	229	0.6	1.13	10	260	0.5	2	1.84	< 0.5	5	77	1205	2.39	< 10	< 1	0.45	20	0.94	135	82
H563285	244	229	0.6	1.37	16	320	1.0	< 2	1.80	< 0.5	7	69	1685	2.62	10	< 1	0.65	20	1.10	125	52
H563286	244	229	1.2	1.09	6	150	0.5	2	2.32	< 0.5	9	65	2740	2.16	< 10	< 1	0.39	20	0.99	140	136
H563287	244	229	1.0	0.98	14	140	0.5	< 2	2.32	< 0.5	7	54	3020	1.85	< 10	< 1	0.29	20	0.88	115	130
H563288	244	229	0.6	0.75	30	40	0.5	2	2.52	< 0.5	5	59	1490	1.76	10	< 1	0.11	30	0.91	120	448
H563289	244	229	1.2	0.72	26	30	0.5	2	2.24	< 0.5	12	48	2630	2.33	< 10	< 1	0.10	20	0.81	115	55
H563290	244	229	0.6	1.20	14	150	0.5	< 2	1.83	< 0.5	10	65	1660	2.45	10	< 1	0.52	20	0.94	110	30
H563291	244	229	1.8	0.79	28	100	0.5	4	2.62	< 0.5	8	47	1715	2.64	10	< 1	0.21	20	0.77	195	31
H563292	244	229	1.0	1.40	18	740	0.5	< 2	1.72	< 0.5	6	74	1070	2.71	< 10	< 1	0.58	20	0.94	140	13
H563293	244	229	0.8	0.70	8	280	< 0.5	< 2	1.47	0.5	3	67	922	0.98	< 10	< 1	0.26	30	0.50	90	184
H563294	244	229	0.8	1.77	8	400	0.5	< 2	1.50	0.5	9	90	958	3.64	< 10	< 1	0.99	30	1.44	170	34
H563295	244	229	0.6	1.57	8	360	0.5	< 2	1.25	< 0.5	7	87	1105	3.26	10	< 1	0.95	20	1.39	130	15
H563296	244	229	0.8	1.54	12	330	0.5	< 2	1.67	0.5	9	104	1870	3.01	10	< 1	0.85	30	1.19	135	31
H563297	244	229	1.2	1.49	14	310	0.5	< 2	1.34	< 0.5	9	96	1295	3.18	10	< 1	0.86	20	1.32	130	20
H563298	244	229	0.4	1.47	10	450	0.5	2	1.30	< 0.5	7	89	1200	1.85	10	< 1	0.61	20	1.10	120	125
H563299	244	229	0.2	0.48	24	220	< 0.5	2	2.08	< 0.5	2	54	627	0.71	< 10	< 1	0.20	30	0.54	120	132
H563300	244	229	0.2	0.50	58	290	< 0.5	< 2	1.52	< 0.5	2	67	560	0.73	< 10	< 1	0.17	20	0.52	145	308
H563301	244	229	1.4	0.29	90	350	< 0.5	2	1.05	0.5	2	57	1165	0.82	< 10	< 1	0.10	20	0.35	155	526
H563302	244	229	0.6	0.29	24	330	< 0.5	< 2	1.61	< 0.5	1	55	1135	0.70	< 10	< 1	0.09	20	0.42	130	2010
H563303	244	229	1.0	0.88	22	220	0.5	2	1.97	0.5	3	46	2350	1.20	< 10	< 1	0.48	20	0.80	145	1045
H563304	244	229	0.2	0.28	20	470	< 0.5	2	1.05	< 0.5	3	62	811	0.45	< 10	< 1	0.12	20	0.21	60	98
H563305	244	229	1.2	0.21	88	70	< 0.5	2	1.10	0.5	1	47	700	1.26	< 10	< 1	0.11	10	0.27	130	185
H563306	244	229	0.2	0.20	30	430	< 0.5	< 2	1.55	< 0.5	1	50	651	0.28	< 10	< 1	0.09	10	0.15	85	86
H563307	244	229	0.2	0.19	22	430	< 0.5	< 2	1.35	< 0.5	1	50	555	0.28	< 10	< 1	0.09	10	0.18	70	142

CERTIFICATION: Ian Pamillan

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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VANCOUVER, BC
V6B 1L8

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CERTIFICATE OF ANALYSIS A9314133

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A563268	244	229	0.01	4	230	38	2	1	16	< 0.01	10	< 10	10	< 10	94
A563269	244	229	0.01	2	100	12	2	< 1	14	< 0.01	10	< 10	< 1	< 10	44
A563270	244	229	0.01	2	180	18	4	1	15	< 0.01	10	< 10	4	< 10	66
A563271	244	229	< 0.01	5	860	14	8	13	18	< 0.01	10	< 10	56	< 10	32
A563272	244	229	< 0.01	3	1070	6	2	11	26	< 0.01	< 10	< 10	54	10	38
A563273	244	229	< 0.01	3	450	12	< 2	3	18	< 0.01	10	< 10	15	< 10	36
A563274	244	229	0.01	3	350	16	< 2	4	29	< 0.01	10	< 10	19	< 10	32
A563275	244	229	< 0.01	4	360	26	2	4	24	< 0.01	10	< 10	12	< 10	58
A563276	244	229	< 0.01	3	800	20	2	9	24	< 0.01	< 10	< 10	41	< 10	58
A563277	244	229	< 0.01	3	320	16	< 2	6	28	< 0.01	< 10	< 10	26	< 10	36
A563278	244	229	0.01	3	410	12	2	6	27	< 0.01	10	< 10	22	< 10	34
A563279	244	229	< 0.01	3	400	12	2	4	15	< 0.01	< 10	< 10	15	< 10	24
A563280	244	229	< 0.01	3	570	6	22	6	18	< 0.01	10	< 10	24	< 10	30
A563281	244	229	< 0.01	4	620	8	2	7	25	< 0.01	10	< 10	36	< 10	28
A563282	244	229	0.01	3	340	50	22	3	25	< 0.01	< 10	< 10	19	< 10	142
A563283	244	229	< 0.01	7	560	10	< 2	10	24	< 0.01	10	< 10	46	< 10	28
A563284	244	229	0.02	9	640	6	< 2	6	57	0.05	< 10	< 10	41	< 10	30
A563285	244	229	0.03	12	600	2	< 2	7	148	0.08	< 10	< 10	47	< 10	36
A563286	244	229	0.01	11	710	6	< 2	6	42	0.03	< 10	< 10	38	< 10	36
A563287	244	229	0.01	12	780	4	< 2	7	32	0.03	< 10	< 10	41	< 10	34
A563288	244	229	< 0.01	10	890	8	2	6	32	< 0.01	10	< 10	37	< 10	34
A563289	244	229	< 0.01	14	930	8	< 2	8	32	< 0.01	< 10	< 10	47	< 10	32
A563290	244	229	0.02	13	760	10	< 2	7	268	0.07	< 10	< 10	47	< 10	36
A563291	244	229	0.01	13	790	16	2	7	300	0.01	< 10	< 10	40	< 10	44
A563292	244	229	0.02	13	750	12	4	7	97	0.09	< 10	< 10	49	< 10	60
A563293	244	229	0.01	6	460	32	2	5	44	0.01	10	< 10	36	< 10	68
A563294	244	229	0.07	12	940	28	< 2	10	121	0.19	< 10	< 10	86	10	72
A563295	244	229	0.06	14	800	18	< 2	8	869	0.16	< 10	< 10	60	< 10	54
A563296	244	229	0.06	15	780	16	< 2	8	280	0.14	< 10	< 10	55	< 10	48
A563297	244	229	0.06	16	790	14	< 2	8	153	0.15	< 10	< 10	59	< 10	48
A563298	244	229	0.02	9	570	14	2	9	219	0.09	< 10	< 10	53	< 10	38
A563299	244	229	0.01	2	210	12	2	3	37	< 0.01	10	< 10	16	< 10	34
A563300	244	229	0.01	3	260	14	6	4	26	< 0.01	10	< 10	15	< 10	30
A563301	244	229	< 0.01	3	180	16	18	2	18	< 0.01	10	< 10	6	< 10	56
A563302	244	229	< 0.01	2	200	8	12	3	25	< 0.01	10	< 10	5	< 10	32
A563303	244	229	0.02	4	470	12	6	8	94	0.07	10	< 10	46	< 10	56
A563304	244	229	0.01	1	120	10	2	1	196	< 0.01	< 10	< 10	6	< 10	24
A563305	244	229	< 0.01	2	90	32	8	< 1	23	< 0.01	< 10	< 10	< 1	< 10	60
A563306	244	229	< 0.01	1	50	8	2	< 1	43	< 0.01	< 10	< 10	< 1	< 10	16
A563307	244	229	< 0.01	1	70	12	< 2	< 1	37	< 0.01	10	< 10	< 1	< 10	16

CERTIFICATION:

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563308	244	229	0.6	0.95	16	280	0.5	< 2	1.97	< 0.5	7	38	927	1.36	< 10	< 1	0.64	10	1.13	145	432
H563309	244	229	0.6	0.30	14	500	< 0.5	< 2	1.65	< 0.5	1	50	444	0.46	< 10	< 1	0.17	20	0.40	80	80
H563310	244	229	1.6	0.27	54	250	< 0.5	2	1.41	< 0.5	4	61	3290	0.82	< 10	< 1	0.11	20	0.35	80	494
H563311	244	229	0.8	0.32	20	320	< 0.5	< 2	1.20	< 0.5	3	55	1460	0.74	< 10	< 1	0.09	30	0.39	70	100
H563312	244	229	0.4	0.29	104	510	< 0.5	< 2	1.31	< 0.5	1	58	1125	0.48	< 10	< 1	0.10	20	0.40	85	191
H563313	244	229	0.4	0.33	36	770	< 0.5	< 2	0.77	< 0.5	2	69	771	0.44	< 10	< 1	0.08	20	0.28	60	69
H563314	244	229	0.8	0.34	64	620	< 0.5	< 2	0.47	< 0.5	2	61	837	0.43	< 10	< 1	0.07	20	0.17	55	261
H563315	244	229	1.2	0.35	72	740	< 0.5	< 2	0.54	0.5	2	64	850	0.41	< 10	< 1	0.06	30	0.18	55	386
H563316	244	229	0.4	0.35	84	860	< 0.5	< 2	0.63	< 0.5	3	46	782	0.35	< 10	< 1	0.06	20	0.27	50	359
H563317	244	229	0.2	0.37	42	1210	< 0.5	< 2	0.37	< 0.5	3	47	583	0.32	< 10	< 1	0.05	20	0.13	50	276
H563318	244	229	0.8	0.50	112	640	< 0.5	< 2	0.64	< 0.5	4	42	2020	0.55	< 10	< 1	0.04	20	0.21	85	176
H563319	244	229	0.6	0.38	50	850	< 0.5	2	0.91	< 0.5	3	45	772	0.62	< 10	< 1	0.04	20	0.35	110	251
H563320	244	229	0.6	0.51	56	940	< 0.5	< 2	0.72	< 0.5	4	42	1150	0.58	< 10	< 1	0.04	20	0.24	100	325
H563321	244	229	0.8	0.49	66	490	< 0.5	< 2	1.04	< 0.5	3	36	1425	0.76	< 10	< 1	0.06	20	0.37	105	515
H563322	244	229	0.4	0.61	36	700	< 0.5	< 2	0.69	< 0.5	4	32	693	0.57	< 10	< 1	0.04	20	0.27	80	949
H563323	244	229	0.8	0.48	78	800	< 0.5	< 2	0.59	< 0.5	4	38	1460	0.55	< 10	< 1	0.07	30	0.20	95	582
H563324	244	229	1.2	0.45	92	420	< 0.5	< 2	1.62	< 0.5	6	39	2100	1.13	< 10	< 1	0.06	20	0.62	255	288
H563325	244	229	0.6	0.79	68	580	0.5	< 2	1.52	< 0.5	11	67	618	3.12	10	< 1	0.06	30	0.67	730	108
H563326	244	229	1.0	0.34	114	480	0.5	< 2	1.35	< 0.5	7	31	1010	1.56	< 10	< 1	0.06	30	0.56	420	369
H563327	244	229	2.4	0.30	108	430	< 0.5	< 2	1.97	0.5	2	43	954	1.10	< 10	< 1	0.09	30	0.81	405	319
H563328	244	229	0.8	0.42	180	490	< 0.5	2	1.61	< 0.5	3	58	1565	0.92	< 10	< 1	0.10	20	0.67	235	263
H563329	244	229	5.2	0.47	234	280	< 0.5	2	1.73	2.5	7	66	2830	1.37	< 10	< 1	0.10	20	0.66	420	372
H563330	244	229	23.0	0.31	332	180	< 0.5	4	1.37	6.5	4	34	2630	1.53	< 10	< 1	0.08	20	0.55	520	376
H563331	244	229	12.0	0.44	416	100	< 0.5	4	1.41	3.5	4	89	2360	1.84	< 10	< 1	0.14	20	0.60	655	329
H563332	244	229	1.6	0.55	90	260	< 0.5	< 2	2.01	< 0.5	4	56	3450	1.60	< 10	< 1	0.05	20	0.79	285	466
H563333	244	229	1.0	0.68	88	290	< 0.5	< 2	0.73	< 0.5	6	72	2670	1.19	< 10	< 1	0.08	30	0.32	155	458
H563334	244	229	0.8	0.85	74	450	< 0.5	< 2	0.71	< 0.5	12	22	2570	1.98	< 10	< 1	0.02	30	0.28	145	298
H563335	244	229	1.8	0.98	100	230	< 0.5	< 2	0.46	< 0.5	13	56	5010	1.91	< 10	< 1	0.02	20	0.21	130	576
H563336	244	229	1.4	1.08	100	270	< 0.5	2	1.23	< 0.5	12	49	3250	2.47	10	< 1	0.06	30	0.54	305	490
H563337	244	229	0.4	0.85	58	860	< 0.5	< 2	0.51	< 0.5	7	47	1100	1.51	< 10	< 1	0.03	20	0.31	175	188
H563338	244	229	1.0	0.90	52	470	< 0.5	< 2	0.36	< 0.5	6	49	2480	1.67	< 10	< 1	0.03	30	0.26	135	836
H563339	244	229	1.4	0.53	84	390	< 0.5	2	0.42	< 0.5	7	52	3830	1.00	< 10	< 1	0.03	30	0.15	90	808
H563340	244	229	1.2	0.44	44	420	< 0.5	< 2	0.55	< 0.5	7	22	2720	1.24	< 10	< 1	0.01	20	0.21	100	466
H563341	244	229	0.6	0.78	42	580	< 0.5	< 2	0.85	< 0.5	6	59	1835	1.90	< 10	< 1	0.02	30	0.33	250	480
H563342	244	229	1.2	1.10	44	290	< 0.5	< 2	0.75	< 0.5	15	13	2990	2.98	< 10	< 1	0.01	20	0.30	210	390
H563343	244	229	1.2	0.87	42	370	< 0.5	< 2	1.62	< 0.5	14	61	2330	2.76	< 10	< 1	0.11	30	0.45	295	424
H563344	244	229	0.8	1.01	26	450	< 0.5	2	1.38	< 0.5	10	29	2110	2.23	10	< 1	0.57	30	0.85	125	435
H563345	244	229	0.8	0.80	8	230	< 0.5	< 2	1.96	< 0.5	6	78	2150	1.57	10	< 1	0.38	30	0.70	90	492
H563346	244	229	0.6	1.40	< 2	210	< 0.5	< 2	2.56	< 0.5	8	34	1360	2.38	10	< 1	0.94	20	1.17	130	363
H563347	244	229	0.6	1.05	2	120	< 0.5	< 2	2.54	< 0.5	6	59	1925	1.79	10	< 1	0.77	20	0.91	85	409

CERTIFICATION: Ian Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
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Project : CASINO 93/146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A563308	244	229	0.01	7	340	12	4	6	24	0.05	10	< 10	42	< 10	32
A563309	244	229	0.01	2	180	12	2	1	37	< 0.01	10	< 10	9	< 10	24
A563310	244	229	< 0.01	4	220	14	86	3	20	< 0.01	10	< 10	7	< 10	36
A563311	244	229	< 0.01	3	310	12	8	6	20	< 0.01	10	< 10	17	< 10	24
A563312	244	229	< 0.01	2	180	10	24	1	19	< 0.01	10	< 10	3	< 10	24
A563313	244	229	< 0.01	3	260	18	6	2	21	< 0.01	10	< 10	4	< 10	24
A563314	244	229	< 0.01	2	200	32	38	1	17	< 0.01	10	< 10	2	< 10	46
A563315	244	229	< 0.01	4	320	60	42	1	19	< 0.01	10	< 10	3	< 10	70
A563316	244	229	< 0.01	3	210	20	18	1	23	< 0.01	10	< 10	3	< 10	30
A563317	244	229	< 0.01	3	270	16	18	2	25	< 0.01	10	< 10	6	< 10	22
A563318	244	229	< 0.01	6	520	16	36	2	21	< 0.01	10	< 10	10	< 10	42
A563319	244	229	< 0.01	3	280	18	24	3	25	< 0.01	10	< 10	7	< 10	28
A563320	244	229	< 0.01	3	580	18	20	4	24	< 0.01	10	< 10	10	< 10	28
A563321	244	229	< 0.01	2	480	24	18	3	26	< 0.01	10	< 10	6	< 10	38
A563322	244	229	< 0.01	2	260	16	12	2	26	< 0.01	10	< 10	3	< 10	20
A563323	244	229	< 0.01	4	500	14	38	2	21	< 0.01	10	< 10	8	< 10	32
A563324	244	229	< 0.01	3	290	16	20	6	24	< 0.01	< 10	< 10	17	< 10	36
A563325	244	229	< 0.01	22	1540	12	6	8	31	< 0.01	< 10	< 10	38	< 10	80
A563326	244	229	< 0.01	13	880	20	44	4	24	< 0.01	10	< 10	13	< 10	48
A563327	244	229	< 0.01	2	390	16	82	5	21	< 0.01	10	< 10	17	< 10	46
A563328	244	229	< 0.01	3	380	14	30	4	24	< 0.01	10	< 10	16	< 10	34
A563329	244	229	< 0.01	7	580	50	140	9	20	< 0.01	10	< 10	26	< 10	140
A563330	244	229	< 0.01	4	390	266	266	6	20	< 0.01	10	< 10	19	< 10	306
A563331	244	229	< 0.01	4	340	74	262	3	18	< 0.01	< 10	< 10	22	< 10	188
A563332	244	229	< 0.01	3	510	16	22	7	20	< 0.01	10	< 10	36	< 10	40
A563333	244	229	< 0.01	11	470	12	68	7	12	< 0.01	10	< 10	28	< 10	50
A563334	244	229	< 0.01	4	1040	12	26	8	21	< 0.01	< 10	< 10	39	< 10	44
A563335	244	229	< 0.01	7	850	14	36	8	14	< 0.01	10	< 10	31	< 10	48
A563336	244	229	< 0.01	7	740	20	24	11	18	< 0.01	10	< 10	56	< 10	50
A563337	244	229	< 0.01	7	540	8	34	7	18	< 0.01	10	< 10	27	< 10	36
A563338	244	229	< 0.01	7	640	10	8	8	17	< 0.01	10	< 10	29	< 10	36
A563339	244	229	< 0.01	7	530	16	18	3	16	< 0.01	10	< 10	18	< 10	40
A563340	244	229	< 0.01	4	410	20	6	6	17	< 0.01	10	< 10	19	< 10	34
A563341	244	229	< 0.01	6	520	14	8	9	23	< 0.01	< 10	< 10	38	< 10	38
A563342	244	229	< 0.01	7	1390	8	2	14	15	< 0.01	< 10	< 10	58	< 10	48
A563343	244	229	< 0.01	6	1050	10	6	14	23	0.01	< 10	< 10	63	< 10	38
A563344	244	229	0.01	4	700	6	2	10	195	0.10	10	< 10	67	< 10	28
A563345	244	229	0.01	3	510	4	2	8	88	0.05	10	< 10	56	< 10	26
A563346	244	229	0.04	4	750	4	2	10	141	0.17	10	< 10	81	< 10	28
A563347	244	229	0.03	3	580	6	2	9	154	0.14	10	< 10	73	< 10	26

CERTIFICATION: Ian Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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CERTIFICATE OF ANALYSIS A9314133

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563348	244	229	0.6	1.68	< 2	250	< 0.5	< 2	2.02	< 0.5	9	53	1760	2.62	10	< 1	0.90	30	1.11	105	361
H563349	244	229	0.2	1.44	< 2	280	< 0.5	< 2	1.69	< 0.5	8	105	581	2.35	10	< 1	0.90	30	1.11	125	347
H563350	244	229	0.4	1.81	< 2	110	< 0.5	< 2	1.94	< 0.5	10	43	1090	3.65	10	< 1	1.26	20	1.59	170	265
H563351	244	229	0.4	2.14	8	270	< 0.5	< 2	1.62	< 0.5	11	64	718	3.79	10	< 1	1.42	20	1.82	205	182
H563352	244	229	< 0.2	1.32	< 2	90	< 0.5	< 2	2.71	< 0.5	6	59	326	1.94	10	< 1	0.90	20	1.14	100	1145
H563353	244	229	0.6	1.18	2	140	< 0.5	< 2	1.45	< 0.5	8	86	1360	1.92	10	< 1	0.75	30	1.00	100	302
H563354	244	229	0.6	2.21	8	320	< 0.5	< 2	1.72	< 0.5	10	55	1465	2.83	10	< 1	1.18	20	1.52	150	146
H563355	244	229	0.2	1.51	< 2	190	< 0.5	< 2	1.69	< 0.5	6	68	647	1.90	10	< 1	0.80	20	1.12	110	215
H563356	244	229	0.4	0.71	4	120	< 0.5	< 2	1.28	< 0.5	4	70	935	1.02	< 10	< 1	0.27	30	0.41	75	231
H563357	244	229	0.4	1.54	< 2	250	< 0.5	< 2	1.25	< 0.5	8	116	1020	2.28	10	< 1	0.75	20	0.97	120	70
H563358	244	229	0.4	1.53	< 2	230	< 0.5	< 2	1.73	< 0.5	8	94	1160	2.43	10	< 1	0.79	30	1.04	115	1130
H563359	244	229	0.4	1.26	2	160	< 0.5	< 2	3.01	< 0.5	6	74	1140	1.35	10	< 1	0.63	20	0.87	80	1005
H563360	244	229	0.6	1.87	< 2	80	< 0.5	< 2	2.11	< 0.5	11	63	1705	3.06	10	< 1	1.18	20	1.47	150	647
H563361	244	229	0.4	1.24	8	100	< 0.5	< 2	2.64	< 0.5	7	64	1425	1.84	10	< 1	0.75	30	1.00	115	1360
H563362	244	229	0.6	1.31	2	120	< 0.5	< 2	2.68	< 0.5	7	65	1545	2.01	10	< 1	0.87	20	1.00	115	581
H563363	244	229	0.4	1.53	6	210	< 0.5	< 2	1.77	< 0.5	7	116	942	1.98	10	< 1	0.88	40	1.11	110	1030
H563364	244	229	0.2	1.16	< 2	110	< 0.5	< 2	2.58	< 0.5	6	135	926	1.46	10	< 1	0.68	30	0.86	100	1365
H563365	244	229	0.2	0.93	4	100	< 0.5	2	2.98	< 0.5	5	76	572	1.11	10	< 1	0.57	30	0.70	75	1540
H563366	244	229	4.2	1.05	76	170	< 0.5	2	2.18	1.0	8	114	2350	1.71	10	< 1	0.48	30	0.60	140	792
H563367	244	229	0.4	1.10	2	310	< 0.5	< 2	3.07	< 0.5	4	124	1085	1.16	10	< 1	0.51	30	0.61	145	1120
H563368	244	229	0.6	1.14	< 2	170	< 0.5	2	2.40	< 0.5	6	137	1245	1.49	10	< 1	0.64	20	0.79	115	726
H563369	244	229	0.4	0.77	4	230	< 0.5	2	1.99	0.5	2	126	537	0.63	< 10	< 1	0.29	20	0.30	90	306
H563370	244	229	< 0.2	0.85	6	110	< 0.5	< 2	1.50	< 0.5	2	156	273	0.45	< 10	< 1	0.22	20	0.22	55	571
H563371	244	229	< 0.2	0.72	6	130	< 0.5	< 2	1.57	< 0.5	1	128	266	0.39	< 10	< 1	0.23	20	0.21	60	104
H563372	244	229	0.2	1.00	12	320	< 0.5	2	1.76	1.5	3	160	409	1.05	10	< 1	0.32	20	0.45	115	232
H563373	244	229	0.2	0.94	< 2	290	< 0.5	< 2	1.41	< 0.5	2	132	277	0.71	10	< 1	0.31	20	0.43	65	191
H563374	244	229	< 0.2	1.00	2	280	< 0.5	< 2	1.63	< 0.5	4	126	283	1.03	10	< 1	0.49	20	0.60	90	341

CERTIFICATION: Ian Pitcher

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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510 W. HASTINGS ST., SUITE 1016
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Project : CASINO 93/146
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563348	244	229	0.05	4	830	6	2	9	169	0.15	< 10	< 10	77	< 10	28
H563349	244	229	0.08	4	680	4	2	10	115	0.17	< 10	< 10	84	< 10	26
H563350	244	229	0.08	4	920	< 2	2	13	119	0.24	< 10	< 10	121	< 10	32
H563351	244	229	0.10	5	1080	< 2	4	14	84	0.28	< 10	< 10	134	< 10	34
H563352	244	229	0.06	3	760	< 2	4	9	135	0.15	10	< 10	84	< 10	20
H563353	244	229	0.06	4	570	6	2	9	78	0.13	10	< 10	84	< 10	28
H563354	244	229	0.13	4	740	2	2	14	87	0.22	< 10	< 10	126	< 10	30
H563355	244	229	0.06	3	420	4	2	11	92	0.13	10	< 10	85	< 10	22
H563356	244	229	0.04	3	240	6	2	3	73	0.02	10	< 10	29	< 10	16
H563357	244	229	0.12	4	420	4	< 2	10	72	0.12	< 10	< 10	74	< 10	24
H563358	244	229	0.07	5	490	< 2	4	10	79	0.13	10	< 10	81	< 10	26
H563359	244	229	0.04	3	490	6	4	9	157	0.10	10	< 10	72	< 10	22
H563360	244	229	0.09	3	840	4	2	13	116	0.24	10	< 10	135	< 10	32
H563361	244	229	0.06	3	630	2	6	9	149	0.13	10	< 10	80	< 10	26
H563362	244	229	0.06	4	580	8	4	9	146	0.14	10	< 10	83	< 10	28
H563363	244	229	0.10	6	660	< 2	4	10	98	0.15	10	< 10	95	< 10	26
H563364	244	229	0.06	5	500	2	6	8	152	0.10	20	< 10	71	< 10	24
H563365	244	229	0.05	3	330	4	4	7	176	0.09	20	< 10	59	< 10	20
H563366	244	229	0.05	4	350	10	30	6	106	0.05	10	< 10	56	< 10	56
H563367	244	229	0.04	3	440	6	6	6	224	0.06	10	< 10	46	< 10	22
H563368	244	229	0.05	4	490	6	2	7	183	0.09	10	< 10	56	< 10	24
H563369	244	229	0.06	2	250	22	4	3	115	0.01	10	< 10	16	< 10	34
H563370	244	229	0.06	3	140	10	2	1	50	< 0.01	10	< 10	10	< 10	12
H563371	244	229	0.07	2	120	10	2	1	74	< 0.01	10	< 10	11	< 10	12
H563372	244	229	0.06	3	280	68	2	3	111	0.02	10	< 10	28	< 10	110
H563373	244	229	0.10	2	230	6	< 2	4	103	0.02	10	< 10	23	< 10	12
H563374	244	229	0.10	3	370	6	2	6	87	0.07	10	< 10	40	< 10	14

CERTIFICATION: [signature]

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Project : CASINO 147
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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
H567654	208	276	0.04	0.028	0.38	1.9	7700					
H567655	208	276	0.01	0.025	0.34	2.2	9320					
H567656	208	274	0.01	0.027	0.45	2.6	6780					
H567657	208	276	0.02	0.048	0.48	2.7	10700					
H567658	208	276	0.01	0.028	0.41	2.8	7600					
H567659	208	276	0.05	0.036	0.27	1.7	9660					
H567660	208	274	0.04	0.019	0.21	1.6	4420					
H567661	208	276	0.02	0.036	0.48	3.5	9220					
H567662	208	274	0.06	0.030	0.38	2.1	6400					
H567663	208	276	0.09	0.039	0.41	2.1	8980					
H567664	208	276	0.06	0.033	0.34	1.6	7440					
H567665	208	276	0.06	0.049	0.41	1.7	8520					
H567666	208	274	0.10	0.038	0.38	1.4	6780					
H567667	208	273	0.05	0.031	0.31	1.0	11700					
H567668	208	276	0.06	0.053	0.34	1.2	10880					
H567669	208	276	0.06	0.054	0.48	1.6	9820					
H567670	208	276	0.06	0.037	0.45	2.6	9180					
H567671	208	276	0.04	0.062	0.48	3.2	10600					
H567672	208	276	0.01	0.045	0.45	4.5	11240					
H567673	208	276	0.04	0.043	0.62	3.0	9960					
H567674	208	276	0.06	0.032	0.41	2.5	10300					
H567675	208	276	0.07	0.033	0.79	3.2	10160					
H567676	208	276	0.05	0.040	0.27	2.7	10640					
H567677	208	276	0.07	0.041	0.72	2.7	11320					
H567678	208	276	0.05	0.037	0.72	3.6	10380					
H567679	208	276	0.04	0.052	0.58	3.4	11060					
H567680	208	273	0.02	0.049	0.48	4.2	11400					
H567681	208	276	0.03	0.044	1.03	4.2	10580					
H567682	208	273	0.04	0.028	0.89	3.8	12060					
H567683	208	276	0.06	0.047	0.55	2.5	11120					
H567684	208	273	0.07	0.046	1.06	2.1	12980					
H567685	208	273	0.10	0.058	0.86	2.0	12220					
H567686	208	273	0.07	0.048	0.86	3.2	12660					
H567687	208	273	0.12	0.049	2.64	2.5	12700					
H567688	208	273	0.09	0.064	0.79	2.3	13660					
H567689	208	273	0.17	0.047	0.75	1.8	13580					
H567690	208	273	0.24	0.065	0.75	2.4	12420					
H567691	208	273	0.64	0.071	1.03	2.5	13280					
H567692	208	273	0.47	0.091	1.30	3.2	12960					
H567693	208	273	0.41	0.043	0.82	2.3	13340					

CERTIFICATION: A Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 147
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-APR-93
Invoice No. : I9313306
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313306

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams					
H567694	208	273	0.61	0.029	1.51	5.1	13300					
H567695	208	273	0.52	0.038	1.17	3.8	13320					
H567696	208	273	0.46	0.030	0.69	2.0	12600					
H567697	208	273	0.69	0.046	0.82	2.2	12180					
H567698	208	273	0.36	0.078	0.58	1.6	12220					
H567699	208	273	0.88	0.062	1.03	3.5	12800					
H567700	208	273	0.61	0.077	0.89	3.5	11820					
H567701	208	274	0.66	0.050	0.65	1.8	6560					
H567702	208	273	0.45	0.038	0.41	1.7	13940					
H567703	208	273	0.61	0.057	0.69	5.0	13600					
H567704	208	273	0.58	0.088	0.89	4.8	13280					
H567705	208	273	0.74	0.105	0.69	7.0	12460					
H567706	208	273	0.75	0.081	0.62	6.0	12140					
H567707	208	276	1.15	0.095	1.17	5.2	10540					
H567708	208	276	0.93	0.091	2.02	4.0	10780					
H567709	208	273	0.44	0.071	0.99	2.1	13560					
H567710	208	273	0.42	0.070	0.86	1.7	13500					
H567711	208	273	0.29	0.032	0.51	1.9	12760					
H567712	208	273	0.44	0.051	0.72	3.8	11720					
H567713	208	273	0.31	0.044	0.55	1.4	13460					
H567714	208	273	0.29	0.033	0.62	1.6	13560					
H567715	208	273	0.27	0.028	0.45	1.3	14180					
H567716	208	273	0.39	0.067	0.58	2.3	13800					
H567717	208	273	0.26	0.025	0.41	1.7	12840					
H567718	208	273	0.32	0.032	0.65	2.5	12740					
H567719	208	273	0.45	0.077	0.75	2.9	12500					
H567720	208	273	0.29	0.036	0.41	1.5	12100					
H567721	208	273	0.29	0.018	0.45	2.1	13360					
H567722	208	273	0.27	0.022	0.51	2.5	11740					
H567723	208	273	0.39	0.036	0.58	2.9	14020					
H567724	208	273	0.27	0.045	0.45	1.4	13380					
H567725	208	273	0.24	0.029	0.34	1.4	14060					
H567726	208	273	0.20	0.025	0.24	1.0	13840					
H567727	208	273	0.21	0.051	0.27	1.1	13460					
H567728	208	273	0.32	0.066	0.51	1.7	12880					
H567729	208	273	0.35	0.077	0.48	1.6	14300					
H567730	208	273	0.27	0.035	0.51	1.5	12660					
H567731	208	273	0.10	0.051	0.24	1.4	12380					
H567732	208	273	0.31	0.030	0.45	1.5	12680					
H567733	208	273	0.25	0.042	0.41	1.6	13180					

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 147
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
Total Pages :6
Certificate Date: 28-APR-93
Invoice No. :I9313306
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313306

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
H567734	208 273	0.26	0.030	0.41	1.5	12980
H567735	208 273	0.15	0.042	0.24	0.8	12480
H567736	208 273	0.17	0.027	0.34	1.0	12620
H567737	208 273	0.33	0.042	0.55	1.4	12900
H567738	208 273	0.24	0.045	0.48	1.3	12200
H567739	208 276	0.29	0.034	0.34	2.8	8840
H567740	208 273	0.36	0.029	0.96	3.4	13140
H567741	208 273	0.70	0.042	0.51	5.8	12720
H567742	208 273	0.25	0.030	0.41	1.5	12120
H567743	208 273	0.25	0.024	0.38	1.8	13360
H567744	208 273	0.19	0.019	0.27	1.8	13240
H567745	208 273	0.27	0.023	0.31	2.3	13740
H567746	208 273	0.24	0.034	0.51	1.1	14680
H567747	208 273	0.23	0.032	0.31	1.0	13360
H567748	208 273	0.17	0.029	0.24	1.5	13560
H567749	208 273	0.22	0.028	0.31	0.9	12780
H567750	208 273	0.26	0.020	0.45	1.1	13080
H567751	208 273	0.26	0.035	0.38	1.5	12860
H567752	208 273	0.25	0.067	0.41	1.3	12870
H567753	208 273	0.24	0.082	0.38	1.5	13340
H567754	208 273	0.36	0.087	0.45	2.3	12220
H567755	208 273	0.28	0.044	0.41	1.2	12360
H567756	208 273	0.26	0.042	0.27	1.3	12960
H567757	208 273	0.25	0.045	0.31	1.2	12900
H567758	208 273	0.28	0.057	0.17	2.9	12320
H567759	208 276	0.28	0.060	0.34	2.7	11200
H567760	208 276	0.24	0.048	0.21	1.6	11340
H567761	208 276	0.23	0.045	0.27	1.8	10800
H567762	208 276	0.30	0.032	0.34	1.3	9760
H567763	208 273	0.43	0.039	0.48	2.0	11920
H567764	208 273	0.30	0.043	0.27	1.4	12800
H567765	208 273	0.50	0.046	0.34	2.4	13060
H567766	208 273	0.30	0.052	0.34	1.8	13000
H567767	208 273	0.50	0.068	0.48	2.5	12160
H567768	208 273	0.29	0.062	0.31	1.2	12700
H567769	208 273	0.33	0.089	0.34	1.5	12920
H567770	208 273	0.34	0.035	0.21	3.8	14060
H567771	208 273	0.17	0.031	0.17	2.3	13140
H567772	208 273	0.14	0.029	0.10	0.6	13320
H567773	208 273	0.19	0.029	0.14	0.8	14670

CERTIFICATION: A. Chatri

Chemex Labs Ltd.

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): ARCHER CATHRO & ASSOC. (1981) LTD.
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CERTIFICATE OF ANALYSIS A9313306

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
H567774	208 273	0.23	0.074	0.21	0.9	12220
H567775	208 273	0.16	0.030	0.14	0.9	12000
H567776	208 273	0.19	0.077	0.17	0.9	13780
H567777	208 273	0.20	0.059	0.14	1.2	13540
H567778	208 273	0.36	0.103	0.24	1.9	13260
H567779	208 273	0.25	0.083	0.21	1.9	13780
H567780	208 273	0.17	0.037	0.10	1.4	13800
H567781	208 273	0.22	0.087	0.17	1.5	13860
H567782	208 273	0.15	0.043	0.10	0.8	12940
H567783	208 273	0.15	0.031	0.07	1.1	12800
H567784	208 273	0.08	0.046	0.07	1.0	13420
H567785	208 273	0.12	0.046	0.10	0.9	13400
H567786	208 273	0.16	0.046	0.14	17.2	12480
H567787	208 273	0.15	0.060	0.17	26.3	13080
H567788	208 276	0.12	0.032	0.17	0.5	11200
H567789	208 276	0.12	0.042	0.14	0.6	10280
H567790	208 276	0.12	0.051	0.10	0.5	11220
H567791	208 273	0.20	0.037	0.24	1.0	11740
H567792	208 276	0.15	0.057	0.14	1.0	10500
H567793	208 276	0.20	0.055	0.10	1.5	11300
H567794	208 276	0.29	0.059	0.21	2.5	10860
H567795	208 273	0.17	0.035	0.24	1.0	11500
H567796	208 273	0.13	0.028	0.14	0.7	12480
H567797	208 276	0.13	0.048	0.14	2.6	11360
H567798	208 273	0.12	0.033	0.10	0.8	11760
H567799	208 273	0.13	0.024	0.10	0.7	12340
H567800	208 273	0.12	0.042	0.10	0.4	12800
H567801	208 273	0.16	0.042	0.14	0.5	13540
H567802	208 273	0.22	0.040	0.14	1.7	13260
H567803	208 273	0.18	0.045	0.17	0.9	13460
H567804	208 273	0.16	0.113	0.21	0.6	13400
H567805	208 273	0.22	0.082	0.17	0.8	12620
H567806	208 273	0.21	0.025	0.27	1.0	13020
H567807	208 273	0.20	0.036	0.24	1.0	14320
H567808	208 273	0.20	0.082	0.24	0.9	13380
H567809	208 273	0.18	0.059	0.31	0.9	13900
H567810	208 273	0.23	0.044	0.21	0.8	13160
H567811	208 276	0.20	0.081	0.24	1.0	9060
H567812	208 273	0.18	0.062	0.14	1.2	18400
H567813	208 273	0.27	0.046	0.21	1.2	12520

CERTIFICATION: _____

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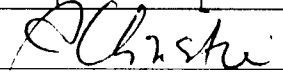
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 147
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-APR-93
Invoice No. :19313306
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313306

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
H567814	208	273	0.27	0.104	0.31	1.3	13340
H567815	208	273	0.16	0.032	0.17	0.8	13180
H567816	208	273	0.23	0.052	0.17	1.0	13740
H567817	208	273	0.22	0.098	0.24	1.0	13320
H567818	208	273	0.19	0.055	0.17	0.7	12880
H567819	208	273	0.19	0.034	0.14	0.7	13640
H567820	208	273	0.12	0.079	0.14	0.4	13500
H567821	208	273	0.11	0.031	0.10	0.4	12120
H567822	208	273	0.07	0.028	0.07	0.4	12860
H567823	208	273	0.13	0.041	0.14	0.6	11980
H567824	208	273	0.09	0.040	0.07	0.6	13660
H567825	208	273	0.08	0.027	0.10	1.1	14640
H567826	208	273	0.13	0.065	0.17	1.2	12040
H567827	208	273	0.07	0.041	0.07	0.9	12940
H567828	208	276	0.07	0.086	0.03	1.2	7200
H567829	208	273	0.10	0.048	0.07	0.5	14060
H567830	208	273	0.21	0.049	0.17	1.3	12540
H567831	208	273	0.12	0.097	0.14	1.1	11780
H567832	208	276	0.22	0.042	0.17	1.2	11340
H567833	208	274	0.31	0.053	0.34	2.3	5180
H567834	208	273	0.13	0.035	0.14	0.6	12000
H567835	208	276	0.11	0.048	0.14	0.5	11080
H567836	208	273	0.12	0.034	0.10	0.5	12700
H567837	208	273	0.10	0.053	0.17	0.5	12500
H567838	208	273	0.10	0.067	0.10	2.5	11440
H567839	208	273	0.07	0.129	0.07	0.4	11600
H567840	208	273	0.04	0.038	0.03	< 0.3	11700
H567841	208	273	0.06	0.066	0.17	0.5	11900
H567842	208	273	0.07	0.027	0.10	0.6	11480
H567843	208	273	0.05	0.050	0.86	14.9	12200
H567844	208	273	0.05	0.064	0.07	0.5	11860
H567845	208	273	0.08	0.062	0.07	0.5	11580
H567846	208	276	0.06	0.036	0.07	0.3	10760
H567847	208	273	0.09	0.038	0.10	0.5	11680
H567848	208	273	0.11	0.033	0.03	0.5	11740
H567849	208	273	0.13	0.037	0.14	0.4	12000
H567850	208	273	0.08	0.049	0.03	0.3	12120
H567851	208	273	0.07	0.043	0.07	0.5	11660
H567852	208	276	0.05	0.054	0.07	0.6	11180
H567853	208	273	0.05	0.036	1.03	0.6	11880

CERTIFICATION: 

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Certificate Date: 28-APR-93
Invoice No. : I9313306
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313306

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Ag g/t	Weight grams
H567854	208 273	0.07	0.052	< 0.03	0.3	12560
H567855	208 273	0.07	0.043	< 0.03	0.3	13380
H567856	208 273	0.11	0.069	< 0.03	0.7	11740
H567857	208 273	0.10	0.029	< 0.03	0.6	12140
H567858	208 276	0.09	0.062	< 0.03	0.4	10980
H567859	208 276	0.23	0.082	0.14	1.2	11100
H567860	208 273	0.23	0.052	0.21	1.2	11760

CERTIFICATION: A Christie

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Project : CASINO 93/147
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Page :1-A
Total P. :6
Certificate Date: 20-MAY-93
Invoice No. : I9314134
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314134

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567654	244	229	2.0	0.81	28	210	< 0.5	< 2	0.02	< 0.5	1	79	384	4.23	< 10	< 1	0.64	20	0.04	50	164
H567655	244	229	2.2	0.57	30	160	< 0.5	4	0.01	< 0.5	< 1	77	103	3.83	< 10	< 1	0.87	20	0.03	35	152
H567656	244	229	2.8	0.53	22	170	< 0.5	2	0.01	< 0.5	< 1	97	101	3.39	< 10	< 1	0.67	20	0.03	35	163
H567657	244	229	2.4	0.57	32	130	< 0.5	< 2	0.01	< 0.5	1	75	240	5.89	< 10	< 1	0.72	30	0.02	50	282
H567658	244	229	2.6	0.55	34	150	< 0.5	< 2	0.01	< 0.5	< 1	93	124	5.23	< 10	< 1	0.93	30	0.03	35	164
H567659	244	229	1.6	0.65	12	320	< 0.5	< 2	0.01	< 0.5	6	100	482	6.04	< 10	< 1	0.51	40	0.03	230	222
H567660	244	229	1.6	0.73	20	390	< 0.5	< 2	0.01	< 0.5	4	125	404	4.72	< 10	< 1	0.50	40	0.04	140	113
H567661	244	229	3.4	0.61	60	260	< 0.5	4	0.01	< 0.5	1	99	253	3.78	< 10	< 1	0.54	60	0.03	55	216
H567662	244	229	1.8	0.62	50	180	< 0.5	< 2	0.02	< 0.5	4	118	588	5.73	< 10	< 1	0.45	70	0.03	115	176
H567663	244	229	1.8	0.59	14	100	< 0.5	< 2	0.01	< 0.5	6	98	928	7.37	< 10	< 1	0.38	30	0.03	235	227
H567664	244	229	1.6	0.54	14	180	< 0.5	< 2	0.01	< 0.5	2	97	668	4.35	< 10	< 1	0.39	20	0.03	110	193
H567665	244	229	1.6	0.55	24	190	< 0.5	2	0.01	< 0.5	1	61	679	4.80	< 10	< 1	0.53	30	0.02	65	279
H567666	244	229	1.2	0.62	20	150	< 0.5	< 2	0.01	< 0.5	4	86	1085	5.48	< 10	< 1	0.44	40	0.03	245	246
H567667	244	229	1.2	0.66	10	110	< 0.5	< 2	0.01	< 0.5	3	101	594	3.57	< 10	< 1	0.45	40	0.03	100	193
H567668	244	229	1.4	0.96	32	250	< 0.5	< 2	0.01	< 0.5	5	111	649	3.82	< 10	< 1	0.52	30	0.05	90	288
H567669	244	229	1.8	0.65	30	340	< 0.5	< 2	0.01	< 0.5	3	63	656	4.02	< 10	< 1	0.50	30	0.04	95	302
H567670	244	229	2.6	0.56	30	290	< 0.5	< 2	0.02	< 0.5	2	70	662	4.03	< 10	< 1	0.51	30	0.04	115	207
H567671	244	229	3.0	0.59	26	310	< 0.5	< 2	0.01	< 0.5	2	69	412	3.36	< 10	< 1	0.54	30	0.03	100	353
H567672	244	229	4.4	0.59	38	210	< 0.5	2	0.01	< 0.5	< 1	103	156	3.48	< 10	< 1	0.74	20	0.03	40	251
H567673	244	229	2.8	0.68	32	240	< 0.5	< 2	0.01	< 0.5	2	81	408	5.14	< 10	< 1	0.73	20	0.04	175	239
H567674	244	229	2.2	0.50	28	220	< 0.5	< 2	0.01	< 0.5	1	56	660	5.89	< 10	< 1	0.54	20	0.03	100	177
H567675	244	229	2.8	0.51	28	170	< 0.5	< 2	0.01	< 0.5	1	59	734	6.74	< 10	< 1	0.66	20	0.03	105	178
H567676	244	229	2.2	0.66	32	190	< 0.5	< 2	0.01	< 0.5	1	71	523	5.12	< 10	< 1	0.66	40	0.03	70	223
H567677	244	229	2.8	0.57	36	200	< 0.5	< 2	0.01	< 0.5	2	59	807	5.47	< 10	< 1	0.53	30	0.03	70	242
H567678	244	229	3.0	0.43	22	180	< 0.5	< 2	0.01	< 0.5	1	37	490	5.36	< 10	< 1	0.55	30	0.02	65	209
H567679	244	229	3.2	0.88	28	160	< 0.5	< 2	0.01	< 0.5	< 1	71	389	4.14	< 10	< 1	0.80	40	0.06	35	299
H567680	244	229	3.6	0.57	80	90	< 0.5	4	0.01	< 0.5	< 1	103	253	5.83	< 10	< 1	0.98	30	0.03	40	277
H567681	244	229	3.8	0.64	86	110	< 0.5	2	0.01	< 0.5	< 1	58	299	5.22	< 10	< 1	1.00	20	0.03	20	248
H567682	244	229	3.4	0.65	52	110	< 0.5	< 2	0.01	< 0.5	2	103	449	5.35	< 10	< 1	0.76	10	0.03	45	156
H567683	244	229	2.0	0.77	28	140	< 0.5	< 2	0.01	< 0.5	4	73	668	4.99	< 10	< 1	0.66	20	0.08	55	275
H567684	244	229	1.8	0.65	28	160	< 0.5	< 2	0.01	< 0.5	4	94	722	5.61	< 10	< 1	0.52	10	0.03	60	258
H567685	244	229	2.0	0.67	18	190	< 0.5	< 2	0.01	< 0.5	8	91	1065	5.30	< 10	< 1	0.55	20	0.04	75	342
H567686	244	229	3.2	0.71	28	160	< 0.5	6	0.01	< 0.5	3	122	761	4.82	< 10	< 1	0.70	30	0.04	40	301
H567687	244	229	3.0	0.78	20	250	< 0.5	4	0.01	< 0.5	6	106	1220	5.29	< 10	< 1	0.52	20	0.07	60	314
H567688	244	229	2.4	0.66	18	190	< 0.5	2	0.03	< 0.5	4	136	953	3.57	< 10	< 1	0.51	20	0.04	50	414
H567689	244	229	2.2	0.75	6	210	< 0.5	2	0.03	< 0.5	7	100	1765	2.93	< 10	< 1	0.38	20	0.06	50	299
H567690	244	229	2.4	0.82	22	100	< 0.5	2	0.03	< 0.5	8	97	2710	3.31	< 10	< 1	0.28	20	0.05	75	432
H567691	244	229	2.8	0.72	54	60	< 0.5	4	0.49	1.5	18	80	6840	4.03	< 10	< 1	0.32	30	0.19	480	438
H567692	244	229	3.0	0.55	28	90	< 0.5	4	0.87	0.5	13	92	4950	2.73	< 10	< 1	0.27	40	0.45	295	567
H567693	244	229	2.4	0.64	6	110	< 0.5	2	0.85	0.5	15	106	4210	2.53	< 10	< 1	0.28	40	0.43	260	237

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/147
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A567654	244	229	0.02	1	480	8	< 2	1	17	< 0.01	< 10	< 10	18	< 10	46
A567655	244	229	0.02	1	340	14	< 2	< 1	18	< 0.01	< 10	< 10	5	< 10	24
A567656	244	229	0.01	2	200	12	< 2	< 1	13	< 0.01	< 10	< 10	7	< 10	30
A567657	244	229	0.02	2	430	10	< 2	1	16	< 0.01	< 10	< 10	12	< 10	68
A567658	244	229	0.02	1	430	16	< 2	< 1	18	< 0.01	< 10	< 10	6	< 10	34
A567659	244	229	0.01	3	430	6	< 2	1	12	< 0.01	< 10	< 10	17	< 10	84
A567660	244	229	0.01	3	470	6	< 2	1	11	< 0.01	< 10	< 10	12	< 10	72
A567661	244	229	0.01	3	460	32	< 2	1	17	< 0.01	< 10	< 10	8	< 10	46
A567662	244	229	0.01	3	480	10	< 2	1	12	< 0.01	< 10	< 10	20	< 10	72
A567663	244	229	0.01	3	490	6	< 2	1	8	< 0.01	< 10	< 10	20	20	80
A567664	244	229	0.01	3	370	8	< 2	< 1	7	< 0.01	< 10	< 10	9	< 10	58
A567665	244	229	0.01	2	490	8	< 2	1	14	< 0.01	< 10	< 10	10	< 10	42
A567666	244	229	0.01	3	550	8	< 2	1	9	< 0.01	< 10	< 10	16	< 10	56
A567667	244	229	0.01	3	380	14	< 2	1	10	< 0.01	< 10	< 10	12	< 10	48
A567668	244	229	0.01	5	530	18	< 2	1	15	< 0.01	< 10	< 10	13	< 10	72
A567669	244	229	0.01	4	540	10	< 2	1	15	< 0.01	< 10	< 10	11	< 10	60
A567670	244	229	0.01	2	490	10	< 2	1	12	< 0.01	< 10	< 10	8	< 10	48
A567671	244	229	0.01	2	470	14	< 2	1	14	< 0.01	< 10	< 10	7	< 10	44
A567672	244	229	0.02	3	300	24	< 2	< 1	11	< 0.01	< 10	< 10	6	< 10	26
A567673	244	229	0.02	3	510	16	< 2	1	17	< 0.01	< 10	< 10	15	< 10	46
A567674	244	229	0.01	3	430	14	< 2	1	14	< 0.01	< 10	< 10	20	< 10	56
A567675	244	229	0.02	3	480	12	< 2	1	17	< 0.01	< 10	< 10	35	< 10	54
A567676	244	229	0.02	3	380	16	< 2	2	17	< 0.01	< 10	< 10	21	< 10	40
A567677	244	229	0.01	3	410	16	2	1	16	< 0.01	< 10	< 10	17	< 10	38
A567678	244	229	0.02	3	370	6	< 2	1	18	< 0.01	< 10	< 10	16	< 10	46
A567679	244	229	0.01	2	580	18	< 2	2	27	< 0.01	< 10	< 10	17	< 10	30
A567680	244	229	0.02	3	600	28	2	1	22	< 0.01	< 10	< 10	10	< 10	26
A567681	244	229	0.02	2	700	32	2	1	26	< 0.01	< 10	< 10	10	< 10	14
A567682	244	229	0.02	3	460	14	< 2	1	20	< 0.01	< 10	< 10	15	< 10	42
A567683	244	229	0.02	3	440	4	< 2	2	21	< 0.01	< 10	< 10	20	< 10	54
A567684	244	229	0.02	4	250	8	< 2	1	13	< 0.01	< 10	< 10	20	< 10	60
A567685	244	229	0.02	4	310	6	< 2	1	15	< 0.01	< 10	< 10	11	< 10	70
A567686	244	229	0.02	3	490	12	4	1	19	< 0.01	< 10	< 10	11	< 10	32
A567687	244	229	0.02	4	280	4	2	2	13	< 0.01	< 10	< 10	23	< 10	52
A567688	244	229	0.01	4	270	8	10	1	13	< 0.01	< 10	< 10	13	< 10	50
A567689	244	229	0.01	3	240	2	2	1	11	< 0.01	< 10	< 10	13	< 10	42
A567690	244	229	0.01	6	260	2	6	1	8	< 0.01	< 10	< 10	13	< 10	70
A567691	244	229	0.01	8	260	8	18	2	9	< 0.01	< 10	< 10	13	< 10	152
A567692	244	229	0.01	9	290	12	10	2	9	< 0.01	< 10	< 10	12	< 10	88
A567693	244	229	0.01	7	240	12	4	2	10	< 0.01	< 10	< 10	13	< 10	92

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B567694	244	229	5.2	0.83	34	110	< 0.5	4	0.23	0.5	15	76	6240	2.89	< 10	< 1	0.33	30	0.25	295	161
B567695	244	229	4.0	0.90	18	70	< 0.5	4	0.02	< 0.5	11	50	5550	3.87	< 10	< 1	0.29	30	0.11	65	238
B567696	244	229	1.8	1.76	12	80	0.5	6	0.01	< 0.5	12	91	4960	3.08	< 10	< 1	0.36	40	0.13	60	198
B567697	244	229	2.4	1.27	2	160	< 0.5	2	0.08	0.5	19	69	7710	3.02	< 10	< 1	0.31	30	0.16	105	283
B567698	244	229	1.4	1.61	8	140	0.5	2	0.02	< 0.5	12	74	3810	2.17	< 10	< 1	0.32	40	0.18	120	514
B567699	244	229	3.4	1.13	6	120	< 0.5	4	0.13	< 0.5	20	58	9950	4.18	< 10	< 1	0.22	40	0.09	60	385
B567700	244	229	3.4	1.07	20	100	< 0.5	6	0.14	< 0.5	19	77	6500	4.25	< 10	< 1	0.26	40	0.08	45	488
B567701	244	229	2.2	1.50	16	110	0.5	4	0.38	0.5	21	82	7250	3.16	< 10	< 1	0.26	40	0.16	135	293
B567702	244	229	2.0	1.17	12	130	< 0.5	4	0.64	0.5	21	105	4990	2.74	< 10	< 1	0.26	40	0.31	245	239
B567703	244	229	5.2	0.49	30	40	< 0.5	14	0.66	0.5	18	48	6790	4.11	< 10	< 1	0.21	20	0.25	205	350
B567704	244	229	4.4	0.78	14	60	< 0.5	6	1.17	0.5	18	76	6220	3.71	< 10	< 1	0.30	50	0.46	425	527
B567705	244	229	7.2	1.05	18	60	< 0.5	12	0.79	1.0	20	70	8740	4.75	< 10	< 1	0.33	50	0.35	525	622
B567706	244	229	6.2	0.98	24	20	< 0.5	10	0.51	0.5	28	53	8560	4.77	< 10	< 1	0.27	20	0.18	155	496
B567707	244	229	5.0	1.25	12	40	< 0.5	2	0.10	< 0.5	14	56	>10000	2.56	< 10	< 1	0.23	20	0.06	40	601
B567708	244	229	3.6	1.21	4	70	< 0.5	2	0.76	0.5	14	96	>10000	4.16	< 10	< 1	0.40	30	0.37	230	548
B567709	244	229	1.6	1.15	< 2	100	< 0.5	2	0.98	< 0.5	12	90	4510	3.48	< 10	< 1	0.45	30	0.69	140	418
B567710	244	229	1.6	0.96	< 2	100	< 0.5	2	1.40	< 0.5	14	99	4340	4.07	< 10	< 1	0.37	30	0.74	135	412
B567711	244	229	1.6	1.25	< 2	90	< 0.5	2	1.53	< 0.5	15	117	3080	4.19	< 10	< 1	0.45	30	0.80	180	189
B567712	244	229	3.6	0.83	32	40	< 0.5	6	0.76	< 0.5	19	107	4720	5.33	< 10	< 1	0.34	20	0.28	205	330
B567713	244	229	1.2	1.25	< 2	120	< 0.5	2	1.23	< 0.5	14	90	3220	3.82	10	< 1	0.50	30	0.77	150	270
B567714	244	229	1.2	1.22	< 2	140	< 0.5	4	1.14	< 0.5	11	100	3150	3.45	10	< 1	0.56	40	0.80	160	212
B567715	244	229	1.0	1.20	2	130	< 0.5	2	2.08	< 0.5	11	102	2830	3.01	10	< 1	0.51	30	0.69	170	174
B567716	244	229	2.4	1.15	4	70	< 0.5	4	0.90	< 0.5	16	107	4130	3.18	10	< 1	0.43	30	0.65	215	421
B567717	244	229	1.6	1.06	6	90	< 0.5	6	1.19	< 0.5	13	100	2800	3.15	< 10	< 1	0.37	30	0.62	210	161
B567718	244	229	2.6	0.99	8	80	< 0.5	4	1.49	0.5	20	105	3430	3.49	10	< 1	0.36	30	0.70	260	186
B567719	244	229	3.0	0.79	8	80	< 0.5	4	0.73	0.5	10	112	4800	3.03	< 10	< 1	0.35	20	0.41	185	485
B567720	244	229	2.0	1.34	10	90	< 0.5	2	1.05	< 0.5	14	107	3030	2.97	10	< 1	0.48	30	0.68	230	212
B567721	244	229	1.8	1.10	2	120	< 0.5	4	1.73	< 0.5	18	83	2950	3.20	10	< 1	0.52	30	0.95	225	107
B567722	244	229	2.6	1.07	4	90	< 0.5	4	1.70	< 0.5	12	94	2900	3.75	10	< 1	0.53	30	0.76	280	134
B567723	244	229	2.8	0.97	4	80	< 0.5	6	1.72	< 0.5	11	98	4160	3.57	10	< 1	0.49	50	0.72	245	218
B567724	244	229	1.2	1.00	2	110	< 0.5	2	1.31	< 0.5	12	74	2780	1.93	10	< 1	0.45	40	0.68	120	275
B567725	244	229	1.2	1.07	6	160	< 0.5	4	1.20	< 0.5	10	96	2450	1.91	10	< 1	0.50	40	0.77	115	174
B567726	244	229	0.8	0.96	2	120	< 0.5	2	1.12	< 0.5	12	63	2070	1.91	10	< 1	0.44	40	0.73	100	157
B567727	244	229	0.8	1.11	< 2	230	< 0.5	2	1.46	< 0.5	9	93	2140	1.59	10	< 1	0.48	40	0.88	115	296
B567728	244	229	1.4	1.22	< 2	160	< 0.5	2	2.02	< 0.5	11	87	3390	2.29	10	< 1	0.56	60	1.14	160	388
B567729	244	229	1.4	1.52	8	220	< 0.5	4	1.69	< 0.5	10	138	3730	1.87	10	< 1	0.55	50	0.94	165	462
B567730	244	229	1.0	1.08	< 2	170	< 0.5	4	1.52	< 0.5	12	61	2770	1.97	10	< 1	0.46	30	0.84	110	175
B567731	244	229	1.0	1.16	4	190	< 0.5	2	2.12	< 0.5	11	108	1910	1.38	10	< 1	0.44	60	0.77	145	300
B567732	244	229	1.4	0.85	4	130	< 0.5	4	0.88	< 0.5	8	67	3270	1.47	10	< 1	0.33	50	0.48	120	174
B567733	244	229	1.2	0.80	< 2	150	< 0.5	2	1.06	< 0.5	7	59	2520	1.55	10	< 1	0.37	50	0.61	130	253

CERTIFICATION: Ian Bichler

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H567694	244	229	0.01	6	240	10	28	3	8	< 0.01	< 10	< 10	22	< 10	112
H567695	244	229	0.01	5	270	8	2	3	10	< 0.01	< 10	< 10	29	< 10	64
H567696	244	229	0.01	6	480	16	< 2	3	22	< 0.01	< 10	< 10	34	< 10	52
H567697	244	229	< 0.01	8	340	2	< 2	3	7	< 0.01	< 10	< 10	24	< 10	86
H567698	244	229	0.01	6	360	4	2	3	18	0.01	< 10	< 10	28	< 10	64
H567699	244	229	< 0.01	8	310	14	< 2	2	8	< 0.01	< 10	< 10	18	< 10	126
H567700	244	229	0.01	7	320	6	2	2	10	< 0.01	< 10	< 10	11	< 10	86
H567701	244	229	< 0.01	9	360	26	< 2	3	9	< 0.01	< 10	< 10	21	< 10	92
H567702	244	229	< 0.01	7	380	12	2	2	8	< 0.01	< 10	< 10	14	< 10	86
H567703	244	229	< 0.01	6	310	14	12	1	6	< 0.01	< 10	< 10	2	< 10	76
H567704	244	229	0.01	6	380	4	4	2	8	< 0.01	< 10	< 10	12	< 10	90
H567705	244	229	< 0.01	7	520	6	4	3	7	< 0.01	< 10	< 10	15	< 10	130
H567706	244	229	< 0.01	9	570	8	8	1	7	< 0.01	< 10	< 10	4	< 10	84
H567707	244	229	< 0.01	8	350	4	6	1	5	< 0.01	< 10	< 10	15	< 10	68
H567708	244	229	0.01	7	340	2	2	3	11	< 0.01	< 10	< 10	27	< 10	80
H567709	244	229	0.01	6	360	2	2	3	15	0.01	< 10	< 10	27	< 10	56
H567710	244	229	0.01	7	340	4	2	3	21	0.01	< 10	< 10	27	< 10	50
H567711	244	229	0.01	7	340	2	< 2	4	22	0.01	< 10	< 10	31	< 10	46
H567712	244	229	0.01	7	350	2	2	2	15	< 0.01	< 10	< 10	13	< 10	46
H567713	244	229	0.02	6	350	12	< 2	6	23	0.03	< 10	< 10	39	< 10	52
H567714	244	229	0.02	6	430	4	< 2	7	25	0.03	< 10	< 10	43	< 10	50
H567715	244	229	0.02	6	390	2	< 2	6	33	0.03	< 10	< 10	38	< 10	44
H567716	244	229	0.01	7	340	22	2	4	22	0.01	< 10	< 10	29	< 10	54
H567717	244	229	0.01	5	360	18	< 2	4	21	0.01	< 10	< 10	27	< 10	42
H567718	244	229	0.01	7	370	12	2	3	25	< 0.01	< 10	< 10	20	< 10	64
H567719	244	229	0.01	7	360	2	6	2	19	< 0.01	< 10	< 10	14	< 10	54
H567720	244	229	0.01	6	450	6	2	6	30	0.01	< 10	< 10	35	< 10	62
H567721	244	229	0.01	5	410	4	2	6	43	0.03	< 10	< 10	37	< 10	44
H567722	244	229	0.01	6	340	16	2	6	36	0.03	< 10	< 10	45	< 10	48
H567723	244	229	0.01	6	310	6	< 2	6	30	0.02	< 10	< 10	40	< 10	46
H567724	244	229	0.02	4	360	2	2	7	37	0.02	< 10	< 10	43	< 10	28
H567725	244	229	0.03	5	350	4	2	8	45	0.03	< 10	< 10	44	< 10	28
H567726	244	229	0.03	4	420	2	< 2	7	38	0.03	< 10	< 10	46	< 10	26
H567727	244	229	0.02	4	410	6	2	8	54	0.04	< 10	< 10	50	< 10	26
H567728	244	229	0.02	4	370	8	2	9	61	0.06	< 10	< 10	51	< 10	34
H567729	244	229	0.02	7	380	10	2	9	61	0.03	< 10	< 10	48	< 10	36
H567730	244	229	0.02	6	420	6	< 2	8	53	0.04	< 10	< 10	43	< 10	30
H567731	244	229	0.01	4	320	4	2	7	59	0.02	10	< 10	35	< 10	26
H567732	244	229	0.01	4	450	12	< 2	7	40	0.01	< 10	< 10	30	< 10	28
H567733	244	229	0.01	4	360	8	< 2	7	42	0.02	< 10	< 10	32	< 10	26

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V6B 1L8

Project : CASINO 93/147
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : I9314134
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314134

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
A567734	244	229	1.4	0.98	12	110	< 0.5	4	1.26	< 0.5	13	95	2610	1.95	10	< 1	0.44	30	0.66	160	177
A567735	244	229	0.8	0.97	2	170	< 0.5	2	1.69	< 0.5	7	55	1470	1.77	10	< 1	0.49	40	0.92	145	235
A567736	244	229	0.8	1.28	12	130	< 0.5	2	1.20	< 0.5	9	76	1790	1.83	10	< 1	0.50	40	0.80	125	158
A567737	244	229	1.4	0.79	8	100	< 0.5	4	1.01	< 0.5	9	74	3430	2.35	10	< 1	0.30	40	0.41	230	256
A567738	244	229	1.2	0.69	8	100	< 0.5	2	0.61	< 0.5	9	47	2580	1.88	< 10	< 1	0.27	50	0.37	195	295
A567739	244	229	3.2	0.41	12	40	< 0.5	6	0.94	< 0.5	10	53	3070	2.35	< 10	< 1	0.14	40	0.33	285	189
A567740	244	229	3.6	0.35	40	30	< 0.5	18	1.02	< 0.5	12	50	4090	3.36	< 10	< 1	0.14	40	0.32	320	172
A567741	244	229	6.6	0.42	58	30	< 0.5	74	1.38	< 0.5	12	58	8260	4.30	< 10	< 1	0.17	30	0.42	325	244
A567742	244	229	1.2	0.68	12	70	< 0.5	4	0.90	< 0.5	10	63	2610	1.95	< 10	< 1	0.15	40	0.38	245	192
A567743	244	229	1.8	0.72	14	80	< 0.5	4	1.14	< 0.5	11	76	2660	1.98	< 10	< 1	0.19	30	0.39	190	134
A567744	244	229	1.4	0.88	18	40	< 0.5	6	1.51	< 0.5	13	58	1835	2.21	10	< 1	0.27	30	0.66	180	103
A567745	244	229	2.4	0.93	8	80	< 0.5	64	1.25	< 0.5	16	58	2820	2.18	10	< 1	0.39	30	0.70	130	144
A567746	244	229	0.8	0.90	6	110	< 0.5	4	1.29	< 0.5	9	48	2250	1.65	10	< 1	0.37	40	0.73	120	191
A567747	244	229	0.8	1.03	8	130	< 0.5	2	1.20	< 0.5	11	56	2250	1.64	< 10	< 1	0.40	20	0.75	155	175
A567748	244	229	1.4	0.76	14	90	< 0.5	4	1.76	< 0.5	13	49	1715	2.09	10	< 1	0.28	30	0.65	295	185
A567749	244	229	0.6	0.74	6	80	< 0.5	4	1.32	< 0.5	10	114	2100	1.34	10	< 1	0.27	30	0.45	105	168
A567750	244	229	1.0	0.83	8	110	< 0.5	4	1.14	< 0.5	12	103	2500	1.79	10	< 1	0.30	30	0.46	130	114
A567751	244	229	1.6	0.92	12	120	< 0.5	4	0.99	< 0.5	9	117	2650	1.66	< 10	< 1	0.30	30	0.48	140	199
A567752	244	229	1.4	0.65	12	70	< 0.5	4	1.10	< 0.5	10	114	2480	1.93	< 10	< 1	0.29	40	0.41	180	402
A567753	244	229	1.2	1.08	10	160	< 0.5	4	0.98	< 0.5	7	123	2550	1.22	10	< 1	0.40	40	0.60	110	488
A567754	244	229	2.6	0.66	2	60	0.5	< 2	0.83	< 0.5	12	117	3750	1.58	10	< 1	0.28	30	0.33	160	607
A567755	244	229	1.2	1.13	12	120	< 0.5	2	1.27	< 0.5	10	104	2850	1.79	< 10	< 1	0.37	30	0.75	135	249
A567756	244	229	1.2	1.12	8	60	< 0.5	16	1.24	< 0.5	9	64	2570	2.32	10	< 1	0.46	20	0.84	120	251
A567757	244	229	0.8	1.05	6	90	< 0.5	2	1.62	< 0.5	13	86	2580	2.03	10	< 1	0.38	30	0.62	125	258
A567758	244	229	3.0	0.31	14	30	< 0.5	8	1.52	< 0.5	10	69	2910	2.53	< 10	< 1	0.15	20	0.57	370	361
A567759	244	229	2.8	0.59	16	60	< 0.5	6	1.01	< 0.5	13	98	3040	2.65	< 10	< 1	0.24	30	0.43	220	375
A567760	244	229	1.6	0.45	12	30	< 0.5	4	1.20	< 0.5	13	72	2440	2.45	< 10	< 1	0.18	20	0.47	230	260
A567761	244	229	1.4	0.90	8	150	< 0.5	4	1.21	< 0.5	6	89	2190	1.42	< 10	< 1	0.33	20	0.58	115	239
A567762	244	229	1.4	1.44	8	290	< 0.5	< 2	1.12	< 0.5	9	101	2870	1.38	< 10	< 1	0.57	20	0.87	90	195
A567763	244	229	2.2	0.85	10	160	< 0.5	< 2	0.85	< 0.5	14	70	4010	1.28	< 10	< 1	0.31	10	0.48	65	254
A567764	244	229	1.2	0.80	< 2	140	< 0.5	4	1.11	< 0.5	15	75	3020	1.57	< 10	< 1	0.39	10	0.62	85	277
A567765	244	229	2.2	0.43	6	120	< 0.5	2	0.93	< 0.5	18	65	4930	1.65	< 10	< 1	0.21	10	0.31	75	280
A567766	244	229	1.8	0.68	6	150	< 0.5	< 2	1.19	< 0.5	16	81	3010	1.73	< 10	< 1	0.30	20	0.57	140	327
A567767	244	229	2.4	0.45	6	30	< 0.5	4	0.77	< 0.5	22	96	5120	1.84	< 10	< 1	0.21	30	0.30	110	446
A567768	244	229	1.4	0.97	14	150	< 0.5	6	0.87	< 0.5	30	102	2850	1.58	< 10	< 1	0.47	20	0.61	80	405
A567769	244	229	1.8	0.73	< 2	100	< 0.5	< 2	1.03	< 0.5	17	90	3280	1.66	< 10	< 1	0.35	20	0.62	145	554
A567770	244	229	3.6	0.44	52	50	< 0.5	12	1.06	< 0.5	15	74	3490	2.80	< 10	< 1	0.25	10	0.43	220	197
A567771	244	229	2.2	0.59	22	110	< 0.5	2	0.82	9.5	18	75	1705	1.76	< 10	< 1	0.28	20	0.46	115	194
A567772	244	229	0.6	0.77	8	90	< 0.5	2	0.81	< 0.5	9	90	1375	1.27	< 10	< 1	0.34	30	0.59	80	178
A567773	244	229	0.8	0.67	12	40	< 0.5	2	0.60	< 0.5	10	71	1895	1.38	< 10	< 1	0.29	30	0.42	60	155

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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H567734	244	229	0.03	4	420	8	< 2	7	40	0.03	< 10	< 10	38	< 10	34
H567735	244	229	0.02	3	380	10	< 2	7	51	0.03	< 10	< 10	39	< 10	32
H567736	244	229	0.02	4	400	12	< 2	7	53	0.02	< 10	< 10	42	< 10	36
H567737	244	229	0.01	4	640	6	< 2	4	29	< 0.01	< 10	< 10	29	< 10	24
H567738	244	229	0.01	4	460	6	< 2	6	22	< 0.01	< 10	< 10	24	< 10	28
H567739	244	229	< 0.01	4	410	14	< 2	4	17	< 0.01	< 10	< 10	14	< 10	58
H567740	244	229	< 0.01	5	490	18	< 2	4	13	< 0.01	< 10	< 10	13	< 10	78
H567741	244	229	< 0.01	6	540	12	< 2	3	17	< 0.01	< 10	< 10	11	< 10	74
H567742	244	229	< 0.01	4	490	12	< 2	6	35	< 0.01	< 10	< 10	20	< 10	40
H567743	244	229	0.01	4	450	6	< 2	4	44	< 0.01	< 10	< 10	18	< 10	38
H567744	244	229	0.02	3	440	6	< 2	4	87	0.01	10	< 10	29	< 10	34
H567745	244	229	0.02	4	460	16	< 2	6	45	0.02	10	< 10	36	< 10	30
H567746	244	229	0.01	2	410	6	< 2	6	54	0.02	10	< 10	32	< 10	26
H567747	244	229	0.01	3	440	8	< 2	7	49	0.01	10	< 10	40	< 10	32
H567748	244	229	0.01	3	420	8	< 2	4	48	< 0.01	10	< 10	22	< 10	32
H567749	244	229	0.04	3	370	8	< 2	3	73	< 0.01	10	< 10	20	< 10	24
H567750	244	229	0.02	5	510	6	< 2	6	40	< 0.01	10	< 10	29	< 10	38
H567751	244	229	0.01	4	370	4	< 2	4	50	< 0.01	10	< 10	24	< 10	30
H567752	244	229	0.01	5	390	6	2	3	30	< 0.01	10	< 10	15	< 10	34
H567753	244	229	0.02	4	300	10	2	6	57	0.01	10	< 10	32	< 10	32
H567754	244	229	0.01	6	430	12	6	5	20	< 0.01	10	< 10	30	< 10	22
H567755	244	229	0.01	6	400	2	2	4	57	< 0.01	< 10	< 10	29	< 10	30
H567756	244	229	0.01	4	370	10	< 2	6	59	0.02	< 10	< 10	41	< 10	30
H567757	244	229	0.02	4	450	2	< 2	5	56	0.01	< 10	< 10	31	< 10	26
H567758	244	229	< 0.01	5	390	12	2	1	16	< 0.01	< 10	< 10	5	< 10	34
H567759	244	229	< 0.01	6	510	8	2	3	16	< 0.01	< 10	< 10	15	< 10	38
H567760	244	229	< 0.01	6	480	4	< 2	2	15	< 0.01	< 10	< 10	10	< 10	30
H567761	244	229	0.02	4	410	12	< 2	6	56	0.01	< 10	< 10	33	< 10	28
H567762	244	229	0.02	5	420	12	2	8	87	0.02	< 10	< 10	51	< 10	26
H567763	244	229	0.01	4	480	16	2	5	98	< 0.01	< 10	< 10	30	< 10	34
H567764	244	229	0.02	4	720	6	4	4	77	0.01	< 10	< 10	32	< 10	16
H567765	244	229	0.02	7	330	10	2	2	104	< 0.01	< 10	< 10	14	< 10	22
H567766	244	229	0.01	4	420	4	4	4	221	0.01	< 10	< 10	28	< 10	26
H567767	244	229	0.01	5	480	8	6	5	17	< 0.01	< 10	< 10	22	< 10	24
H567768	244	229	0.01	4	430	6	6	6	53	0.01	< 10	< 10	38	< 10	16
H567769	244	229	0.01	4	510	6	10	5	37	0.01	< 10	< 10	32	< 10	22
H567770	244	229	0.01	5	410	32	14	3	33	< 0.01	< 10	< 10	15	< 10	58
H567771	244	229	0.01	4	340	494	10	2	50	< 0.01	< 10	< 10	17	50	282
H567772	244	229	0.01	4	250	2	4	3	67	< 0.01	10	< 10	22	< 10	18
H567773	244	229	0.01	4	200	4	4	2	65	< 0.01	10	< 10	18	< 10	18

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567774	244	229	0.8	0.50	4	60	< 0.5	< 2	0.50	< 0.5	13	122	2640	1.61	< 10	< 1	0.30	20	0.34	70	511
H567775	244	229	0.6	0.80	14	70	< 0.5	< 2	0.59	< 0.5	14	90	1745	1.35	< 10	< 1	0.42	10	0.56	60	181
H567776	244	229	1.0	0.53	4	50	< 0.5	6	0.77	< 0.5	11	122	2090	1.46	< 10	< 1	0.30	10	0.33	70	505
H567777	244	229	1.2	0.68	2	60	< 0.5	6	0.77	< 0.5	17	131	2250	1.77	< 10	< 1	0.37	20	0.45	95	395
H567778	244	229	2.2	0.50	10	90	< 0.5	2	0.84	< 0.5	14	133	4030	1.68	< 10	< 1	0.28	20	0.18	65	687
H567779	244	229	2.0	0.50	4	140	< 0.5	4	0.96	< 0.5	8	131	3030	1.38	< 10	< 1	0.29	10	0.17	50	571
H567780	244	229	1.4	0.54	2	80	< 0.5	< 2	1.05	< 0.5	17	151	2050	2.25	< 10	< 1	0.29	10	0.17	65	265
H567781	244	229	1.6	0.57	6	100	< 0.5	< 2	1.15	< 0.5	12	127	2690	1.69	< 10	< 1	0.31	20	0.18	70	581
H567782	244	229	0.8	0.73	6	190	< 0.5	< 2	0.92	< 0.5	8	133	1740	1.22	< 10	< 1	0.41	30	0.42	85	268
H567783	244	229	1.0	0.69	12	80	< 0.5	< 2	0.89	< 0.5	11	92	1720	1.86	< 10	< 1	0.33	10	0.45	90	179
H567784	244	229	1.2	0.56	12	50	< 0.5	6	1.94	< 0.5	7	133	883	2.80	< 10	< 1	0.32	10	0.20	130	286
H567785	244	229	1.0	1.22	6	240	< 0.5	6	1.49	< 0.5	13	107	1340	1.65	< 10	< 1	0.46	20	0.68	145	288
H567786	244	229	16.0	0.64	212	160	< 0.5	< 2	1.53	40.0	6	122	1615	1.52	< 10	< 1	0.28	10	0.31	395	297
H567787	244	229	26.0	0.62	200	30	< 0.5	< 2	3.85	34.0	5	82	1445	0.98	< 10	< 1	0.22	10	0.53	675	339
H567788	244	229	0.8	1.03	4	140	< 0.5	4	1.49	< 0.5	9	104	1190	1.60	< 10	< 1	0.54	20	0.73	175	184
H567789	244	229	0.8	0.50	4	60	< 0.5	4	1.05	< 0.5	8	104	1280	1.30	< 10	< 1	0.31	30	0.24	85	278
H567790	244	229	0.4	0.53	6	90	< 0.5	< 2	0.96	< 0.5	8	103	1205	1.04	< 10	< 1	0.34	20	0.34	75	343
H567791	244	229	0.8	0.55	6	120	< 0.5	< 2	1.01	< 0.5	10	104	2070	1.50	< 10	< 1	0.37	20	0.34	85	243
H567792	244	229	0.8	0.62	2	100	< 0.5	8	1.02	< 0.5	8	126	1460	1.04	< 10	< 1	0.41	30	0.37	95	370
H567793	244	229	1.6	0.58	8	110	< 0.5	8	1.33	< 0.5	7	113	1920	1.29	< 10	< 1	0.35	20	0.31	145	358
H567794	244	229	2.4	0.48	42	120	< 0.5	2	1.14	5.5	11	129	3150	1.74	< 10	< 1	0.27	30	0.30	360	384
H567795	244	229	1.0	0.66	8	110	< 0.5	< 2	0.98	< 0.5	10	127	1800	1.60	< 10	< 1	0.41	30	0.41	270	217
H567796	244	229	0.6	0.51	< 2	90	< 0.5	< 2	0.86	< 0.5	11	126	1380	1.11	< 10	< 1	0.29	30	0.20	135	176
H567797	244	229	2.4	0.47	26	90	< 0.5	< 2	1.77	0.5	9	96	1280	1.34	< 10	< 1	0.24	30	0.17	320	297
H567798	244	229	0.6	0.64	4	110	< 0.5	< 2	1.65	< 0.5	9	91	1160	1.15	< 10	< 1	0.28	20	0.35	180	190
H567799	244	229	0.8	0.52	6	100	< 0.5	< 2	1.09	< 0.5	8	100	1320	1.33	< 10	< 1	0.29	40	0.22	145	143
H567800	244	229	0.6	0.59	4	80	< 0.5	< 2	1.04	< 0.5	7	103	1210	1.18	< 10	< 1	0.34	40	0.33	105	265
H567801	244	229	0.6	0.55	< 2	80	< 0.5	2	1.07	< 0.5	8	88	1650	1.42	< 10	< 1	0.32	20	0.29	95	249
H567802	244	229	1.6	0.53	12	100	< 0.5	< 2	2.29	< 0.5	12	115	2400	1.86	< 10	< 1	0.25	20	0.39	140	253
H567803	244	229	0.8	0.65	6	120	< 0.5	< 2	3.26	< 0.5	9	74	1830	1.33	< 10	< 1	0.29	30	0.53	125	271
H567804	244	229	0.8	0.94	< 2	110	0.5	< 2	2.70	< 0.5	11	74	1765	1.50	< 10	< 1	0.46	30	0.62	90	722
H567805	244	229	0.8	1.04	< 2	160	< 0.5	6	2.51	< 0.5	11	91	2310	1.51	< 10	< 1	0.46	30	0.67	90	529
H567806	244	229	0.8	1.06	10	190	< 0.5	< 2	2.45	< 0.5	17	95	2170	1.49	< 10	< 1	0.45	20	0.62	90	153
H567807	244	229	1.0	1.09	< 2	120	< 0.5	4	1.69	< 0.5	16	81	2080	1.78	< 10	< 1	0.63	20	0.92	70	230
H567808	244	229	1.0	1.33	< 2	190	< 0.5	2	1.89	< 0.5	13	67	2060	1.66	< 10	< 1	0.71	20	0.99	70	544
H567809	244	229	0.8	1.55	8	240	< 0.5	6	2.01	< 0.5	9	91	1940	1.52	< 10	< 1	0.80	30	1.09	80	372
H567810	244	229	1.2	1.56	12	200	0.5	2	2.40	< 0.5	11	125	2410	1.32	< 10	< 1	0.51	20	0.79	85	321
H567811	244	229	0.8	1.58	6	250	< 0.5	2	1.74	< 0.5	9	98	1995	1.41	< 10	< 1	0.76	20	1.09	70	529
H567812	244	229	0.8	1.27	2	200	< 0.5	8	2.25	< 0.5	9	94	1915	1.93	< 10	< 1	0.50	20	0.89	105	425
H567813	244	229	1.0	1.27	6	210	< 0.5	4	1.80	< 0.5	12	81	2670	1.49	< 10	< 1	0.41	20	0.62	60	294

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CERTIFICATE OF ANALYSIS A9314134

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567774	244	229	0.01	4	230	2	2	3	14	< 0.01	< 10	< 10	21	< 10	12
H567775	244	229	0.01	4	210	2	2	3	44	0.01	< 10	< 10	27	< 10	16
H567776	244	229	0.01	3	260	2	6	3	27	< 0.01	< 10	< 10	20	< 10	16
H567777	244	229	0.01	6	280	< 2	2	3	27	< 0.01	< 10	< 10	23	< 10	12
H567778	244	229	0.01	7	280	4	6	1	31	< 0.01	< 10	< 10	12	< 10	14
H567779	244	229	0.01	6	220	8	6	1	33	< 0.01	< 10	< 10	13	< 10	14
H567780	244	229	0.01	7	230	4	2	1	33	< 0.01	< 10	< 10	11	< 10	8
H567781	244	229	0.01	4	310	14	4	2	32	< 0.01	< 10	< 10	13	< 10	14
H567782	244	229	0.02	5	220	8	2	3	40	0.01	< 10	< 10	26	< 10	12
H567783	244	229	0.02	6	310	6	2	3	56	0.01	< 10	< 10	20	< 10	14
H567784	244	229	0.01	4	420	18	4	2	29	< 0.01	< 10	< 10	13	< 10	22
H567785	244	229	0.02	6	530	10	4	4	83	0.01	< 10	< 10	28	< 10	20
H567786	244	229	0.01	4	430	1040	44	1	60	< 0.01	< 10	< 10	10	< 10	1425
H567787	244	229	0.01	3	330	344	36	3	80	< 0.01	< 10	< 10	15	< 10	1090
H567788	244	229	0.03	11	530	12	< 2	6	41	0.05	< 10	< 10	45	< 10	22
H567789	244	229	0.03	7	310	4	2	3	26	0.01	< 10	< 10	19	< 10	14
H567790	244	229	0.05	5	290	6	2	3	25	0.02	< 10	< 10	26	< 10	14
H567791	244	229	0.03	6	250	6	2	3	27	0.02	< 10	< 10	24	< 10	14
H567792	244	229	0.04	6	290	8	2	3	25	0.02	< 10	< 10	27	< 10	16
H567793	244	229	0.03	5	290	12	2	3	32	0.01	< 10	< 10	23	< 10	14
H567794	244	229	0.01	8	290	56	6	2	50	< 0.01	< 10	< 10	12	< 10	220
H567795	244	229	0.02	6	310	12	4	3	37	0.01	< 10	< 10	21	< 10	34
H567796	244	229	0.04	4	300	8	2	2	30	< 0.01	< 10	< 10	14	< 10	16
H567797	244	229	0.02	6	340	24	12	2	43	< 0.01	< 10	< 10	11	< 10	38
H567798	244	229	0.02	9	350	16	2	2	51	< 0.01	< 10	< 10	15	< 10	30
H567799	244	229	0.02	5	280	6	4	2	37	< 0.01	< 10	< 10	15	< 10	18
H567800	244	229	0.03	6	310	8	2	3	39	0.01	< 10	< 10	23	< 10	16
H567801	244	229	0.03	4	320	12	2	2	48	0.01	< 10	< 10	19	< 10	16
H567802	244	229	0.01	6	370	6	2	2	191	< 0.01	< 10	< 10	14	< 10	20
H567803	244	229	0.01	4	380	6	2	3	241	< 0.01	< 10	< 10	22	< 10	16
H567804	244	229	0.01	6	550	2	6	5	274	0.02	< 10	< 10	33	< 10	14
H567805	244	229	0.02	4	470	4	4	8	127	0.02	< 10	< 10	45	< 10	14
H567806	244	229	0.02	7	400	4	2	8	164	0.02	< 10	< 10	44	< 10	14
H567807	244	229	0.04	6	440	6	4	9	87	0.08	< 10	< 10	61	< 10	20
H567808	244	229	0.03	6	470	4	4	11	96	0.08	< 10	< 10	72	< 10	20
H567809	244	229	0.03	5	480	2	6	12	119	0.07	< 10	< 10	77	< 10	20
H567810	244	229	0.02	5	430	18	4	10	136	0.01	< 10	< 10	55	< 10	18
H567811	244	229	0.03	4	410	6	6	10	100	0.07	< 10	< 10	71	< 10	20
H567812	244	229	0.02	5	470	14	4	8	151	0.02	< 10	< 10	50	< 10	18
H567813	244	229	0.02	5	490	10	4	7	117	0.01	< 10	< 10	42	< 10	14

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 93/147
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9314134

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R567814	244	229	1.6	0.61	4	130	< 0.5	4	2.60	< 0.5	8	57	2840	1.25	< 10	< 1	0.21	20	0.40	60	670
R567815	244	229	0.6	1.45	6	220	< 0.5	< 2	1.01	< 0.5	15	109	1700	1.36	< 10	< 1	0.41	10	0.62	45	233
R567816	244	229	1.2	0.66	8	30	< 0.5	< 2	0.85	< 0.5	15	78	2530	1.31	< 10	< 1	0.19	40	0.29	35	328
R567817	244	229	0.8	0.52	8	40	< 0.5	6	1.28	< 0.5	9	59	2530	2.01	< 10	< 1	0.22	40	0.35	50	716
R567818	244	229	0.6	0.70	12	40	< 0.5	4	1.57	< 0.5	10	67	2080	1.37	< 10	< 1	0.24	30	0.43	60	378
R567819	244	229	0.8	1.80	6	130	0.5	< 2	1.26	< 0.5	8	135	1915	1.12	< 10	< 1	0.50	20	0.85	60	218
R567820	244	229	0.4	1.32	8	120	0.5	< 2	1.37	< 0.5	8	99	1255	1.38	< 10	< 1	0.52	20	0.72	50	562
R567821	244	229	0.4	1.65	10	110	0.5	2	1.34	< 0.5	8	95	1055	1.42	< 10	< 1	0.67	10	1.03	70	212
R567822	244	229	0.2	1.55	< 2	180	0.5	< 2	1.35	< 0.5	8	82	688	1.34	< 10	< 1	0.65	10	0.95	60	179
R567823	244	229	0.6	1.45	12	120	0.5	< 2	1.72	< 0.5	10	74	1305	1.32	< 10	< 1	0.60	10	1.07	90	269
R567824	244	229	0.6	1.04	14	70	0.5	< 2	2.01	< 0.5	7	63	1000	1.40	< 10	< 1	0.40	10	0.96	155	263
R567825	244	229	0.8	1.00	20	30	< 0.5	< 2	2.10	< 0.5	12	75	951	2.60	< 10	< 1	0.37	< 10	0.98	390	155
R567826	244	229	1.4	1.84	20	60	0.5	2	1.84	< 0.5	13	127	1455	1.53	< 10	< 1	0.63	10	1.39	245	410
R567827	244	229	0.8	1.09	14	240	< 0.5	< 2	1.49	< 0.5	7	67	655	1.46	< 10	< 1	0.43	10	0.89	320	247
R567828	244	229	1.0	1.14	36	60	< 0.5	< 2	1.39	1.0	6	101	649	1.08	< 10	< 1	0.42	< 10	1.00	600	592
R567829	244	229	0.4	1.20	14	290	< 0.5	< 2	1.16	< 0.5	15	67	1130	1.28	< 10	< 1	0.59	< 10	1.03	90	313
R567830	244	229	1.2	1.56	14	40	< 0.5	2	1.28	< 0.5	13	107	2090	1.50	< 10	< 1	0.75	10	1.35	110	286
R567831	244	229	1.2	0.96	16	50	< 0.5	4	1.55	< 0.5	10	119	1320	1.12	< 10	< 1	0.44	10	0.89	120	595
R567832	244	229	1.4	0.36	14	10	< 0.5	4	1.74	< 0.5	11	86	2310	1.55	< 10	< 1	0.11	< 10	0.59	200	251
R567833	244	229	2.4	0.44	10	20	< 0.5	4	1.67	< 0.5	12	67	3310	1.91	< 10	< 1	0.16	< 10	0.66	150	346
R567834	244	229	0.6	1.10	6	280	< 0.5	< 2	1.18	< 0.5	12	81	1420	1.29	< 10	< 1	0.60	< 10	1.09	85	241
R567835	244	229	0.4	1.09	12	330	< 0.5	4	1.24	< 0.5	13	73	1105	1.12	< 10	< 1	0.56	10	0.81	70	306
R567836	244	229	0.4	1.36	8	350	< 0.5	< 2	1.36	< 0.5	11	75	1265	1.25	< 10	< 1	0.61	20	0.92	95	205
R567837	244	229	0.6	1.18	< 2	420	< 0.5	4	1.42	< 0.5	8	96	1065	1.17	< 10	< 1	0.62	20	1.07	130	367
R567838	244	229	3.2	0.50	32	20	< 0.5	< 2	1.34	4.0	9	110	1065	1.31	< 10	< 1	0.18	10	0.55	175	439
R567839	244	229	0.6	0.77	12	30	< 0.5	< 2	1.66	< 0.5	6	84	766	0.95	< 10	< 1	0.33	20	0.71	140	839
R567840	244	229	0.2	1.69	8	40	0.5	< 2	1.36	< 0.5	4	119	462	1.02	< 10	< 1	0.61	10	1.24	115	249
R567841	244	229	0.2	1.08	8	350	< 0.5	< 2	1.51	< 0.5	5	94	631	1.07	< 10	< 1	0.38	10	0.85	95	452
R567842	244	229	0.4	0.71	14	40	< 0.5	< 2	1.32	< 0.5	6	89	674	0.83	< 10	< 1	0.25	< 10	0.68	120	176
R567843	244	229	15.4	0.46	48	30	< 0.5	8	1.24	40.5	6	87	590	2.89	< 10	< 1	0.24	< 10	0.46	205	353
R567844	244	229	0.6	0.53	6	20	< 0.5	< 2	1.14	< 0.5	6	113	582	1.19	< 10	< 1	0.16	< 10	0.46	100	443
R567845	244	229	0.6	0.61	< 2	30	< 0.5	< 2	1.52	< 0.5	7	84	787	1.35	< 10	< 1	0.23	< 10	0.67	95	394
R567846	244	229	0.2	0.73	< 2	180	< 0.5	< 2	1.46	< 0.5	7	83	641	0.98	< 10	< 1	0.31	< 10	0.61	65	220
R567847	244	229	0.4	0.79	8	110	< 0.5	< 2	1.20	< 0.5	13	87	958	0.98	< 10	< 1	0.35	10	0.50	45	230
R567848	244	229	0.4	0.89	< 2	70	< 0.5	< 2	1.94	< 0.5	7	127	1130	0.83	< 10	< 1	0.33	10	0.53	65	215
R567849	244	229	0.6	0.70	6	220	< 0.5	< 2	1.54	< 0.5	9	97	1410	1.03	< 10	< 1	0.27	10	0.57	75	226
R567850	244	229	0.6	0.64	4	40	< 0.5	< 2	1.94	< 0.5	6	104	787	1.06	< 10	< 1	0.22	10	0.65	230	313
R567851	244	229	0.6	0.63	6	90	< 0.5	< 2	1.70	< 0.5	7	113	806	1.28	< 10	< 1	0.23	< 10	0.65	130	282
R567852	244	229	0.6	0.62	6	80	< 0.5	< 2	1.95	< 0.5	4	112	623	2.00	< 10	< 1	0.25	< 10	0.78	540	337
R567853	244	229	0.6	0.87	18	140	< 0.5	< 2	2.43	3.0	7	132	537	1.88	< 10	< 1	0.40	10	1.02	1290	237

CERTIFICATION: Stuart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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VANCOUVER, BC
V6B 1L8

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R567814	244	229	0.01	4	440	8	6	6	55	< 0.01	< 10	< 10	25	< 10	12
R567815	244	229	0.02	7	640	12	2	7	152	< 0.01	< 10	< 10	42	< 10	20
R567816	244	229	0.01	6	540	40	4	7	44	< 0.01	< 10	< 10	24	< 10	14
R567817	244	229	0.01	6	390	12	8	4	31	< 0.01	< 10	< 10	23	< 10	16
R567818	244	229	0.01	5	490	8	4	6	48	< 0.01	< 10	< 10	26	< 10	16
R567819	244	229	0.02	7	490	8	2	10	102	< 0.01	< 10	< 10	52	< 10	18
R567820	244	229	0.02	4	380	8	4	8	72	0.02	< 10	< 10	45	< 10	12
R567821	244	229	0.02	5	580	14	< 2	10	79	0.03	< 10	< 10	61	< 10	16
R567822	244	229	0.03	5	530	6	< 2	9	81	0.04	< 10	< 10	57	< 10	12
R567823	244	229	0.02	6	460	8	2	9	72	0.03	< 10	< 10	54	< 10	12
R567824	244	229	0.02	5	520	6	4	6	68	0.01	< 10	< 10	34	< 10	12
R567825	244	229	0.01	7	420	14	4	5	56	0.01	< 10	< 10	29	< 10	24
R567826	244	229	0.01	8	550	4	8	9	101	0.01	< 10	< 10	55	< 10	28
R567827	244	229	0.01	4	510	12	4	7	57	0.02	< 10	< 10	38	< 10	26
R567828	244	229	0.01	4	350	16	12	7	65	0.01	< 10	< 10	39	< 10	116
R567829	244	229	0.03	6	470	6	2	8	74	0.04	< 10	< 10	57	< 10	14
R567830	244	229	0.01	8	610	6	6	9	69	0.03	< 10	< 10	66	< 10	20
R567831	244	229	0.01	6	420	8	6	8	54	0.01	< 10	< 10	48	< 10	16
R567832	244	229	< 0.01	8	530	8	4	7	23	< 0.01	< 10	< 10	18	< 10	18
R567833	244	229	< 0.01	6	520	6	4	6	27	< 0.01	< 10	< 10	20	< 10	10
R567834	244	229	0.02	6	450	8	4	8	117	0.04	< 10	< 10	57	< 10	16
R567835	244	229	0.03	7	490	22	2	7	338	0.04	< 10	< 10	49	< 10	14
R567836	244	229	0.03	10	570	6	< 2	6	225	0.04	< 10	< 10	45	< 10	16
R567837	244	229	0.03	6	490	12	4	7	180	0.06	< 10	< 10	49	< 10	16
R567838	244	229	< 0.01	6	440	392	14	7	20	< 0.01	< 10	< 10	25	< 10	230
R567839	244	229	0.01	4	340	8	8	6	43	0.01	< 10	< 10	32	< 10	14
R567840	244	229	0.02	4	420	8	6	9	77	0.02	< 10	< 10	55	< 10	18
R567841	244	229	0.01	5	450	6	4	5	77	< 0.01	< 10	< 10	31	< 10	14
R567842	244	229	0.01	4	320	4	2	4	45	< 0.01	< 10	< 10	20	< 10	14
R567843	244	229	< 0.01	6	380	1125	40	2	18	< 0.01	< 10	< 10	9	10	2050
R567844	244	229	< 0.01	4	370	6	4	3	20	< 0.01	< 10	< 10	14	< 10	18
R567845	244	229	0.01	2	370	6	4	4	43	< 0.01	< 10	< 10	21	< 10	12
R567846	244	229	0.02	4	480	8	< 2	4	63	< 0.01	< 10	10	28	< 10	10
R567847	244	229	0.02	4	290	10	2	4	94	0.01	< 10	< 10	30	< 10	12
R567848	244	229	0.02	6	370	4	2	5	73	< 0.01	< 10	< 10	28	< 10	12
R567849	244	229	0.03	5	390	< 2	4	3	271	< 0.01	< 10	< 10	20	< 10	12
R567850	244	229	0.01	5	420	16	2	3	50	< 0.01	< 10	< 10	13	< 10	12
R567851	244	229	0.01	4	300	4	2	2	50	< 0.01	< 10	< 10	15	< 10	10
R567852	244	229	0.01	3	390	12	4	2	63	< 0.01	< 10	< 10	13	< 10	10
R567853	244	229	0.01	6	1060	12	2	3	69	0.01	< 10	< 10	24	< 10	108

CERTIFICATION: Ian Bichler

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567854	244	229	0.2	1.43	8	330	0.5	< 2	1.85	< 0.5	6	144	670	1.15	< 10	< 1	0.63	10	1.32	220	331
H567855	244	229	0.4	1.42	6	130	< 0.5	< 2	0.96	< 0.5	8	93	732	1.16	< 10	< 1	0.72	20	1.14	80	255
H567856	244	229	0.4	0.99	4	60	< 0.5	< 2	1.01	< 0.5	5	114	1065	0.81	< 10	< 1	0.44	10	0.77	75	439
H567857	244	229	0.6	0.72	14	40	< 0.5	6	0.84	< 0.5	10	96	970	1.99	< 10	< 1	0.33	10	0.60	85	183
H567858	244	229	0.4	0.49	4	20	< 0.5	< 2	1.13	< 0.5	6	143	895	0.85	< 10	< 1	0.18	< 10	0.56	105	407
H567859	244	229	1.2	0.35	16	10	< 0.5	< 2	1.08	< 0.5	8	95	2390	1.14	< 10	< 1	0.12	10	0.39	100	513
H567860	244	229	1.2	1.01	4	180	< 0.5	< 2	0.96	< 0.5	9	92	2330	1.41	< 10	< 1	0.48	10	0.87	110	324

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567854	244	229	0.02	7	400	6	2	6	108	0.02	< 10	< 10	45	< 10	14
H567855	244	229	0.03	9	590	8	4	6	62	0.05	< 10	< 10	51	< 10	14
H567856	244	229	0.01	7	390	8	2	6	52	0.01	< 10	< 10	40	< 10	16
H567857	244	229	< 0.01	4	350	12	4	3	26	0.02	< 10	< 10	27	< 10	12
H567858	244	229	< 0.01	7	380	6	4	4	19	< 0.01	< 10	10	25	< 10	8
H567859	244	229	0.01	7	410	4	12	4	17	< 0.01	< 10	< 10	17	< 10	14
H567860	244	229	0.02	8	400	8	2	6	53	0.03	< 10	< 10	43	< 10	14

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

RCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-MAY-93
Invoice No. : I9313745
P.O. Number :
Account : FC

** Corrected copy for weights

CERTIFICATE OF ANALYSIS A9313745

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
572001H	208	274	0.14	0.025	0.14	5720
572002H	208	274	0.07	0.013	0.10	2540
572003H	208	276	0.06	0.025	0.17	8840
572004H	208	276	0.09	0.028	0.21	8280
572005H	208	274	0.05	0.019	0.17	5220
572006H	208	276	0.06	0.017	0.24	9200
572007H	208	276	0.04	0.029	0.14	7630
572008H	208	276	0.02	0.021	0.21	8840
572009H	208	276	0.03	0.026	0.21	9160
572010H	208	276	0.01	0.066	0.14	9560
572011H	208	276	0.02	0.041	0.07	8660
572012H	208	276	0.02	0.047	0.14	9970
572013H	208	276	0.02	0.077	0.17	10040
572014H	208	276	0.03	0.051	0.24	7830
572015H	208	276	0.06	0.026	0.14	8930
572016H	208	276	0.02	0.031	0.86	10370
572017H	208	276	0.06	0.017	0.10	10490
572018H	208	276	0.13	0.016	0.17	9810
572019H	208	276	0.28	0.059	0.27	9340
572020H	208	276	0.48	0.036	0.24	10440
572021H	208	274	0.45	0.036	0.31	6770
572022H	208	276	0.58	0.042	0.48	8620
572023H	208	276	0.53	0.041	0.31	10060
572024H	208	276	0.56	0.015	0.17	7720
572025H	208	276	0.29	0.027	0.34	7020
572026H	208	274	0.28	0.019	0.27	5400
572027H	208	276	0.25	0.032	0.31	9320
572028H	208	274	0.25	0.036	0.24	6140
572029H	208	276	0.23	0.028	0.31	10670
572030H	208	276	0.23	0.022	0.24	9290
572031H	208	274	0.20	0.014	0.24	4970
572032H	208	276	0.20	0.020	0.27	9540
572033H	208	270	0.14	0.017	0.17	16070
572034H	208	276	0.23	0.027	0.27	9410
572035H	208	274	0.25	0.013	0.17	5740
572036H	208	276	0.20	0.032	0.31	7400
572037H	208	276	0.24	0.018	0.31	9430
572038H	208	276	0.18	0.020	0.27	11230
572039H	208	273	0.11	0.016	0.14	12170
572040H	208	276	0.16	0.023	0.21	11250

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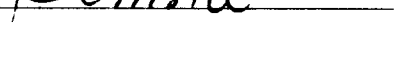
Certificate Date: 07-MAY-93
Invoice No. : I9313745
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313745

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
572041H	208	273	0.16	0.012	0.21	11720						
572042H	208	273	0.17	0.022	0.17	11700						
572043H	208	274	0.28	0.019	0.31	2720						
572044H	208	276	0.23	0.018	0.24	10710						
572045H	208	270	0.26	0.030	0.27	16850						
572046H	208	273	0.27	0.017	0.31	13340						
572047H	208	274	0.37	0.034	0.48	6320						
572048H	208	276	0.24	0.028	0.24	9700						
572049H	208	273	0.42	0.026	0.51	11700						
572050H	208	276	0.19	0.028	0.17	11050						
572051H	208	276	0.16	0.038	0.14	10440						
572052H	208	276	0.20	0.024	0.21	10580						
572053H	208	276	0.24	0.018	0.27	10530						
572054H	208	276	0.14	0.012	0.21	6950						
572055H	208	274	0.27	0.025	0.31	6260						
572056H	208	276	0.29	0.047	0.48	7400						
572057H	208	276	0.42	0.074	0.51	7990						
572058H	208	274	0.36	0.040	0.45	9180						
572059H	208	276	0.23	0.040	0.24	8600						
572060H	208	274	0.47	0.015	0.27	6820						
572061H	208	276	0.15	0.012	0.24	8190						
572062H	208	276	0.21	0.022	0.24	9290						
572063H	208	274	0.17	0.027	0.27	5810						
572064H	208	276	0.31	0.029	0.58	10530						
572065H	208	274	0.43	0.038	0.58	6460						
572066H	208	276	0.20	0.026	0.24	7070						
572067H	208	274	0.13	0.048	0.10	4880						
572068H	208	276	0.12	0.020	0.14	8440						
572069H	208	276	0.20	0.033	0.27	8530						
572070H	208	276	0.22	0.100	0.34	7920						
572071H	208	276	0.14	0.026	0.10	7130						
572072H	208	274	0.15	0.034	0.14	4970						
572073H	208	274	0.20	0.020	0.24	6480						
572074H	208	276	0.38	0.026	0.38	8640						
572075H	208	273	0.29	0.035	0.31	12800						
572076H	208	276	0.23	0.023	0.31	11230						
572077H	208	273	0.33	0.017	0.24	11660						
572078H	208	276	0.24	0.027	0.14	7990						
572079H	208	273	0.21	0.046	0.34	11410						
572080H	208	273	0.17	0.022	0.27	13010						

CERTIFICATION: 

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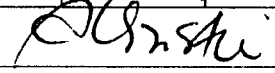
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-MAY-93
Invoice No. :I9313745
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313745

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
572081H	208	273	0.19	0.013	0.31	13250
572082H	208	273	0.39	0.026	0.27	13010
572083H	208	273	0.17	0.019	0.24	13300
572084H	208	273	0.19	0.030	0.17	13790
572085H	208	273	0.15	0.018	0.07	13190
572086H	208	273	0.20	0.020	0.17	12980
572087H	208	276	0.07	0.010	0.10	9990
572088H	208	276	0.15	0.032	0.17	10910
572089H	208	273	0.10	0.020	0.10	13190
572090H	208	273	0.14	0.014	0.17	12560
572091H	208	276	0.14	0.010	0.14	8010
572092H	208	276	0.17	0.035	0.07	11340
572093H	208	273	0.38	0.039	0.41	12690
572094H	208	273	0.20	0.020	0.31	13480
572095H	208	273	0.25	0.021	0.51	12080
572096H	208	273	0.28	0.025	0.51	14450
572097H	208	273	0.20	0.016	0.31	13460
572098H	208	276	0.40	0.032	0.62	8910
572099H	208	273	0.32	0.019	0.51	12670
572100H	208	273	0.28	0.019	0.45	12560
572101H	208	274	0.36	0.027	0.72	4700
572102H	208	273	0.29	0.028	0.45	12400
572103H	208	273	0.42	0.018	0.79	13190
572104H	208	276	0.13	0.016	0.31	10580
572105H	208	276	0.38	0.030	0.72	10550
572106H	208	273	0.26	0.035	0.34	11660
572107H	208	273	0.35	0.047	0.62	13280
572108H	208	273	0.22	0.039	0.34	12200
572109H	208	276	0.12	0.012	0.14	9650
572110H	208	273	0.15	0.014	0.27	11630
572111H	208	273	0.18	0.013	0.24	15140
572112H	208	273	0.20	0.021	0.34	12620
572113H	208	273	0.14	0.014	0.21	12380
572114H	208	274	0.25	0.058	0.65	6660
572115H	208	274	0.29	0.044	0.55	6750
572116H	208	273	0.36	0.030	0.51	14000
572117H	208	273	0.39	0.053	0.65	11880
572118H	208	273	0.30	0.053	0.31	12490
572119H	208	273	0.18	0.043	0.24	13550
572120H	208	276	0.21	0.053	0.34	9900

CERTIFICATION: 

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CERTIFICATE OF ANALYSIS A9313745

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
572121H	208	273	0.22	0.033	0.31	13390						
572122H	208	273	0.25	0.038	0.34	12310						
572123H	208	270	0.23	0.034	0.31	16490						
572124H	208	273	0.12	0.059	0.10	12980						
572125H	208	274	0.06	0.046	0.07	4430						
572126H	208	273	0.08	0.031	0.10	12650						
572127H	208	273	0.15	0.061	0.10	13230						
572128H	208	273	0.23	0.073	0.17	13880						
572129H	208	276	0.07	0.038	0.07	8980						
572130H	208	273	0.22	0.035	0.24	12830						
572131H	208	273	0.34	0.179	0.27	12830						
572132H	208	273	0.28	0.069	0.27	13230						
572133H	208	273	0.18	0.058	0.10	12830						
572134H	208	273	0.11	0.028	0.07	13320						
572135H	208	273	0.14	0.037	0.10	12380						
572136H	208	273	0.12	0.019	0.10	11610						
572137H	208	270	0.11	0.029	0.07	16740						
572138H	208	274	0.10	0.034	0.03	3690						
572139H	208	276	0.04	0.040	< 0.03	10580						
572140H	208	273	0.07	0.017	0.03	12220						
572141H	208	276	0.11	0.026	0.10	7790						
572142H	208	276	0.21	0.049	0.21	10940						
572143H	208	273	0.08	0.026	0.10	11660						
572144H	208	273	0.08	0.020	0.07	11590						
572145H	208	276	0.11	0.028	0.07	7700						
572146H	208	273	0.08	0.017	0.07	15890						
572147H	208	273	0.14	0.023	0.14	11840						
572148H	208	273	0.13	0.017	0.14	12290						
572149H	208	276	0.15	0.016	0.10	11210						
572150H	208	273	0.11	0.026	0.07	12800						
572151H	208	274	0.12	0.025	0.03	5960						
572152H	208	276	0.05	0.010	< 0.03	7180						
572153H	208	276	0.06	0.011	0.03	6980						
572154H	208	274	0.05	0.009	0.07	6730						
572155H	208	274	0.10	0.018	0.07	5420						
572156H	208	274	0.11	0.028	0.03	6320						
572157H	208	276	0.09	0.010	0.03	7270						
572158H	208	276	0.16	0.027	0.03	7040						
572159H	208	276	0.13	0.017	0.10	7000						
572160H	208	274	0.13	0.016	0.07	6730						

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Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 07-MAY-93
Invoice No. : 19313745
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313745

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
572161H	208	276	0.12	0.020	0.07	11070						
572162H	208	276	0.09	0.018	0.03	10170						
572163H	208	276	0.12	0.019	0.07	8190						
572164H	208	276	0.12	0.012	0.10	7700						
572165H	208	276	0.16	0.015	0.10	7650						
572166H	208	276	0.05	0.010	0.03	9770						
572167H	208	276	0.07	0.028	0.07	9470						
572168H	208	276	0.05	0.008	0.03	7790						
572169H	208	276	0.07	0.006	0.03	9630						
572170H	208	276	0.06	0.009	0.07	7920						
572171H	208	276	0.05	0.012	< 0.03	10040						
572172H	208	276	0.05	0.013	0.03	10170						
572173H	208	276	0.05	0.009	< 0.03	8240						
572174H	208	276	0.05	0.011	< 0.03	7720						
572175H	208	276	0.05	0.010	0.03	7760						
572176H	208	276	0.05	0.048	< 0.03	8300						
572177H	208	276	0.05	0.010	< 0.03	7610						
572178H	208	276	0.04	0.008	< 0.03	7430						
572179H	208	276	0.04	0.012	< 0.03	7990						
572180H	208	276	0.02	0.008	< 0.03	7540						
572181H	208	276	0.04	0.004	< 0.03	7110						
572182H	208	276	0.07	0.006	< 0.03	7760						
572183H	208	276	0.05	0.005	< 0.03	9740						
572184H	208	276	0.05	0.005	< 0.03	7430						
572185H	208	276	0.03	0.008	0.03	9160						
572186H	208	276	0.03	0.014	< 0.03	7740						
572187H	208	276	0.06	0.006	0.03	7990						
572188H	208	276	0.05	0.008	< 0.03	7720						
572189H	208	276	0.10	0.021	0.07	8120						
572190H	208	276	0.13	0.024	0.10	7430						
572191H	208	276	0.04	0.005	< 0.03	8190						
572192H	208	276	0.05	0.008	< 0.03	8280						
572193H	208	276	0.06	0.010	< 0.03	8550						
572194H	208	276	0.07	0.006	0.03	8960						
572195H	208	276	0.04	0.021	< 0.03	8870						
572196H	208	276	0.07	0.012	0.03	8100						
572197H	208	276	0.07	0.013	0.03	8710						
572198H	208	276	0.16	0.013	0.10	8420						
572199H	208	276	0.04	0.026	0.03	8840						
572200H	208	276	0.10	0.013	0.07	8570						

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Total Pages :6
Certificate Date: 07-MAY-93
Invoice No. : I9313745
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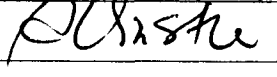
Account : FC

CERTIFICATE OF ANALYSIS A9313745

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
572201H	208	276	0.06	0.030	0.03	8660
572202H	208	276	0.12	0.009	0.07	7920
572203H	208	276	0.06	0.010	< 0.03	6890
572204H	208	276	0.05	0.009	< 0.03	8350
572205H	208	276	0.05	0.009	< 0.03	8300
572206H	208	276	0.02	0.016	< 0.03	8370
572207H	208	274	0.06	0.010	< 0.03	4250

CERTIFICATION: 

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Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total P. : 6
Certificate Date: 11-MAY-93
Invoice No. : I9313811
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
572001H	299	229	0.5	1.46	< 2	80	< 0.5	< 2	0.09	< 0.5	3	57	1295	11.55	< 10	< 1	0.33	< 10	0.53	85	134
572002H	299	229	0.2	1.66	< 2	190	< 0.5	< 2	0.07	< 0.5	2	50	615	5.46	< 10	< 1	0.23	< 10	0.41	55	66
572003H	299	229	0.6	1.59	< 2	190	< 0.5	< 2	0.04	< 0.5	3	55	548	5.87	< 10	< 1	0.35	< 10	0.57	60	127
572004H	299	229	0.9	2.26	< 2	230	< 0.5	< 2	0.04	< 0.5	6	71	828	8.38	< 10	< 1	0.48	< 10	0.93	95	140
572005H	299	229	0.3	2.39	< 2	180	< 0.5	< 2	0.03	< 0.5	4	52	492	6.13	< 10	< 1	0.45	< 10	1.02	105	97
572006H	299	229	1.5	2.10	< 2	120	< 0.5	< 2	0.02	< 0.5	3	50	498	6.74	< 10	< 1	0.43	< 10	0.75	75	88
572007H	299	229	1.8	1.31	< 2	110	< 0.5	< 2	0.01	< 0.5	2	61	402	6.79	< 10	< 1	0.42	< 10	0.36	45	162
572008H	299	229	2.7	0.71	6	140	< 0.5	6	0.01	< 0.5	1	93	156	3.91	< 10	< 1	0.40	< 10	0.07	20	116
572009H	299	229	1.1	0.91	4	220	< 0.5	< 2	0.01	< 0.5	1	81	276	4.97	< 10	< 1	0.31	< 10	0.12	30	153
572010H	299	229	2.4	0.81	12	180	< 0.5	6	0.01	< 0.5	1	61	137	2.68	< 10	< 1	0.42	10	0.09	15	420
572011H	299	229	1.3	0.42	2	80	< 0.5	< 2	< 0.01	< 0.5	< 1	34	213	3.04	< 10	< 1	0.22	10	0.08	10	234
572012H	299	229	2.0	0.70	6	150	< 0.5	< 2	< 0.01	< 0.5	< 1	96	234	3.65	< 10	< 1	0.48	10	0.10	20	265
572013H	299	229	2.2	0.57	12	120	< 0.5	< 2	< 0.01	< 0.5	< 1	88	272	4.14	< 10	< 1	0.40	10	0.08	20	433
572014H	299	229	2.9	0.77	8	100	< 0.5	< 2	< 0.01	< 0.5	< 1	84	304	2.91	< 10	< 1	0.29	< 10	0.10	15	282
572015H	299	229	1.7	0.53	6	140	< 0.5	< 2	< 0.01	< 0.5	1	98	599	3.64	< 10	< 1	0.44	< 10	0.04	20	150
572016H	299	229	1.6	0.54	2	60	< 0.5	< 2	0.01	< 0.5	6	86	222	3.21	< 10	< 1	0.38	< 10	0.05	20	174
572017H	299	229	1.2	1.25	< 2	90	< 0.5	< 2	0.01	< 0.5	7	43	678	3.86	< 10	< 1	0.42	10	0.32	35	98
572018H	299	229	1.4	1.62	< 2	100	< 0.5	< 2	0.01	< 0.5	9	50	1380	2.60	< 10	< 1	0.38	20	0.50	50	92
572019H	299	229	2.6	1.09	< 2	40	< 0.5	< 2	< 0.01	< 0.5	25	25	2990	2.68	< 10	< 1	0.24	10	0.26	30	333
572020H	299	229	2.5	1.41	< 2	40	< 0.5	< 2	0.03	< 0.5	24	34	5060	3.50	< 10	< 1	0.27	10	0.73	90	183
572021H	299	229	2.0	2.65	< 2	90	< 0.5	< 2	0.01	< 0.5	21	82	4610	5.22	< 10	1	0.84	10	1.37	140	186
572022H	299	229	2.7	2.04	< 2	60	< 0.5	< 2	0.01	< 0.5	25	72	6760	5.74	< 10	< 1	0.41	10	0.93	110	235
572023H	299	229	1.3	4.48	< 2	130	< 0.5	< 2	0.01	< 0.5	18	173	5500	5.94	< 10	1	1.72	10	2.48	235	206
572024H	299	229	0.7	4.12	< 2	90	< 0.5	< 2	0.06	1.0	17	111	5710	6.83	< 10	2	1.67	10	2.12	210	80
572025H	299	229	2.0	3.41	< 2	110	< 0.5	< 2	0.12	2.0	21	121	2780	5.82	< 10	1	1.69	20	2.27	225	132
572026H	299	229	2.4	2.49	< 2	70	< 0.5	< 2	0.11	2.0	23	77	2890	4.91	< 10	< 1	1.03	10	1.55	165	108
572027H	299	229	2.7	1.15	< 2	40	< 0.5	< 2	0.08	2.5	20	42	2580	3.05	< 10	< 1	0.32	20	0.70	105	180
572028H	299	229	2.3	2.72	< 2	100	< 0.5	< 2	0.12	2.0	24	146	2570	5.28	< 10	1	1.37	20	1.91	280	181
572029H	299	229	2.0	1.59	< 2	70	< 0.5	< 2	0.11	1.0	18	104	2210	4.79	< 10	< 1	0.99	10	1.34	340	138
572030H	299	229	1.9	0.62	< 2	30	< 0.5	< 2	0.12	1.0	23	36	2280	4.66	< 10	< 1	0.33	10	0.52	315	105
572031H	299	229	1.9	0.51	< 2	20	< 0.5	< 2	0.13	0.5	22	41	2090	4.80	< 10	< 1	0.26	10	0.30	345	78
572032H	299	229	1.7	1.41	< 2	40	< 0.5	< 2	0.15	0.5	23	92	1900	4.76	< 10	< 1	0.85	10	1.01	390	96
572033H	299	229	1.2	2.18	< 2	60	< 0.5	< 2	0.16	0.5	26	129	1460	6.11	< 10	< 1	1.41	10	1.69	545	87
572034H	299	229	2.1	2.09	< 2	70	< 0.5	< 2	0.15	0.5	22	94	2370	5.29	< 10	< 1	1.19	10	1.41	365	134
572035H	299	229	2.6	1.22	< 2	50	< 0.5	< 2	0.15	0.5	19	72	2520	3.47	< 10	< 1	0.48	10	0.45	230	66
572036H	299	229	1.9	0.93	< 2	60	< 0.5	< 2	0.20	< 0.5	20	81	2040	3.44	< 10	< 1	0.52	10	0.61	380	175
572037H	299	229	2.0	1.42	< 2	70	< 0.5	< 2	0.18	1.0	24	87	2460	4.32	< 10	< 1	0.70	10	0.96	420	100
572038H	299	229	1.8	1.20	< 2	40	< 0.5	< 2	0.46	< 0.5	22	77	1765	4.44	< 10	< 1	0.52	10	0.83	325	103
572039H	299	229	0.7	2.68	< 2	90	< 0.5	< 2	0.31	< 0.5	17	146	1125	7.27	< 10	< 1	1.35	10	2.06	380	82
572040H	299	229	1.5	2.43	< 2	90	< 0.5	< 2	0.38	< 0.5	23	179	1620	6.95	< 10	1	1.17	10	1.78	435	114

CERTIFICATION: Ian R Bachlet

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Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-MAY-93
Invoice No. :I9313811
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
572001H	299	229	0.01	6	330	6	< 2	4	13	0.01	< 10	< 10	38	< 10	42
572002H	299	229	0.01	3	400	12	< 2	2	15	< 0.01	< 10	< 10	17	< 10	28
572003H	299	229	0.02	6	400	6	< 2	4	13	0.01	< 10	< 10	38	< 10	28
572004H	299	229	0.02	8	620	6	< 2	8	17	0.07	< 10	< 10	56	< 10	42
572005H	299	229	0.03	6	420	8	< 2	8	17	0.07	< 10	< 10	62	< 10	34
572006H	299	229	0.02	6	470	2	< 2	7	10	0.06	< 10	< 10	52	< 10	34
572007H	299	229	0.02	5	710	8	< 2	4	9	0.01	< 10	< 10	37	< 10	30
572008H	299	229	0.03	2	130	6	< 2	1	9	< 0.01	< 10	< 10	6	< 10	30
572009H	299	229	0.01	2	130	2	< 2	2	8	< 0.01	< 10	< 10	15	< 10	26
572010H	299	229	0.01	1	110	8	< 2	2	10	< 0.01	< 10	< 10	7	< 10	12
572011H	299	229	< 0.01	< 1	110	2	< 2	< 1	4	< 0.01	< 10	< 10	8	< 10	8
572012H	299	229	0.01	2	140	< 2	< 2	1	9	< 0.01	< 10	< 10	9	< 10	14
572013H	299	229	0.01	2	330	< 2	< 2	1	11	< 0.01	< 10	< 10	10	< 10	10
572014H	299	229	0.01	2	240	2	< 2	1	6	< 0.01	< 10	< 10	7	< 10	8
572015H	299	229	0.02	2	270	< 2	< 2	1	13	< 0.01	< 10	< 10	8	< 10	18
572016H	299	229	0.01	4	150	2	< 2	< 1	4	< 0.01	< 10	< 10	3	< 10	16
572017H	299	229	0.03	9	470	< 2	< 2	3	14	0.01	< 10	< 10	24	< 10	24
572018H	299	229	0.03	9	370	2	< 2	3	16	0.03	< 10	< 10	28	< 10	16
572019H	299	229	0.02	8	270	< 2	< 2	2	9	< 0.01	< 10	< 10	15	< 10	18
572020H	299	229	0.01	12	170	4	< 2	2	9	< 0.01	< 10	< 10	23	< 10	38
572021H	299	229	0.02	18	190	4	< 2	11	15	0.11	< 10	< 10	81	< 10	40
572022H	299	229	0.02	14	170	2	< 2	4	18	0.03	< 10	< 10	55	< 10	48
572023H	299	229	0.03	27	180	4	< 2	19	24	0.18	< 10	< 10	125	10	58
572024H	299	229	0.03	23	310	2	< 2	21	11	0.24	< 10	< 10	141	10	58
572025H	299	229	0.03	20	390	8	< 2	20	7	0.22	< 10	< 10	152	10	58
572026H	299	229	0.03	16	340	6	< 2	10	8	0.12	< 10	< 10	85	< 10	46
572027H	299	229	0.01	10	230	2	< 2	3	6	0.03	< 10	< 10	35	< 10	36
572028H	299	229	0.03	18	330	6	< 2	14	7	0.15	< 10	< 10	89	< 10	68
572029H	299	229	0.02	13	230	2	< 2	11	6	0.13	< 10	< 10	69	< 10	68
572030H	299	229	0.01	11	290	2	< 2	3	5	0.02	< 10	< 10	28	20	68
572031H	299	229	0.01	11	300	2	< 2	2	5	< 0.01	< 10	< 10	12	< 10	72
572032H	299	229	0.01	13	250	6	< 2	10	7	0.07	< 10	< 10	66	< 10	68
572033H	299	229	0.02	17	230	2	< 2	17	7	0.16	< 10	< 10	115	< 10	88
572034H	299	229	0.02	17	330	4	< 2	13	8	0.14	< 10	< 10	92	10	72
572035H	299	229	0.01	13	340	6	< 2	3	8	0.01	< 10	< 10	25	< 10	50
572036H	299	229	0.02	9	350	2	< 2	4	9	0.04	< 10	< 10	31	< 10	76
572037H	299	229	0.03	11	380	< 2	< 2	7	9	0.08	< 10	< 10	56	< 10	78
572038H	299	229	0.02	11	320	4	< 2	4	12	0.03	< 10	< 10	38	< 10	52
572039H	299	229	0.04	19	390	4	< 2	15	9	0.15	< 10	< 10	95	10	60
572040H	299	229	0.03	19	370	4	< 2	12	10	0.10	< 10	< 10	79	< 10	58

CERTIFICATION: Stuart Bichler

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Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-MAY-93
Invoice No. : I9313811
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
572041H	299	229	1.2	0.97	< 2	80	< 0.5	< 2	0.28	1.0	25	60	1660	3.88	< 10	< 1	0.47	10	0.88	340	70
572042H	299	229	1.2	1.19	10	70	< 0.5	< 2	0.15	0.5	25	74	1720	3.75	< 10	1	0.46	10	0.80	265	121
572043H	299	229	2.3	0.94	< 2	60	< 0.5	< 2	0.19	1.0	31	72	2830	4.21	< 10	< 1	0.30	10	0.77	265	119
572044H	299	229	1.7	0.98	2	40	< 0.5	< 2	0.16	1.0	42	45	2360	3.97	< 10	< 1	0.36	10	0.87	310	109
572045H	299	229	2.0	0.73	14	60	< 0.5	< 2	0.16	0.5	36	51	2900	3.61	< 10	< 1	0.26	20	0.53	235	180
572046H	299	229	1.9	0.70	128	70	< 0.5	< 2	0.18	1.0	33	34	2740	3.92	< 10	< 1	0.34	20	0.57	475	103
572047H	299	229	2.8	0.47	370	60	< 0.5	10	0.20	1.0	45	45	3750	5.74	< 10	< 1	0.25	10	0.27	985	199
572048H	299	229	1.6	0.58	32	60	< 0.5	< 2	0.17	1.0	38	64	2430	3.56	< 10	1	0.29	20	0.44	530	166
572049H	299	229	3.0	0.69	12	50	< 0.5	< 2	0.13	1.0	37	64	4090	3.57	< 10	1	0.39	10	0.65	320	149
572050H	299	229	1.2	0.89	56	50	< 0.5	< 2	0.13	1.0	28	37	1940	2.87	< 10	< 1	0.44	10	0.65	380	154
572051H	299	229	0.7	1.61	8	80	< 0.5	< 2	0.15	< 0.5	30	58	1615	3.59	< 10	< 1	0.70	10	1.13	120	197
572052H	299	229	1.3	1.04	2	40	< 0.5	< 2	0.07	0.5	39	37	2010	3.49	< 10	< 1	0.27	< 10	0.76	135	132
572053H	299	229	1.4	1.37	12	60	< 0.5	< 2	0.10	0.5	27	63	2280	3.47	< 10	< 1	0.60	10	1.08	160	101
572054H	299	229	0.5	1.76	6	80	< 0.5	< 2	0.13	< 0.5	18	50	1455	3.79	< 10	< 1	0.84	10	1.45	150	60
572055H	299	229	1.8	1.69	< 2	80	< 0.5	< 2	0.09	1.0	20	71	2510	3.49	< 10	< 1	0.85	< 10	1.36	125	121
572056H	299	229	1.8	1.40	< 2	60	< 0.5	< 2	0.09	< 0.5	15	103	3010	3.43	< 10	< 1	0.63	< 10	1.07	100	268
572057H	299	229	2.4	1.32	< 2	50	< 0.5	< 2	0.09	0.5	22	86	4090	3.20	< 10	< 1	0.54	10	1.06	95	387
572058H	299	229	2.0	1.24	< 2	50	< 0.5	< 2	0.10	0.5	24	76	3310	2.62	< 10	< 1	0.48	10	0.92	85	210
572059H	299	229	1.6	1.53	< 2	60	< 0.5	< 2	0.11	0.5	20	78	2410	2.77	< 10	< 1	0.75	10	1.23	110	227
572060H	299	229	3.3	1.43	< 2	80	< 0.5	< 2	0.05	1.0	23	136	4740	3.66	< 10	< 1	0.58	< 10	1.17	105	81
572061H	299	229	0.9	1.34	< 2	70	< 0.5	< 2	0.06	0.5	22	82	1515	3.62	< 10	< 1	0.56	10	1.06	100	69
572062H	299	229	1.5	1.44	4	80	< 0.5	< 2	0.09	< 0.5	19	85	2240	4.71	< 10	< 1	0.71	10	1.20	110	123
572063H	299	229	1.0	1.45	2	80	< 0.5	< 2	0.11	< 0.5	10	74	1705	1.74	< 10	< 1	0.59	10	1.11	85	152
572064H	299	229	2.1	1.54	2	70	< 0.5	< 2	0.14	0.5	14	82	3310	2.14	< 10	< 1	0.59	10	1.14	90	166
572065H	299	229	3.2	1.52	< 2	80	< 0.5	< 2	0.12	1.0	13	75	3950	2.41	< 10	< 1	0.62	10	1.16	100	200
572066H	299	229	1.0	1.62	6	90	< 0.5	< 2	0.14	< 0.5	8	80	1880	1.80	< 10	< 1	0.64	10	1.21	95	141
572067H	299	229	0.7	1.42	18	90	< 0.5	< 2	0.18	1.5	19	78	1465	2.33	< 10	< 1	0.54	30	0.93	325	304
572068H	299	229	0.7	1.47	< 2	100	< 0.5	< 2	0.14	1.0	13	78	1310	1.75	< 10	< 1	0.60	20	0.83	135	111
572069H	299	229	1.2	1.80	< 2	110	< 0.5	< 2	0.13	1.0	12	82	1970	2.24	< 10	1	0.87	10	1.31	110	181
572070H	299	229	1.4	1.56	4	90	< 0.5	< 2	0.15	< 0.5	14	98	2140	2.62	< 10	< 1	0.73	10	1.20	105	566
572071H	299	229	0.6	1.69	6	110	< 0.5	< 2	0.15	< 0.5	9	72	1395	1.87	< 10	< 1	0.70	10	1.31	100	148
572072H	299	229	0.6	1.25	4	70	< 0.5	< 2	0.13	< 0.5	12	55	1475	1.71	< 10	1	0.44	< 10	0.92	80	179
572073H	299	229	1.1	1.36	2	110	< 0.5	< 2	0.18	< 0.5	9	93	2190	2.01	< 10	< 1	0.46	< 10	0.97	100	114
572074H	299	229	2.2	1.48	< 2	90	< 0.5	< 2	0.38	0.5	14	89	3650	2.51	< 10	< 1	0.66	10	1.20	125	134
572075H	299	229	2.3	1.13	4	80	< 0.5	< 2	3.06	< 0.5	10	94	2960	2.05	< 10	< 1	0.50	20	0.97	100	173
572076H	299	229	1.7	1.35	< 2	100	< 0.5	< 2	1.85	0.5	10	90	2090	2.07	< 10	< 1	0.73	10	1.16	115	112
572077H	299	229	2.4	1.05	2	60	< 0.5	< 2	2.32	< 0.5	14	109	3190	3.21	< 10	< 1	0.42	10	0.97	135	89
572078H	299	229	1.8	1.34	6	80	< 0.5	< 2	1.63	< 0.5	9	127	2290	2.24	< 10	< 1	0.70	10	1.20	130	157
572079H	299	229	1.6	0.90	2	70	< 0.5	< 2	1.44	< 0.5	7	114	2030	1.87	< 10	< 1	0.36	10	0.77	105	240
572080H	299	229	1.2	1.20	< 2	90	< 0.5	< 2	1.88	< 0.5	5	92	1665	1.99	< 10	1	0.55	10	1.05	125	117

CERTIFICATION: Stewart Bradley

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Page Number :2-B
Total Pages :6
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CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
572041H	299	229	0.02	12	410	< 2	< 2	4	11	0.04	< 10	< 10	39	< 10	46
572042H	299	229	0.02	13	370	< 2	< 2	4	9	0.04	< 10	< 10	35	< 10	58
572043H	299	229	0.02	12	410	20	< 2	3	11	0.02	< 10	< 10	46	< 10	50
572044H	299	229	0.01	14	370	< 2	< 2	4	7	0.03	< 10	< 10	42	< 10	56
572045H	299	229	0.02	10	400	< 2	< 2	3	9	0.01	< 10	< 10	26	< 10	44
572046H	299	229	0.02	12	450	< 2	2	4	8	0.02	< 10	< 10	28	< 10	62
572047H	299	229	0.01	10	300	4	12	3	9	< 0.01	< 10	< 10	22	20	108
572048H	299	229	0.02	11	390	4	2	3	10	< 0.01	< 10	< 10	21	< 10	64
572049H	299	229	0.02	13	340	< 2	2	4	9	0.02	< 10	< 10	44	< 10	50
572050H	299	229	0.01	12	390	< 2	2	4	18	0.04	< 10	< 10	37	< 10	60
572051H	299	229	0.03	14	650	2	< 2	6	28	0.09	< 10	< 10	53	< 10	24
572052H	299	229	0.01	11	260	6	4	2	10	0.01	< 10	< 10	30	< 10	30
572053H	299	229	0.03	12	390	< 2	< 2	8	8	0.07	< 10	< 10	71	< 10	34
572054H	299	229	0.03	12	490	< 2	2	11	8	0.12	< 10	< 10	84	< 10	30
572055H	299	229	0.03	11	360	12	< 2	9	7	0.12	< 10	< 10	83	< 10	24
572056H	299	229	0.03	11	380	< 2	2	6	7	0.07	< 10	< 10	60	< 10	24
572057H	299	229	0.02	13	350	2	< 2	6	6	0.06	< 10	< 10	57	< 10	26
572058H	299	229	0.02	9	410	< 2	2	5	7	0.05	< 10	< 10	54	< 10	22
572059H	299	229	0.03	9	420	< 2	< 2	8	7	0.08	< 10	< 10	60	20	24
572060H	299	229	0.03	12	160	4	< 2	8	6	0.07	< 10	< 10	67	< 10	26
572061H	299	229	0.03	11	200	< 2	< 2	8	7	0.07	< 10	< 10	93	< 10	20
572062H	299	229	0.03	13	360	< 2	4	8	8	0.09	< 10	< 10	94	< 10	22
572063H	299	229	0.04	7	520	< 2	4	6	15	0.06	< 10	< 10	52	< 10	20
572064H	299	229	0.03	10	660	< 2	2	7	29	0.06	< 10	< 10	53	< 10	24
572065H	299	229	0.03	13	470	< 2	< 2	7	20	0.07	< 10	< 10	53	< 10	28
572066H	299	229	0.04	9	560	2	< 2	8	30	0.07	< 10	< 10	53	< 10	26
572067H	299	229	0.04	9	580	2	4	5	17	0.04	< 10	10	42	< 10	82
572068H	299	229	0.04	9	400	4	< 2	6	14	0.07	< 10	10	47	< 10	40
572069H	299	229	0.03	11	400	6	< 2	8	12	0.11	< 10	< 10	59	< 10	32
572070H	299	229	0.04	11	500	4	4	6	10	0.09	< 10	< 10	62	< 10	26
572071H	299	229	0.04	8	450	4	4	7	11	0.07	< 10	< 10	56	< 10	32
572072H	299	229	0.04	4	370	12	2	4	12	0.01	< 10	< 10	46	< 10	24
572073H	299	229	0.05	9	510	16	2	6	20	0.03	< 10	< 10	50	< 10	30
572074H	299	229	0.04	9	390	26	< 2	9	22	0.08	< 10	< 10	68	< 10	32
572075H	299	229	0.03	6	340	8	< 2	7	149	0.05	< 10	< 10	47	< 10	18
572076H	299	229	0.04	5	320	4	< 2	9	80	0.09	< 10	< 10	57	< 10	18
572077H	299	229	0.02	10	370	2	4	5	103	0.04	< 10	< 10	49	< 10	22
572078H	299	229	0.03	6	250	4	4	9	74	0.08	< 10	< 10	65	< 10	20
572079H	299	229	0.03	5	260	12	6	4	79	0.03	< 10	< 10	40	< 10	18
572080H	299	229	0.04	6	310	12	4	7	86	0.06	< 10	< 10	58	< 10	22

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-MAY-93
Invoice No. : I9313811
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
572081H	299	229	2.0	0.89	< 2	110	< 0.5	< 2	1.60	< 0.5	12	141	1960	2.24	< 10	1	0.43	10	0.96	135	80
572082H	299	229	3.2	0.63	2	110	0.5	< 2	1.65	< 0.5	13	127	3880	2.70	< 10	< 1	0.37	10	0.90	155	156
572083H	299	229	1.6	1.12	< 2	90	0.5	< 2	1.87	< 0.5	9	101	1755	2.78	< 10	< 1	0.40	10	1.20	195	127
572084H	299	229	1.5	1.13	8	110	0.5	< 2	1.99	< 0.5	5	122	1975	2.31	< 10	< 1	0.48	10	1.08	155	172
572085H	299	229	1.4	0.71	8	90	0.5	< 2	2.34	< 0.5	5	98	1530	2.10	< 10	< 1	0.24	20	0.84	170	98
572086H	299	229	1.8	0.35	16	100	0.5	< 2	2.32	< 0.5	10	161	2130	2.58	< 10	< 1	0.22	20	0.88	160	128
572087H	299	229	0.5	0.48	8	90	0.5	< 2	1.61	< 0.5	7	116	682	2.97	< 10	< 1	0.25	20	0.82	135	57
572088H	299	229	1.4	0.70	6	80	< 0.5	< 2	1.43	< 0.5	10	167	1455	2.00	< 10	< 1	0.41	10	0.79	115	183
572089H	299	229	0.9	0.46	4	90	< 0.5	< 2	1.59	< 0.5	8	119	1035	1.75	< 10	< 1	0.34	10	0.68	115	121
572090H	299	229	1.1	1.04	< 2	120	< 0.5	< 2	1.76	< 0.5	11	113	1460	2.44	< 10	< 1	0.65	10	1.14	140	75
572091H	299	229	1.0	1.16	< 2	120	0.5	< 2	1.28	< 0.5	10	95	1360	2.22	< 10	< 1	0.75	10	1.23	130	46
572092H	299	229	1.4	0.93	2	70	0.5	< 2	1.62	< 0.5	10	146	1725	2.28	< 10	< 1	0.59	10	1.07	140	194
572093H	299	229	3.3	0.86	2	100	0.5	< 2	1.67	< 0.5	13	94	3620	2.66	< 10	< 1	0.57	20	1.03	155	220
572094H	299	229	1.8	0.63	4	90	0.5	< 2	1.47	< 0.5	8	110	2030	2.65	< 10	< 1	0.40	30	0.89	160	106
572095H	299	229	2.5	0.71	4	70	0.5	< 2	1.29	< 0.5	14	108	2530	3.35	< 10	< 1	0.47	10	0.90	135	115
572096H	299	229	2.8	1.09	2	100	1.0	< 2	1.19	< 0.5	16	81	2950	4.22	< 10	< 1	0.81	10	1.27	160	141
572097H	299	229	1.8	0.93	6	90	< 0.5	< 2	0.82	< 0.5	13	80	1935	3.01	< 10	< 1	0.57	10	1.04	140	86
572098H	299	229	4.0	1.22	12	70	< 0.5	< 2	1.03	< 0.5	19	82	3900	3.51	< 10	< 1	0.82	< 10	1.33	155	167
572099H	299	229	4.0	0.82	< 2	90	< 0.5	< 2	1.12	0.5	15	93	3240	3.42	< 10	< 1	0.67	20	1.15	160	104
572100H	299	229	2.4	1.11	2	110	< 0.5	< 2	1.00	< 0.5	11	95	2630	3.02	< 10	< 1	0.90	10	1.30	170	101
572101H	299	229	4.0	1.02	< 2	140	< 0.5	< 2	1.20	0.5	11	84	3660	3.28	< 10	< 1	0.75	20	1.11	175	163
572102H	299	229	3.2	0.72	4	80	< 0.5	< 2	1.12	< 0.5	13	104	3010	2.59	< 10	< 1	0.54	20	0.93	145	175
572103H	299	229	4.0	0.77	< 2	80	< 0.5	< 2	1.17	0.5	11	96	4050	2.97	< 10	< 1	0.52	20	0.81	130	105
572104H	299	229	1.4	0.88	2	80	< 0.5	< 2	1.50	< 0.5	11	99	1370	2.90	< 10	1	0.43	10	0.86	140	91
572105H	299	229	3.0	0.84	4	70	< 0.5	< 2	0.93	< 0.5	11	101	3700	2.91	< 10	< 1	0.40	20	0.73	140	170
572106H	299	229	2.4	1.12	< 2	100	< 0.5	< 2	1.50	< 0.5	8	83	2670	2.97	< 10	< 1	0.60	20	1.05	160	189
572107H	299	229	3.0	0.94	< 2	100	< 0.5	< 2	1.23	< 0.5	9	115	3420	3.98	< 10	< 1	0.58	20	0.97	145	264
572108H	299	229	2.0	0.78	6	110	< 0.5	< 2	1.48	< 0.5	7	92	2130	4.59	< 10	< 1	0.51	10	0.93	160	217
572109H	299	229	0.9	0.98	< 2	140	< 0.5	< 2	1.50	< 0.5	7	96	1200	2.53	< 10	1	0.59	10	0.93	130	60
572110H	299	229	1.3	0.76	6	90	< 0.5	< 2	1.00	< 0.5	7	77	1480	2.79	< 10	< 1	0.44	20	0.79	135	70
572111H	299	229	1.5	0.37	2	60	< 0.5	< 2	1.50	< 0.5	11	65	1930	2.57	< 10	< 1	0.19	10	0.45	125	71
572112H	299	229	1.7	0.30	2	60	< 0.5	< 2	1.70	< 0.5	13	49	1985	2.39	< 10	< 1	0.18	10	0.75	145	116
572113H	299	229	1.4	1.07	2	80	< 0.5	< 2	1.38	< 0.5	17	36	1375	4.23	< 10	< 1	0.61	10	1.15	180	82
572114H	299	229	2.7	0.42	12	70	< 0.5	< 2	1.70	< 0.5	13	36	2470	2.67	< 10	< 1	0.24	10	0.88	165	332
572115H	299	229	2.8	0.58	< 2	60	< 0.5	< 2	1.11	0.5	15	73	2930	4.45	< 10	< 1	0.23	10	0.60	115	252
572116H	299	229	3.5	0.73	12	60	< 0.5	< 2	1.15	< 0.5	9	57	3640	2.58	< 10	< 1	0.28	10	0.65	100	175
572117H	299	229	4.2	1.08	4	60	< 0.5	< 2	1.28	< 0.5	18	51	4130	3.85	< 10	< 1	0.43	10	1.04	130	327
572118H	299	229	2.4	1.17	< 2	60	< 0.5	< 2	1.67	0.5	29	66	2940	3.32	< 10	< 1	0.53	20	1.11	125	300
572119H	299	229	1.6	1.31	4	120	< 0.5	< 2	1.63	< 0.5	8	59	1795	2.20	< 10	< 1	0.82	10	1.34	130	246
572120H	299	229	1.8	1.42	2	90	< 0.5	< 2	1.72	< 0.5	10	63	2000	3.18	< 10	< 1	0.74	10	1.43	150	305

CERTIFICATION: Ian Bachler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :6
Certificate Date: 11-MAY-93
Invoice No. :I9313811
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
572081H	299	229	0.03	7	360	4	2	6	124	0.03	< 10	< 10	41	< 10	24
572082H	299	229	0.03	7	430	4	2	7	107	0.02	< 10	< 10	39	< 10	28
572083H	299	229	0.03	10	410	< 2	4	5	100	0.02	< 10	< 10	41	10	28
572084H	299	229	0.03	8	350	4	2	6	111	0.05	< 10	< 10	47	< 10	24
572085H	299	229	0.04	5	360	2	2	3	95	< 0.01	< 10	< 10	25	< 10	24
572086H	299	229	0.03	7	460	4	4	2	70	< 0.01	< 10	< 10	24	< 10	22
572087H	299	229	0.04	8	600	< 2	2	2	80	< 0.01	< 10	< 10	23	< 10	20
572088H	299	229	0.02	6	310	4	2	5	79	0.04	< 10	< 10	41	< 10	16
572089H	299	229	0.02	6	300	6	2	4	110	0.02	< 10	< 10	35	< 10	18
572090H	299	229	0.05	9	420	4	2	7	113	0.08	< 10	< 10	58	< 10	20
572091H	299	229	0.04	9	440	< 2	< 2	8	78	0.10	< 10	< 10	54	< 10	20
572092H	299	229	0.03	8	330	2	2	6	72	0.06	< 10	< 10	54	< 10	20
572093H	299	229	0.02	9	450	2	2	7	73	0.06	< 10	< 10	49	< 10	22
572094H	299	229	0.03	8	460	6	2	4	64	0.03	< 10	< 10	41	< 10	20
572095H	299	229	0.03	8	400	< 2	< 2	4	60	0.04	< 10	< 10	50	< 10	20
572096H	299	229	0.03	12	340	< 2	2	7	79	0.10	< 10	< 10	104	< 10	22
572097H	299	229	0.02	9	250	4	< 2	6	84	0.06	< 10	< 10	62	< 10	22
572098H	299	229	0.02	11	160	2	2	7	64	0.08	< 10	< 10	65	< 10	28
572099H	299	229	0.02	12	290	< 2	2	7	42	0.08	< 10	< 10	63	< 10	26
572100H	299	229	0.02	11	340	< 2	2	9	41	0.11	< 10	< 10	62	< 10	26
572101H	299	229	0.02	12	350	2	2	9	39	0.10	< 10	< 10	61	< 10	26
572102H	299	229	0.02	9	200	< 2	2	6	37	0.05	< 10	< 10	41	< 10	24
572103H	299	229	0.03	11	400	4	2	6	67	0.06	< 10	< 10	43	< 10	20
572104H	299	229	0.03	10	900	< 2	< 2	5	75	0.05	< 10	< 10	44	< 10	18
572105H	299	229	0.04	9	270	4	2	5	34	0.03	< 10	< 10	42	< 10	22
572106H	299	229	0.03	8	460	< 2	2	8	59	0.07	< 10	< 10	52	< 10	22
572107H	299	229	0.03	11	340	< 2	2	7	79	0.08	< 10	< 10	61	10	22
572108H	299	229	0.03	10	440	< 2	4	7	79	0.07	< 10	< 10	67	10	20
572109H	299	229	0.04	10	530	< 2	2	6	114	0.09	< 10	< 10	43	< 10	16
572110H	299	229	0.03	8	550	6	2	5	36	0.06	< 10	< 10	35	< 10	16
572111H	299	229	0.02	7	390	< 2	< 2	3	52	< 0.01	< 10	< 10	21	< 10	12
572112H	299	229	0.02	6	310	2	< 2	4	39	< 0.01	< 10	< 10	27	< 10	14
572113H	299	229	0.02	6	420	4	2	10	38	0.07	< 10	< 10	61	10	22
572114H	299	229	0.01	7	320	4	4	8	53	0.01	< 10	< 10	41	< 10	18
572115H	299	229	0.03	10	330	< 2	4	4	64	0.01	< 10	< 10	65	< 10	18
572116H	299	229	0.02	6	220	< 2	2	4	70	0.02	< 10	< 10	42	< 10	16
572117H	299	229	0.02	11	270	< 2	2	7	64	0.05	< 10	< 10	68	< 10	22
572118H	299	229	0.02	9	310	< 2	2	9	83	0.07	< 10	< 10	58	< 10	20
572119H	299	229	0.02	7	240	2	2	12	72	0.13	< 10	< 10	69	< 10	20
572120H	299	229	0.03	8	320	6	4	12	73	0.12	< 10	< 10	76	< 10	24

CERTIFICATION: Hart Bichler

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Project : CASINO 93/148
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Page r :4-A
Total P[illegible] :6
Certificate Date: 11-MAY-93
Invoice No. :19313811
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
572121H	299	229	1.9	1.81	4	140	< 0.5	2	1.27	< 0.5	13	104	2210	3.31	< 10	< 1	1.08	10	1.68	175	166
572122H	299	229	2.3	1.61	< 2	140	< 0.5	< 2	1.21	< 0.5	10	121	2620	2.84	< 10	< 1	0.95	10	1.45	160	209
572123H	299	229	2.0	1.43	< 2	80	< 0.5	< 2	1.28	0.5	15	86	2380	3.15	< 10	< 1	0.69	< 10	1.32	155	169
572124H	299	229	0.8	1.02	< 2	100	< 0.5	< 2	1.17	< 0.5	12	112	1305	2.16	< 10	< 1	0.46	10	0.85	110	329
572125H	299	229	0.4	0.66	< 2	120	< 0.5	< 2	0.97	< 0.5	8	143	625	1.32	< 10	< 1	0.33	< 10	0.53	75	255
572126H	299	229	0.5	1.44	< 2	110	< 0.5	< 2	1.31	< 0.5	10	99	853	2.41	< 10	< 1	0.71	< 10	1.25	140	166
572127H	299	229	1.2	1.51	< 2	110	< 0.5	2	1.32	0.5	11	85	1505	2.65	< 10	< 1	0.86	< 10	1.43	150	312
572128H	299	229	2.1	1.21	< 2	110	< 0.5	< 2	1.68	0.5	7	90	2470	2.37	< 10	< 1	0.57	10	1.09	125	401
572129H	299	229	0.6	0.72	4	90	< 0.5	< 2	1.33	< 0.5	8	134	764	2.15	< 10	1	0.30	< 10	0.55	85	224
572130H	299	229	1.6	1.40	4	100	< 0.5	< 2	1.29	< 0.5	11	84	2160	2.98	< 10	< 1	0.57	< 10	1.14	130	187
572131H	299	229	2.8	1.39	6	100	< 0.5	< 2	1.08	< 0.5	13	106	3450	3.45	< 10	< 1	0.69	10	1.22	135	945
572132H	299	229	2.2	1.27	< 2	70	< 0.5	< 2	0.91	0.5	14	99	2760	3.67	10	< 1	0.56	10	1.10	125	363
572133H	299	229	1.2	1.09	2	70	< 0.5	< 2	0.93	< 0.5	11	128	1755	2.76	< 10	< 1	0.43	20	0.92	110	301
572134H	299	229	0.7	1.60	6	110	< 0.5	< 2	1.02	< 0.5	9	92	1145	3.29	< 10	< 1	0.96	10	1.46	145	150
572135H	299	229	0.9	1.46	8	100	< 0.5	2	1.02	< 0.5	12	82	1480	3.61	< 10	< 1	0.90	10	1.27	140	199
572136H	299	229	0.6	1.18	4	90	< 0.5	< 2	1.24	< 0.5	13	77	1240	3.03	< 10	< 1	0.57	10	0.94	115	101
572137H	299	229	0.7	1.01	6	100	< 0.5	< 2	1.25	< 0.5	14	93	1130	3.74	< 10	< 1	0.51	10	0.86	105	175
572138H	299	229	0.5	0.93	4	100	< 0.5	2	1.30	< 0.5	6	97	993	1.97	< 10	1	0.40	20	0.71	90	182
572139H	299	229	0.4	0.63	< 2	80	< 0.5	< 2	1.23	< 0.5	7	92	439	1.79	< 10	< 1	0.24	10	0.36	60	219
572140H	299	229	0.3	1.03	6	90	< 0.5	4	1.36	< 0.5	11	98	694	4.01	< 10	< 1	0.60	10	0.98	115	88
572141H	299	229	0.6	1.30	< 2	120	0.5	< 2	1.24	< 0.5	11	77	1130	3.77	< 10	< 1	0.83	20	1.15	150	131
572142H	299	229	1.5	1.49	2	90	0.5	< 2	1.48	< 0.5	19	93	2140	4.13	10	< 1	0.90	20	1.45	155	295
572143H	299	229	0.4	1.04	< 2	100	< 0.5	< 2	1.39	< 0.5	10	89	842	3.39	< 10	1	0.55	10	0.97	120	140
572144H	299	229	0.4	0.98	< 2	60	< 0.5	< 2	1.14	< 0.5	15	105	765	4.05	< 10	< 1	0.42	20	0.80	105	104
572145H	299	229	1.0	1.21	4	90	< 0.5	< 2	1.19	0.5	23	129	1145	4.92	< 10	< 1	0.50	10	0.89	105	149
572146H	299	229	0.5	1.18	6	80	< 0.5	< 2	1.06	< 0.5	18	132	856	4.77	< 10	< 1	0.55	10	0.93	120	93
572147H	299	229	1.0	1.10	4	60	0.5	< 2	1.38	0.5	26	119	1550	4.29	< 10	< 1	0.58	20	0.78	135	128
572148H	299	229	0.8	0.89	< 2	60	< 0.5	< 2	1.77	< 0.5	17	87	1350	3.34	< 10	< 1	0.48	20	0.64	150	93
572149H	299	229	1.5	0.78	2	60	0.5	< 2	1.78	0.5	20	56	1550	3.95	< 10	< 1	0.36	30	0.63	155	82
572150H	299	229	1.0	1.13	8	60	0.5	< 2	1.26	< 0.5	17	88	1105	3.33	< 10	< 1	0.56	20	0.82	135	136
572151H	299	229	0.8	1.07	6	90	< 0.5	< 2	2.03	< 0.5	19	88	1225	3.45	< 10	< 1	0.59	20	0.80	165	132
572152H	299	229	0.1	1.00	6	90	0.5	< 2	1.69	< 0.5	9	69	427	2.72	< 10	< 1	0.64	20	0.84	150	51
572153H	299	229	0.4	0.77	6	70	0.5	< 2	2.15	< 0.5	13	87	555	2.83	< 10	< 1	0.37	10	0.65	150	51
572154H	299	229	0.6	0.58	< 2	40	0.5	< 2	1.54	< 0.5	7	37	510	3.15	< 10	< 1	0.34	10	0.64	165	45
572155H	299	229	0.9	0.62	< 2	50	0.5	< 2	1.91	< 0.5	14	87	1035	3.43	< 10	< 1	0.33	10	0.66	175	99
572156H	299	229	1.1	0.97	2	70	0.5	< 2	1.97	< 0.5	17	75	1070	2.55	< 10	< 1	0.56	20	0.82	140	146
572157H	299	229	0.6	1.08	6	100	0.5	< 2	0.90	< 0.5	11	119	853	2.53	< 10	1	0.65	10	0.92	120	54
572158H	299	229	1.8	0.81	8	50	< 0.5	< 2	0.95	< 0.5	23	88	1700	3.69	< 10	1	0.44	10	0.59	100	147
572159H	299	229	1.0	1.20	8	80	0.5	< 2	0.86	< 0.5	12	90	1325	3.94	< 10	< 1	0.86	10	1.09	145	96
572160H	299	229	0.9	1.35	< 2	110	0.5	< 2	1.05	0.5	14	98	1320	3.19	< 10	< 1	0.97	10	1.23	140	83

CERTIFICATION: Jan Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
572121H	299	229	0.06	12	460	10	2	15	60	0.16	< 10	< 10	91	10	26
572122H	299	229	0.04	9	330	2	4	12	53	0.12	< 10	< 10	77	10	24
572123H	299	229	0.05	9	370	8	2	8	49	0.08	< 10	< 10	67	20	24
572124H	299	229	0.04	6	220	6	2	4	54	0.04	< 10	< 10	42	10	18
572125H	299	229	0.03	5	220	4	2	3	65	0.01	< 10	< 10	29	< 10	12
572126H	299	229	0.05	8	280	6	4	8	54	0.09	< 10	< 10	59	10	20
572127H	299	229	0.05	8	310	10	6	9	57	0.11	< 10	< 10	73	10	22
572128H	299	229	0.05	7	410	10	6	7	71	0.08	< 10	< 10	55	10	18
572129H	299	229	0.04	4	200	8	2	3	111	0.02	< 10	< 10	27	< 10	12
572130H	299	229	0.07	7	410	8	2	8	53	0.07	< 10	< 10	59	10	18
572131H	299	229	0.04	9	340	2	8	8	63	0.07	< 10	< 10	59	10	20
572132H	299	229	0.05	8	370	6	4	8	48	0.06	< 10	< 10	54	10	20
572133H	299	229	0.04	7	310	6	2	7	40	0.03	< 10	< 10	46	10	16
572134H	299	229	0.05	6	320	2	2	11	48	0.11	< 10	< 10	63	10	18
572135H	299	229	0.04	5	340	2	2	12	36	0.10	< 10	< 10	59	10	18
572136H	299	229	0.06	5	350	2	2	9	56	0.06	< 10	< 10	47	10	16
572137H	299	229	0.04	6	330	8	< 2	8	63	0.05	< 10	< 10	51	10	16
572138H	299	229	0.06	6	360	6	2	7	56	0.02	< 10	< 10	33	< 10	14
572139H	299	229	0.06	3	190	26	2	2	48	< 0.01	< 10	< 10	17	< 10	8
572140H	299	229	0.04	9	420	4	2	9	39	0.07	< 10	< 10	60	10	14
572141H	299	229	0.04	7	540	4	2	12	45	0.10	< 10	< 10	64	10	20
572142H	299	229	0.04	10	440	10	2	10	53	0.08	< 10	< 10	66	10	20
572143H	299	229	0.04	7	510	6	4	7	77	0.06	< 10	< 10	47	10	14
572144H	299	229	0.04	9	380	6	2	7	50	0.03	< 10	< 10	48	10	14
572145H	299	229	0.06	9	480	6	2	7	100	0.03	< 10	< 10	42	10	12
572146H	299	229	0.06	9	490	8	< 2	8	68	0.05	< 10	< 10	52	10	14
572147H	299	229	0.05	8	580	12	2	8	40	0.04	< 10	< 10	41	10	16
572148H	299	229	0.04	7	660	2	2	8	51	0.02	< 10	< 10	33	10	14
572149H	299	229	0.03	6	520	4	2	7	99	0.02	< 10	< 10	37	< 10	16
572150H	299	229	0.04	6	450	2	2	8	41	0.03	< 10	< 10	41	10	18
572151H	299	229	0.03	7	420	8	< 2	9	123	0.03	< 10	< 10	47	10	18
572152H	299	229	0.03	6	410	4	< 2	9	54	0.06	< 10	< 10	35	10	14
572153H	299	229	0.03	7	350	6	2	7	59	0.01	< 10	< 10	32	10	16
572154H	299	229	0.02	4	220	10	6	9	39	0.03	< 10	< 10	38	10	22
572155H	299	229	0.02	8	210	< 2	2	8	40	0.01	< 10	< 10	38	10	18
572156H	299	229	0.03	8	340	14	2	8	45	0.05	< 10	< 10	40	10	14
572157H	299	229	0.05	7	240	14	2	11	35	0.07	< 10	< 10	48	10	16
572158H	299	229	0.04	8	410	2	2	8	33	0.03	< 10	< 10	42	10	14
572159H	299	229	0.04	8	260	8	4	10	32	0.10	< 10	< 10	55	10	20
572160H	299	229	0.04	10	240	6	2	8	37	0.11	< 10	< 10	46	10	18

CERTIFICATION:

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SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
572161H	299	229	1.0	1.48	< 2	80	< 0.5	< 2	1.77	< 0.5	15	143	1160	3.73	< 10	< 1	0.76	20	1.37	165	89
572162H	299	229	0.5	1.13	< 2	90	< 0.5	< 2	0.70	< 0.5	19	101	894	3.91	< 10	< 1	0.53	10	0.97	125	88
572163H	299	229	0.9	1.16	< 2	60	< 0.5	< 2	0.71	< 0.5	22	97	1240	4.32	< 10	< 1	0.52	20	0.97	125	97
572164H	299	229	0.6	1.22	< 2	70	< 0.5	< 2	0.94	< 0.5	16	96	1150	4.05	< 10	< 1	0.69	30	0.98	180	52
572165H	299	229	0.9	1.29	< 2	80	< 0.5	< 2	0.97	< 0.5	13	85	1555	4.37	< 10	< 1	0.75	30	1.06	170	76
572166H	299	229	0.3	0.91	< 2	80	< 0.5	< 2	1.15	< 0.5	9	92	472	2.38	< 10	1	0.48	20	0.66	105	46
572167H	299	229	0.5	0.73	2	60	< 0.5	< 2	0.88	< 0.5	10	97	782	2.72	< 10	< 1	0.34	20	0.59	90	157
572168H	299	229	0.2	0.67	< 2	70	< 0.5	< 2	1.08	< 0.5	7	89	458	2.02	< 10	< 1	0.31	20	0.49	90	36
572169H	299	229	0.1	0.75	< 2	100	< 0.5	< 2	1.05	< 0.5	6	109	638	2.28	< 10	< 1	0.30	20	0.48	105	28
572170H	299	229	0.2	0.74	< 2	90	< 0.5	< 2	1.41	< 0.5	5	98	535	2.35	< 10	< 1	0.36	20	0.53	125	41
572171H	299	229	0.2	0.85	< 2	140	< 0.5	< 2	1.60	< 0.5	4	93	439	2.53	< 10	< 1	0.47	20	0.72	145	52
572172H	299	229	0.2	1.01	< 2	150	< 0.5	< 2	1.13	< 0.5	7	91	510	2.86	< 10	< 1	0.55	20	0.75	145	60
572173H	299	229	0.2	0.52	< 2	80	< 0.5	< 2	6.05	< 0.5	8	65	446	2.46	< 10	< 1	0.13	< 10	0.63	450	35
572174H	299	229	0.6	0.59	< 2	50	< 0.5	< 2	4.36	< 0.5	5	75	438	1.67	< 10	< 1	0.23	< 10	0.46	275	47
572175H	299	229	1.0	0.95	< 2	70	< 0.5	< 2	3.74	< 0.5	5	125	462	2.16	< 10	< 1	0.36	< 10	0.52	255	45
572176H	299	229	0.6	1.11	< 2	40	< 0.5	< 2	3.27	< 0.5	10	175	489	2.88	< 10	< 1	0.48	10	0.68	230	219
572177H	299	229	0.5	1.02	< 2	70	< 0.5	< 2	1.08	< 0.5	6	143	451	2.01	< 10	< 1	0.37	10	0.53	140	44
572178H	299	229	0.3	0.84	< 2	20	< 0.5	< 2	1.74	< 0.5	7	120	398	2.19	< 10	< 1	0.18	10	0.48	195	37
572179H	299	229	0.2	0.82	4	20	< 0.5	< 2	2.16	< 0.5	9	132	437	2.99	< 10	< 1	0.15	10	0.85	240	59
572180H	299	229	< 0.2	0.89	< 2	20	< 0.5	< 2	1.47	< 0.5	4	136	170	1.89	< 10	< 1	0.16	10	0.70	160	38
572181H	299	229	0.2	1.16	< 2	20	< 0.5	< 2	1.22	< 0.5	8	128	433	2.28	< 10	< 1	0.19	10	0.44	155	15
572182H	299	229	0.2	1.13	< 2	40	< 0.5	< 2	1.62	< 0.5	8	114	765	2.26	< 10	< 1	0.24	10	0.59	180	25
572183H	299	229	0.2	0.62	< 2	30	< 0.5	< 2	2.11	< 0.5	6	110	478	1.87	< 10	< 1	0.11	10	0.55	285	17
572184H	299	229	0.4	0.81	< 2	10	< 0.5	< 2	1.23	< 0.5	9	142	477	2.46	< 10	< 1	0.16	10	0.48	155	22
572185H	299	229	< 0.2	0.50	< 2	10	< 0.5	< 2	4.68	< 0.5	4	112	329	2.56	< 10	< 1	0.11	< 10	1.79	400	30
572186H	299	229	< 0.2	0.94	< 2	60	< 0.5	< 2	1.89	< 0.5	5	115	234	1.82	< 10	< 1	0.23	10	0.87	180	60
572187H	299	229	0.3	1.22	2	200	< 0.5	< 2	2.00	< 0.5	6	107	538	2.30	< 10	< 1	0.49	10	1.10	175	22
572188H	299	229	0.2	1.02	< 2	60	< 0.5	< 2	1.75	< 0.5	9	122	510	2.66	< 10	1	0.35	10	0.85	130	32
572189H	299	229	0.6	1.01	< 2	30	< 0.5	< 2	1.33	< 0.5	14	129	1055	2.84	< 10	< 1	0.28	10	0.63	115	91
572190H	299	229	0.7	1.11	< 2	120	< 0.5	< 2	1.55	< 0.5	9	123	1280	2.28	< 10	< 1	0.31	20	0.66	125	112
572191H	299	229	0.2	1.47	< 2	240	< 0.5	< 2	1.24	< 0.5	8	175	415	2.12	< 10	< 1	0.81	10	1.26	145	22
572192H	299	229	< 0.2	1.92	< 2	100	< 0.5	< 2	1.24	< 0.5	9	166	444	3.57	< 10	1	1.37	10	1.93	175	42
572193H	299	229	0.3	1.06	< 2	70	< 0.5	< 2	1.58	< 0.5	8	133	599	2.57	< 10	< 1	0.51	10	0.93	110	51
572194H	299	229	0.2	1.07	< 2	60	< 0.5	< 2	1.82	< 0.5	18	162	750	3.62	< 10	< 1	0.57	10	0.96	125	30
572195H	299	229	0.2	1.57	< 2	70	< 0.5	< 2	1.75	< 0.5	10	195	375	2.61	< 10	< 1	1.05	10	1.49	150	120
572196H	299	229	0.4	1.18	< 2	50	< 0.5	< 2	1.17	< 0.5	9	170	631	2.49	< 10	< 1	0.66	10	1.00	100	67
572197H	299	229	0.6	1.45	< 2	60	< 0.5	< 2	1.45	< 0.5	9	153	686	2.28	< 10	< 1	0.95	20	1.34	130	67
572198H	299	229	1.2	1.23	< 2	50	< 0.5	< 2	0.93	< 0.5	14	140	1705	3.23	< 10	< 1	0.59	10	0.90	125	67
572199H	299	229	< 0.2	1.64	< 2	80	< 0.5	< 2	0.95	< 0.5	8	154	328	2.93	< 10	< 1	1.13	10	1.55	160	132
572200H	299	229	0.8	1.09	< 2	40	< 0.5	< 2	0.96	< 0.5	15	160	1155	3.34	< 10	< 1	0.44	10	0.85	130	73

CERTIFICATION: Stuart Bichler

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572161H	299	229	0.03	14	250	4	< 2	7	47	0.07	< 10	< 10	49	< 10	28
572162H	299	229	0.04	8	240	8	< 2	4	190	0.06	< 10	< 10	40	< 10	24
572163H	299	229	0.04	8	220	6	< 2	5	32	0.06	< 10	< 10	50	< 10	28
572164H	299	229	0.03	9	310	4	< 2	8	39	0.06	< 10	< 10	52	< 10	32
572165H	299	229	0.04	10	550	6	< 2	13	30	0.10	< 10	< 10	77	< 10	30
572166H	299	229	0.04	7	280	6	< 2	7	54	0.03	< 10	< 10	37	< 10	16
572167H	299	229	0.03	7	240	4	< 2	6	32	0.02	< 10	< 10	38	< 10	18
572168H	299	229	0.04	4	310	6	< 2	6	35	0.01	< 10	< 10	31	< 10	16
572169H	299	229	0.05	6	430	6	< 2	6	39	0.02	< 10	< 10	30	< 10	18
572170H	299	229	0.04	5	350	8	< 2	7	39	0.03	< 10	< 10	32	< 10	18
572171H	299	229	0.04	7	460	6	< 2	7	71	0.05	< 10	< 10	37	< 10	20
572172H	299	229	0.04	7	360	4	< 2	8	138	0.06	< 10	< 10	43	< 10	24
572173H	299	229	0.01	6	230	12	< 2	4	53	< 0.01	< 10	< 10	26	< 10	22
572174H	299	229	0.01	6	400	10	< 2	5	47	0.01	< 10	< 10	24	< 10	16
572175H	299	229	0.02	6	420	8	< 2	6	48	0.02	< 10	< 10	32	< 10	20
572176H	299	229	0.02	8	330	12	< 2	8	41	0.02	< 10	< 10	36	< 10	20
572177H	299	229	0.02	5	360	12	< 2	8	22	0.02	< 10	< 10	36	< 10	18
572178H	299	229	0.01	6	540	12	< 2	9	16	< 0.01	< 10	< 10	40	< 10	18
572179H	299	229	0.01	4	400	14	< 2	4	23	< 0.01	< 10	< 10	23	< 10	20
572180H	299	229	0.01	5	350	6	< 2	4	22	< 0.01	< 10	< 10	21	< 10	14
572181H	299	229	0.02	6	580	12	< 2	8	22	< 0.01	< 10	< 10	33	< 10	18
572182H	299	229	0.03	5	630	14	< 2	6	43	< 0.01	< 10	< 10	28	< 10	18
572183H	299	229	0.01	3	400	8	< 2	4	19	< 0.01	< 10	< 10	17	< 10	12
572184H	299	229	0.02	5	490	22	< 2	4	19	< 0.01	< 10	< 10	16	< 10	12
572185H	299	229	0.01	3	370	12	< 2	5	24	< 0.01	< 10	< 10	22	< 10	22
572186H	299	229	0.04	2	370	10	< 2	8	41	< 0.01	< 10	< 10	26	< 10	12
572187H	299	229	0.04	3	370	6	< 2	8	62	0.03	< 10	< 10	44	< 10	16
572188H	299	229	0.05	6	420	10	< 2	6	50	0.01	< 10	< 10	39	< 10	16
572189H	299	229	0.05	6	290	8	< 2	4	44	< 0.01	< 10	< 10	21	< 10	16
572190H	299	229	0.06	5	440	14	2	4	99	0.01	< 10	< 10	28	< 10	18
572191H	299	229	0.09	7	510	6	< 2	9	107	0.09	< 10	< 10	55	< 10	18
572192H	299	229	0.07	13	470	4	< 2	14	125	0.18	< 10	< 10	105	< 10	26
572193H	299	229	0.07	6	420	8	< 2	6	92	0.07	< 10	< 10	46	< 10	16
572194H	299	229	0.07	10	590	4	< 2	6	261	0.07	< 10	< 10	55	< 10	18
572195H	299	229	0.09	10	500	4	< 2	10	82	0.15	< 10	< 10	78	10	22
572196H	299	229	0.07	6	330	4	< 2	6	65	0.07	< 10	< 10	45	< 10	16
572197H	299	229	0.06	9	360	2	< 2	9	115	0.12	< 10	< 10	57	< 10	20
572198H	299	229	0.07	8	340	2	< 2	7	45	0.07	< 10	< 10	52	< 10	24
572199H	299	229	0.08	9	580	4	< 2	11	56	0.17	< 10	< 10	56	< 10	24
572200H	299	229	0.09	9	470	4	< 2	6	41	0.04	< 10	< 10	47	< 10	24

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
572201H	299	229	0.5	1.29	< 2	80	0.5	2	1.19	< 0.5	8	146	558	2.31	< 10	< 1	0.68	< 10	1.11	110	179
572202H	299	229	0.4	1.45	6	100	0.5	4	1.49	< 0.5	20	138	1225	3.32	< 10	< 1	0.71	10	1.11	110	55
572203H	299	229	0.3	1.37	6	80	0.5	2	1.15	< 0.5	12	190	596	2.36	< 10	< 1	0.60	10	1.01	95	62
572204H	299	229	< 0.2	1.31	4	110	0.5	4	1.02	< 0.5	12	157	498	2.66	< 10	< 1	0.67	10	1.11	100	53
572205H	299	229	0.2	1.14	8	120	0.5	< 2	1.25	< 0.5	13	174	517	2.50	< 10	< 1	0.48	10	0.90	95	60
572206H	299	229	< 0.2	1.19	< 2	120	0.5	< 2	1.84	< 0.5	8	147	217	1.92	< 10	< 1	0.49	10	0.88	100	97
572207H	299	229	< 0.2	0.95	< 2	90	0.5	< 2	1.88	< 0.5	10	162	604	2.04	< 10	< 1	0.54	10	0.91	90	63

CERTIFICATION:

Chemex Labs Ltd.

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): ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 93/148
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :6
Certificate Date: 11-MAY-93
Invoice No. :I9313811
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313811

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
572201H	299	229	0.09	6	490	6	4	6	51	0.08	< 10	< 10	45	< 10	14
572202H	299	229	0.11	9	880	14	2	7	70	0.08	< 10	< 10	50	< 10	14
572203H	299	229	0.10	6	460	6	2	5	41	0.04	< 10	< 10	38	< 10	12
572204H	299	229	0.08	6	510	6	< 2	6	89	0.05	< 10	< 10	39	< 10	12
572205H	299	229	0.09	6	370	12	2	5	141	0.02	< 10	< 10	31	< 10	10
572206H	299	229	0.09	6	460	6	< 2	7	166	0.03	< 10	< 10	39	< 10	8
572207H	299	229	0.10	4	590	8	2	8	125	0.05	< 10	< 10	38	< 10	8

CERTIFICATION: Ian Bichler

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Page No. :1
Total Pages :6
Certificate Date: 13-MAY-93
Invoice No. :I9313974
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313974

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563375	208	274	0.07	0.029	0.27	1620						
H563376	208	274	0.03	0.015	0.31	3870						
H563377	208	274	0.03	0.031	0.48	6345						
H563378	208	274	0.03	0.017	0.41	3555						
H563379	208	274	0.01	0.011	0.07	6975						
H563380	208	276	0.01	0.008	0.14	9270						
H563381	208	276	0.01	0.019	0.03	7290						
H563382	208	274	0.01	0.012	0.17	7245						
H563383	208	276	0.02	0.044	0.17	8100						
H563384	208	276	0.01	0.035	0.10	7830						
H563385	208	273	0.02	0.025	0.14	11880						
H563386	208	276	0.03	0.017	0.10	10215						
H563387	208	276	0.05	0.011	0.07	8055						
H563388	208	274	0.06	0.012	0.14	5625						
H563389	208	274	0.13	0.048	0.41	5355						
H563390	208	276	0.17	0.045	0.10	11565						
H563391	208	276	0.13	0.015	0.10	10710						
H563392	208	276	0.22	0.051	0.10	10125						
H563393	208	276	0.19	0.022	0.07	10035						
H563394	208	274	0.10	0.005	0.03	4230						
H563395	208	274	0.22	0.012	0.21	5850						
H563396	208	276	0.23	0.021	0.27	9675						
H563397	208	274	0.17	0.071	0.17	6885						
H563398	208	276	0.25	0.021	0.14	9675						
H563399	208	276	0.27	0.007	0.07	8955						
H563400	208	276	0.28	0.011	0.03	11115						
H563401	208	276	0.24	0.016	0.07	10215						
H563402	208	274	0.30	0.023	0.07	9540						
H563403	208	276	0.38	0.010	0.10	8820						
H563404	208	276	0.17	0.011	0.10	7470						
H563405	208	276	0.35	0.037	0.17	11790						
H563406	208	274	0.26	0.014	0.17	7110						
H563407	208	276	0.28	0.040	0.10	10935						
H563408	208	274	0.23	0.062	0.10	3870						
H563409	208	276	0.22	0.021	0.21	11115						
H563410	208	273	0.11	0.027	0.03	11925						
H563411	208	276	0.18	0.008	0.07	8730						
H563412	208	273	0.14	0.023	0.10	13050						
H563413	208	276	0.15	0.022	0.17	11700						
H563414	208	276	0.19	0.011	0.14	10890						

CERTIFICATION: _____

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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-MAY-93
Invoice No. : I9313974
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313974

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563415	208	276	0.10	0.012	0.07	11745						
H563416	208	276	0.16	0.025	0.10	10485						
H563417	208	276	0.14	0.005	0.07	10890						
H563418	208	276	0.28	0.012	0.21	9135						
H563419	208	276	0.25	0.030	0.17	11295						
H563420	208	274	0.21	0.011	0.10	7065						
H563421	208	274	0.31	0.112	0.24	6525						
H563422	208	276	0.24	0.052	0.14	9135						
H563423	208	273	0.21	0.012	0.21	11970						
H563424	208	276	0.27	0.007	0.24	11700						
H563425	208	276	0.56	0.075	0.38	11610						
H563426	208	276	0.35	0.043	0.24	11700						
H563427	208	273	0.29	0.010	0.24	12420						
H563428	208	273	0.33	0.016	0.38	12465						
H563429	208	273	0.24	0.021	0.21	12330						
H563430	208	273	0.19	0.009	0.14	12600						
H563431	208	273	0.10	0.010	0.10	12960						
H563432	208	273	0.30	0.008	0.38	12240						
H563433	208	273	0.21	0.015	0.10	12555						
H563434	208	276	0.27	0.007	0.21	11700						
H563435	208	273	0.37	0.024	0.31	13050						
H563436	208	273	0.49	0.065	0.34	12015						
H563437	208	273	0.29	0.011	0.27	12510						
H563438	208	273	0.20	0.017	0.17	13230						
H563439	208	273	0.14	0.019	0.34	13050						
H563440	208	273	0.22	0.021	0.24	11835						
H563441	208	276	0.13	0.016	0.10	11700						
H563442	208	273	0.14	0.008	0.10	11970						
H563443	208	273	0.09	0.004	0.07	13005						
H563444	208	273	0.20	0.003	0.21	12330						
H563445	208	273	0.12	0.018	0.10	12960						
H563446	208	273	0.24	0.018	0.24	12060						
H563447	208	273	0.18	0.025	0.14	12240						
H563448	208	273	0.26	0.010	0.24	11925						
H563449	208	273	0.20	0.021	0.21	12285						
H563450	208	273	0.19	0.021	0.17	13185						
H563451	208	273	0.37	0.020	0.31	12375						
H563452	208	273	0.20	0.018	0.17	11925						
H563453	208	273	0.21	0.044	0.10	12195						
H563454	208	273	0.20	0.009	0.14	12375						

CERTIFICATION: A Smith

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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-MAY-93
Invoice No. :19313974
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313974

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563455	208	273	0.29	0.013	0.24	12600						
H563456	208	273	0.09	0.009	0.07	12915						
H563457	208	273	0.18	0.009	0.17	11925						
H563458	208	273	0.32	0.017	0.34	12555						
H563459	208	276	0.17	0.012	0.14	11385						
H563460	208	273	0.16	0.017	0.21	12700						
H563461	208	273	0.22	0.018	0.31	12080						
H563462	208	273	0.15	0.022	0.17	12760						
H563463	208	273	0.23	0.016	0.24	11960						
H563464	208	273	0.14	0.010	0.17	12260						
H563465	208	276	0.29	0.040	0.24	9820						
H563466	208	273	0.16	0.093	0.21	12420						
H563467	208	273	0.28	0.019	0.27	13540						
H563468	208	276	0.17	0.018	0.14	11520						
H563469	208	276	0.17	0.012	0.14	10980						
H563470	208	276	0.22	0.015	0.31	11540						
H563471	208	273	0.20	0.044	0.17	12880						
H563472	208	273	0.18	0.030	0.21	13180						
H563473	208	273	0.16	0.022	0.24	12660						
H563474	208	273	0.09	0.010	0.10	14040						
H563475	208	273	0.21	0.025	0.21	13060						
H563476	208	273	0.12	0.009	0.17	13860						
H563477	208	273	0.15	0.003	0.17	12700						
H563478	208	276	0.12	0.011	0.14	11700						
H563479	208	276	0.22	0.034	0.34	10780						
H563480	208	276	0.30	0.034	0.34	11200						
H563481	208	273	0.40	0.026	0.31	12590						
H563482	208	273	0.36	0.042	0.38	11980						
H563483	208	276	0.34	0.016	0.31	11300						
H563484	208	273	0.27	0.026	0.27	11980						
H563485	208	276	0.25	0.021	0.21	11260						
H563486	208	276	0.28	0.050	0.24	11800						
H563487	208	276	0.21	0.041	0.31	11000						
H563488	208	273	0.15	0.035	0.17	13520						
H563489	208	273	0.22	0.012	0.24	11820						
H563490	208	276	0.20	0.039	0.21	10300						
H563491	208	276	0.20	0.017	0.24	11300						
H563492	208	276	0.17	0.011	0.21	11680						
H563493	208	276	0.33	0.023	0.38	11500						
H563494	208	273	0.20	0.019	0.34	12160						

CERTIFICATION: A Smith

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VANCOUVER, BC
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Project : CASINO 93/149
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CERTIFICATE OF ANALYSIS A9313974

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H563495	208 276	0.23	0.015	0.38	10360
H563496	208 276	0.23	0.012	0.41	9800
H563497	208 273	0.23	0.009	0.24	12070
H563498	208 276	0.21	0.008	0.21	11540
H563499	208 273	0.14	0.006	0.14	12240
H563500	208 276	0.20	0.011	0.24	11120
H563501	208 276	0.16	0.030	0.14	10920
H563502	208 276	0.32	0.017	0.34	10700
H563503	208 273	0.21	0.022	0.27	11880
H563504	208 273	0.29	0.025	0.31	12160
H563505	208 276	0.34	0.019	0.41	11600
H563506	208 276	0.30	0.015	0.27	11200
H563507	208 276	0.32	0.023	0.27	11300
H563508	208 276	0.33	0.021	0.41	9200
H563509	208 276	0.16	0.010	0.21	10860
H563510	208 276	0.37	0.009	0.34	11200
H563511	208 273	0.55	0.024	0.82	12260
H563512	208 273	0.39	0.013	0.38	12720
H563513	208 273	0.32	0.002	0.31	12220
H563514	208 276	0.31	0.002	0.27	11520
H563515	208 273	0.23	0.003	0.17	13840
H563516	208 273	0.18	0.011	0.17	13060
H563517	208 273	0.22	0.010	0.24	13200
H563518	208 273	0.23	0.014	0.17	12420
H563519	208 274	0.29	0.029	0.27	5440
H563520	208 274	0.79	0.007	1.30	4320
H563521	208 270	0.38	0.009	0.48	17620
H563522	208 273	0.15	0.024	0.27	15400
H563523	208 273	0.38	0.052	0.27	12400
H563524	208 276	0.21	0.008	0.24	11540
H563525	208 273	0.14	0.003	0.10	12320
H563526	208 276	0.19	0.007	0.24	11600
H563527	208 276	0.16	0.003	0.21	11560
H563528	208 273	0.13	0.001	0.07	14020
H563529	208 273	0.25	0.005	0.24	12700
H563530	208 273	0.18	0.019	0.17	12900
H563531	208 273	0.19	0.014	0.17	13580
H563532	208 273	0.18	0.009	0.17	12960
H563533	208 273	0.15	0.034	0.14	12120
H563534	208 276	0.26	0.007	0.27	10300

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313974

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H563535	208 273	0.55	0.020	0.86	12960
H563536	208 274	0.60	0.020	0.41	4820
H563537	208 274	0.35	0.010	0.27	6360
H563538	208 274	0.43	0.013	0.41	6180
H563539	208 276	0.48	0.026	0.38	8400
H563540	208 274	0.29	0.021	0.17	6460
H563541	208 274	0.14	0.006	0.14	6800
H563542	208 274	0.20	0.005	0.17	4420
H563543	208 276	0.22	0.016	0.24	8300
H563544	208 274	0.22	0.010	0.17	4880
H563545	208 274	0.29	0.021	0.21	6520
H563546	208 274	0.22	0.003	0.31	1920
H563547	208 274	0.17	0.007	0.17	7000
H563548	208 274	0.25	0.015	0.17	6100
H563549	208 274	0.30	0.026	0.24	6480
H563550	208 274	0.27	0.009	0.27	6820
H563551	208 274	0.23	0.009	0.27	6980
H563552	208 274	0.09	0.007	0.10	6660
H563553	208 276	0.22	0.009	0.21	7630
H563554	208 276	0.14	0.008	0.10	7640
H563555	208 274	0.32	0.009	0.31	6840
H563556	208 274	0.24	0.010	0.17	6280
H563557	208 274	0.38	0.030	0.27	6500
H563558	208 274	0.28	0.009	0.17	6920
H563559	208 274	0.19	0.019	0.17	7140
H563560	208 274	0.21	0.010	0.21	6660
H563561	208 274	0.21	0.024	0.17	6800
H563562	208 274	0.26	0.010	0.21	7160
H563563	208 274	0.11	0.005	0.17	6780
H563564	208 276	0.25	0.014	0.14	7320
H563565	208 274	0.21	0.020	0.21	7120
H563566	208 274	0.15	0.014	0.10	6900
H563567	208 276	0.12	0.007	0.10	7320
H563568	208 276	0.22	0.008	0.27	7400
H563569	208 274	0.17	0.005	0.17	7040
H563570	208 274	0.14	0.007	0.10	6880
H563571	208 274	0.18	0.018	0.14	6920
H563572	208 274	0.17	0.011	0.14	6480
H563573	208 276	0.21	0.007	0.21	7780
H563574	208 276	0.13	0.005	0.10	8520

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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-MAY-93
Invoice No. : I9313974
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313974

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H563575	208	276	0.17	0.021	0.24	7780						
H563576	208	276	0.17	0.017	0.21	7800						
H563577	208	274	0.24	0.007	0.17	7160						
H563578	208	276	0.22	0.018	0.27	7680						
H563579	208	274	0.13	0.014	0.14	7260						
H563580	208	276	0.17	0.002	0.21	7900						
H563581	208	276	0.07	0.003	0.10	7890						
H563582	208	276	0.19	0.007	0.17	7740						
H563583	208	274	0.26	0.005	0.21	7260						
H563584	208	276	0.18	0.008	0.17	7340						
H563585	208	274	0.17	0.016	0.14	7080						
H563586	208	274	0.13	0.009	0.14	6380						
H563587	208	274	0.14	0.013	0.21	6400						
H563588	208	274	0.08	0.003	0.10	6160						
H563589	208	274	0.27	0.005	0.14	6520						
H563590	208	274	0.14	0.004	0.17	7100						
H563591	208	274	0.28	0.010	0.27	6960						
H563592	208	276	0.10	0.002	0.10	7540						
H563593	208	274	0.84	0.011	0.45	6740						
H563594	208	274	0.19	0.009	0.14	6800						
H563595	208	276	0.16	0.007	0.17	7620						
H563596	208	274	0.14	0.004	0.10	7220						
H563597	208	274	0.13	0.004	0.14	6900						
H563598	208	276	0.24	0.002	0.51	7760						
H563599	208	276	0.18	0.014	0.17	7380						
H563600	208	274	0.30	0.003	0.24	6900						
H563601	208	274	0.11	0.010	0.10	6700						
H563602	208	274	0.14	0.008	0.14	6860						
H563603	208	274	0.11	0.002	0.10	6920						
H563604	208	274	0.21	0.003	0.14	7140						
H563605	208	276	0.16	0.005	0.24	7620						
H563606	208	274	0.24	0.019	0.24	5720						
H563607	208	274	0.11	0.007	0.10	6960						
H563608	208	274	0.18	0.008	0.17	7100						
H563609	208	274	0.27	0.008	0.21	6900						
H563610	208	276	0.23	0.003	0.21	7380						

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-MAY-93
Invoice No. : I9313975
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563375	299	229	1.0	0.78	16	150	< 0.5	< 2	0.04	< 0.5	3	17	680	4.22	< 10	< 1	0.30	10	0.21	40	193
H563376	299	229	1.4	0.32	16	130	< 0.5	< 2	0.01	< 0.5	1	28	294	2.08	< 10	< 1	0.19	10	0.02	10	100
H563377	299	229	1.8	0.44	72	100	< 0.5	< 2	0.02	< 0.5	1	23	336	2.45	< 10	< 1	0.15	20	0.02	10	214
H563378	299	229	2.4	0.30	32	90	< 0.5	< 2	< 0.01	< 0.5	1	10	244	2.73	< 10	< 1	0.17	10	0.01	10	122
H563379	299	229	0.8	0.23	28	100	< 0.5	< 2	< 0.01	< 0.5	1	52	122	1.16	< 10	< 1	0.18	10	0.01	5	85
H563380	299	229	0.8	0.15	26	380	< 0.5	< 2	< 0.01	< 0.5	1	24	228	1.16	< 10	< 1	0.20	10	< 0.01	5	51
H563381	299	229	0.6	0.30	24	310	< 0.5	< 2	0.01	< 0.5	3	96	117	1.52	< 10	< 1	0.29	20	0.02	10	125
H563382	299	229	0.8	0.33	28	310	< 0.5	< 2	0.01	< 0.5	4	95	137	1.40	< 10	< 1	0.22	20	0.02	10	74
H563383	299	229	0.8	0.25	14	460	< 0.5	< 2	< 0.01	< 0.5	2	66	164	1.11	< 10	< 1	0.17	10	0.01	5	272
H563384	299	229	0.6	0.12	16	230	< 0.5	< 2	0.01	< 0.5	2	33	121	0.82	< 10	< 1	0.11	10	< 0.01	5	210
H563385	299	229	1.0	0.24	24	110	< 0.5	< 2	0.01	< 0.5	7	89	186	1.36	< 10	< 1	0.21	10	0.01	10	152
H563386	299	229	0.6	0.15	24	170	< 0.5	< 2	0.01	< 0.5	9	30	269	1.40	< 10	< 1	0.10	10	< 0.01	5	105
H563387	299	229	0.6	0.30	16	210	< 0.5	2	0.02	< 0.5	10	82	470	1.71	< 10	< 1	0.15	20	0.02	15	75
H563388	299	229	0.8	0.20	14	170	< 0.5	2	0.02	< 0.5	6	36	636	1.59	< 10	< 1	0.11	10	0.01	10	91
H563389	299	229	0.8	0.32	24	160	< 0.5	2	0.02	< 0.5	14	91	1380	1.54	< 10	< 1	0.14	20	0.01	10	321
H563390	299	229	0.8	0.28	34	100	< 0.5	< 2	0.02	< 0.5	16	43	1740	1.93	< 10	< 1	0.10	20	0.01	10	289
H563391	299	229	0.6	0.34	14	70	< 0.5	< 2	0.03	< 0.5	14	63	1270	1.94	< 10	< 1	0.16	10	0.04	10	91
H563392	299	229	0.8	0.21	46	50	< 0.5	< 2	0.02	< 0.5	29	33	2260	2.38	< 10	< 1	0.10	10	0.01	10	326
H563393	299	229	0.8	0.33	30	70	< 0.5	< 2	0.02	< 0.5	10	61	2050	2.08	< 10	< 1	0.13	10	0.01	10	144
H563394	299	229	0.4	0.34	12	80	< 0.5	< 2	0.02	< 0.5	11	92	984	1.56	< 10	< 1	0.14	10	0.01	10	27
H563395	299	229	1.2	0.32	22	100	< 0.5	6	0.03	< 0.5	12	81	2190	2.11	< 10	< 1	0.17	10	0.02	10	70
H563396	299	229	1.0	0.25	28	60	< 0.5	12	0.02	< 0.5	16	35	2450	2.37	< 10	< 1	0.10	10	0.01	10	141
H563397	299	229	0.6	0.29	18	50	< 0.5	6	0.03	< 0.5	20	81	1800	2.66	< 10	< 1	0.16	10	0.01	10	488
H563398	299	229	0.6	0.15	30	80	< 0.5	< 2	0.04	< 0.5	12	27	2530	1.72	< 10	< 1	0.07	10	0.01	10	123
H563399	299	229	0.6	0.29	18	120	< 0.5	< 2	0.09	< 0.5	12	72	2880	1.66	< 10	< 1	0.12	10	0.02	15	45
H563400	299	229	0.6	0.43	22	100	< 0.5	< 2	0.07	1.0	16	110	3010	1.91	< 10	< 1	0.15	20	0.02	105	83
H563401	299	229	0.6	0.31	36	80	< 0.5	2	0.41	0.5	16	97	2540	2.19	< 10	< 1	0.14	10	0.05	110	113
H563402	299	229	0.4	0.28	24	50	< 0.5	< 2	0.05	0.5	21	38	3230	1.66	< 10	< 1	0.08	10	0.01	40	138
H563403	299	229	0.8	0.44	168	30	< 0.5	< 2	0.05	< 0.5	15	64	4180	4.30	< 10	< 1	0.12	10	0.02	20	78
H563404	299	229	0.6	0.18	56	40	< 0.5	< 2	0.04	< 0.5	18	26	1855	3.11	< 10	< 1	0.08	10	0.01	10	78
H563405	299	229	0.6	0.31	40	70	< 0.5	2	0.06	< 0.5	15	64	3530	1.75	< 10	< 1	0.14	20	0.02	45	237
H563406	299	229	0.6	0.27	44	110	< 0.5	< 2	0.10	< 0.5	12	38	2760	1.07	< 10	< 1	0.08	10	0.03	45	102
H563407	299	229	0.8	0.34	56	150	< 0.5	< 2	0.12	0.5	15	86	3090	1.49	< 10	< 1	0.12	20	0.04	40	261
H563408	299	229	1.4	0.17	64	70	< 0.5	< 2	0.07	1.0	27	47	2430	1.87	< 10	< 1	0.10	10	0.02	40	405
H563409	299	229	0.6	0.32	30	90	< 0.5	< 2	0.52	0.5	19	92	2210	1.65	< 10	< 1	0.13	10	0.10	85	126
H563410	299	229	0.4	0.30	14	100	< 0.5	< 2	0.36	0.5	17	127	1175	1.43	< 10	< 1	0.15	10	0.02	100	171
H563411	299	229	0.4	0.40	24	140	< 0.5	< 2	0.09	0.5	30	90	1975	1.42	< 10	< 1	0.15	10	0.02	135	52
H563412	299	229	0.6	0.23	32	60	< 0.5	< 2	0.37	0.5	19	47	1345	2.15	< 10	< 1	0.10	10	0.04	85	150
H563413	299	229	0.6	0.37	32	150	< 0.5	< 2	0.29	0.5	20	82	1475	1.67	< 10	< 1	0.13	20	0.11	280	144
H563414	299	229	0.8	0.65	34	170	< 0.5	< 2	0.66	< 0.5	13	97	2030	1.59	< 10	< 1	0.20	30	0.22	100	71

CERTIFICATION: Stewart Buchler

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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-MAY-93
Invoice No. :19313975
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563375	299	229	0.01	2	750	6	4	4	43	0.01	< 10	< 10	30	< 10	42
H563376	299	229	< 0.01	2	460	6	6	1	38	< 0.01	< 10	< 10	8	< 10	14
H563377	299	229	< 0.01	1	900	10	26	3	189	< 0.01	< 10	< 10	17	< 10	14
H563378	299	229	< 0.01	< 1	690	6	22	3	59	< 0.01	< 10	< 10	20	< 10	16
H563379	299	229	< 0.01	1	140	4	22	< 1	20	< 0.01	< 10	< 10	2	< 10	4
H563380	299	229	< 0.01	1	100	6	4	< 1	16	< 0.01	< 10	< 10	< 1	< 10	4
H563381	299	229	0.01	1	160	12	4	< 1	16	< 0.01	< 10	< 10	1	< 10	6
H563382	299	229	0.01	1	150	12	10	< 1	21	< 0.01	< 10	< 10	1	< 10	6
H563383	299	229	0.01	1	130	6	2	< 1	18	< 0.01	< 10	< 10	1	< 10	6
H563384	299	229	< 0.01	< 1	80	8	4	< 1	16	< 0.01	< 10	< 10	< 1	< 10	4
H563385	299	229	0.01	2	70	8	2	< 1	21	< 0.01	< 10	< 10	< 1	< 10	6
H563386	299	229	< 0.01	1	90	8	6	< 1	7	< 0.01	< 10	< 10	< 1	< 10	8
H563387	299	229	< 0.01	3	130	10	2	< 1	8	< 0.01	10	< 10	1	< 10	16
H563388	299	229	< 0.01	1	120	12	2	< 1	7	< 0.01	< 10	< 10	< 1	< 10	14
H563389	299	229	0.01	3	150	8	6	< 1	21	< 0.01	< 10	< 10	< 1	< 10	16
H563390	299	229	< 0.01	3	180	10	16	< 1	33	< 0.01	10	< 10	< 1	< 10	18
H563391	299	229	0.01	2	100	6	4	< 1	8	< 0.01	< 10	< 10	1	< 10	16
H563392	299	229	< 0.01	3	110	12	18	< 1	11	< 0.01	< 10	< 10	< 1	< 10	22
H563393	299	229	< 0.01	3	120	10	16	< 1	8	< 0.01	< 10	< 10	< 1	< 10	34
H563394	299	229	< 0.01	3	90	8	2	< 1	5	< 0.01	< 10	< 10	< 1	< 10	16
H563395	299	229	< 0.01	3	120	24	4	< 1	4	< 0.01	< 10	< 10	1	< 10	30
H563396	299	229	< 0.01	4	130	8	6	< 1	4	< 0.01	< 10	< 10	< 1	< 10	30
H563397	299	229	< 0.01	3	130	8	8	< 1	10	< 0.01	< 10	< 10	< 1	< 10	20
H563398	299	229	< 0.01	3	100	14	4	< 1	4	< 0.01	< 10	< 10	< 1	< 10	32
H563399	299	229	0.01	3	90	8	< 2	< 1	12	< 0.01	< 10	< 10	< 1	< 10	36
H563400	299	229	< 0.01	5	130	10	2	< 1	6	< 0.01	< 10	< 10	< 1	< 10	66
H563401	299	229	0.01	5	130	12	2	< 1	14	< 0.01	< 10	< 10	< 1	< 10	68
H563402	299	229	< 0.01	3	130	8	2	< 1	4	< 0.01	< 10	< 10	< 1	< 10	46
H563403	299	229	< 0.01	5	140	12	16	< 1	4	< 0.01	< 10	< 10	< 1	< 10	50
H563404	299	229	< 0.01	3	90	14	26	< 1	3	< 0.01	< 10	< 10	< 1	< 10	30
H563405	299	229	< 0.01	3	120	20	6	< 1	5	< 0.01	< 10	< 10	< 1	< 10	52
H563406	299	229	< 0.01	3	120	8	8	< 1	5	< 0.01	< 10	< 10	< 1	< 10	44
H563407	299	229	< 0.01	3	160	4	12	< 1	7	< 0.01	< 10	< 10	< 1	< 10	46
H563408	299	229	< 0.01	3	140	6	16	< 1	4	< 0.01	< 10	< 10	< 1	< 10	32
H563409	299	229	< 0.01	4	130	8	2	< 1	15	< 0.01	< 10	< 10	< 1	< 10	48
H563410	299	229	< 0.01	4	160	12	< 2	< 1	8	< 0.01	< 10	< 10	< 1	< 10	44
H563411	299	229	< 0.01	5	120	10	4	< 1	8	< 0.01	< 10	< 10	< 1	< 10	124
H563412	299	229	< 0.01	3	130	8	4	< 1	14	< 0.01	< 10	< 10	< 1	< 10	40
H563413	299	229	< 0.01	3	130	6	6	< 1	9	< 0.01	< 10	< 10	< 1	< 10	82
H563414	299	229	0.01	3	200	6	4	1	25	< 0.01	< 10	< 10	7	< 10	44

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Project : CASINO 93/149
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Page No. :2-A
Total Pages :6
Certificate Date: 14-MAY-93
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CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563415	299	229	0.6	0.27	20	140	< 0.5	< 2	0.63	0.5	10	76	1070	1.31	< 10	1	0.16	20	0.11	65	75
H563416	299	229	0.6	0.25	36	140	< 0.5	< 2	0.17	1.0	15	60	1585	1.40	< 10	< 1	0.11	20	0.04	120	156
H563417	299	229	0.6	0.34	26	150	< 0.5	< 2	0.50	0.5	20	81	1475	1.56	< 10	< 1	0.13	20	0.12	220	27
H563418	299	229	1.0	0.42	40	160	< 0.5	< 2	0.26	2.0	24	75	2890	1.55	< 10	< 1	0.18	20	0.09	215	89
H563419	299	229	0.8	0.41	44	110	< 0.5	< 2	0.22	1.5	20	60	2520	1.83	< 10	< 1	0.14	10	0.07	295	177
H563420	299	229	0.6	0.48	14	100	< 0.5	< 2	0.63	1.5	26	80	2210	2.23	< 10	< 1	0.12	10	0.22	390	64
H563421	299	229	1.6	0.38	16	60	< 0.5	< 2	0.32	0.5	32	50	3240	1.96	< 10	< 1	0.11	20	0.10	225	714
H563422	299	229	1.2	0.28	14	100	< 0.5	< 2	1.07	< 0.5	17	49	2300	1.78	< 10	1	0.12	20	0.28	175	288
H563423	299	229	1.2	0.43	16	70	< 0.5	< 2	1.33	0.5	22	55	2140	2.32	< 10	< 1	0.12	30	0.28	155	72
H563424	299	229	1.6	0.36	20	50	< 0.5	< 2	0.92	0.5	25	64	2890	2.29	< 10	< 1	0.16	20	0.27	230	43
H563425	299	229	2.6	0.40	22	100	< 0.5	< 2	0.52	1.0	26	60	5670	1.89	< 10	< 1	0.12	30	0.13	240	472
H563426	299	229	1.8	0.42	34	120	< 0.5	< 2	1.00	1.0	23	65	3620	2.19	< 10	< 1	0.15	30	0.28	515	279
H563427	299	229	1.6	0.40	18	70	< 0.5	< 2	1.37	1.0	27	74	2890	2.81	< 10	< 1	0.17	30	0.46	325	63
H563428	299	229	1.6	0.26	38	110	< 0.5	< 2	0.73	1.0	18	65	3400	1.58	< 10	< 1	0.13	20	0.26	180	91
H563429	299	229	1.0	0.31	26	150	< 0.5	< 2	0.25	1.0	19	61	2550	1.11	< 10	< 1	0.16	10	0.10	50	128
H563430	299	229	0.8	0.28	18	150	< 0.5	< 2	0.33	0.5	19	84	2050	1.17	< 10	< 1	0.13	20	0.13	75	56
H563431	299	229	0.6	0.31	18	90	< 0.5	< 2	0.61	0.5	21	118	1100	1.74	< 10	< 1	0.17	10	0.25	120	66
H563432	299	229	1.8	0.27	20	60	< 0.5	< 2	1.21	1.0	21	56	2980	2.26	< 10	< 1	0.11	20	0.45	170	52
H563433	299	229	0.8	0.71	26	200	< 0.5	< 2	1.73	< 0.5	21	99	2010	1.80	< 10	< 1	0.15	10	0.57	210	93
H563434	299	229	1.4	0.68	32	180	< 0.5	< 2	0.90	< 0.5	34	86	2690	2.50	< 10	< 1	0.13	10	0.30	190	36
H563435	299	229	1.8	0.50	28	70	< 0.5	< 2	1.06	1.0	26	73	3650	2.59	< 10	< 1	0.11	30	0.35	195	140
H563436	299	229	2.2	0.40	40	80	< 0.5	< 2	1.25	0.5	20	59	4400	1.74	< 10	< 1	0.08	30	0.43	195	380
H563437	299	229	1.4	0.40	22	70	< 0.5	< 2	1.17	1.0	33	64	3020	2.42	< 10	< 1	0.11	20	0.30	215	84
H563438	299	229	1.2	0.30	20	80	< 0.5	< 2	1.25	< 0.5	12	86	1970	2.49	< 10	2	0.15	20	0.36	140	108
H563439	299	229	0.6	0.35	32	120	< 0.5	< 2	0.76	0.5	11	63	1370	1.75	< 10	< 1	0.14	20	0.23	145	109
H563440	299	229	1.2	0.27	14	110	< 0.5	< 2	0.93	0.5	14	84	2360	1.58	< 10	< 1	0.13	20	0.30	140	127
H563441	299	229	0.6	0.39	8	90	< 0.5	< 2	1.12	0.5	12	69	1410	1.59	< 10	1	0.13	20	0.34	105	102
H563442	299	229	0.8	0.29	12	80	< 0.5	< 2	1.57	0.5	20	68	1560	2.17	< 10	< 1	0.10	20	0.48	150	55
H563443	299	229	0.6	0.82	20	70	< 0.5	< 2	2.07	0.5	26	55	946	3.20	< 10	< 1	0.17	40	0.80	195	21
H563444	299	229	0.8	0.46	30	20	< 0.5	< 2	1.97	1.0	28	58	2010	2.52	< 10	< 1	0.17	30	0.77	170	19
H563445	299	229	0.6	0.31	34	110	< 0.5	< 2	1.01	0.5	14	99	1255	1.49	< 10	< 1	0.14	10	0.32	65	109
H563446	299	229	1.2	0.32	32	110	< 0.5	< 2	1.27	< 0.5	8	82	2400	1.23	< 10	< 1	0.13	20	0.42	120	114
H563447	299	229	0.8	0.30	14	130	< 0.5	< 2	1.14	< 0.5	11	76	1765	1.05	< 10	< 1	0.13	20	0.33	70	152
H563448	299	229	1.2	0.47	8	130	< 0.5	< 2	1.37	0.5	19	55	2610	2.02	< 10	< 1	0.24	20	0.52	145	60
H563449	299	229	1.2	0.31	14	160	< 0.5	< 2	0.80	0.5	12	78	2050	1.34	< 10	< 1	0.16	20	0.33	85	121
H563450	299	229	2.2	0.36	180	70	< 0.5	< 2	1.17	1.5	17	56	2080	2.09	< 10	< 1	0.18	10	0.36	645	143
H563451	299	229	2.0	0.33	44	80	< 0.5	< 2	0.83	0.5	12	63	3890	1.72	< 10	< 1	0.17	10	0.34	135	144
H563452	299	229	0.8	0.36	18	30	< 0.5	< 2	1.65	< 0.5	15	47	1960	2.24	< 10	1	0.17	20	0.63	165	110
H563453	299	229	1.4	0.31	92	80	< 0.5	< 2	1.58	0.5	13	49	2120	1.79	< 10	< 1	0.17	10	0.61	355	274
H563454	299	229	0.8	0.30	26	150	< 0.5	< 2	1.75	0.5	12	36	1955	1.59	< 10	< 1	0.16	20	0.61	155	44

CERTIFICATION: Stuart Buchler

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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-MAY-93
Invoice No. :I9313975
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B563415	299	229	< 0.01	1	120	8	4	< 1	10	< 0.01	< 10	< 10	1	< 10	14
B563416	299	229	< 0.01	2	120	4	10	< 1	7	< 0.01	< 10	< 10	1	< 10	56
B563417	299	229	< 0.01	3	180	12	12	< 1	13	< 0.01	< 10	< 10	1	< 10	62
B563418	299	229	< 0.01	4	140	10	10	< 1	8	< 0.01	< 10	< 10	1	< 10	76
B563419	299	229	< 0.01	4	220	20	20	1	11	< 0.01	< 10	< 10	3	< 10	92
B563420	299	229	< 0.01	5	470	12	4	4	9	< 0.01	< 10	< 10	10	10	94
B563421	299	229	< 0.01	1	310	30	14	2	7	< 0.01	< 10	< 10	6	10	46
B563422	299	229	< 0.01	2	220	16	8	1	8	< 0.01	< 10	< 10	3	< 10	24
B563423	299	229	< 0.01	4	440	20	6	2	11	< 0.01	< 10	< 10	9	10	28
B563424	299	229	< 0.01	4	340	8	8	1	9	< 0.01	< 10	< 10	4	< 10	48
B563425	299	229	< 0.01	6	490	10	20	2	33	< 0.01	< 10	< 10	9	10	50
B563426	299	229	< 0.01	3	690	30	20	2	10	< 0.01	< 10	< 10	8	10	60
B563427	299	229	< 0.01	3	590	20	8	2	14	< 0.01	< 10	< 10	9	10	46
B563428	299	229	< 0.01	4	190	14	8	1	10	< 0.01	< 10	< 10	6	10	28
B563429	299	229	0.01	3	70	8	4	< 1	10	< 0.01	< 10	< 10	2	< 10	16
B563430	299	229	0.01	2	100	6	4	< 1	21	< 0.01	< 10	< 10	1	< 10	20
B563431	299	229	0.01	3	120	14	4	< 1	11	< 0.01	< 10	< 10	1	< 10	16
B563432	299	229	< 0.01	3	320	10	4	3	15	< 0.01	< 10	< 10	9	10	36
B563433	299	229	< 0.01	4	400	10	6	5	17	< 0.01	< 10	< 10	16	< 10	28
B563434	299	229	< 0.01	7	690	8	4	8	13	< 0.01	< 10	< 10	28	< 10	50
B563435	299	229	< 0.01	8	420	8	4	9	11	< 0.01	< 10	< 10	24	10	46
B563436	299	229	< 0.01	8	580	12	10	9	10	< 0.01	< 10	< 10	27	10	34
B563437	299	229	< 0.01	5	560	28	8	7	12	< 0.01	< 10	< 10	23	10	36
B563438	299	229	< 0.01	3	250	18	6	2	17	< 0.01	< 10	< 10	8	10	16
B563439	299	229	< 0.01	2	180	12	6	< 1	30	< 0.01	< 10	< 10	2	< 10	20
B563440	299	229	< 0.01	3	160	8	4	< 1	17	< 0.01	< 10	< 10	2	< 10	26
B563441	299	229	< 0.01	2	220	12	4	1	39	< 0.01	< 10	< 10	3	< 10	20
B563442	299	229	< 0.01	16	270	2	4	2	27	< 0.01	< 10	< 10	7	< 10	20
B563443	299	229	< 0.01	19	660	8	6	12	39	< 0.01	< 10	10	39	10	22
B563444	299	229	< 0.01	11	280	16	6	4	24	< 0.01	< 10	< 10	15	10	16
B563445	299	229	< 0.01	2	180	10	4	< 1	23	< 0.01	< 10	< 10	2	< 10	8
B563446	299	229	< 0.01	2	190	8	10	< 1	24	< 0.01	< 10	< 10	2	< 10	16
B563447	299	229	0.01	1	180	20	4	< 1	33	< 0.01	< 10	< 10	2	< 10	8
B563448	299	229	0.02	2	290	8	2	4	89	0.01	< 10	< 10	17	10	30
B563449	299	229	< 0.01	2	200	6	10	< 1	23	< 0.01	< 10	< 10	2	< 10	14
B563450	299	229	< 0.01	2	180	6	36	< 1	29	< 0.01	< 10	< 10	2	10	48
B563451	299	229	< 0.01	3	210	6	14	2	17	< 0.01	< 10	< 10	8	10	18
B563452	299	229	< 0.01	3	460	8	6	4	21	< 0.01	< 10	< 10	15	10	16
B563453	299	229	< 0.01	2	270	8	22	1	23	< 0.01	< 10	< 10	8	10	34
B563454	299	229	0.01	2	470	8	4	2	68	< 0.01	< 10	< 10	11	10	20

CERTIFICATION: Ivan Bichler

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Page No. :3-A
Total Pages :6
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CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#563455	299	229	1.4	0.48	74	50	< 0.5	< 2	2.59	0.5	11	73	2850	1.86	< 10	1	0.21	20	0.58	230	82
#563456	299	229	0.6	0.64	4	40	< 0.5	< 2	1.66	< 0.5	15	89	921	1.86	< 10	< 1	0.15	20	0.48	145	54
#563457	299	229	0.8	0.62	24	20	< 0.5	< 2	1.86	0.5	16	75	1660	1.75	< 10	< 1	0.12	30	0.60	180	55
#563458	299	229	2.0	0.67	52	30	< 0.5	< 2	1.90	0.5	14	74	3080	2.06	< 10	1	0.14	20	0.64	300	110
#563459	299	229	0.8	0.60	28	190	< 0.5	< 2	1.30	0.5	15	69	1645	1.67	< 10	1	0.14	20	0.39	175	73
#563460	299	229	0.8	0.74	22	230	< 0.5	< 2	1.86	< 0.5	12	72	1580	1.65	< 10	< 1	0.11	20	0.56	255	103
#563461	299	229	1.4	0.56	48	80	< 0.5	< 2	1.48	0.5	14	93	2180	2.43	< 10	< 1	0.11	30	0.50	120	106
#563462	299	229	0.6	1.08	< 2	110	< 0.5	< 2	2.25	0.5	23	119	1520	2.84	< 10	< 1	0.37	30	0.88	130	138
#563463	299	229	1.2	0.57	< 2	110	< 0.5	< 2	1.77	1.0	25	90	2340	2.41	< 10	< 1	0.24	20	0.68	130	102
#563464	299	229	0.8	0.39	14	40	< 0.5	< 2	1.33	0.5	17	82	1440	2.17	< 10	< 1	0.19	30	0.45	120	59
#563465	299	229	1.8	0.41	46	40	< 0.5	< 2	1.69	0.5	20	66	2980	1.97	< 10	< 1	0.21	20	0.63	370	271
#563466	299	229	0.8	0.33	28	50	< 0.5	< 2	1.08	< 0.5	18	79	1560	1.40	< 10	< 1	0.19	10	0.28	135	561
#563467	299	229	1.2	0.43	6	90	< 0.5	< 2	1.60	0.5	14	65	2680	1.73	< 10	< 1	0.18	20	0.49	140	117
#563468	299	229	0.8	0.58	20	130	< 0.5	< 2	1.30	< 0.5	14	95	1700	1.65	< 10	< 1	0.22	20	0.49	130	108
#563469	299	229	0.8	0.48	34	40	< 0.5	< 2	1.41	< 0.5	13	82	1635	1.67	< 10	< 1	0.15	30	0.50	310	69
#563470	299	229	1.0	0.46	24	120	< 0.5	< 2	1.54	0.5	16	92	2280	1.88	< 10	< 1	0.14	30	0.54	130	87
#563471	299	229	1.0	0.62	18	110	< 0.5	< 2	1.45	0.5	21	77	2060	2.05	< 10	< 1	0.26	20	0.59	110	279
#563472	299	229	1.0	0.64	16	130	< 0.5	< 2	1.35	1.0	20	88	1935	1.96	< 10	< 1	0.23	20	0.52	125	193
#563473	299	229	0.6	0.74	18	230	< 0.5	< 2	1.34	0.5	12	67	1635	1.45	< 10	< 1	0.30	20	0.37	85	147
#563474	299	229	0.4	0.75	12	210	< 0.5	< 2	1.36	0.5	11	123	985	1.59	< 10	< 1	0.32	20	0.40	80	66
#563475	299	229	0.8	0.58	20	130	< 0.5	< 2	1.26	0.5	14	72	2030	1.59	< 10	< 1	0.25	20	0.45	80	148
#563476	299	229	0.6	0.62	4	110	< 0.5	< 2	1.17	< 0.5	11	96	1125	1.62	< 10	< 1	0.22	20	0.38	75	58
#563477	299	229	0.6	1.03	4	120	< 0.5	< 2	1.38	0.5	12	102	1410	2.28	< 10	1	0.39	20	0.70	110	19
#563478	299	229	0.4	0.70	4	160	< 0.5	< 2	1.37	0.5	13	114	1195	1.64	< 10	< 1	0.24	10	0.50	100	68
#563479	299	229	1.2	0.52	20	170	< 0.5	< 2	1.63	0.5	10	88	2150	1.60	< 10	< 1	0.23	20	0.66	125	194
#563480	299	229	2.0	0.53	46	140	< 0.5	< 2	1.78	0.5	12	81	2890	1.85	< 10	< 1	0.22	30	0.69	165	197
#563481	299	229	1.8	1.43	14	70	< 0.5	< 2	1.31	1.0	22	35	3740	2.61	< 10	< 1	0.67	30	1.01	130	150
#563482	299	229	2.0	1.05	6	40	< 0.5	< 2	1.37	1.0	27	30	3370	2.23	< 10	< 1	0.39	40	0.71	160	249
#563483	299	229	1.6	1.38	30	110	< 0.5	< 2	1.26	1.0	31	29	3060	2.68	< 10	< 1	0.64	30	0.96	155	87
#563484	299	229	1.4	0.72	40	30	< 0.5	< 2	2.04	0.5	17	57	2690	1.94	< 10	1	0.26	10	0.83	245	158
#563485	299	229	1.2	0.63	52	30	< 0.5	< 2	1.79	0.5	15	55	2450	1.87	< 10	< 1	0.13	10	0.66	220	121
#563486	299	229	1.6	0.52	24	20	< 0.5	< 2	1.75	0.5	16	47	2720	2.47	< 10	1	0.17	20	0.60	255	288
#563487	299	229	1.2	0.93	4	40	< 0.5	< 2	1.23	1.0	28	32	2040	2.76	< 10	< 1	0.34	20	0.64	125	252
#563488	299	229	0.8	0.88	12	220	< 0.5	< 2	2.13	0.5	14	65	1415	2.07	< 10	2	0.38	20	0.59	150	203
#563489	299	229	1.2	0.81	24	80	< 0.5	< 2	1.47	0.5	17	82	2080	3.05	< 10	< 1	0.35	20	0.68	150	65
#563490	299	229	1.2	1.06	12	70	< 0.5	< 2	1.84	0.5	17	103	1965	2.20	< 10	1	0.47	30	0.90	185	224
#563491	299	229	0.8	0.83	18	350	< 0.5	< 2	3.89	0.5	10	53	1895	2.39	< 10	2	0.35	30	0.76	315	91
#563492	299	229	0.8	1.04	< 2	340	< 0.5	< 2	1.73	1.0	11	79	1610	1.86	< 10	< 1	0.50	30	0.72	150	56
#563493	299	229	1.6	0.46	36	90	< 0.5	< 2	1.85	0.5	15	99	3220	2.01	< 10	< 1	0.17	20	0.66	185	133
#563494	299	229	1.4	0.69	26	90	< 0.5	4	2.16	0.5	15	96	2040	2.91	< 10	< 1	0.30	20	0.95	160	112

CERTIFICATION: Hartt Bichler

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A563455	299	229	< 0.01	3	1050	10	20	2	25	< 0.01	< 10	< 10	16	10	36
A563456	299	229	< 0.01	4	460	8	2	9	20	< 0.01	< 10	< 10	34	10	14
A563457	299	229	< 0.01	6	570	8	4	10	18	< 0.01	< 10	< 10	34	10	16
A563458	299	229	< 0.01	5	660	18	24	9	19	< 0.01	< 10	< 10	35	10	24
A563459	299	229	< 0.01	4	400	12	14	6	16	< 0.01	< 10	< 10	22	10	16
A563460	299	229	< 0.01	4	540	8	6	9	16	< 0.01	< 10	< 10	37	10	24
A563461	299	229	< 0.01	4	500	10	6	9	18	< 0.01	< 10	< 10	34	10	28
A563462	299	229	0.02	5	500	8	2	8	130	0.01	< 10	< 10	50	10	18
A563463	299	229	0.01	4	420	4	2	8	67	< 0.01	< 10	< 10	37	10	14
A563464	299	229	< 0.01	3	280	14	4	3	19	< 0.01	< 10	< 10	16	< 10	14
A563465	299	229	< 0.01	5	400	8	12	3	19	< 0.01	< 10	< 10	18	10	26
A563466	299	229	< 0.01	2	230	12	16	1	12	< 0.01	< 10	< 10	7	10	12
A563467	299	229	< 0.01	4	340	8	4	3	25	< 0.01	< 10	< 10	16	10	12
A563468	299	229	0.01	3	420	8	2	3	27	< 0.01	< 10	< 10	20	10	12
A563469	299	229	< 0.01	3	310	6	16	2	15	< 0.01	< 10	< 10	13	10	20
A563470	299	229	< 0.01	3	420	18	6	2	19	< 0.01	< 10	< 10	15	10	14
A563471	299	229	0.02	3	330	8	4	3	35	< 0.01	< 10	< 10	18	10	12
A563472	299	229	0.01	3	440	6	6	3	36	< 0.01	< 10	< 10	15	10	14
A563473	299	229	0.02	2	430	8	6	4	119	< 0.01	< 10	< 10	28	30	10
A563474	299	229	0.06	2	430	4	< 2	4	120	0.01	< 10	< 10	28	10	8
A563475	299	229	0.01	3	350	6	4	2	30	< 0.01	< 10	< 10	18	10	12
A563476	299	229	0.03	3	270	4	2	3	103	< 0.01	< 10	< 10	30	10	10
A563477	299	229	0.05	2	350	8	< 2	6	82	0.02	< 10	< 10	52	10	16
A563478	299	229	0.02	4	230	10	2	3	94	< 0.01	< 10	< 10	26	10	10
A563479	299	229	0.01	3	280	10	4	2	39	< 0.01	< 10	< 10	18	10	12
A563480	299	229	0.01	3	410	12	6	3	47	< 0.01	< 10	< 10	19	10	20
A563481	299	229	0.02	3	400	10	4	8	100	0.03	< 10	< 10	60	20	22
A563482	299	229	< 0.01	3	460	12	4	10	19	0.02	< 10	< 10	50	20	18
A563483	299	229	0.01	4	400	14	4	11	32	0.04	< 10	< 10	64	20	20
A563484	299	229	0.01	3	310	6	14	10	18	0.01	< 10	< 10	44	10	16
A563485	299	229	< 0.01	3	370	8	16	7	19	< 0.01	< 10	10	27	20	18
A563486	299	229	< 0.01	3	520	8	12	4	16	< 0.01	< 10	< 10	22	20	14
A563487	299	229	< 0.01	4	470	10	2	9	25	0.01	< 10	< 10	50	20	12
A563488	299	229	0.01	3	430	4	< 2	8	90	0.01	< 10	< 10	41	10	18
A563489	299	229	< 0.01	4	400	12	2	7	25	0.01	< 10	< 10	37	20	26
A563490	299	229	0.01	2	430	8	2	10	23	0.04	< 10	< 10	60	20	26
A563491	299	229	0.01	3	450	6	2	9	257	0.02	< 10	< 10	45	20	16
A563492	299	229	0.02	2	420	6	2	9	100	0.03	< 10	< 10	47	10	14
A563493	299	229	< 0.01	4	340	4	4	4	19	< 0.01	< 10	< 10	23	20	20
A563494	299	229	0.01	4	480	4	8	6	35	< 0.01	< 10	< 10	27	20	22

CERTIFICATION: Stuart Bichler

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H563495	299	229	1.2	1.03	18	210	< 0.5	< 2	1.46	0.5	17	87	2150	2.59	< 10	< 1	0.37	20	0.68	170	95
H563496	299	229	1.2	0.78	12	90	< 0.5	< 2	1.88	0.5	19	87	2100	2.59	< 10	< 1	0.29	30	0.61	165	71
H563497	299	229	1.0	0.94	< 2	280	< 0.5	< 2	1.79	0.5	12	52	2030	1.94	< 10	< 1	0.41	20	0.72	140	55
H563498	299	229	0.8	0.65	4	230	< 0.5	< 2	2.12	0.5	17	58	1995	1.73	< 10	1	0.26	20	0.67	140	51
H563499	299	229	0.6	0.52	6	70	< 0.5	< 2	2.06	< 0.5	12	57	1260	2.96	< 10	1	0.27	20	0.76	110	39
H563500	299	229	0.6	1.00	8	100	< 0.5	< 2	2.36	0.5	13	92	1810	2.18	< 10	< 1	0.48	20	0.84	110	62
H563501	299	229	0.8	0.88	2	190	< 0.5	< 2	1.92	0.5	14	73	1475	1.81	< 10	< 1	0.54	20	0.96	120	172
H563502	299	229	1.2	0.81	6	160	< 0.5	< 2	1.62	0.5	14	66	2970	1.65	< 10	< 1	0.42	20	0.86	135	102
H563503	299	229	0.8	1.21	< 2	200	< 0.5	< 2	1.87	0.5	12	78	1940	1.81	< 10	< 1	0.61	20	0.96	135	130
H563504	299	229	1.0	1.15	< 2	150	< 0.5	< 2	2.16	< 0.5	12	98	2770	1.50	< 10	< 1	0.61	20	0.94	90	148
H563505	299	229	1.2	1.24	4	200	< 0.5	8	2.12	< 0.5	12	92	3160	1.77	< 10	< 1	0.64	20	0.97	110	112
H563506	299	229	1.2	1.28	12	140	< 0.5	2	2.35	< 0.5	19	101	2850	2.02	< 10	< 1	0.68	20	0.98	125	92
H563507	299	229	1.6	1.41	4	120	< 0.5	8	2.29	< 0.5	18	101	2920	2.15	< 10	< 1	0.64	20	1.04	100	134
H563508	299	229	1.6	1.26	4	190	< 0.5	< 2	2.06	< 0.5	19	111	3170	1.82	< 10	1	0.55	20	0.91	120	129
H563509	299	229	0.6	1.47	< 2	180	< 0.5	< 2	2.13	< 0.5	15	69	1495	2.16	< 10	1	0.66	20	0.95	140	61
H563510	299	229	1.8	1.09	8	150	< 0.5	2	1.14	0.5	22	98	3510	2.19	< 10	1	0.40	20	0.64	165	61
H563511	299	229	2.2	0.73	26	200	< 0.5	2	2.21	0.5	12	75	5180	1.62	< 10	< 1	0.18	20	0.81	195	146
H563512	299	229	1.8	0.98	38	90	< 0.5	4	1.72	0.5	12	76	3680	2.01	< 10	1	0.22	20	0.66	125	76
H563513	299	229	0.8	1.31	< 2	220	< 0.5	< 2	2.14	0.5	13	66	2950	2.28	< 10	< 1	0.67	20	0.94	135	11
H563514	299	229	2.2	1.07	12	180	< 0.5	< 2	2.23	0.5	11	75	2730	2.01	< 10	< 1	0.57	20	1.07	180	14
H563515	299	229	1.4	1.33	< 2	190	< 0.5	< 2	1.91	< 0.5	11	96	2270	1.99	< 10	< 1	0.79	20	1.05	140	15
H563516	299	229	1.0	1.09	8	270	< 0.5	4	1.83	< 0.5	13	102	1855	1.96	< 10	< 1	0.39	20	0.71	155	73
H563517	299	229	1.0	1.18	8	520	< 0.5	2	3.60	< 0.5	13	82	2080	1.96	< 10	< 1	0.37	20	1.07	175	55
H563518	299	229	1.6	0.75	16	70	< 0.5	< 2	2.16	< 0.5	10	84	2240	1.58	< 10	< 1	0.15	20	0.65	220	87
H563519	299	229	16.6	0.63	154	30	< 0.5	< 2	2.50	42.0	7	80	2840	1.76	< 10	< 1	0.19	10	0.82	1045	177
H563520	299	229	131.0	0.34	1340	30	< 0.5	26	1.56	>100.0	9	64	7830	4.01	< 10	6	0.20	< 10	0.48	1260	44
H563521	299	229	108.0	0.38	942	70	< 0.5	6	2.81	>100.0	11	94	3590	2.72	< 10	2	0.24	< 10	1.11	2570	52
H563522	299	229	30.8	0.57	290	120	< 0.5	< 2	2.29	65.5	9	128	1460	2.28	< 10	< 1	0.31	10	0.82	2190	140
H563523	299	229	10.4	1.04	104	150	< 0.5	2	2.66	7.5	13	113	3510	2.14	< 10	< 1	0.35	20	0.36	505	302
H563524	299	229	6.4	0.87	72	130	< 0.5	< 2	2.37	11.0	10	116	1880	1.63	< 10	< 1	0.26	20	0.64	570	46
H563525	299	229	1.6	1.84	14	590	< 0.5	< 2	2.71	0.5	13	131	1270	2.06	< 10	< 1	0.69	20	0.89	310	18
H563526	299	229	3.4	1.31	26	140	< 0.5	< 2	1.85	3.0	20	99	1685	2.26	< 10	< 1	0.25	20	0.57	345	41
H563527	299	229	10.8	1.62	66	230	< 0.5	< 2	3.24	80.5	16	89	1480	2.44	< 10	< 1	0.47	20	0.65	640	17
H563528	299	229	0.6	1.64	4	310	< 0.5	4	1.66	0.5	14	109	1065	2.55	< 10	< 1	0.73	10	1.02	185	8
H563529	299	229	1.2	1.57	< 2	340	< 0.5	6	1.70	0.5	17	90	2250	2.13	< 10	< 1	0.75	20	0.95	190	34
H563530	299	229	1.4	0.75	14	80	< 0.5	< 2	2.33	0.5	16	112	1670	1.52	< 10	< 1	0.21	10	0.73	310	110
H563531	299	229	1.4	1.16	6	280	< 0.5	< 2	2.86	1.0	19	110	1730	1.98	< 10	< 1	0.39	10	1.04	260	81
H563532	299	229	0.8	1.75	2	280	< 0.5	< 2	2.48	0.5	22	110	1650	2.46	< 10	< 1	0.53	20	0.72	250	49
H563533	299	229	2.2	1.33	44	70	< 0.5	< 2	2.66	2.0	14	112	1520	2.04	< 10	< 1	0.27	20	0.52	255	193
H563534	299	229	1.4	1.97	2	130	< 0.5	2	2.78	< 0.5	23	97	2600	2.08	< 10	< 1	0.82	20	1.03	215	42

CERTIFICATION: Stuart Buchler

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Project : CASINO 93/149
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Total Pages : 6
Certificate Date: 14-MAY-93
Invoice No. : I9313975
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563495	299	229	0.01	3	420	12	2	9	93	0.01	< 10	< 10	51	20	22
H563496	299	229	0.02	4	440	8	2	6	210	< 0.01	< 10	< 10	37	20	20
H563497	299	229	0.02	2	420	10	2	8	339	0.02	< 10	< 10	44	10	18
H563498	299	229	0.02	2	400	8	2	7	223	0.01	< 10	< 10	36	10	16
H563499	299	229	0.01	3	440	8	2	4	92	< 0.01	< 10	< 10	21	20	14
H563500	299	229	0.02	4	390	14	< 2	7	99	0.03	< 10	< 10	47	20	18
H563501	299	229	0.03	2	420	4	< 2	8	80	0.03	< 10	< 10	46	20	16
H563502	299	229	0.01	4	400	4	4	7	39	0.02	< 10	< 10	40	20	14
H563503	299	229	0.03	4	440	12	< 2	9	114	0.06	< 10	< 10	58	20	18
H563504	299	229	0.04	4	360	8	< 2	8	109	0.06	< 10	< 10	58	< 10	18
H563505	299	229	0.04	4	430	6	< 2	10	236	0.08	< 10	< 10	62	< 10	20
H563506	299	229	0.04	4	450	6	< 2	9	177	0.07	< 10	< 10	64	10	22
H563507	299	229	0.04	4	460	4	< 2	9	146	0.06	< 10	< 10	59	10	20
H563508	299	229	0.02	4	390	4	2	8	124	0.03	< 10	< 10	49	10	20
H563509	299	229	0.02	2	440	12	< 2	10	247	0.04	< 10	< 10	59	10	26
H563510	299	229	0.01	4	460	10	4	7	23	0.01	< 10	< 10	40	< 10	32
H563511	299	229	< 0.01	4	550	12	6	6	21	< 0.01	< 10	< 10	31	10	26
H563512	299	229	< 0.01	4	530	10	2	12	22	0.01	< 10	< 10	53	10	30
H563513	299	229	0.03	3	520	10	< 2	11	166	0.07	< 10	< 10	70	10	22
H563514	299	229	0.03	3	410	12	< 2	10	73	0.06	< 10	< 10	60	< 10	56
H563515	299	229	0.07	3	460	12	< 2	11	105	0.11	< 10	< 10	75	< 10	34
H563516	299	229	0.02	3	560	6	< 2	10	94	0.03	< 10	< 10	58	< 10	28
H563517	299	229	0.01	6	460	16	2	11	61	0.03	< 10	< 10	61	10	26
H563518	299	229	< 0.01	4	390	18	8	8	21	< 0.01	< 10	< 10	41	< 10	30
H563519	299	229	< 0.01	4	360	792	182	7	20	< 0.01	< 10	< 10	31	10	1870
H563520	299	229	< 0.01	9	120	>10000	5240	1	19	< 0.01	< 10	< 10	8	100	>10000
H563521	299	229	< 0.01	5	280	>10000	2160	2	26	< 0.01	< 10	< 10	11	40	>10000
H563522	299	229	< 0.01	3	360	1485	152	3	27	< 0.01	< 10	< 10	17	20	2900
H563523	299	229	< 0.01	4	770	190	48	6	28	< 0.01	< 10	< 10	32	10	480
H563524	299	229	< 0.01	4	410	200	38	7	29	< 0.01	< 10	< 10	33	10	872
H563525	299	229	0.02	3	560	30	8	10	110	0.07	< 10	< 10	62	10	44
H563526	299	229	< 0.01	3	490	60	10	10	26	0.01	< 10	< 10	52	10	136
H563527	299	229	0.01	3	430	1355	26	8	79	0.02	< 10	< 10	44	20	2860
H563528	299	229	0.06	3	450	16	< 2	11	94	0.11	< 10	< 10	74	10	38
H563529	299	229	0.03	4	480	20	2	11	119	0.10	< 10	< 10	70	10	38
H563530	299	229	< 0.01	3	400	26	8	7	26	< 0.01	< 10	< 10	33	< 10	54
H563531	299	229	0.01	3	420	26	4	11	39	0.03	< 10	< 10	54	10	58
H563532	299	229	0.01	6	500	18	4	11	33	0.06	< 10	< 10	66	10	28
H563533	299	229	< 0.01	3	480	72	22	8	26	< 0.01	< 10	< 10	45	10	172
H563534	299	229	0.01	4	430	12	2	10	56	0.07	< 10	< 10	69	10	18

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-MAY-93
Invoice No. : I9313975
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563535	299	229	2.6	1.49	14	210	< 0.5	16	2.54	< 0.5	30	115	4860	2.21	< 10	< 1	0.57	20	0.83	210	104
H563536	299	229	3.8	0.96	30	210	< 0.5	12	5.09	0.5	31	78	5590	2.40	< 10	< 1	0.29	20	0.47	395	122
H563537	299	229	1.4	1.28	10	190	< 0.5	6	2.81	< 0.5	25	106	3140	1.98	< 10	< 1	0.53	10	0.64	230	54
H563538	299	229	1.6	2.15	2	310	< 0.5	12	1.90	< 0.5	15	73	3940	2.41	< 10	< 1	0.78	20	1.23	150	75
H563539	299	229	2.0	1.60	2	280	< 0.5	< 2	1.88	0.5	19	128	4420	2.20	< 10	< 1	0.71	20	0.95	150	148
H563540	299	229	1.4	1.74	< 2	270	< 0.5	6	2.22	0.5	24	86	2750	2.12	< 10	1	0.65	10	0.96	150	117
H563541	299	229	0.4	1.58	12	220	< 0.5	4	1.64	< 0.5	17	102	1235	2.39	< 10	< 1	0.73	10	1.05	115	26
H563542	299	229	0.8	1.73	2	150	< 0.5	< 2	1.96	< 0.5	23	127	1925	2.47	10	< 1	0.79	40	1.02	130	30
H563543	299	229	0.8	1.55	< 2	180	< 0.5	4	1.68	< 0.5	16	158	2090	2.38	< 10	< 1	0.81	20	1.05	100	89
H563544	299	229	1.0	1.48	< 2	340	< 0.5	6	2.55	0.5	16	121	2030	2.07	< 10	< 1	0.64	20	0.77	145	52
H563545	299	229	2.6	1.50	12	230	< 0.5	10	1.85	1.0	18	142	2620	2.37	< 10	< 1	0.80	20	0.88	205	115
H563546	299	229	1.8	1.70	2	360	< 0.5	4	2.01	1.0	18	121	2050	2.65	< 10	< 1	0.86	10	0.93	285	15
H563547	299	229	1.2	1.70	6	240	< 0.5	8	2.11	2.0	16	143	1595	2.56	< 10	< 1	0.82	20	1.00	255	36
H563548	299	229	1.8	1.63	4	170	< 0.5	2	1.83	0.5	20	119	2240	2.47	< 10	< 1	0.71	10	0.95	275	81
H563549	299	229	1.2	1.80	< 2	260	< 0.5	4	1.73	< 0.5	16	116	2580	2.05	< 10	< 1	0.96	20	1.10	100	146
H563550	299	229	1.2	1.55	2	190	< 0.5	6	2.68	< 0.5	21	112	2450	2.54	< 10	< 1	0.76	10	1.07	110	50
H563551	299	229	3.6	1.88	6	110	< 0.5	12	2.76	8.0	15	131	2050	3.22	< 10	< 1	0.59	20	0.96	305	48
H563552	299	229	0.2	1.63	< 2	190	< 0.5	4	1.74	< 0.5	17	111	865	2.36	< 10	< 1	0.93	20	1.13	105	41
H563553	299	229	1.6	1.55	8	140	< 0.5	4	1.49	< 0.5	22	129	1915	2.53	< 10	< 1	0.82	10	1.05	170	47
H563554	299	229	1.2	1.78	< 2	230	< 0.5	8	2.23	0.5	20	134	1280	2.55	< 10	< 1	0.86	20	1.01	150	47
H563555	299	229	1.6	1.81	< 2	300	< 0.5	8	2.49	0.5	24	144	3040	2.50	< 10	< 1	0.86	20	1.11	170	50
H563556	299	229	1.2	1.80	2	240	< 0.5	4	1.33	0.5	24	131	2170	2.22	< 10	< 1	0.86	10	1.28	195	52
H563557	299	229	2.8	1.88	6	210	< 0.5	10	2.02	0.5	16	139	3560	1.94	< 10	< 1	0.73	20	1.22	285	176
H563558	299	229	1.4	1.72	< 2	180	< 0.5	6	1.27	0.5	29	127	2700	2.38	< 10	< 1	0.81	10	1.21	145	50
H563559	299	229	1.2	1.90	< 2	350	< 0.5	2	1.69	0.5	19	164	1780	2.22	< 10	< 1	0.84	10	1.27	165	105
H563560	299	229	3.2	1.83	4	320	< 0.5	8	2.22	4.5	13	134	1900	2.12	< 10	< 1	0.77	20	1.13	185	55
H563561	299	229	1.2	1.70	2	270	< 0.5	4	1.83	< 0.5	18	130	1840	2.38	< 10	< 1	0.85	10	1.26	145	135
H563562	299	229	1.0	1.74	< 2	290	< 0.5	2	1.25	< 0.5	15	143	2320	2.10	< 10	< 1	0.95	10	1.31	95	53
H563563	299	229	0.6	1.77	4	300	< 0.5	4	1.28	< 0.5	13	150	1020	2.35	< 10	< 1	1.00	10	1.35	130	24
H563564	299	229	1.4	1.76	< 2	250	< 0.5	2	1.61	0.5	13	111	2290	1.56	< 10	< 1	0.81	10	1.22	135	80
H563565	299	229	2.4	1.54	4	190	< 0.5	12	1.42	0.5	14	135	1940	2.15	< 10	< 1	0.73	10	1.17	240	109
H563566	299	229	3.0	1.76	8	140	< 0.5	2	1.58	2.0	15	104	1290	2.60	< 10	< 1	0.69	10	1.22	695	75
H563567	299	229	2.6	1.73	12	150	< 0.5	< 2	1.67	2.0	17	142	1145	2.44	< 10	< 1	0.61	10	1.10	875	35
H563568	299	229	6.0	1.84	22	80	< 0.5	16	1.55	4.0	14	96	2020	2.91	< 10	< 1	0.65	< 10	0.88	925	44
H563569	299	229	1.0	1.72	< 2	240	< 0.5	4	1.34	0.5	21	122	1615	2.47	< 10	< 1	0.97	10	1.28	185	28
H563570	299	229	1.4	1.68	14	150	< 0.5	6	1.22	< 0.5	31	129	1185	2.91	< 10	< 1	0.77	10	1.21	210	39
H563571	299	229	1.2	1.70	2	190	< 0.5	8	1.20	< 0.5	28	123	1640	2.95	< 10	< 1	0.82	10	1.22	170	102
H563572	299	229	3.4	2.02	4	160	< 0.5	4	2.11	1.5	11	120	1440	2.27	10	< 1	0.64	30	1.04	300	59
H563573	299	229	3.6	1.89	12	170	< 0.5	12	1.13	2.5	24	137	1945	2.89	< 10	< 1	0.73	20	1.31	335	34
H563574	299	229	0.8	1.77	10	270	< 0.5	8	1.03	< 0.5	14	109	1185	2.55	< 10	< 1	0.89	< 10	1.29	155	24

CERTIFICATION: Ian Bucher

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A563535	299	229	0.01	5	310	12	< 2	10	45	0.04	< 10	< 10	62	10	26
A563536	299	229	0.01	6	290	8	< 2	10	51	0.01	< 10	< 10	51	20	38
A563537	299	229	0.01	4	410	8	< 2	8	53	0.04	< 10	< 10	50	10	22
A563538	299	229	0.02	4	470	12	4	10	79	0.06	< 10	< 10	71	10	20
A563539	299	229	0.02	4	430	14	< 2	10	44	0.08	< 10	< 10	68	10	22
A563540	299	229	0.02	3	350	8	< 2	8	117	0.04	< 10	< 10	56	10	34
A563541	299	229	0.04	3	420	8	< 2	10	89	0.09	< 10	< 10	70	10	22
A563542	299	229	0.03	4	400	14	< 2	9	110	0.08	< 10	< 10	64	10	22
A563543	299	229	0.06	3	460	12	< 2	10	80	0.10	< 10	< 10	76	10	24
A563544	299	229	0.03	4	440	20	< 2	8	100	0.06	< 10	< 10	59	10	30
A563545	299	229	0.03	4	430	72	< 2	10	83	0.08	< 10	< 10	68	10	124
A563546	299	229	0.04	4	480	18	< 2	11	136	0.10	< 10	< 10	73	10	100
A563547	299	229	0.05	4	490	42	< 2	10	110	0.09	< 10	< 10	71	10	126
A563548	299	229	0.03	4	450	20	< 2	9	71	0.06	< 10	< 10	64	10	54
A563549	299	229	0.04	4	380	8	2	12	72	0.11	< 10	< 10	81	10	18
A563550	299	229	0.03	4	410	4	< 2	11	130	0.09	< 10	< 10	70	10	16
A563551	299	229	0.02	4	400	260	< 2	9	85	0.06	< 10	< 10	58	10	468
A563552	299	229	0.06	4	460	8	< 2	11	75	0.13	< 10	< 10	79	20	16
A563553	299	229	0.06	4	410	34	< 2	10	63	0.11	< 10	< 10	74	10	36
A563554	299	229	0.05	2	480	24	< 2	11	80	0.11	< 10	< 10	72	10	34
A563555	299	229	0.05	3	410	20	< 2	10	87	0.09	< 10	< 10	71	10	44
A563556	299	229	0.06	4	470	18	< 2	11	59	0.10	< 10	< 10	79	10	50
A563557	299	229	0.04	4	420	62	2	9	67	0.06	< 10	< 10	68	10	92
A563558	299	229	0.06	4	450	20	2	10	58	0.11	< 10	< 10	81	10	50
A563559	299	229	0.07	5	440	14	< 2	11	63	0.12	< 10	< 10	83	10	38
A563560	299	229	0.06	4	490	128	< 2	10	72	0.10	< 10	< 10	74	10	424
A563561	299	229	0.07	3	480	16	< 2	12	56	0.16	< 10	< 10	93	10	36
A563562	299	229	0.07	4	450	2	< 2	12	56	0.15	< 10	< 10	93	10	18
A563563	299	229	0.08	4	490	14	< 2	13	50	0.17	< 10	< 10	100	10	46
A563564	299	229	0.06	4	450	18	< 2	10	57	0.07	< 10	< 10	80	10	48
A563565	299	229	0.07	5	450	16	< 2	10	49	0.10	< 10	< 10	76	10	70
A563566	299	229	0.09	3	510	34	< 2	10	56	0.09	< 10	< 10	76	10	212
A563567	299	229	0.09	4	470	56	4	8	60	0.06	< 10	< 10	64	10	202
A563568	299	229	0.08	3	470	148	2	6	73	0.06	< 10	< 10	50	20	298
A563569	299	229	0.08	3	500	8	< 2	13	85	0.16	< 10	< 10	94	10	42
A563570	299	229	0.07	4	490	16	< 2	11	40	0.15	< 10	< 10	86	10	40
A563571	299	229	0.08	3	490	8	< 2	12	54	0.14	< 10	< 10	91	10	36
A563572	299	229	0.05	3	480	44	2	9	62	0.04	< 10	< 10	66	10	152
A563573	299	229	0.06	4	470	20	< 2	11	53	0.12	< 10	< 10	83	10	192
A563574	299	229	0.07	2	490	12	< 2	12	47	0.17	< 10	< 10	94	10	40

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
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Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :6-A
Total Pages :6
Certificate Date: 14-MAY-93
Invoice No. :I9313975
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H563575	299	229	3.2	1.88	16	120	< 0.5	2	1.38	< 0.5	15	86	1675	3.10	10	< 1	0.81	20	1.21	205	122
H563576	299	229	1.2	1.89	24	170	< 0.5	4	1.41	< 0.5	18	103	1595	2.80	10	< 1	0.88	10	1.33	125	100
H563577	299	229	1.2	1.59	4	90	< 0.5	6	0.95	< 0.5	31	87	2380	3.57	10	< 1	0.83	< 10	1.20	105	42
H563578	299	229	1.6	1.70	10	130	< 0.5	2	1.49	< 0.5	24	119	2160	2.51	10	< 1	0.84	< 10	1.20	100	107
H563579	299	229	1.2	1.54	16	120	< 0.5	< 2	1.20	< 0.5	18	134	1295	2.57	10	< 1	0.89	10	1.19	105	87
H563580	299	229	1.4	1.66	2	100	< 0.5	2	1.17	< 0.5	17	152	1640	3.18	10	< 1	0.90	10	1.25	125	16
H563581	299	229	0.4	1.65	< 2	110	< 0.5	2	1.27	< 0.5	14	125	720	2.89	10	< 1	0.89	10	1.22	100	18
H563582	299	229	1.4	1.70	12	90	< 0.5	< 2	1.12	< 0.5	23	142	1780	3.22	10	< 1	0.92	< 10	1.24	110	46
H563583	299	229	1.8	1.74	6	160	< 0.5	8	0.93	< 0.5	25	149	2430	3.34	10	< 1	0.78	< 10	1.20	115	29
H563584	299	229	1.8	1.81	16	160	< 0.5	< 2	1.26	< 0.5	38	115	1785	3.74	10	< 1	0.74	10	1.13	135	50
H563585	299	229	2.8	2.08	14	130	< 0.5	8	1.04	< 0.5	27	141	1715	3.88	10	< 1	0.85	10	1.21	150	105
H563586	299	229	1.4	2.61	22	240	0.5	< 2	3.22	< 0.5	24	111	1165	3.14	10	< 1	0.76	10	1.16	130	45
H563587	299	229	1.4	2.25	32	170	< 0.5	2	5.16	< 0.5	26	125	1235	2.96	10	< 1	0.56	10	0.85	110	65
H563588	299	229	0.6	1.69	20	200	< 0.5	4	7.38	< 0.5	21	101	787	2.61	< 10	< 1	0.50	10	0.72	115	15
H563589	299	229	2.2	2.29	20	190	< 0.5	10	3.52	< 0.5	22	143	2370	3.28	10	< 1	0.51	10	0.79	130	25
H563590	299	229	0.6	2.30	6	240	0.5	4	5.16	< 0.5	20	120	1215	2.46	10	< 1	0.48	10	0.92	105	19
H563591	299	229	1.4	2.59	14	270	0.5	6	3.46	< 0.5	20	128	2530	2.11	10	< 1	0.64	10	0.90	80	49
H563592	299	229	0.6	2.79	14	370	< 0.5	< 2	3.30	< 0.5	17	133	952	2.53	10	< 1	0.82	10	1.12	95	13
H563593	299	229	3.4	1.88	12	220	< 0.5	22	3.11	< 0.5	38	87	7830	3.50	10	1	0.64	10	0.82	75	63
H563594	299	229	1.0	1.81	14	220	< 0.5	8	2.71	< 0.5	29	103	1870	2.72	10	< 1	0.69	10	0.91	75	53
H563595	299	229	0.8	1.55	14	100	< 0.5	2	1.47	< 0.5	23	78	1560	2.73	10	< 1	0.96	10	1.16	95	48
H563596	299	229	0.8	1.63	< 2	110	< 0.5	4	1.53	< 0.5	22	90	1365	2.74	10	< 1	0.85	10	1.17	95	27
H563597	299	229	0.8	1.57	12	150	< 0.5	< 2	1.22	< 0.5	27	99	1275	2.87	10	< 1	0.70	10	1.16	110	27
H563598	299	229	1.8	1.63	8	90	< 0.5	12	1.67	< 0.5	39	98	2440	3.25	10	< 1	0.63	10	0.83	100	18
H563599	299	229	0.8	2.48	16	180	< 0.5	2	2.04	< 0.5	42	102	1710	3.08	10	< 1	0.80	10	1.18	100	83
H563600	299	229	1.8	1.66	12	80	< 0.5	14	1.42	< 0.5	19	103	2880	2.84	10	< 1	0.95	10	1.30	100	23
H563601	299	229	0.6	1.55	16	130	< 0.5	2	1.61	< 0.5	15	120	1095	2.34	10	< 1	0.93	10	1.21	100	61
H563602	299	229	0.6	1.19	6	210	< 0.5	6	1.72	< 0.5	14	110	1335	2.11	10	< 1	0.77	20	0.89	95	48
H563603	299	229	0.6	0.94	10	130	< 0.5	4	2.68	< 0.5	18	99	1070	2.89	10	1	0.36	20	0.76	125	14
H563604	299	229	0.8	1.13	12	240	0.5	4	1.85	< 0.5	22	74	1950	2.61	10	< 1	0.55	30	0.85	110	17
H563605	299	229	0.8	1.26	2	250	< 0.5	6	1.42	< 0.5	22	71	1580	2.46	10	< 1	0.70	20	0.90	105	33
H563606	299	229	1.2	0.65	32	370	< 0.5	6	1.91	< 0.5	15	53	2380	1.80	< 10	1	0.11	20	0.59	110	118
H563607	299	229	0.8	0.75	16	100	< 0.5	4	2.56	< 0.5	18	47	1050	3.08	< 10	< 1	0.42	10	0.96	125	38
H563608	299	229	1.2	1.24	14	90	< 0.5	2	1.85	< 0.5	22	70	1615	2.99	10	< 1	0.69	20	0.93	110	52
H563609	299	229	3.2	1.15	6	80	< 0.5	16	1.75	< 0.5	20	71	2580	2.99	10	< 1	0.70	30	0.97	170	48
H563610	299	229	5.8	0.67	68	90	< 0.5	10	1.99	43.5	13	62	2310	3.09	< 10	< 1	0.27	20	0.68	230	22

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93/149
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-MAY-93
Invoice No. :I9313975
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313975

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H563575	299	229	0.09	3	620	16	2	10	70	0.11	< 10	< 10	93	20	66
H563576	299	229	0.07	4	620	4	< 2	13	59	0.15	< 10	< 10	99	10	34
H563577	299	229	0.05	3	580	12	< 2	12	54	0.16	< 10	< 10	90	10	26
H563578	299	229	0.07	3	510	6	4	12	57	0.15	< 10	< 10	91	10	32
H563579	299	229	0.09	4	550	6	2	13	59	0.19	< 10	< 10	97	10	46
H563580	299	229	0.09	5	600	6	2	12	79	0.20	< 10	< 10	99	10	44
H563581	299	229	0.09	3	580	2	2	13	47	0.20	< 10	< 10	97	10	22
H563582	299	229	0.09	4	570	< 2	< 2	13	42	0.19	< 10	< 10	101	10	30
H563583	299	229	0.08	4	540	6	< 2	12	44	0.14	< 10	< 10	93	10	34
H563584	299	229	0.06	3	440	6	< 2	10	50	0.08	< 10	< 10	89	10	30
H563585	299	229	0.07	3	600	8	4	11	48	0.12	< 10	< 10	86	10	30
H563586	299	229	0.06	3	570	6	2	11	100	0.03	< 10	< 10	72	10	24
H563587	299	229	0.05	2	450	< 2	2	8	88	0.02	< 10	< 10	56	10	18
H563588	299	229	0.04	1	420	8	< 2	7	91	0.02	< 10	< 10	49	20	14
H563589	299	229	0.05	4	500	10	< 2	8	72	0.02	< 10	< 10	57	10	26
H563590	299	229	0.06	2	470	4	< 2	8	101	0.01	< 10	< 10	57	10	14
H563591	299	229	0.06	4	430	12	< 2	9	92	0.02	< 10	< 10	65	10	14
H563592	299	229	0.08	3	500	8	< 2	11	128	0.05	< 10	< 10	78	10	14
H563593	299	229	0.06	5	450	8	< 2	9	72	0.05	< 10	< 10	69	10	24
H563594	299	229	0.06	3	540	12	< 2	9	78	0.07	< 10	< 10	70	10	14
H563595	299	229	0.07	3	540	6	< 2	13	76	0.19	< 10	< 10	93	10	16
H563596	299	229	0.09	2	540	6	2	11	102	0.18	< 10	< 10	89	10	18
H563597	299	229	0.08	3	550	4	2	11	63	0.15	< 10	< 10	85	10	24
H563598	299	229	0.06	3	540	2	< 2	8	59	0.06	< 10	< 10	66	10	34
H563599	299	229	0.08	4	530	4	< 2	11	154	0.08	< 10	< 10	80	10	18
H563600	299	229	0.08	4	560	< 2	< 2	13	77	0.19	< 10	< 10	96	10	22
H563601	299	229	0.07	3	500	2	< 2	12	63	0.17	< 10	< 10	87	10	20
H563602	299	229	0.06	3	460	< 2	2	10	61	0.11	< 10	< 10	66	10	20
H563603	299	229	0.02	3	540	4	< 2	11	98	0.03	< 10	< 10	50	10	18
H563604	299	229	0.02	3	530	6	< 2	12	46	0.07	< 10	< 10	65	10	18
H563605	299	229	0.03	3	530	< 2	< 2	12	96	0.09	< 10	< 10	69	10	16
H563606	299	229	0.01	3	610	10	2	11	60	< 0.01	< 10	< 10	44	< 10	26
H563607	299	229	0.03	2	490	8	2	7	172	0.03	< 10	< 10	36	10	30
H563608	299	229	0.04	2	560	< 2	2	10	178	0.09	< 10	< 10	65	10	26
H563609	299	229	0.04	3	560	14	2	10	256	0.10	< 10	< 10	69	10	92
H563610	299	229	0.01	2	560	490	< 2	9	52	< 0.01	< 10	< 10	42	20	4000

CERTIFICATION: Ian A. Bradley

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :5
Certificate Date: 11-MAY-93
Invoice No. :19313879
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313879

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
567861	208 274	0.06	0.032	1.03	6220
567862	208 273	0.06	0.099	1.23	12320
567863	208 276	0.04	0.045	0.51	8820
567864	208 273	0.04	0.053	0.65	11880
567865	208 276	0.02	0.033	1.37	9700
567866	208 276	0.03	0.038	1.03	10220
567867	208 273	0.03	0.042	0.89	11940
567868	208 276	0.01	0.044	0.79	11400
567869	208 276	0.01	0.027	0.65	8000
567870	208 273	0.03	0.070	0.86	12080
567871	208 276	0.05	0.041	0.65	11540
567872	208 276	0.08	0.052	0.55	11620
567873	208 276	0.03	0.044	0.65	11720
567874	208 276	0.02	0.032	0.75	10800
567875	208 276	0.02	0.030	0.86	11740
567876	208 276	0.03	0.026	1.30	11660
567877	208 276	0.03	0.042	0.96	9760
567878	208 273	0.05	0.034	0.65	12600
567879	208 276	0.08	0.033	0.72	11560
567880	208 276	0.11	0.035	0.55	11160
567881	208 276	0.10	0.053	1.37	9220
567882	208 276	0.06	0.065	0.86	8560
567883	208 273	0.09	0.084	0.48	11980
567884	208 276	0.05	0.061	0.65	10000
567885	208 274	0.03	0.042	0.65	6620
567886	208 276	0.02	0.045	1.10	7980
567887	208 276	0.02	0.035	0.65	9180
567888	208 274	0.08	0.037	0.58	12320
567889	208 273	0.10	0.067	0.69	12140
567890	208 273	0.04	0.036	0.89	12220
567891	208 276	0.11	0.043	0.69	10700
567892	208 273	0.13	0.072	0.82	12520
567893	208 276	0.07	0.058	0.58	10120
567894	208 276	0.06	0.042	0.69	8920
567895	208 274	0.02	0.074	0.96	6400
567896	208 276	0.03	0.051	0.58	10080
567897	208 274	0.08	0.064	0.86	6240
567898	208 273	0.05	0.037	0.41	12320
567899	208 273	0.10	0.055	1.23	12480
567900	208 273	0.12	0.038	0.51	11940

CERTIFICATION: A Christie

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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VANCOUVER, BC
V6B 1L8

Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-MAY-93
Invoice No. :19313879
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313879

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
567901	208	273	0.14	0.040	0.55	12560						
567902	208	273	0.10	0.044	0.48	12320						
567903	208	276	0.06	0.032	0.34	11220						
567904	208	276	0.08	0.071	0.55	11440						
567905	208	273	0.07	0.045	0.34	12760						
567906	208	276	0.10	0.063	0.45	11580						
567907	208	276	0.10	0.077	0.34	11140						
567908	208	273	0.36	0.043	1.23	11960						
567909	208	273	0.90	0.036	1.06	12120						
567910	208	276	0.63	0.043	0.86	10780						
567911	208	276	0.48	0.037	0.55	11560						
567912	208	276	0.64	0.025	0.75	9080						
567913	208	276	0.73	0.059	0.58	9660						
567914	208	273	0.51	0.048	0.38	12060						
567915	208	276	0.47	0.050	0.51	10240						
567916	208	273	0.38	0.005	0.21	13080						
567917	208	274	0.36	< 0.001	0.62	6980						
567918	208	276	0.39	0.001	0.31	10940						
567919	208	274	0.54	0.003	0.31	5860						
567920	208	274	1.16	0.001	0.55	6240						
567921	208	276	0.10	0.001	0.38	11280						
567922	208	276	0.04	< 0.001	1.34	11520						
567923	208	276	0.19	< 0.001	0.27	8480						
567924	208	276	0.45	0.038	0.34	10900						
567925	208	273	0.61	0.067	0.69	11940						
567926	208	276	0.41	0.001	0.75	11300						
567927	208	273	0.15	< 0.001	0.14	11840						
567928	208	276	0.29	0.005	0.38	11580						
567929	208	276	0.68	0.001	0.82	9600						
567930	208	274	0.64	< 0.001	0.98	4760						
567931	208	274	0.17	< 0.001	1.17	6800						
567932	208	273	0.15	0.048	0.24	11920						
567933	208	276	0.38	0.084	0.34	10520						
567934	208	276	0.37	0.055	0.34	10820						
567935	208	276	0.35	0.082	0.34	10340						
567936	208	273	0.41	0.114	0.89	12560						
567937	208	273	0.08	0.022	0.41	12700						
567938	208	276	0.10	0.006	0.27	11640						
567939	208	276	0.05	< 0.001	0.21	10320						
567940	208	276	0.06	< 0.001	0.34	10520						

CERTIFICATION: A Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-MAY-93
Invoice No. :I9313879
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313879

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
567941	208 273	0.07	< 0.001	0.31	12980
567942	208 273	0.08	< 0.001	0.38	13560
567943	208 273	0.03	< 0.001	0.24	13840
567944	208 273	0.03	0.004	0.24	12200
567945	208 273	0.10	0.027	0.14	12840
567946	208 273	0.03	0.003	0.24	13040
567947	208 273	0.07	< 0.001	0.34	13540
567948	208 273	0.03	< 0.001	0.27	13900
567949	208 276	0.03	< 0.001	0.34	9140
567950	208 276	0.16	< 0.001	0.27	11080
567951	208 276	0.13	< 0.001	0.21	10700
567952	208 273	0.04	< 0.001	0.21	13440
567953	208 273	0.07	< 0.001	0.34	14400
567954	208 273	0.07	0.001	1.23	13220
567955	208 273	0.07	< 0.001	0.55	13720
567956	208 276	0.06	< 0.001	1.03	11800
567957	208 273	0.07	< 0.001	0.34	13840
567958	208 273	0.12	< 0.001	0.79	13400
567959	208 276	0.12	< 0.001	0.21	7800
567960	208 273	0.81	< 0.001	2.50	13850
567961	208 273	0.05	0.001	0.10	13240
567962	208 273	0.07	0.001	0.10	12380
567963	208 273	0.11	< 0.001	0.14	12880
567964	208 276	0.12	< 0.001	0.07	11680
567965	208 273	0.10	0.005	0.07	14360
567966	208 273	0.08	0.009	0.10	13200
567967	208 273	0.17	0.016	0.34	13900
567968	208 273	0.23	0.023	0.41	12960
567969	208 273	0.18	0.021	0.24	13280
567970	208 273	0.34	0.028	0.48	13060
567971	208 273	0.43	0.024	0.86	12100
567972	208 273	0.37	0.030	0.38	11960
567973	208 276	0.37	0.028	0.38	8400
567974	208 276	0.70	0.026	0.41	9840
567975	208 273	0.40	0.028	0.99	13320
567976	208 273	0.51	0.045	0.48	13120
567977	208 273	0.43	0.052	0.34	12840
567978	208 276	0.45	0.035	0.34	9280
567979	208 273	0.19	0.025	0.24	14000
567980	208 273	0.10	0.041	0.21	13200

CERTIFICATION:

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Certificate Date: 11-MAY-93
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CERTIFICATE OF ANALYSIS A9313879

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
567981	208	273	0.10	0.022	0.07	12620						
567982	208	274	0.09	0.096	0.07	1268						
567983	208	273	0.28	0.080	0.38	12300						
567984	208	273	0.10	0.102	0.14	12500						
567985	208	273	0.23	0.130	0.24	12660						
567986	208	273	0.17	0.065	0.14	13260						
567987	208	273	0.11	0.264	0.14	12300						
567988	208	273	0.14	0.088	0.17	12200						
567989	208	274	0.11	0.030	0.14	6400						
567990	208	273	0.21	0.050	0.10	14000						
567991	208	273	0.32	0.081	0.21	12400						
567992	208	273	0.33	0.096	0.21	12960						
567993	208	273	0.24	0.141	0.17	12360						
567994	208	276	0.41	0.056	0.27	11400						
567995	208	273	0.24	0.038	0.17	13040						
567996	208	273	0.29	0.067	0.17	12880						
567997	208	273	0.20	0.105	0.14	13480						
567998	208	273	0.13	0.099	0.07	13760						
567999	208	273	0.15	0.250	0.10	13060						
568000	208	273	0.25	0.155	0.17	13500						
568001	208	273	0.22	0.032	0.17	12820						
568002	208	273	0.16	0.090	0.17	12140						
568003	208	273	0.30	0.125	0.31	13460						
568004	208	276	0.13	0.074	0.14	10560						
568005	208	273	0.07	0.025	0.10	13160						
568006	208	274	0.09	0.018	0.07	7040						
568007	208	273	0.09	0.028	0.14	12820						
568008	208	273	0.11	0.061	0.14	12340						
568009	208	273	0.06	0.117	0.03	11960						
568010	208	274	0.20	0.145	0.21	6920						
568011	208	273	0.17	0.140	0.21	12820						
568012	208	273	0.08	0.133	0.03	13100						
568013	208	273	0.06	0.091	0.03	13120						
568014	208	273	0.06	0.088	0.07	12540						
568015	208	273	0.06	0.079	0.03	12720						
568016	208	273	0.08	0.089	0.14	12900						
568017	208	273	0.06	0.064	0.03	12680						
568018	208	273	0.11	0.073	0.10	12160						
568019	208	273	0.14	0.071	0.10	12640						
568020	208	276	0.16	0.080	0.17	11660						

CERTIFICATION: E Christie

Chemex Labs Ltd.

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Page Number :5
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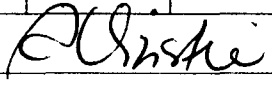
Certificate Date: 11-MAY-93
Invoice No. : I9313879
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313879

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
568021	208 276	0.12	0.088	0.14	11380
568022	208 273	0.14	0.115	0.14	12620
568023	208 273	0.11	0.102	0.10	12480
568024	208 276	0.34	0.142	0.31	11660
568025	208 276	0.26	0.094	0.31	10720
568026	208 273	0.07	0.072	0.10	12240
568027	208 273	0.06	0.059	0.03	12000
568028	208 273	0.15	0.058	0.14	14360
568029	208 274	0.33	0.131	0.34	5700
568030	208 276	0.18	0.198	0.17	7760
568031	208 273	0.19	0.108	0.21	15320
568032	208 273	0.17	0.119	0.21	14200
568033	208 273	0.18	0.137	0.17	12120
568034	208 273	0.43	0.271	0.62	12460
568035	208 273	0.07	0.156	0.07	12760
568036	208 273	0.04	0.035	< 0.03	12380
568037	208 273	0.08	0.011	0.03	12360
568038	208 273	0.08	0.038	0.07	12980
568039	208 276	0.04	0.028	0.24	11800
568040	208 273	0.03	0.074	0.03	12460
568041	208 273	0.09	0.080	0.14	12320
568042	208 273	0.10	0.096	0.03	11900
568043	208 273	0.09	0.055	0.07	13540
568044	208 273	0.04	0.003	0.07	12540
568045	208 273	0.04	0.002	0.03	13740
568046	208 276	0.06	0.024	< 0.03	11500
568047	208 273	0.03	0.037	< 0.03	12500
568048	208 276	0.02	0.133	0.03	11680

CERTIFICATION: 

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ARCHER CATHRO & ASSOC. (1981) LTD.
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510 W. HASTINGS ST., SUITE 1016
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V6B 1L8

A9313879

Comments: CC: PACIFIC SENTINEL GOLD CORP.

CERTIFICATE A9313879

ARCHER CATHRO & ASSOC. (1981) LTD.

Project: CASINO 93-150
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 11-MAY-93.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	188	Assay ring to approx 150 mesh
274	15	0-15 lb crush and split
276	65	16-25 lb crush and split
273	108	26-35 lb crush and split

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	188	Cu %: Reverse Aqua-Regia digest	AAS	0.01	100.0
307	188	MoS2: Total Mo reported as MoS2	AAS	0.001	100.00
999	188	Au g/t: 1 assay ton, AA finish	FA-AAS	0.03	500.00
449	188	Weight g	BALANCE	1	N/A

Chemex Labs Ltd.

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VANCOUVER, BC
V6B 1L8

Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page ber :1-A
Total Pages :5
Certificate Date: 14-MAY-93
Invoice No. :I9313880
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313880

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567861	299	229	4.8	0.54	68	140	0.5	< 2	0.02	< 0.5	< 1	64	611	5.09	< 10	< 1	0.58	30	0.02	30	204
567862	299	229	5.8	0.55	56	250	1.0	2	0.01	< 0.5	1	58	671	4.51	< 10	< 1	0.45	40	0.02	35	596
567863	299	229	2.0	0.57	20	390	0.5	< 2	0.01	< 0.5	1	63	433	3.02	< 10	< 1	0.35	30	0.01	35	271
567864	299	229	4.0	0.58	48	260	< 0.5	< 2	0.01	< 0.5	< 1	75	490	4.92	< 10	< 1	0.41	30	0.02	30	317
567865	299	229	9.2	0.45	156	120	1.0	< 2	0.01	< 0.5	< 1	52	231	3.72	< 10	< 1	0.85	30	0.02	20	197
567866	299	229	4.6	0.51	96	200	0.5	< 2	0.01	< 0.5	< 1	87	286	3.69	< 10	< 1	0.64	30	0.02	105	217
567867	299	229	5.8	0.48	52	280	0.5	2	0.01	< 0.5	< 1	69	339	3.22	< 10	< 1	0.45	30	0.02	100	243
567868	299	229	8.2	0.50	54	300	0.5	2	0.01	< 0.5	< 1	107	107	2.30	< 10	< 1	0.55	30	0.02	25	267
567869	299	229	6.8	0.47	76	270	0.5	2	0.01	< 0.5	< 1	74	124	2.33	< 10	< 1	0.57	30	0.02	20	172
567870	299	229	6.6	0.62	52	250	0.5	< 2	0.01	< 0.5	< 1	81	256	3.00	< 10	< 1	0.56	40	0.03	25	450
567871	299	229	4.6	0.72	36	320	0.5	< 2	0.01	< 0.5	< 1	88	526	3.42	< 10	< 1	0.57	40	0.03	90	249
567872	299	229	2.4	0.70	18	490	< 0.5	< 2	0.01	< 0.5	2	74	829	4.19	< 10	< 1	0.47	30	0.03	455	331
567873	299	229	8.8	0.45	186	140	0.5	6	0.01	< 0.5	< 1	63	256	3.91	< 10	< 1	0.78	30	0.02	60	264
567874	299	229	6.6	0.46	60	150	< 0.5	6	0.01	< 0.5	< 1	57	140	3.38	< 10	< 1	0.76	30	0.02	30	191
567875	299	229	4.8	0.45	66	140	< 0.5	4	0.01	< 0.5	< 1	56	159	3.56	< 10	< 1	0.79	30	0.02	35	186
567876	299	229	6.6	0.57	48	180	< 0.5	2	0.01	< 0.5	< 1	88	236	2.86	< 10	< 1	0.75	30	0.02	30	150
567877	299	229	10.0	0.58	60	160	1.0	8	0.01	< 0.5	< 1	78	257	3.43	< 10	< 1	0.82	30	0.02	45	252
567878	299	229	6.8	0.58	46	170	< 0.5	2	0.01	< 0.5	1	89	533	4.60	< 10	< 1	0.76	40	0.02	185	210
567879	299	229	3.8	0.57	30	280	< 0.5	< 2	0.01	< 0.5	1	76	780	3.49	< 10	< 1	0.44	30	0.03	65	188
567880	299	229	3.8	0.65	48	270	< 0.5	< 2	0.01	< 0.5	2	86	1060	4.33	< 10	< 1	0.48	30	0.03	175	206
567881	299	229	6.8	0.62	44	290	< 0.5	2	0.01	< 0.5	2	102	1035	4.86	< 10	< 1	0.53	30	0.03	135	329
567882	299	229	9.4	0.70	52	200	< 0.5	4	0.01	< 0.5	1	96	574	4.03	< 10	< 1	0.66	40	0.03	60	390
567883	299	229	4.0	0.60	34	370	< 0.5	< 2	0.01	< 0.5	3	93	870	4.42	< 10	< 1	0.46	30	0.03	185	523
567884	299	229	7.8	0.75	46	210	< 0.5	4	0.01	< 0.5	2	101	514	4.06	< 10	< 1	0.62	30	0.03	60	383
567885	299	229	8.8	0.61	52	130	< 0.5	4	0.01	< 0.5	< 1	82	250	5.06	< 10	< 1	0.97	30	0.02	30	252
567886	299	229	15.4	0.56	142	140	< 0.5	30	0.01	< 0.5	< 1	70	182	3.54	10	< 1	0.52	40	0.02	20	269
567887	299	229	9.0	0.49	74	170	< 0.5	12	0.01	< 0.5	< 1	70	205	2.43	< 10	< 1	0.45	30	0.02	15	201
567888	299	229	5.6	0.62	64	130	< 0.5	2	0.01	< 0.5	2	69	804	3.81	< 10	< 1	0.40	30	0.02	65	231
567889	299	229	8.4	0.73	236	180	< 0.5	2	0.01	< 0.5	2	76	1005	4.68	< 10	< 1	0.52	40	0.02	75	416
567890	299	229	8.2	0.72	362	120	< 0.5	6	0.01	0.5	< 1	88	396	3.56	< 10	< 1	0.62	40	0.02	30	222
567891	299	229	4.8	0.99	152	220	< 0.5	< 2	0.02	< 0.5	2	90	1040	4.32	< 10	< 1	0.53	30	0.03	50	265
567892	299	229	4.2	0.98	66	240	< 0.5	< 2	0.01	0.5	4	88	1275	5.19	< 10	< 1	0.44	50	0.04	70	449
567893	299	229	7.4	0.82	58	110	< 0.5	2	0.01	< 0.5	1	92	679	4.58	< 10	< 1	0.74	40	0.03	30	343
567894	299	229	8.4	0.77	74	140	< 0.5	20	0.01	< 0.5	< 1	94	542	4.55	< 10	< 1	0.81	30	0.03	20	233
567895	299	229	8.6	0.64	30	150	< 0.5	4	0.01	< 0.5	1	94	168	2.82	< 10	< 1	0.67	40	0.03	15	425
567896	299	229	8.6	0.71	40	170	< 0.5	6	0.01	< 0.5	2	129	287	3.22	< 10	< 1	0.73	40	0.04	25	334
567897	299	229	7.4	0.72	16	210	< 0.5	2	0.01	< 0.5	3	94	829	3.59	< 10	< 1	0.42	40	0.03	75	410
567898	299	229	5.8	0.68	22	130	< 0.5	10	0.01	< 0.5	3	137	460	3.70	< 10	< 1	0.68	20	0.03	35	239
567899	299	229	5.4	0.80	18	260	< 0.5	2	0.01	< 0.5	4	162	1005	4.44	< 10	< 1	0.55	20	0.03	65	365
567900	299	229	3.8	0.74	32	90	< 0.5	4	0.01	< 0.5	6	130	1190	4.29	< 10	< 1	0.39	20	0.03	90	248

CERTIFICATION: Stuart Buchler

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Project : CASINO 93-150
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Certificate Date: 14-MAY-93
Invoice No. :I9313880
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CERTIFICATE OF ANALYSIS A9313880

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567861	299	229	0.02	< 1	580	120	4	1	21	< 0.01	< 10	< 10	11	< 10	74
567862	299	229	0.01	1	600	42	8	1	16	< 0.01	< 10	< 10	9	< 10	148
567863	299	229	0.01	3	430	30	2	< 1	14	< 0.01	< 10	< 10	9	< 10	126
567864	299	229	0.01	1	500	68	2	1	14	< 0.01	< 10	< 10	16	10	198
567865	299	229	0.01	< 1	550	2870	2	< 1	17	< 0.01	< 10	< 10	2	< 10	32
567866	299	229	0.01	1	400	454	2	< 1	18	< 0.01	< 10	< 10	6	< 10	106
567867	299	229	0.01	1	390	306	4	< 1	14	< 0.01	< 10	< 10	8	< 10	94
567868	299	229	0.01	1	450	1285	4	< 1	13	< 0.01	< 10	< 10	1	< 10	34
567869	299	229	0.01	< 1	400	456	4	< 1	17	< 0.01	< 10	< 10	3	< 10	26
567870	299	229	0.01	< 1	420	152	4	1	17	< 0.01	< 10	< 10	4	< 10	44
567871	299	229	0.01	< 1	370	486	2	1	14	< 0.01	< 10	< 10	11	< 10	80
567872	299	229	0.01	2	410	40	2	1	13	< 0.01	< 10	< 10	16	< 10	124
567873	299	229	0.01	< 1	310	170	16	1	16	< 0.01	< 10	< 10	5	< 10	42
567874	299	229	0.01	1	300	70	2	< 1	20	< 0.01	< 10	< 10	3	< 10	46
567875	299	229	0.01	1	330	74	2	< 1	21	< 0.01	< 10	< 10	3	< 10	38
567876	299	229	0.01	1	330	66	2	1	23	< 0.01	< 10	< 10	6	< 10	24
567877	299	229	0.01	< 1	350	156	2	< 1	20	< 0.01	< 10	< 10	2	< 10	36
567878	299	229	0.02	1	430	78	2	1	21	< 0.01	< 10	< 10	8	< 10	78
567879	299	229	0.01	1	390	38	4	1	14	< 0.01	< 10	< 10	11	< 10	82
567880	299	229	0.01	1	460	26	2	1	17	< 0.01	< 10	< 10	14	< 10	94
567881	299	229	0.01	1	400	22	2	1	16	< 0.01	< 10	< 10	12	10	86
567882	299	229	0.01	2	410	114	4	1	18	< 0.01	< 10	< 10	9	< 10	116
567883	299	229	0.01	2	380	30	4	1	13	< 0.01	< 10	< 10	8	10	194
567884	299	229	0.01	2	380	48	4	1	17	< 0.01	< 10	< 10	7	< 10	190
567885	299	229	0.02	1	440	46	4	1	28	< 0.01	< 10	< 10	3	< 10	246
567886	299	229	0.01	1	470	332	12	1	29	< 0.01	< 10	< 10	3	< 10	120
567887	299	229	0.01	1	370	70	6	< 1	20	< 0.01	< 10	< 10	2	< 10	42
567888	299	229	0.01	3	460	60	14	1	12	< 0.01	< 10	< 10	10	< 10	156
567889	299	229	0.01	3	650	24	20	1	20	< 0.01	< 10	< 10	13	< 10	142
567890	299	229	0.01	2	370	92	16	1	18	< 0.01	< 10	< 10	4	< 10	42
567891	299	229	0.01	3	620	48	10	1	22	< 0.01	< 10	< 10	13	< 10	174
567892	299	229	0.01	4	510	24	6	1	11	< 0.01	< 10	< 10	10	20	320
567893	299	229	0.01	1	600	170	6	1	20	< 0.01	< 10	< 10	5	< 10	114
567894	299	229	0.02	2	520	118	4	1	19	< 0.01	< 10	< 10	4	< 10	46
567895	299	229	0.01	1	370	102	4	< 1	24	< 0.01	< 10	< 10	< 1	< 10	40
567896	299	229	0.01	2	440	128	6	1	20	< 0.01	< 10	< 10	2	< 10	66
567897	299	229	0.01	3	430	76	2	1	9	< 0.01	< 10	< 10	9	10	172
567898	299	229	0.02	3	360	156	2	< 1	15	< 0.01	< 10	< 10	6	< 10	126
567899	299	229	0.01	4	390	24	2	1	12	< 0.01	< 10	< 10	14	10	192
567900	299	229	0.01	4	340	26	4	1	9	< 0.01	< 10	< 10	13	10	172

CERTIFICATION: Ian Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
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Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9313880

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567901	299	229	36.8	0.75	320	90	< 0.5	< 2	0.01	1.5	6	83	1415	4.46	< 10	< 1	0.57	20	0.02	55	254
567902	299	229	6.4	0.66	32	180	< 0.5	< 2	0.01	0.5	3	102	1020	4.06	< 10	< 1	0.55	30	0.03	65	303
567903	299	229	4.8	0.64	22	90	< 0.5	< 2	0.01	< 0.5	3	109	596	3.00	< 10	< 1	0.63	20	0.03	35	213
567904	299	229	7.6	0.64	40	60	< 0.5	< 2	0.01	< 0.5	5	88	803	2.91	< 10	< 1	0.47	20	0.02	60	431
567905	299	229	21.0	0.58	252	60	< 0.5	6	0.01	1.5	3	109	765	2.47	< 10	7	0.41	20	0.03	15	294
567906	299	229	9.0	0.48	542	40	< 0.5	6	0.01	2.5	6	59	1155	3.16	< 10	6	0.31	10	0.02	10	394
567907	299	229	44.4	0.80	1355	40	< 0.5	6	0.02	5.0	1	89	1110	3.30	< 10	13	0.39	20	0.02	10	491
567908	299	229	12.4	0.62	164	50	< 0.5	< 2	0.02	1.0	13	86	3940	2.98	< 10	1	0.39	20	0.03	15	283
567909	299	229	11.2	0.89	30	60	< 0.5	< 2	0.01	0.5	10	113	>10000	3.28	< 10	< 1	0.32	30	0.04	20	250
567910	299	229	6.8	1.35	16	40	< 0.5	< 2	0.03	< 0.5	12	91	6880	3.49	< 10	< 1	0.34	20	0.08	35	277
567911	299	229	5.2	1.30	8	70	< 0.5	< 2	0.05	< 0.5	12	126	5020	2.20	< 10	< 1	0.37	30	0.08	50	225
567912	299	229	5.8	1.07	26	40	< 0.5	< 2	0.06	< 0.5	9	110	6910	3.20	< 10	< 1	0.37	30	0.10	100	161
567913	299	229	9.8	0.83	14	30	< 0.5	< 2	0.04	< 0.5	22	74	8290	3.56	< 10	< 1	0.26	20	0.04	25	387
567914	299	229	8.8	0.67	6	30	< 0.5	< 2	0.05	< 0.5	12	72	5380	3.15	< 10	< 1	0.26	20	0.03	30	310
567915	299	229	7.0	0.63	8	20	< 0.5	< 2	0.03	< 0.5	15	45	5160	3.64	< 10	< 1	0.18	20	0.02	20	337
567916	299	229	2.8	1.06	20	40	< 0.5	< 2	0.21	1.5	9	34	4190	2.92	< 10	< 1	0.33	20	0.07	230	33
567917	299	229	1.8	1.31	16	60	< 0.5	< 2	0.38	2.0	14	60	3860	3.63	10	< 1	0.42	20	0.12	600	3
567918	299	229	1.6	1.21	18	110	< 0.5	< 2	0.35	6.5	19	40	4190	3.60	10	< 1	0.40	30	0.09	870	4
567919	299	229	1.0	1.24	22	70	< 0.5	< 2	0.20	1.0	11	46	5700	2.64	< 10	< 1	0.43	20	0.04	300	22
567920	299	229	5.0	1.72	46	20	< 0.5	< 2	0.17	5.5	8	43	>10000	3.85	< 10	< 1	0.47	20	0.06	135	5
567921	299	229	1.4	0.63	38	120	0.5	< 2	1.17	16.5	17	36	1020	2.84	10	< 1	0.37	20	0.24	1020	6
567922	299	229	1.8	0.47	16	60	< 0.5	2	2.75	7.5	12	36	380	2.13	10	< 1	0.31	< 10	0.19	915	3
567923	299	229	1.6	0.70	8	100	< 0.5	< 2	1.15	3.5	16	30	2000	2.88	10	< 1	0.34	10	0.15	885	2
567924	299	229	4.2	1.14	34	30	0.5	< 2	0.28	2.0	19	37	4940	4.04	10	< 1	0.39	20	0.07	465	222
567925	299	229	6.6	1.13	12	30	< 0.5	< 2	0.15	2.0	19	66	6370	3.33	10	< 1	0.36	20	0.08	285	386
567926	299	229	2.2	1.04	22	40	< 0.5	< 2	0.36	5.5	17	43	4280	4.92	< 10	< 1	0.37	20	0.09	755	3
567927	299	229	1.6	0.61	26	70	< 0.5	< 2	0.74	4.0	19	39	1575	3.93	< 10	< 1	0.33	10	0.23	1090	3
567928	299	229	1.4	1.13	18	40	< 0.5	< 2	0.49	1.0	12	34	3130	3.88	< 10	< 1	0.36	10	0.16	450	32
567929	299	229	2.4	1.57	26	20	< 0.5	< 2	0.21	0.5	8	27	7030	3.50	< 10	< 1	0.33	10	0.05	120	7
567930	299	229	2.8	1.57	28	20	< 0.5	< 2	0.21	< 0.5	8	32	7200	3.95	< 10	< 1	0.36	10	0.04	55	4
567931	299	229	2.4	0.73	20	30	< 0.5	< 2	1.13	1.5	13	39	1945	3.81	< 10	< 1	0.37	10	0.24	600	2
567932	299	229	2.2	0.45	12	40	< 0.5	2	1.30	0.5	12	44	1425	2.77	10	< 1	0.22	10	0.25	435	276
567933	299	229	4.0	1.40	< 2	40	< 0.5	< 2	0.21	0.5	25	55	3890	4.14	< 10	< 1	0.27	20	0.55	410	461
567934	299	229	3.0	1.64	4	70	< 0.5	< 2	0.22	0.5	19	63	3740	3.87	< 10	< 1	0.32	20	0.63	325	329
567935	299	229	3.0	1.21	4	50	< 0.5	< 2	0.22	1.0	19	59	3680	3.31	< 10	< 1	0.23	20	0.41	410	484
567936	299	229	4.2	1.10	< 2	70	< 0.5	< 2	0.18	1.5	23	76	4080	3.47	< 10	< 1	0.33	20	0.26	320	640
567937	299	229	2.0	0.79	10	110	< 0.5	4	1.86	0.5	12	60	891	2.51	10	< 1	0.36	20	0.32	475	131
567938	299	229	1.8	0.78	4	170	< 0.5	12	1.84	3.0	12	48	1065	2.15	10	< 1	0.39	10	0.36	555	37
567939	299	229	0.8	1.01	< 2	180	< 0.5	< 2	2.17	5.0	7	42	425	1.75	10	< 1	0.38	10	0.46	570	2
567940	299	229	1.4	0.97	2	230	< 0.5	< 2	2.00	3.5	10	37	533	2.10	10	< 1	0.34	10	0.45	585	2

CERTIFICATION: Ivan Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567901	299	229	0.01	3	450	702	18	1	19	< 0.01	< 10	< 10	9	< 10	192
567902	299	229	0.01	3	380	48	4	1	15	< 0.01	< 10	< 10	6	< 10	178
567903	299	229	0.01	2	280	26	2	< 1	18	< 0.01	< 10	< 10	2	< 10	58
567904	299	229	0.01	4	260	16	2	< 1	14	< 0.01	< 10	< 10	< 1	< 10	64
567905	299	229	< 0.01	3	310	368	22	1	26	< 0.01	< 10	< 10	< 1	< 10	44
567906	299	229	< 0.01	3	240	124	18	1	18	< 0.01	< 10	< 10	< 1	< 10	54
567907	299	229	< 0.01	2	1320	1425	92	2	51	< 0.01	< 10	< 10	4	10	40
567908	299	229	< 0.01	5	410	82	6	1	33	< 0.01	< 10	< 10	3	< 10	62
567909	299	229	< 0.01	6	230	40	2	1	19	< 0.01	< 10	< 10	4	< 10	78
567910	299	229	< 0.01	7	420	34	< 2	2	14	< 0.01	< 10	< 10	11	< 10	100
567911	299	229	< 0.01	7	480	24	< 2	2	7	< 0.01	< 10	< 10	11	< 10	102
567912	299	229	< 0.01	7	370	12	2	1	9	< 0.01	< 10	< 10	11	< 10	102
567913	299	229	< 0.01	8	330	30	4	1	6	< 0.01	< 10	< 10	3	< 10	98
567914	299	229	< 0.01	6	270	18	2	< 1	4	< 0.01	< 10	< 10	< 1	< 10	86
567915	299	229	< 0.01	6	320	46	2	1	12	< 0.01	< 10	< 10	< 1	< 10	100
567916	299	229	< 0.01	5	760	48	2	1	14	< 0.01	< 10	< 10	3	< 10	160
567917	299	229	0.01	7	760	26	< 2	1	10	< 0.01	< 10	< 10	5	< 10	340
567918	299	229	< 0.01	7	780	28	< 2	1	10	< 0.01	< 10	< 10	4	< 10	824
567919	299	229	< 0.01	7	790	44	2	1	9	< 0.01	< 10	< 10	4	< 10	218
567920	299	229	< 0.01	8	800	86	16	1	11	< 0.01	< 10	< 10	6	< 10	658
567921	299	229	< 0.01	4	750	20	< 2	1	21	< 0.01	< 10	< 10	3	< 10	2240
567922	299	229	0.01	3	760	8	< 2	1	38	< 0.01	< 10	< 10	4	< 10	1055
567923	299	229	< 0.01	5	750	14	2	1	18	< 0.01	< 10	< 10	5	< 10	458
567924	299	229	< 0.01	9	710	26	4	1	11	< 0.01	< 10	< 10	3	< 10	198
567925	299	229	< 0.01	9	460	20	2	1	10	< 0.01	< 10	< 10	4	< 10	278
567926	299	229	< 0.01	7	700	48	< 2	1	9	< 0.01	< 10	< 10	2	< 10	698
567927	299	229	< 0.01	4	710	36	8	1	12	< 0.01	< 10	< 10	1	< 10	448
567928	299	229	< 0.01	7	740	28	< 2	1	12	< 0.01	< 10	< 10	3	< 10	148
567929	299	229	< 0.01	11	760	42	< 2	1	9	< 0.01	< 10	< 10	3	< 10	132
567930	299	229	< 0.01	11	780	28	< 2	1	10	< 0.01	< 10	< 10	4	< 10	84
567931	299	229	< 0.01	5	740	20	< 2	1	19	< 0.01	< 10	< 10	2	< 10	130
567932	299	229	< 0.01	5	610	6	2	1	18	< 0.01	< 10	< 10	< 1	< 10	96
567933	299	229	< 0.01	10	510	4	2	1	9	< 0.01	< 10	< 10	8	< 10	118
567934	299	229	0.01	13	480	10	2	1	10	< 0.01	< 10	< 10	12	< 10	108
567935	299	229	0.01	9	340	6	2	1	9	< 0.01	< 10	< 10	8	< 10	114
567936	299	229	0.01	10	290	8	2	2	10	< 0.01	< 10	< 10	4	< 10	112
567937	299	229	0.02	6	680	4	< 2	1	33	< 0.01	< 10	< 10	7	< 10	164
567938	299	229	0.01	4	680	10	< 2	1	36	< 0.01	< 10	< 10	6	< 10	462
567939	299	229	0.02	4	700	8	< 2	1	50	< 0.01	< 10	< 10	8	< 10	734
567940	299	229	0.02	3	720	14	< 2	1	56	< 0.01	< 10	< 10	8	< 10	506

CERTIFICATION: Ian Pitcher

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567941	299	229	2.0	0.60	6	120	< 0.5	10	2.29	0.5	5	45	631	1.91	10	< 1	0.29	< 10	0.31	430	2
567942	299	229	2.0	0.66	32	60	< 0.5	4	2.02	0.5	11	48	762	2.80	10	< 1	0.30	< 10	0.28	545	1
567943	299	229	1.6	0.69	14	110	< 0.5	2	2.36	0.5	5	38	304	1.85	10	< 1	0.24	< 10	0.36	360	1
567944	299	229	1.4	0.61	24	70	0.5	4	2.58	< 0.5	5	46	321	2.09	10	< 1	0.25	< 10	0.32	320	23
567945	299	229	2.8	0.45	16	20	0.5	10	2.15	< 0.5	10	52	963	4.11	10	< 1	0.23	< 10	0.11	345	142
567946	299	229	1.4	0.88	2	80	0.5	< 2	2.42	< 0.5	7	28	315	1.82	10	< 1	0.20	10	0.45	395	14
567947	299	229	3.0	0.53	18	60	0.5	26	3.60	0.5	5	42	635	1.92	20	< 1	0.19	< 10	0.19	415	1
567948	299	229	1.8	0.77	14	100	1.0	4	2.57	< 0.5	4	59	313	1.99	20	< 1	0.27	< 10	0.43	375	2
567949	299	229	2.0	0.73	4	80	1.0	4	2.80	< 0.5	4	34	272	1.44	20	< 1	0.22	< 10	0.42	345	2
567950	299	229	3.0	0.94	18	40	< 0.5	24	2.49	< 0.5	4	51	1735	2.20	10	< 1	0.30	10	0.42	340	2
567951	299	229	3.0	0.98	12	90	< 0.5	16	2.72	< 0.5	4	49	1370	1.99	10	< 1	0.28	10	0.49	415	2
567952	299	229	1.8	0.65	36	40	< 0.5	12	3.61	< 0.5	4	55	354	2.21	10	< 1	0.32	< 10	0.27	495	2
567953	299	229	3.2	0.60	58	30	< 0.5	16	2.28	< 0.5	4	64	728	3.36	10	< 1	0.37	< 10	0.23	350	2
567954	299	229	3.8	0.61	58	20	< 0.5	48	2.54	< 0.5	5	64	748	3.70	10	< 1	0.30	< 10	0.23	345	6
567955	299	229	3.0	0.57	54	30	< 0.5	14	2.41	0.5	5	50	673	2.90	10	< 1	0.26	10	0.28	300	2
567956	299	229	2.2	0.65	46	40	< 0.5	4	2.20	< 0.5	5	45	666	2.76	10	< 1	0.27	10	0.32	375	2
567957	299	229	1.4	0.70	48	30	< 0.5	8	1.47	< 0.5	4	46	668	2.39	10	< 1	0.28	20	0.42	280	2
567958	299	229	2.2	0.47	52	50	< 0.5	16	1.58	< 0.5	4	53	1155	2.59	10	< 1	0.29	< 10	0.26	255	1
567959	299	229	2.6	0.45	56	60	< 0.5	10	0.67	< 0.5	5	53	1270	2.91	< 10	< 1	0.32	10	0.19	180	2
567960	299	229	8.4	0.40	70	20	< 0.5	192	1.19	0.5	6	72	8790	5.49	< 10	< 1	0.31	< 10	0.24	310	2
567961	299	229	1.4	0.49	16	60	< 0.5	8	1.40	< 0.5	4	46	501	2.06	10	< 1	0.24	20	0.24	295	2
567962	299	229	2.0	0.47	8	40	< 0.5	12	0.81	< 0.5	10	49	720	2.17	10	< 1	0.22	30	0.17	310	2
567963	299	229	2.0	0.53	2	40	< 0.5	10	2.66	0.5	6	42	1125	2.71	10	< 1	0.24	< 10	0.35	380	1
567964	299	229	1.4	0.73	< 2	20	< 0.5	8	1.54	1.0	13	47	1215	2.54	10	< 1	0.22	10	0.19	435	2
567965	299	229	1.4	0.60	< 2	20	< 0.5	2	1.20	0.5	10	38	958	2.05	10	< 1	0.24	20	0.25	260	30
567966	299	229	1.6	0.68	2	40	< 0.5	4	1.63	< 0.5	14	70	738	2.90	10	< 1	0.25	10	0.43	280	59
567967	299	229	2.4	0.66	6	20	< 0.5	2	1.35	1.0	24	68	1675	3.05	10	< 1	0.24	10	0.42	565	97
567968	299	229	8.4	0.76	70	30	< 0.5	< 2	1.40	4.5	26	66	2330	2.70	< 10	< 1	0.27	< 10	0.43	1270	139
567969	299	229	6.8	0.44	94	20	< 0.5	< 2	1.86	1.0	19	55	1950	4.23	< 10	< 1	0.26	< 10	0.53	1115	131
567970	299	229	4.6	0.52	22	60	< 0.5	< 2	1.67	< 0.5	15	69	3570	3.29	10	< 1	0.27	< 10	0.60	510	149
567971	299	229	6.6	0.39	18	20	1.5	< 2	1.79	< 0.5	15	57	4150	2.52	10	< 1	0.20	10	0.61	650	155
567972	299	229	31.0	0.42	380	70	< 0.5	4	1.88	8.5	16	74	3830	4.15	10	< 1	0.25	< 10	0.66	2340	174
567973	299	229	77.6	0.34	382	10	< 0.5	12	1.63	>100.0	10	55	3480	4.52	10	1	0.20	< 10	0.39	1240	158
567974	299	229	>200	0.33	818	10	< 0.5	32	3.48	>100.0	16	57	6890	8.04	40	17	0.18	< 10	0.54	4310	130
567975	299	229	8.0	0.43	82	80	< 0.5	4	2.32	2.5	15	65	4280	3.25	10	< 1	0.24	< 10	0.59	940	166
567976	299	229	25.6	0.40	356	30	< 0.5	< 2	2.29	22.5	12	69	5460	2.66	10	2	0.23	< 10	0.73	1940	276
567977	299	229	142.5	0.31	492	10	< 0.5	10	1.63	>100.0	11	59	4290	2.87	10	6	0.20	< 10	0.45	1805	304
567978	299	229	128.0	0.33	754	10	< 0.5	20	2.45	>100.0	13	66	4320	4.53	20	6	0.20	< 10	0.51	3240	195
567979	299	229	109.0	0.27	362	10	< 0.5	18	4.25	>100.0	8	67	1895	5.28	10	4	0.16	< 10	0.61	5910	128
567980	299	229	16.8	0.40	118	30	< 0.5	6	1.17	15.5	7	100	1265	5.59	< 10	< 1	0.22	< 10	0.23	435	256

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 14-MAY-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9313880

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567941	299	229	0.01	3	700	24	< 2	1	48	< 0.01	< 10	< 10	5	< 10	54
567942	299	229	0.01	4	700	30	< 2	1	41	< 0.01	< 10	< 10	5	< 10	96
567943	299	229	0.02	3	720	16	< 2	1	61	< 0.01	< 10	< 10	7	< 10	88
567944	299	229	0.01	3	670	16	< 2	1	60	< 0.01	< 10	< 10	5	< 10	40
567945	299	229	< 0.01	5	500	10	< 2	1	34	< 0.01	< 10	< 10	1	< 10	40
567946	299	229	0.02	3	690	12	< 2	2	41	< 0.01	< 10	< 10	9	< 10	56
567947	299	229	0.01	3	680	64	2	1	50	< 0.01	< 10	< 10	4	< 10	52
567948	299	229	0.01	3	710	16	< 2	1	67	< 0.01	< 10	< 10	6	< 10	44
567949	299	229	0.02	3	670	16	< 2	1	60	< 0.01	< 10	< 10	7	< 10	30
567950	299	229	0.02	4	790	26	2	2	53	< 0.01	< 10	< 10	9	10	32
567951	299	229	0.02	3	720	18	< 2	2	58	< 0.01	< 10	< 10	10	< 10	42
567952	299	229	0.01	3	710	28	< 2	1	62	< 0.01	< 10	< 10	4	< 10	40
567953	299	229	< 0.01	3	730	66	< 2	1	57	< 0.01	< 10	< 10	3	20	42
567954	299	229	< 0.01	3	630	94	< 2	1	50	< 0.01	< 10	< 10	4	< 10	48
567955	299	229	0.01	3	710	72	2	1	61	< 0.01	< 10	< 10	3	< 10	44
567956	299	229	0.01	3	730	28	< 2	1	44	< 0.01	< 10	< 10	5	< 10	34
567957	299	229	0.01	4	740	16	2	1	32	< 0.01	< 10	< 10	6	< 10	30
567958	299	229	< 0.01	4	710	16	< 2	1	30	< 0.01	< 10	< 10	3	< 10	28
567959	299	229	< 0.01	4	790	22	< 2	1	14	< 0.01	< 10	< 10	2	< 10	26
567960	299	229	< 0.01	4	530	58	2	1	16	< 0.01	< 10	< 10	2	< 10	74
567961	299	229	< 0.01	4	810	24	< 2	2	30	< 0.01	< 10	< 10	6	< 10	32
567962	299	229	< 0.01	5	860	18	2	2	19	< 0.01	< 10	< 10	7	< 10	40
567963	299	229	0.01	3	690	26	2	1	50	< 0.01	< 10	< 10	4	< 10	50
567964	299	229	< 0.01	6	770	22	2	2	29	< 0.01	< 10	< 10	5	< 10	82
567965	299	229	0.01	8	760	18	< 2	1	23	< 0.01	< 10	< 10	7	< 10	54
567966	299	229	0.01	10	620	6	2	1	25	< 0.01	< 10	< 10	7	< 10	32
567967	299	229	< 0.01	11	610	26	< 2	1	21	< 0.01	< 10	< 10	11	< 10	84
567968	299	229	< 0.01	14	710	44	8	1	22	< 0.01	< 10	< 10	7	< 10	176
567969	299	229	< 0.01	16	750	86	4	1	19	< 0.01	< 10	< 10	1	< 10	102
567970	299	229	< 0.01	18	1140	12	2	1	21	< 0.01	< 10	< 10	7	< 10	42
567971	299	229	< 0.01	19	770	12	4	2	19	< 0.01	< 10	< 10	8	< 10	50
567972	299	229	< 0.01	20	720	104	72	1	21	< 0.01	< 10	< 10	3	10	200
567973	299	229	< 0.01	15	530	5100	78	1	19	< 0.01	< 10	< 10	1	10	3200
567974	299	229	0.01	15	460	>10000	336	1	24	< 0.01	< 10	50	< 1	30	>10000
567975	299	229	< 0.01	16	560	84	8	2	25	< 0.01	< 10	< 10	7	< 10	126
567976	299	229	< 0.01	13	520	1055	74	1	20	< 0.01	< 10	< 10	2	10	694
567977	299	229	< 0.01	12	640	7700	180	1	16	< 0.01	< 10	< 10	< 1	30	>10000
567978	299	229	< 0.01	12	500	8670	124	1	16	< 0.01	< 10	< 10	< 1	40	>10000
567979	299	229	< 0.01	7	410	1385	152	1	20	< 0.01	< 10	20	< 1	40	>10000
567980	299	229	< 0.01	11	300	340	14	1	17	< 0.01	< 10	< 10	< 1	10	478

CERTIFICATION: Stuart Bichler

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Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. :I9313880
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CERTIFICATE OF ANALYSIS A9313880

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567981	299	229	0.8	0.52	14	160	0.5	< 2	2.00	1.0	10	86	979	1.31	< 10	< 1	0.24	30	0.38	405	115
567982	299	229	0.8	0.51	12	70	< 0.5	2	2.23	< 0.5	9	95	937	2.52	< 10	< 1	0.23	20	0.44	320	573
567983	299	229	2.2	0.70	6	150	0.5	< 2	2.00	< 0.5	8	79	2960	1.30	< 10	< 1	0.41	30	0.53	240	444
567984	299	229	0.8	0.45	4	130	< 0.5	< 2	2.67	< 0.5	7	68	1060	1.63	< 10	< 1	0.26	20	0.46	220	608
567985	299	229	2.4	0.34	8	130	< 0.5	< 2	3.30	< 0.5	9	58	2320	1.46	< 10	< 1	0.19	40	0.46	235	771
567986	299	229	1.6	0.43	2	70	< 0.5	< 2	2.35	< 0.5	10	56	1660	1.63	< 10	< 1	0.27	40	0.49	205	369
567987	299	229	1.2	0.58	< 2	150	0.5	< 2	2.10	< 0.5	11	64	1155	1.18	< 10	< 1	0.35	70	0.41	300	1690
567988	299	229	2.0	0.73	2	90	0.5	< 2	1.83	< 0.5	13	76	1405	1.70	< 10	< 1	0.39	30	0.48	305	498
567989	299	229	1.4	0.80	8	100	0.5	2	2.05	< 0.5	10	70	1115	1.57	< 10	< 1	0.42	40	0.64	230	183
567990	299	229	3.2	0.39	4	20	< 0.5	8	2.30	0.5	9	71	2240	3.99	< 10	< 1	0.25	20	0.42	190	298
567991	299	229	4.4	0.47	8	50	< 0.5	2	1.51	0.5	13	62	3590	3.00	< 10	< 1	0.32	20	0.34	140	500
567992	299	229	3.6	0.50	6	20	< 0.5	< 2	1.64	0.5	10	72	3850	4.16	< 10	< 1	0.31	10	0.37	130	586
567993	299	229	2.6	0.38	14	70	< 0.5	4	2.91	0.5	8	74	2550	2.22	< 10	< 1	0.21	10	0.82	355	860
567994	299	229	5.6	0.39	8	20	< 0.5	22	1.33	2.0	14	67	4370	3.98	< 10	< 1	0.26	10	0.45	210	323
567995	299	229	2.8	0.38	8	30	< 0.5	2	1.60	0.5	38	63	2450	3.55	< 10	< 1	0.24	10	0.65	240	223
567996	299	229	4.4	0.45	16	30	< 0.5	24	1.64	12.5	35	65	3040	3.89	< 10	< 1	0.28	10	0.53	175	398
567997	299	229	3.4	0.47	10	40	< 0.5	6	2.09	2.0	36	74	2100	3.64	< 10	< 1	0.30	10	0.63	540	621
567998	299	229	2.0	0.55	8	40	< 0.5	2	1.71	< 0.5	38	77	1265	3.70	< 10	< 1	0.29	10	0.61	260	536
567999	299	229	1.6	0.33	8	40	< 0.5	2	1.98	0.5	28	60	1480	2.61	< 10	< 1	0.20	10	0.70	220	1435
568000	299	229	3.2	0.38	18	30	< 0.5	10	1.73	1.0	17	59	2430	4.13	< 10	< 1	0.21	10	0.58	275	905
568001	299	229	2.4	0.54	20	70	< 0.5	< 2	1.85	0.5	30	61	2330	2.73	< 10	< 1	0.27	20	0.68	280	185
568002	299	229	1.6	1.12	8	60	0.5	< 2	1.75	< 0.5	47	64	1640	2.85	< 10	< 1	0.36	20	0.71	235	534
568003	299	229	3.0	0.46	18	50	< 0.5	< 2	2.54	< 0.5	25	62	3200	2.90	< 10	< 1	0.24	10	0.92	395	694
568004	299	229	1.8	0.35	16	20	< 0.5	< 2	3.28	0.5	17	74	1470	5.05	< 10	< 1	0.21	< 10	1.03	520	444
568005	299	229	0.8	0.62	8	50	< 0.5	2	2.62	0.5	16	78	723	3.93	< 10	< 1	0.31	10	0.78	360	138
568006	299	229	0.8	1.14	8	120	< 0.5	< 2	1.38	< 0.5	12	56	823	2.19	< 10	< 1	0.57	20	0.87	170	111
568007	299	229	1.0	1.12	4	90	0.5	< 2	1.46	< 0.5	14	64	793	2.04	< 10	< 1	0.37	30	0.67	160	161
568008	299	229	1.8	1.27	8	110	0.5	< 2	2.18	< 0.5	17	54	1040	2.14	< 10	< 1	0.47	20	0.84	205	354
568009	299	229	0.8	0.99	6	60	0.5	2	1.94	< 0.5	9	62	631	2.30	< 10	< 1	0.38	20	0.66	155	658
568010	299	229	2.4	1.33	16	70	0.5	2	1.68	< 0.5	13	56	2090	3.12	10	< 1	0.59	30	0.98	180	836
568011	299	229	1.4	1.24	6	100	0.5	2	1.37	< 0.5	13	76	1815	2.69	10	< 1	0.56	20	0.93	180	798
568012	299	229	0.6	0.91	2	60	< 0.5	2	2.42	< 0.5	9	63	853	2.73	10	< 1	0.49	10	0.87	140	775
568013	299	229	0.6	1.02	2	100	< 0.5	< 2	2.71	< 0.5	8	87	592	1.75	10	< 1	0.58	10	0.94	135	551
568014	299	229	0.4	0.86	6	100	< 0.5	2	1.88	< 0.5	9	65	724	2.17	< 10	< 1	0.51	10	0.86	135	510
568015	299	229	1.4	0.77	20	90	< 0.5	4	1.62	1.0	9	52	624	2.66	< 10	< 1	0.39	10	0.78	445	482
568016	299	229	6.0	0.75	30	30	< 0.5	18	1.45	0.5	12	57	761	4.59	< 10	< 1	0.33	20	0.55	560	498
568017	299	229	0.8	0.98	8	100	0.5	2	1.77	< 0.5	9	64	579	2.38	< 10	< 1	0.38	20	0.77	345	395
568018	299	229	2.4	0.42	112	20	< 0.5	6	1.60	5.0	12	59	1335	3.77	< 10	< 1	0.27	10	0.50	480	441
568019	299	229	1.6	0.56	8	20	< 0.5	< 2	1.60	< 0.5	12	63	1490	1.93	< 10	< 1	0.20	20	0.49	240	435
568020	299	229	1.4	0.50	10	50	< 0.5	< 2	1.43	< 0.5	11	75	1675	1.35	< 10	< 1	0.13	20	0.40	185	487

CERTIFICATION: Dan Buchler

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567981	299	229	< 0.01	14	400	44	2	2	39	< 0.01	< 10	< 10	10	< 10	68
567982	299	229	0.01	15	450	12	2	2	32	< 0.01	< 10	< 10	10	10	40
567983	299	229	0.01	12	350	6	2	2	26	0.01	< 10	< 10	17	< 10	40
567984	299	229	< 0.01	13	410	6	2	3	24	< 0.01	< 10	< 10	14	< 10	28
567985	299	229	< 0.01	15	420	12	4	3	28	< 0.01	< 10	< 10	13	< 10	44
567986	299	229	< 0.01	8	570	14	2	1	22	< 0.01	< 10	< 10	9	< 10	36
567987	299	229	0.01	9	920	8	4	2	28	< 0.01	10	< 10	11	< 10	42
567988	299	229	0.01	14	940	14	2	2	36	< 0.01	< 10	< 10	13	10	64
567989	299	229	0.01	17	790	4	< 2	2	32	< 0.01	< 10	< 10	15	< 10	26
567990	299	229	< 0.01	14	610	52	2	1	31	< 0.01	< 10	< 10	4	20	68
567991	299	229	0.01	14	840	66	2	1	24	< 0.01	< 10	< 10	4	50	72
567992	299	229	< 0.01	13	510	62	2	1	23	< 0.01	< 10	< 10	6	10	74
567993	299	229	0.01	10	490	46	4	1	27	< 0.01	< 10	< 10	6	10	56
567994	299	229	< 0.01	18	550	120	4	1	18	< 0.01	< 10	< 10	3	20	152
567995	299	229	< 0.01	18	590	42	2	1	23	< 0.01	< 10	< 10	4	10	66
567996	299	229	< 0.01	19	730	142	2	1	26	< 0.01	< 10	< 10	4	20	1090
567997	299	229	< 0.01	16	620	84	4	1	30	< 0.01	< 10	< 10	8	10	174
567998	299	229	0.01	13	490	78	< 2	1	38	< 0.01	< 10	< 10	10	20	46
567999	299	229	< 0.01	13	490	38	4	1	28	< 0.01	< 10	< 10	3	10	64
568000	299	229	< 0.01	17	540	50	6	2	26	< 0.01	< 10	< 10	9	20	86
568001	299	229	< 0.01	16	630	26	2	2	29	< 0.01	< 10	< 10	11	10	46
568002	299	229	0.01	17	540	20	2	3	39	0.01	< 10	< 10	24	10	50
568003	299	229	< 0.01	15	550	18	2	1	28	< 0.01	< 10	< 10	10	10	42
568004	299	229	< 0.01	15	450	46	< 2	1	24	< 0.01	< 10	< 10	4	20	78
568005	299	229	0.01	15	550	26	< 2	2	33	< 0.01	< 10	< 10	19	10	56
568006	299	229	0.02	15	610	14	< 2	3	84	0.03	< 10	< 10	29	10	36
568007	299	229	0.01	13	460	6	< 2	2	63	< 0.01	< 10	< 10	19	< 10	28
568008	299	229	0.01	15	590	10	2	3	65	0.01	< 10	< 10	32	10	34
568009	299	229	0.01	11	540	26	< 2	2	55	< 0.01	10	< 10	14	10	40
568010	299	229	0.01	13	420	28	2	4	56	0.02	10	< 10	34	20	46
568011	299	229	0.02	12	590	4	2	3	58	0.03	< 10	< 10	33	10	36
568012	299	229	0.02	14	530	6	< 2	3	207	0.03	< 10	< 10	28	20	28
568013	299	229	0.02	15	440	6	< 2	3	159	0.04	< 10	< 10	35	10	22
568014	299	229	0.02	14	460	2	< 2	3	105	0.03	< 10	< 10	27	10	20
568015	299	229	0.01	12	440	114	4	3	42	0.01	< 10	< 10	17	20	48
568016	299	229	0.01	13	620	52	2	2	31	< 0.01	< 10	< 10	14	30	42
568017	299	229	0.01	12	640	10	2	3	47	0.01	< 10	< 10	20	10	24
568018	299	229	< 0.01	16	620	46	12	1	22	< 0.01	< 10	20	4	20	140
568019	299	229	< 0.01	12	610	12	2	3	21	< 0.01	< 10	< 10	17	10	28
568020	299	229	0.01	11	410	12	4	4	21	< 0.01	< 10	< 10	15	< 10	30

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568021	299	229	1.6	0.28	22	10	< 0.5	2	1.44	0.5	6	107	1330	2.57	< 10	< 1	0.11	10	0.53	265	545
568022	299	229	2.0	0.26	76	20	< 0.5	< 2	1.97	1.5	6	102	1455	2.34	< 10	< 1	0.12	10	0.68	485	680
568023	299	229	4.6	0.24	72	20	< 0.5	4	1.22	60.5	7	67	1060	3.54	< 10	< 1	0.13	10	0.45	385	583
568024	299	229	1.8	0.25	12	70	< 0.5	< 2	1.38	0.5	8	70	3590	2.18	< 10	< 1	0.11	10	0.51	165	886
568025	299	229	1.8	0.30	12	40	< 0.5	4	1.08	< 0.5	12	78	2960	2.53	< 10	< 1	0.13	20	0.41	185	629
568026	299	229	0.6	0.19	4	10	< 0.5	< 2	1.43	< 0.5	4	61	719	1.90	< 10	< 1	0.07	10	0.43	295	440
568027	299	229	0.6	0.16	16	50	< 0.5	2	1.03	< 0.5	4	67	646	1.04	< 10	< 1	0.11	10	0.39	130	392
568028	299	229	1.6	0.19	16	80	< 0.5	4	2.36	< 0.5	11	35	1680	1.87	< 10	< 1	0.08	40	0.77	435	370
568029	299	229	8.8	0.21	282	140	< 0.5	< 2	3.07	5.0	11	36	3200	1.80	< 10	< 1	0.11	10	1.03	2280	763
568030	299	229	16.8	0.33	206	< 10	< 0.5	12	1.45	36.5	16	40	1820	9.15	< 10	< 1	0.13	10	0.48	2010	1125
568031	299	229	3.0	0.36	92	30	< 0.5	16	2.03	0.5	11	56	2020	3.89	< 10	< 1	0.13	10	0.73	660	604
568032	299	229	2.4	0.38	26	50	< 0.5	8	2.92	< 0.5	10	90	1790	3.13	< 10	< 1	0.12	30	0.72	485	702
568033	299	229	1.6	0.29	22	50	< 0.5	2	2.18	< 0.5	11	55	1935	2.05	< 10	< 1	0.08	20	0.58	395	820
568034	299	229	4.4	0.29	142	120	< 0.5	< 2	2.81	1.0	21	59	4350	2.06	< 10	< 1	0.11	20	0.66	1285	1730
568035	299	229	0.6	0.23	4	70	< 0.5	< 2	1.45	< 0.5	6	56	680	1.24	< 10	< 1	0.10	10	0.45	225	978
568036	299	229	0.8	0.17	14	60	< 0.5	2	1.47	< 0.5	2	40	457	0.85	< 10	< 1	0.11	10	0.21	190	212
568037	299	229	2.4	0.15	12	30	< 0.5	4	1.09	1.0	4	47	774	2.01	< 10	< 1	0.14	10	0.41	375	61
568038	299	229	1.2	0.39	40	30	< 0.5	2	1.28	0.5	4	94	846	2.80	< 10	< 1	0.26	10	0.32	195	234
568039	299	229	0.6	0.34	4	60	< 0.5	2	1.40	< 0.5	4	62	423	1.71	< 10	< 1	0.23	10	0.39	270	168
568040	299	229	0.6	0.38	6	50	< 0.5	2	1.83	0.5	3	63	347	1.24	< 10	< 1	0.24	20	0.34	220	430
568041	299	229	3.2	0.31	118	< 10	< 0.5	2	2.37	1.5	6	44	840	3.66	< 10	< 1	0.15	10	0.61	1145	428
568042	299	229	1.4	0.33	32	10	< 0.5	2	2.78	< 0.5	6	34	1055	1.82	< 10	< 1	0.17	10	0.61	760	568
568043	299	229	0.8	0.42	14	150	< 0.5	2	2.74	< 0.5	6	31	882	1.48	< 10	< 1	0.21	30	0.70	515	320
568044	299	229	0.6	0.72	18	120	0.5	2	3.63	< 0.5	5	20	357	2.21	< 10	< 1	0.31	20	0.39	225	19
568045	299	229	0.4	1.52	16	90	0.5	4	3.03	< 0.5	4	43	402	2.24	10	< 1	0.67	20	0.34	160	10
568046	299	229	0.4	0.52	4	180	< 0.5	2	2.77	< 0.5	4	47	590	1.12	< 10	< 1	0.25	10	0.32	115	139
568047	299	229	0.4	0.38	< 2	100	< 0.5	2	1.65	< 0.5	3	25	302	0.73	< 10	< 1	0.21	20	0.51	115	205
568048	299	229	0.6	0.17	6	100	< 0.5	4	1.35	< 0.5	3	36	201	1.68	< 10	< 1	0.11	10	0.53	165	778

CERTIFICATION: Stuart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

J: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 93-150
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-MAY-93
Invoice No. : I9313880
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9313880

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
568021	299	229	< 0.01	7	290	18	4	1	16	< 0.01	< 10	< 10	7	10	38
568022	299	229	< 0.01	7	270	30	16	1	19	< 0.01	< 10	< 10	4	< 10	64
568023	299	229	< 0.01	8	280	1680	8	1	17	< 0.01	< 10	< 10	3	10	1270
568024	299	229	< 0.01	10	410	10	4	3	20	< 0.01	< 10	< 10	7	< 10	36
568025	299	229	< 0.01	9	520	16	< 2	2	18	< 0.01	< 10	< 10	6	< 10	34
568026	299	229	< 0.01	6	310	8	< 2	1	14	< 0.01	< 10	< 10	6	< 10	16
568027	299	229	< 0.01	6	280	16	4	1	16	< 0.01	10	< 10	3	< 10	18
568028	299	229	< 0.01	11	520	8	2	4	23	< 0.01	10	< 10	17	< 10	28
568029	299	229	< 0.01	14	440	160	24	3	26	< 0.01	< 10	< 10	12	< 10	256
568030	299	229	< 0.01	11	480	886	40	1	14	< 0.01	< 10	40	< 1	40	1900
568031	299	229	< 0.01	12	650	48	4	3	22	< 0.01	< 10	< 10	15	10	72
568032	299	229	< 0.01	11	1460	14	4	3	25	< 0.01	< 10	< 10	22	10	30
568033	299	229	< 0.01	10	580	4	2	4	19	< 0.01	< 10	< 10	22	10	24
568034	299	229	< 0.01	15	590	50	10	4	26	< 0.01	< 10	< 10	18	< 10	76
568035	299	229	< 0.01	3	520	16	2	2	29	< 0.01	< 10	< 10	5	< 10	20
568036	299	229	< 0.01	2	380	52	2	< 1	34	< 0.01	< 10	< 10	< 1	< 10	16
568037	299	229	< 0.01	7	240	162	< 2	< 1	18	< 0.01	< 10	< 10	1	< 10	54
568038	299	229	0.01	4	330	42	4	< 1	19	< 0.01	< 10	< 10	2	10	40
568039	299	229	0.01	4	350	26	< 2	1	43	< 0.01	< 10	< 10	7	< 10	20
568040	299	229	< 0.01	4	240	24	< 2	1	28	< 0.01	< 10	< 10	4	< 10	30
568041	299	229	< 0.01	9	350	84	16	1	20	< 0.01	< 10	< 10	5	10	108
568042	299	229	< 0.01	6	590	26	4	2	25	< 0.01	< 10	< 10	7	< 10	42
568043	299	229	0.01	7	620	10	2	2	140	< 0.01	< 10	< 10	14	< 10	30
568044	299	229	< 0.01	4	790	14	< 2	1	81	< 0.01	< 10	< 10	7	10	20
568045	299	229	0.01	8	760	16	< 2	1	64	< 0.01	< 10	< 10	9	10	24
568046	299	229	0.01	2	410	12	< 2	1	93	< 0.01	< 10	< 10	6	< 10	14
568047	299	229	0.01	3	340	18	< 2	3	50	< 0.01	< 10	< 10	15	< 10	12
568048	299	229	< 0.01	4	380	14	2	1	22	< 0.01	< 10	< 10	< 1	< 10	16

CERTIFICATION: Ken Bucklen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. :I9314338
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314338

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H572208	208	274	0.01	0.011	0.27	7100
H572209	208	276	0.01	0.023	0.31	10950
H572210	208	276	0.01	0.024	0.48	8140
H572211	208	276	0.02	0.031	0.31	8380
H572212	208	276	0.03	0.043	0.51	9550
H572213	208	276	0.09	0.019	0.41	8400
H572214	208	276	0.17	0.032	0.58	10730
H572215	208	276	0.18	0.018	0.45	11460
H572216	208	276	0.15	0.027	0.51	10890
H572217	208	276	0.37	0.025	0.58	11100
H572218	208	276	0.29	0.029	0.55	11320
H572219	208	273	0.19	0.027	0.62	12240
H572220	208	276	0.28	0.027	0.55	11440
H572221	208	273	0.21	0.019	0.38	11980
H572222	208	273	0.25	0.018	0.48	11960
H572223	208	273	0.31	0.014	0.45	13140
H572224	208	276	0.35	0.042	0.65	11200
H572225	208	273	0.28	0.027	0.48	12180
H572226	208	273	0.26	0.019	0.45	12600
H572227	208	273	0.23	0.016	0.34	12520
H572228	208	273	0.24	0.020	0.45	12640
H572229	208	273	0.19	0.011	0.24	13760
H572230	208	273	0.33	0.020	0.38	13440
H572231	208	273	0.24	0.011	0.31	12590
H572232	208	273	0.35	0.030	0.65	12420
H572233	208	273	0.24	0.015	0.38	12890
H572234	208	273	0.28	0.019	0.45	12330
H572235	208	273	0.28	0.015	0.45	12620
H572236	208	273	0.19	0.009	0.38	12300
H572237	208	273	0.25	0.029	0.41	12230
H572238	208	273	0.08	0.050	0.24	12080
H572239	208	273	0.20	0.018	0.41	12160
H572240	208	273	0.14	0.019	0.34	11820
H572241	208	273	0.24	0.011	0.45	12600
H572242	208	273	0.22	0.026	0.55	12090
H572243	208	274	0.12	0.012	0.24	6980
H572244	208	276	0.25	0.020	0.38	11720
H572245	208	273	0.34	0.023	0.51	12800
H572246	208	273	0.25	0.022	0.65	12650
H572247	208	273	0.24	0.019	0.38	12740

CERTIFICATION: D Christie

Chemex Labs Ltd.

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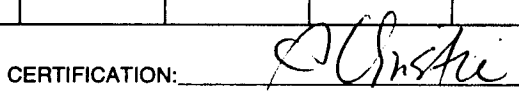
ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : 19314338
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314338

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H572248	208	273	0.26	0.022	0.48	12700
H572249	208	273	0.23	0.022	0.38	12500
H572250	208	273	0.23	0.012	0.31	12450
H572251	208	273	0.28	0.019	0.48	12020
H572252	208	276	0.29	0.021	0.41	11540
H572253	208	273	0.24	0.026	0.34	12020
H572254	208	273	0.24	0.017	0.31	12300
H572255	208	273	0.20	0.017	0.27	12930
H572256	208	273	0.16	0.066	0.24	12030
H572257	208	274	0.29	0.747	0.96	6630
H572258	208	274	0.31	0.147	0.55	6380
H572259	208	274	0.29	0.025	0.45	6080
H572260	208	273	0.43	0.138	0.79	12450
H572261	208	273	0.46	0.042	0.79	12320
H572262	208	273	0.32	0.022	0.51	12060
H572263	208	273	0.21	0.056	0.38	13180
H572264	208	276	0.22	0.021	0.34	9200
H572265	208	273	0.24	0.019	0.69	13300
H572266	208	276	0.22	0.029	0.31	11080
H572267	208	273	0.21	0.015	0.31	12460
H572268	208	276	0.15	0.153	0.27	11200
H572269	208	273	0.18	0.030	0.27	13080
H572270	208	273	0.22	0.010	0.34	13100
H572271	208	276	0.21	0.012	0.62	11120
H572272	208	273	0.30	0.022	0.51	12050
H572273	208	273	0.29	0.023	0.34	12480
H572274	208	276	0.20	0.013	0.45	11080
H572275	208	276	0.34	0.023	0.55	10260
H572276	208	273	0.30	0.023	0.34	12380
H572277	208	273	0.29	0.034	0.34	12360
H572278	208	273	0.25	0.031	0.45	12080
H572279	208	276	0.24	0.039	0.24	10960
H572280	208	276	0.33	0.021	0.31	11660
H572281	208	274	0.26	0.025	0.24	3780
H572282	208	273	0.22	0.027	0.21	12600
H572283	208	276	0.26	0.028	0.24	7900
H572284	208	273	0.26	0.021	0.31	13220
H572285	208	273	0.21	0.039	0.34	12800
H572286	208	273	0.24	0.024	0.31	12500
H572287	208	273	0.20	0.025	0.21	13110

CERTIFICATION: 

Chemex Labs Ltd.

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : I9314338
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314338

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572288	208	273	0.26	0.026	0.27	13620						
H572289	208	273	0.22	0.045	0.31	14100						
H572290	208	273	0.23	0.020	0.24	13480						
H572291	208	273	0.15	0.017	0.17	12150						
H572292	208	273	0.17	0.032	0.24	12480						
H572293	208	273	0.15	0.028	0.21	12380						
H572294	208	273	0.21	0.024	0.24	12380						
H572295	208	276	0.16	0.028	0.17	11640						
H572296	208	276	0.22	0.037	0.27	11320						
H572297	208	276	0.20	0.032	0.24	11620						
H572298	208	276	0.17	0.030	0.27	11380						
H572299	208	276	0.18	0.035	0.21	11600						
H572300	208	276	0.20	0.024	0.21	11780						
H572301	208	276	0.31	0.035	0.38	9920						
H572302	208	273	0.20	0.039	0.24	13920						
H572303	208	273	0.17	0.063	0.17	12180						
H572304	208	273	0.17	0.036	0.21	12170						
H572305	208	273	0.23	0.042	0.34	12040						
H572306	208	276	0.22	0.040	0.24	7520						
H572307	208	276	0.27	0.033	0.34	11700						
H572308	208	273	0.22	0.024	0.27	12520						
H572309	208	273	0.20	0.049	0.31	12460						
H572310	208	274	0.23	0.035	0.38	3980						
H572311	208	276	0.19	0.039	0.21	11520						
H572312	208	276	0.24	0.058	0.21	11300						
H572313	208	276	0.22	0.050	0.27	11300						
H572314	208	276	0.22	0.072	0.21	10800						
H572315	208	273	0.18	0.028	0.21	12020						
H572316	208	276	0.20	0.030	0.27	11480						
H572317	208	276	0.16	0.031	0.21	10840						
H572318	208	273	0.23	0.031	0.31	12260						
H572319	208	273	0.19	0.040	0.21	12020						
H572320	208	273	0.19	0.034	0.24	12480						
H572321	208	276	0.29	0.043	0.31	11740						
H572322	208	273	0.20	0.037	0.27	12800						
H572323	208	273	0.19	0.036	0.24	12240						
H572324	208	273	0.22	0.037	0.24	11940						
H572325	208	273	0.26	0.037	0.31	12260						
H572326	208	273	0.19	0.100	0.21	12140						
H572327	208	273	0.17	0.039	0.27	12340						

CERTIFICATION: A Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :5
Certificate Date: 20-MAY-93
Invoice No. :I9314339
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B572208	299	229	4.8	0.90	124	230	< 0.5	< 2	0.03	< 0.5	2	125	98	2.32	< 10	< 1	0.85	40	0.07	30	79
B572209	299	229	2.8	0.82	82	240	< 0.5	< 2	0.02	< 0.5	2	153	92	3.28	< 10	1	0.96	40	0.06	35	153
B572210	299	229	2.6	0.85	56	290	< 0.5	< 2	0.01	< 0.5	2	114	164	3.10	< 10	< 1	0.93	20	0.06	25	154
B572211	299	229	3.0	0.93	84	290	< 0.5	< 2	0.02	< 0.5	2	151	247	2.85	< 10	< 1	0.76	30	0.08	35	216
B572212	299	229	2.4	0.93	32	300	< 0.5	< 2	0.01	< 0.5	3	137	331	2.61	< 10	< 1	0.67	50	0.08	35	281
B572213	299	229	2.4	1.10	38	250	< 0.5	< 2	0.01	< 0.5	4	115	926	2.49	< 10	< 1	0.55	30	0.24	80	125
B572214	299	229	2.4	0.81	20	240	< 0.5	< 2	0.22	0.5	7	104	1765	3.23	< 10	< 1	0.57	40	0.11	65	204
B572215	299	229	3.0	0.83	78	190	< 0.5	< 2	0.43	1.5	11	127	1905	2.93	< 10	< 1	0.50	30	0.37	285	115
B572216	299	229	2.2	0.85	94	100	< 0.5	4	0.16	< 0.5	12	134	1625	4.21	< 10	< 1	0.61	10	0.10	70	175
B572217	299	229	5.2	1.36	172	100	< 0.5	4	0.29	1.5	16	143	4130	3.29	< 10	< 1	0.50	20	0.15	110	165
B572218	299	229	2.2	1.20	14	130	< 0.5	< 2	0.87	1.5	28	164	3110	3.92	< 10	2	0.53	20	0.33	550	201
B572219	299	229	2.8	1.22	20	120	< 0.5	< 2	0.73	< 0.5	14	159	2010	4.10	10	< 1	0.62	20	0.13	95	158
B572220	299	229	2.0	1.11	16	120	< 0.5	< 2	0.88	< 0.5	18	109	2700	3.04	10	< 1	0.45	20	0.33	255	163
B572221	299	229	1.8	0.97	12	90	< 0.5	< 2	1.13	< 0.5	11	146	2060	3.26	10	< 1	0.45	10	0.37	235	109
B572222	299	229	2.8	0.72	12	70	< 0.5	2	1.76	< 0.5	11	146	2470	3.56	10	< 1	0.45	10	0.27	225	109
B572223	299	229	2.6	1.03	4	90	< 0.5	2	0.76	1.0	13	112	2860	3.50	10	< 1	0.40	20	0.45	380	79
B572224	299	229	2.6	1.79	12	130	< 0.5	4	0.86	< 0.5	14	138	3350	3.04	10	< 1	0.74	60	0.61	200	257
B572225	299	229	2.0	1.51	6	130	< 0.5	2	0.39	< 0.5	15	116	2850	4.65	10	1	0.73	40	0.70	215	171
B572226	299	229	2.0	1.70	12	200	< 0.5	< 2	1.09	< 0.5	11	118	2530	3.34	10	< 1	0.83	30	0.86	160	113
B572227	299	229	1.8	1.50	24	110	< 0.5	4	0.96	< 0.5	14	136	2100	4.42	10	1	0.72	10	0.51	185	82
B572228	299	229	1.8	1.80	24	170	< 0.5	6	0.76	< 0.5	11	98	2300	3.57	10	< 1	0.88	20	0.82	130	114
B572229	299	229	1.4	1.93	8	230	< 0.5	< 2	0.61	< 0.5	8	104	1865	3.46	10	< 1	0.91	20	1.03	170	62
B572230	299	229	2.2	1.51	26	120	< 0.5	4	0.82	< 0.5	12	104	3180	3.39	10	< 1	0.80	20	0.66	130	113
B572231	299	229	2.2	1.29	20	150	< 0.5	12	0.59	< 0.5	15	116	2320	2.47	10	< 1	0.69	20	0.39	80	62
B572232	299	229	2.8	0.92	24	110	< 0.5	2	1.12	< 0.5	17	70	3510	3.27	10	< 1	0.48	20	0.49	150	186
B572233	299	229	1.8	1.33	20	110	< 0.5	4	1.15	< 0.5	13	89	2340	3.61	10	< 1	0.65	20	0.64	145	90
B572234	299	229	2.2	1.39	8	90	< 0.5	< 2	1.16	< 0.5	11	75	2750	3.55	10	< 1	0.61	30	0.58	155	108
B572235	299	229	3.2	0.90	14	140	< 0.5	6	1.52	< 0.5	14	103	2710	3.35	10	< 1	0.43	30	0.69	550	95
B572236	299	229	1.4	1.11	20	160	< 0.5	6	1.43	< 0.5	11	86	1760	2.93	10	< 1	0.45	20	0.73	160	47
B572237	299	229	1.8	0.54	8	60	< 0.5	< 2	1.46	< 0.5	9	122	2350	2.42	10	< 1	0.27	30	0.39	155	176
B572238	299	229	0.8	0.41	12	60	< 0.5	< 2	2.38	< 0.5	9	130	738	3.14	10	< 1	0.27	40	0.71	165	302
B572239	299	229	1.8	0.70	14	70	< 0.5	< 2	1.12	< 0.5	10	120	1960	4.55	10	< 1	0.41	20	0.37	125	112
B572240	299	229	1.4	0.63	12	50	< 0.5	< 2	0.74	< 0.5	12	105	1425	5.29	10	< 1	0.28	10	0.19	130	108
B572241	299	229	2.2	0.74	12	80	< 0.5	< 2	1.03	< 0.5	10	116	2370	2.91	10	< 1	0.33	20	0.22	170	74
B572242	299	229	3.0	0.60	16	70	< 0.5	< 2	1.27	< 0.5	16	122	2310	3.09	< 10	< 1	0.35	10	0.21	235	174
B572243	299	229	1.4	0.77	4	60	< 0.5	< 2	1.20	< 0.5	11	105	1270	4.60	10	< 1	0.36	10	0.30	175	75
B572244	299	229	2.4	1.06	4	70	< 0.5	< 2	1.04	< 0.5	20	92	2630	3.09	10	< 1	0.44	20	0.37	190	114
B572245	299	229	2.8	0.65	8	40	< 0.5	< 2	1.03	< 0.5	20	134	3340	3.22	< 10	< 1	0.33	< 10	0.20	150	136
B572246	299	229	2.2	0.89	16	60	< 0.5	< 2	0.73	< 0.5	17	118	2540	2.98	< 10	< 1	0.42	< 10	0.38	145	134
B572247	299	229	1.6	1.00	12	80	< 0.5	< 2	0.91	< 0.5	11	115	2340	2.64	< 10	< 1	0.48	10	0.54	125	116

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
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Certificate Date: 20-MAY-93
Invoice No. :I9314339
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CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A572208	299	229	0.02	4	270	32	22	1	14	< 0.01	< 10	< 10	10	< 10	14
A572209	299	229	0.02	6	410	22	12	1	19	< 0.01	< 10	< 10	11	10	18
A572210	299	229	0.02	2	370	14	2	1	22	< 0.01	< 10	< 10	13	10	16
A572211	299	229	0.03	4	330	18	6	1	26	< 0.01	< 10	< 10	11	10	22
A572212	299	229	0.02	3	310	26	4	1	25	< 0.01	< 10	< 10	14	< 10	42
A572213	299	229	0.03	3	330	134	2	3	20	< 0.01	< 10	< 10	21	10	132
A572214	299	229	0.03	3	390	12	4	1	26	< 0.01	< 10	< 10	15	10	86
A572215	299	229	0.03	6	370	102	20	2	25	< 0.01	< 10	< 10	14	10	170
A572216	299	229	0.02	4	360	28	6	1	19	< 0.01	< 10	< 10	10	10	54
A572217	299	229	0.01	7	300	84	28	1	25	< 0.01	< 10	< 10	12	10	106
A572218	299	229	0.02	6	320	12	2	2	21	< 0.01	< 10	< 10	31	20	100
A572219	299	229	0.01	6	320	16	6	2	18	< 0.01	< 10	< 10	28	10	46
A572220	299	229	0.01	4	340	8	4	2	15	< 0.01	< 10	< 10	22	10	44
A572221	299	229	0.01	5	330	6	2	2	13	< 0.01	< 10	< 10	16	10	32
A572222	299	229	0.01	6	310	18	2	1	13	< 0.01	< 10	< 10	15	10	32
A572223	299	229	0.01	6	390	38	2	2	14	< 0.01	< 10	< 10	19	10	112
A572224	299	229	0.02	7	410	16	4	4	19	0.01	< 10	< 10	29	10	52
A572225	299	229	0.02	4	390	6	2	4	13	0.02	< 10	< 10	37	< 10	52
A572226	299	229	0.02	5	420	2	2	4	23	0.02	< 10	< 10	38	20	32
A572227	299	229	0.01	5	550	6	4	3	16	0.01	< 10	< 10	30	10	32
A572228	299	229	0.03	3	430	4	4	4	21	0.03	< 10	< 10	42	10	30
A572229	299	229	0.05	4	420	4	2	6	23	0.04	< 10	< 10	52	10	40
A572230	299	229	0.02	5	410	4	2	3	20	0.01	< 10	< 10	27	10	32
A572231	299	229	0.02	4	370	14	< 2	3	16	0.01	< 10	< 10	26	< 10	24
A572232	299	229	0.01	5	520	8	2	2	23	< 0.01	< 10	< 10	16	10	32
A572233	299	229	0.02	6	520	2	< 2	3	20	0.02	< 10	< 10	30	10	22
A572234	299	229	0.01	4	450	8	2	3	29	0.01	< 10	< 10	31	10	22
A572235	299	229	0.01	4	480	4	2	3	33	< 0.01	< 10	< 10	24	10	34
A572236	299	229	0.02	4	520	6	< 2	3	33	0.01	< 10	< 10	28	10	22
A572237	299	229	0.01	4	430	10	2	2	20	< 0.01	< 10	< 10	16	10	20
A572238	299	229	0.01	4	250	10	2	1	25	< 0.01	< 10	< 10	11	10	22
A572239	299	229	0.01	4	360	12	2	2	16	< 0.01	< 10	< 10	17	10	20
A572240	299	229	0.01	3	390	10	2	1	14	< 0.01	< 10	< 10	11	10	30
A572241	299	229	0.01	5	500	4	2	2	20	< 0.01	< 10	< 10	13	< 10	26
A572242	299	229	0.01	4	450	4	2	1	18	< 0.01	< 10	< 10	12	10	20
A572243	299	229	0.01	4	460	8	4	2	20	< 0.01	< 10	< 10	14	10	16
A572244	299	229	0.01	6	510	2	2	3	24	< 0.01	< 10	< 10	21	10	28
A572245	299	229	0.01	6	340	8	2	1	15	< 0.01	< 10	< 10	14	10	20
A572246	299	229	0.01	6	420	8	4	3	15	< 0.01	< 10	< 10	21	10	26
A572247	299	229	0.01	5	470	4	2	3	19	0.01	< 10	< 10	27	10	20

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. :I9314339
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
A572248	299	229	1.4	1.27	6	130	< 0.5	< 2	0.46	< 0.5	16	105	2650	3.31	10	< 1	0.57	10	0.59	165	132
A572249	299	229	1.4	1.33	18	120	< 0.5	< 2	0.48	< 0.5	14	88	2340	3.84	10	< 1	0.53	10	0.83	195	141
A572250	299	229	1.8	1.03	< 2	110	< 0.5	< 2	0.51	< 0.5	16	102	2250	3.58	10	< 1	0.49	10	0.43	240	75
A572251	299	229	1.6	1.20	6	130	< 0.5	< 2	0.83	< 0.5	13	92	2630	3.34	10	< 1	0.51	20	0.78	175	115
A572252	299	229	2.2	1.35	12	140	< 0.5	< 2	0.76	< 0.5	18	102	2730	3.29	10	< 1	0.60	10	0.79	155	129
A572253	299	229	1.6	1.24	6	120	< 0.5	< 2	0.83	< 0.5	13	109	2290	2.99	10	< 1	0.58	10	0.73	165	173
A572254	299	229	2.4	1.37	6	100	< 0.5	< 2	0.24	< 0.5	17	92	2400	3.33	10	< 1	0.51	10	0.72	220	107
A572255	299	229	1.6	1.19	14	100	< 0.5	< 2	0.72	< 0.5	14	106	2030	3.37	10	< 1	0.51	10	0.58	190	112
A572256	299	229	1.6	0.60	10	40	< 0.5	< 2	1.14	< 0.5	16	107	1545	2.39	10	< 1	0.36	70	0.32	230	414
A572257	299	229	6.0	0.64	40	40	< 0.5	< 2	3.72	< 0.5	76	108	2790	5.03	20	< 1	0.28	120	0.73	285	4030
A572258	299	229	2.4	0.95	4	70	< 0.5	< 2	1.50	< 0.5	26	96	3020	2.70	10	< 1	0.43	40	0.70	145	888
A572259	299	229	1.6	1.25	< 2	190	< 0.5	< 2	0.90	< 0.5	10	110	2760	2.11	10	< 1	0.52	10	0.72	90	158
A572260	299	229	2.6	1.29	6	110	< 0.5	< 2	1.79	< 0.5	11	93	4110	2.13	10	< 1	0.58	40	0.81	155	827
A572261	299	229	3.2	1.04	16	80	< 0.5	< 2	2.10	< 0.5	42	141	4750	5.10	10	< 1	0.51	30	0.93	195	282
A572262	299	229	1.8	1.20	2	140	< 0.5	< 2	0.91	< 0.5	10	95	3200	3.08	10	< 1	0.50	40	0.60	110	119
A572263	299	229	1.4	1.13	6	180	< 0.5	< 2	1.07	< 0.5	8	98	1885	2.50	10	< 1	0.52	20	0.83	150	342
A572264	299	229	1.6	1.06	14	90	< 0.5	< 2	0.99	< 0.5	16	97	2090	4.08	10	< 1	0.43	10	0.66	165	126
A572265	299	229	1.8	1.34	2	190	< 0.5	< 2	1.48	< 0.5	13	116	2380	2.63	10	< 1	0.65	30	0.99	155	121
A572266	299	229	1.4	1.23	4	130	< 0.5	< 2	1.39	< 0.5	10	105	2080	2.88	10	< 1	0.62	40	0.92	115	176
A572267	299	229	1.4	1.58	< 2	170	< 0.5	< 2	0.66	< 0.5	15	113	2070	3.14	10	< 1	0.74	20	1.01	155	91
A572268	299	229	1.2	1.29	4	200	< 0.5	< 2	1.59	< 0.5	12	130	1415	2.91	10	< 1	0.52	30	1.05	175	972
A572269	299	229	1.2	1.31	< 2	240	< 0.5	2	1.34	< 0.5	14	110	1785	2.69	10	< 1	0.52	30	1.02	155	196
A572270	299	229	1.4	1.26	12	170	< 0.5	< 2	1.30	< 0.5	9	100	2090	2.93	10	< 1	0.46	20	0.86	130	60
A572271	299	229	2.4	1.60	6	130	< 0.5	< 2	0.97	< 0.5	10	105	1975	3.34	10	< 1	0.64	20	1.22	190	69
A572272	299	229	1.8	1.72	< 2	150	< 0.5	< 2	0.66	< 0.5	11	94	2860	2.57	10	< 1	0.76	10	1.21	110	139
A572273	299	229	1.6	1.50	4	100	< 0.5	2	0.83	< 0.5	13	103	2900	2.52	10	< 1	0.52	10	0.85	75	143
A572274	299	229	1.4	1.88	10	150	< 0.5	2	0.64	< 0.5	12	108	1870	3.07	10	< 1	0.90	10	1.43	100	71
A572275	299	229	2.0	1.82	12	130	< 0.5	4	0.40	< 0.5	18	121	3500	3.54	10	< 1	0.84	10	1.29	100	136
A572276	299	229	1.8	1.63	2	130	< 0.5	2	0.51	< 0.5	13	114	2990	3.05	10	< 1	0.81	10	1.17	100	144
A572277	299	229	2.0	1.36	10	100	< 0.5	2	0.63	< 0.5	15	104	2880	2.59	10	< 1	0.65	30	0.84	115	211
A572278	299	229	1.2	1.19	< 2	120	< 0.5	< 2	0.99	< 0.5	11	102	2490	2.22	10	< 1	0.54	20	0.68	100	184
A572279	299	229	1.4	1.06	< 2	140	< 0.5	6	2.07	< 0.5	12	119	2420	2.04	10	< 1	0.51	30	0.48	105	232
A572280	299	229	1.8	1.20	2	110	< 0.5	6	1.82	< 0.5	23	108	3390	3.03	10	< 1	0.58	30	0.60	90	116
A572281	299	229	1.4	1.08	< 2	90	< 0.5	< 2	1.46	< 0.5	18	95	2660	2.61	10	< 1	0.50	20	0.47	90	151
A572282	299	229	1.2	1.42	2	90	< 0.5	4	1.17	< 0.5	20	86	2260	2.72	10	1	0.65	30	0.78	85	168
A572283	299	229	1.2	1.18	< 2	100	< 0.5	4	1.63	< 0.5	41	101	2620	3.20	10	< 1	0.57	20	0.52	90	162
A572284	299	229	1.2	1.08	< 2	180	< 0.5	< 2	1.29	< 0.5	12	112	2810	2.23	10	< 1	0.53	30	0.52	75	134
A572285	299	229	0.8	1.23	< 2	200	< 0.5	< 2	1.36	< 0.5	12	124	2110	2.06	< 10	< 1	0.56	30	0.79	95	244
A572286	299	229	1.6	1.21	< 2	210	< 0.5	< 2	1.11	< 0.5	10	118	2440	1.89	< 10	< 1	0.51	30	0.68	75	156
A572287	299	229	1.2	1.20	< 2	150	< 0.5	< 2	1.28	< 0.5	17	147	2120	2.96	10	< 1	0.58	30	0.66	80	144

CERTIFICATION: Hart Bechler

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B572248	299	229	0.03	6	430	10	< 2	3	17	0.01	< 10	< 10	33	10	30
B572249	299	229	0.05	6	410	8	< 2	5	18	0.03	< 10	< 10	44	10	32
B572250	299	229	0.02	6	490	8	2	2	17	< 0.01	< 10	< 10	22	10	36
B572251	299	229	0.04	6	440	2	2	4	22	0.02	< 10	< 10	41	10	30
B572252	299	229	0.04	6	450	2	< 2	5	21	0.03	< 10	< 10	43	10	26
B572253	299	229	0.03	4	410	4	2	5	20	0.02	< 10	< 10	41	10	26
B572254	299	229	0.04	6	430	6	< 2	4	14	0.01	< 10	< 10	42	10	34
B572255	299	229	0.04	4	430	4	< 2	4	18	0.01	< 10	< 10	34	10	28
B572256	299	229	0.01	3	330	10	4	1	12	< 0.01	< 10	< 10	12	10	30
B572257	299	229	0.01	4	530	24	30	3	32	< 0.01	< 10	< 10	34	30	26
B572258	299	229	0.01	3	420	4	6	4	20	0.01	< 10	< 10	31	20	18
B572259	299	229	0.03	4	480	6	2	6	21	0.02	< 10	< 10	40	10	18
B572260	299	229	0.02	3	380	8	6	6	22	0.02	< 10	< 10	41	20	24
B572261	299	229	0.02	7	290	6	4	3	27	< 0.01	< 10	< 10	29	20	24
B572262	299	229	0.02	4	470	6	< 2	4	22	0.01	< 10	< 10	33	10	20
B572263	299	229	0.04	4	390	2	2	7	23	0.04	< 10	< 10	55	10	26
B572264	299	229	0.02	6	420	10	4	4	16	0.02	< 10	< 10	42	10	28
B572265	299	229	0.04	5	440	4	4	7	31	0.04	< 10	< 10	49	10	22
B572266	299	229	0.03	4	410	< 2	2	4	27	0.03	< 10	< 10	39	10	18
B572267	299	229	0.04	4	460	2	< 2	6	19	0.04	< 10	< 10	52	10	28
B572268	299	229	0.04	4	440	4	10	5	28	0.03	< 10	< 10	47	20	26
B572269	299	229	0.04	6	470	8	2	6	24	0.04	< 10	< 10	49	10	26
B572270	299	229	0.04	6	860	6	2	4	20	0.03	< 10	< 10	46	10	22
B572271	299	229	0.04	4	540	2	2	8	18	0.07	< 10	< 10	66	20	26
B572272	299	229	0.03	4	570	14	2	8	12	0.06	< 10	< 10	61	10	28
B572273	299	229	0.02	5	380	6	2	4	12	0.02	< 10	< 10	40	10	20
B572274	299	229	0.03	5	500	12	2	6	11	0.08	< 10	< 10	49	20	30
B572275	299	229	0.03	7	480	14	< 2	6	10	0.06	< 10	< 10	51	20	30
B572276	299	229	0.04	6	490	6	2	6	13	0.04	< 10	< 10	51	10	28
B572277	299	229	0.04	4	460	8	4	5	15	0.03	< 10	< 10	46	10	24
B572278	299	229	0.04	4	510	4	2	5	18	0.03	< 10	< 10	43	< 10	26
B572279	299	229	0.02	3	380	2	< 2	4	20	0.02	< 10	< 10	32	10	18
B572280	299	229	0.02	7	550	2	2	5	21	0.04	< 10	< 10	39	10	16
B572281	299	229	0.02	7	480	4	2	2	21	0.02	< 10	< 10	24	< 10	12
B572282	299	229	0.04	10	590	6	2	3	24	0.04	< 10	< 10	36	< 10	16
B572283	299	229	0.03	9	480	4	2	3	24	0.02	< 10	< 10	31	10	12
B572284	299	229	0.04	4	420	6	2	4	28	0.02	< 10	< 10	34	< 10	16
B572285	299	229	0.03	3	400	6	4	6	36	0.02	< 10	< 10	39	< 10	20
B572286	299	229	0.04	4	460	12	2	6	34	0.02	< 10	< 10	38	< 10	18
B572287	299	229	0.04	4	470	6	2	6	32	0.02	< 10	< 10	37	< 10	14

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :5
Certificate Date: 20-MAY-93
Invoice No. :I9314339
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Account :FC

CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
A572288	299	229	1.2	1.46	8	170	< 0.5	4	1.55	< 0.5	10	134	2480	1.89	10	< 1	0.59	30	0.85	95	160
A572289	299	229	0.8	1.22	4	120	< 0.5	< 2	1.05	< 0.5	18	108	2170	3.09	10	< 1	0.52	30	0.68	95	278
A572290	299	229	0.8	1.16	2	130	< 0.5	< 2	1.17	< 0.5	13	107	2130	3.12	10	< 1	0.48	20	0.77	85	124
A572291	299	229	0.6	1.10	< 2	130	< 0.5	4	1.12	< 0.5	13	125	1490	2.64	< 10	< 1	0.43	30	0.76	100	109
A572292	299	229	0.8	1.37	< 2	130	< 0.5	6	0.97	< 0.5	13	119	1730	2.50	< 10	< 1	0.59	30	0.95	90	200
A572293	299	229	0.4	1.40	4	150	< 0.5	< 2	1.16	< 0.5	9	121	1430	2.07	< 10	< 1	0.56	30	0.87	80	176
A572294	299	229	0.8	1.61	< 2	140	< 0.5	2	1.15	< 0.5	9	151	2060	1.83	< 10	< 1	0.58	20	0.80	80	144
A572295	299	229	0.6	1.49	6	120	< 0.5	2	1.43	< 0.5	18	125	1635	2.94	< 10	< 1	0.68	20	0.86	85	175
A572296	299	229	1.0	1.45	4	160	< 0.5	< 2	1.56	< 0.5	15	119	2230	2.75	< 10	< 1	0.64	20	0.85	90	239
A572297	299	229	0.8	1.45	2	180	< 0.5	< 2	1.40	< 0.5	14	134	1970	2.43	< 10	< 1	0.51	20	0.77	70	204
A572298	299	229	0.4	1.17	< 2	200	< 0.5	< 2	1.40	< 0.5	7	132	1705	1.84	< 10	< 1	0.49	30	0.75	85	188
A572299	299	229	0.6	1.09	4	190	< 0.5	< 2	1.44	< 0.5	11	158	1775	2.33	< 10	< 1	0.51	20	0.67	85	207
A572300	299	229	1.0	1.11	< 2	230	< 0.5	< 2	1.39	< 0.5	10	111	1945	1.97	< 10	< 1	0.41	20	0.69	80	143
A572301	299	229	1.6	1.05	< 2	100	< 0.5	10	1.40	< 0.5	15	128	3010	2.65	< 10	< 1	0.47	20	0.40	60	213
A572302	299	229	1.0	1.25	< 2	120	< 0.5	< 2	1.43	< 0.5	14	103	2010	2.48	< 10	< 1	0.48	20	0.64	60	236
A572303	299	229	0.8	1.31	2	150	< 0.5	< 2	1.30	< 0.5	12	108	1490	1.86	< 10	< 1	0.58	30	0.81	60	365
A572304	299	229	0.8	0.99	2	150	< 0.5	< 2	1.25	< 0.5	10	121	1510	2.14	< 10	< 1	0.44	20	0.70	60	215
A572305	299	229	0.8	0.97	< 2	140	< 0.5	< 2	1.39	< 0.5	9	121	2260	1.89	< 10	< 1	0.42	30	0.64	65	250
A572306	299	229	0.8	1.02	< 2	140	< 0.5	< 2	1.78	< 0.5	8	99	1995	1.68	< 10	< 1	0.41	20	0.97	75	222
A572307	299	229	1.0	0.99	< 2	170	< 0.5	4	1.33	< 0.5	10	109	2540	1.79	< 10	< 1	0.40	20	0.74	70	201
A572308	299	229	1.0	0.95	4	180	< 0.5	< 2	1.26	< 0.5	8	112	2010	1.82	< 10	1	0.43	20	0.77	70	127
A572309	299	229	0.8	1.02	< 2	210	< 0.5	< 2	2.06	< 0.5	9	115	1675	1.83	10	< 1	0.42	30	0.78	95	256
A572310	299	229	1.2	1.09	< 2	280	< 0.5	< 2	1.56	< 0.5	9	141	1930	1.72	< 10	< 1	0.39	20	0.78	90	195
A572311	299	229	1.0	1.04	10	130	< 0.5	< 2	1.88	< 0.5	9	157	1680	2.44	< 10	< 1	0.41	20	0.57	90	211
A572312	299	229	1.4	1.06	2	140	< 0.5	< 2	1.37	< 0.5	7	139	2130	1.72	< 10	< 1	0.39	20	0.49	80	335
A572313	299	229	1.2	1.11	6	170	< 0.5	< 2	1.57	< 0.5	8	142	2120	1.79	< 10	< 1	0.40	20	0.58	85	288
A572314	299	229	1.4	1.01	< 2	120	< 0.5	2	1.32	< 0.5	8	127	2080	2.12	< 10	< 1	0.38	30	0.44	75	422
A572315	299	229	1.4	1.13	4	230	< 0.5	< 2	1.50	< 0.5	10	130	1715	1.91	< 10	< 1	0.43	10	0.78	90	173
A572316	299	229	1.2	1.06	6	180	< 0.5	< 2	1.67	< 0.5	9	133	1940	2.10	< 10	< 1	0.45	10	0.65	90	184
A572317	299	229	1.4	1.04	< 2	190	< 0.5	< 2	1.56	< 0.5	7	100	1475	1.67	< 10	< 1	0.38	20	0.63	75	187
A572318	299	229	1.4	0.70	< 2	140	< 0.5	< 2	2.95	< 0.5	9	67	2050	1.71	< 10	< 1	0.33	20	0.52	125	190
A572319	299	229	0.8	0.84	< 2	180	< 0.5	< 2	1.75	< 0.5	9	59	1815	1.94	< 10	< 1	0.46	20	0.80	85	247
A572320	299	229	1.0	0.78	< 2	170	< 0.5	< 2	1.54	< 0.5	8	76	1710	1.92	< 10	< 1	0.41	30	0.70	105	201
A572321	299	229	1.0	0.84	8	120	< 0.5	< 2	1.28	< 0.5	14	83	2590	2.44	< 10	< 1	0.48	20	0.70	80	254
A572322	299	229	0.8	0.91	2	180	< 0.5	< 2	1.35	< 0.5	8	79	1705	1.68	< 10	< 1	0.48	20	0.80	95	219
A572323	299	229	0.8	0.93	4	190	< 0.5	< 2	1.99	< 0.5	9	126	1670	1.70	10	< 1	0.38	30	0.65	135	212
A572324	299	229	0.8	0.93	< 2	190	< 0.5	< 2	1.55	< 0.5	12	104	1980	1.65	< 10	< 1	0.40	30	0.67	95	217
A572325	299	229	1.4	1.13	2	200	< 0.5	< 2	2.06	< 0.5	9	126	2400	1.68	< 10	< 1	0.46	30	0.72	135	211
A572326	299	229	1.0	1.08	2	200	< 0.5	< 2	2.31	< 0.5	17	110	1700	2.07	10	< 1	0.47	30	0.76	130	567
A572327	299	229	0.6	1.24	< 2	370	< 0.5	< 2	1.46	< 0.5	9	116	1575	1.56	< 10	< 1	0.52	20	0.74	90	244

CERTIFICATION: Stan Buchan

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
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510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

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CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A572288	299	229	0.04	4	500	12	< 2	7	40	0.03	< 10	< 10	48	< 10	20
A572289	299	229	0.04	9	610	10	< 2	3	30	0.02	< 10	< 10	36	< 10	16
A572290	299	229	0.03	7	520	6	< 2	4	34	0.02	< 10	< 10	36	< 10	16
A572291	299	229	0.04	6	510	2	2	4	34	0.01	< 10	< 10	33	< 10	18
A572292	299	229	0.06	10	620	8	2	4	31	0.03	< 10	< 10	39	< 10	18
A572293	299	229	0.04	7	560	6	2	4	38	0.02	< 10	< 10	37	< 10	16
A572294	299	229	0.02	7	510	16	2	7	43	0.02	< 10	< 10	43	< 10	18
A572295	299	229	0.03	9	580	10	2	3	49	0.03	< 10	< 10	35	< 10	14
A572296	299	229	0.02	8	610	8	4	3	48	0.03	< 10	< 10	34	< 10	16
A572297	299	229	0.02	6	560	2	2	4	56	0.02	< 10	< 10	35	< 10	16
A572298	299	229	0.03	2	380	6	< 2	6	50	0.02	< 10	< 10	40	< 10	14
A572299	299	229	0.03	5	430	< 2	4	4	55	0.01	< 10	< 10	29	< 10	12
A572300	299	229	0.02	4	450	6	< 2	4	79	0.01	< 10	< 10	30	< 10	14
A572301	299	229	0.01	8	560	4	2	2	33	< 0.01	< 10	< 10	17	< 10	10
A572302	299	229	0.02	7	590	2	2	3	55	0.01	< 10	< 10	27	< 10	12
A572303	299	229	0.03	6	570	2	2	3	49	0.02	< 10	< 10	30	< 10	12
A572304	299	229	0.03	4	420	6	2	4	49	0.01	< 10	< 10	30	< 10	14
A572305	299	229	0.04	3	480	4	2	6	61	0.02	< 10	< 10	40	< 10	14
A572306	299	229	0.02	2	480	4	< 2	5	62	0.01	< 10	< 10	37	< 10	14
A572307	299	229	0.04	4	400	6	2	5	49	0.02	< 10	< 10	39	< 10	16
A572308	299	229	0.03	4	360	4	< 2	5	53	0.02	< 10	< 10	37	< 10	16
A572309	299	229	0.03	3	420	4	2	5	79	0.02	< 10	< 10	37	< 10	14
A572310	299	229	0.04	4	370	6	< 2	7	74	0.02	< 10	< 10	43	< 10	18
A572311	299	229	0.02	4	390	6	2	3	53	< 0.01	< 10	< 10	23	10	12
A572312	299	229	0.01	4	400	4	< 2	4	42	0.01	< 10	< 10	27	< 10	14
A572313	299	229	0.01	4	410	4	4	5	51	0.01	< 10	< 10	31	< 10	14
A572314	299	229	0.01	6	480	6	4	4	44	0.01	< 10	< 10	27	10	14
A572315	299	229	0.04	5	470	8	4	6	97	0.02	< 10	< 10	39	< 10	18
A572316	299	229	0.03	4	460	6	4	4	54	0.01	< 10	< 10	29	< 10	16
A572317	299	229	0.02	4	520	6	2	6	65	0.01	< 10	< 10	34	< 10	12
A572318	299	229	0.02	4	490	8	2	4	60	0.01	< 10	< 10	27	< 10	12
A572319	299	229	0.02	4	400	< 2	2	6	57	0.03	< 10	< 10	38	< 10	14
A572320	299	229	0.02	3	380	6	2	6	52	0.03	< 10	< 10	35	< 10	12
A572321	299	229	0.02	4	450	6	4	4	46	0.02	< 10	< 10	28	< 10	12
A572322	299	229	0.03	3	450	6	2	7	96	0.03	< 10	< 10	41	< 10	14
A572323	299	229	0.02	3	440	6	2	5	207	0.01	< 10	< 10	31	< 10	14
A572324	299	229	0.03	4	420	4	2	6	57	0.02	< 10	< 10	35	< 10	14
A572325	299	229	0.02	4	410	6	2	6	59	0.02	< 10	< 10	36	20	20
A572326	299	229	0.03	4	400	4	4	7	55	0.03	< 10	< 10	41	100	16
A572327	299	229	0.04	3	460	8	2	9	214	0.05	< 10	< 10	52	< 10	14

CERTIFICATION: Stuart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572328	299	229	0.4	1.11	4	270	< 0.5	< 2	1.49	< 0.5	5	133	1065	1.45	< 10	< 1	0.52	30	0.84	80	235
H572329	299	229	0.8	1.00	2	260	< 0.5	< 2	1.76	< 0.5	7	86	1375	1.70	< 10	< 1	0.53	30	0.76	75	693
H572330	299	229	1.2	1.07	4	200	< 0.5	< 2	1.79	< 0.5	9	102	1810	1.71	< 10	< 1	0.44	30	0.65	80	356
H572331	299	229	1.2	1.15	< 2	150	< 0.5	< 2	1.97	< 0.5	12	93	1875	1.72	< 10	< 1	0.51	40	0.77	100	399
H572332	299	229	1.6	1.42	< 2	100	< 0.5	< 2	1.84	< 0.5	11	91	3370	1.68	< 10	< 1	0.66	40	0.89	90	455
H572333	299	229	0.8	1.66	< 2	100	< 0.5	< 2	0.96	< 0.5	13	93	1780	1.92	< 10	< 1	0.80	20	1.42	90	178
H572334	299	229	0.4	1.73	< 2	100	< 0.5	< 2	0.92	< 0.5	15	88	1260	2.20	< 10	< 1	0.59	10	1.38	90	174
H572335	299	229	0.6	1.41	4	150	< 0.5	< 2	0.97	< 0.5	10	106	1500	1.82	< 10	< 1	0.51	10	1.01	80	254
H572336	299	229	0.4	1.50	< 2	90	< 0.5	< 2	0.88	< 0.5	9	87	1425	1.65	< 10	< 1	0.64	20	1.09	75	210
H572337	299	229	0.6	1.23	2	180	< 0.5	< 2	1.36	< 0.5	10	105	1810	1.64	< 10	< 1	0.50	30	0.65	70	208
H572338	299	229	0.8	1.33	< 2	170	< 0.5	< 2	1.03	< 0.5	8	119	1415	1.51	< 10	< 1	0.54	20	0.88	75	224
H572339	299	229	0.8	1.32	< 2	230	< 0.5	< 2	1.03	< 0.5	9	107	1300	1.77	< 10	< 1	0.55	20	0.90	75	274
H572340	299	229	0.4	1.39	8	250	< 0.5	< 2	0.74	< 0.5	11	101	1600	1.56	< 10	< 1	0.52	< 10	1.00	75	167
H572341	299	229	0.4	1.36	2	290	< 0.5	< 2	0.82	< 0.5	9	90	1430	1.62	< 10	< 1	0.55	< 10	1.03	80	182
H572342	299	229	0.6	1.44	< 2	270	< 0.5	< 2	0.78	< 0.5	8	91	1380	1.55	< 10	< 1	0.62	< 10	1.07	70	288
H572343	299	229	0.6	1.56	2	220	< 0.5	< 2	0.82	< 0.5	22	86	1465	2.39	< 10	< 1	0.53	< 10	1.17	100	107
H572344	299	229	2.8	1.46	< 2	170	< 0.5	< 2	0.82	< 0.5	12	71	4540	2.22	< 10	< 1	0.49	10	1.15	105	281
H572345	299	229	0.8	1.32	2	190	< 0.5	< 2	0.78	< 0.5	12	92	1585	1.52	< 10	< 1	0.47	< 10	1.03	85	168
H572346	299	229	1.0	1.57	< 2	240	< 0.5	< 2	1.03	< 0.5	8	104	1470	1.57	< 10	< 1	0.51	10	1.13	95	247
H572347	299	229	0.6	1.32	< 2	230	< 0.5	< 2	1.06	< 0.5	9	92	1375	1.77	< 10	< 1	0.50	10	0.97	80	274
H572348	299	229	0.6	1.56	6	250	< 0.5	< 2	0.86	< 0.5	9	101	1720	1.50	< 10	< 1	0.69	10	1.15	75	306
H572349	299	229	0.6	1.28	< 2	200	< 0.5	< 2	0.66	< 0.5	12	91	1860	2.04	< 10	< 1	0.56	< 10	0.98	65	336
H572350	299	229	0.4	1.19	< 2	180	< 0.5	< 2	0.60	< 0.5	19	127	1580	2.40	< 10	< 1	0.59	< 10	0.89	60	205
H572351	299	229	0.4	1.00	2	150	< 0.5	< 2	0.58	< 0.5	27	124	1350	2.21	< 10	< 1	0.48	< 10	0.76	60	197
H572352	299	229	0.6	1.09	< 2	170	< 0.5	< 2	0.71	< 0.5	15	108	1920	1.98	< 10	< 1	0.57	10	0.88	60	213
H572353	299	229	0.6	1.23	10	200	< 0.5	< 2	0.86	< 0.5	12	101	1785	1.86	< 10	< 1	0.55	10	1.00	90	188
H572354	299	229	1.0	1.22	6	180	< 0.5	< 2	1.32	< 0.5	12	113	2120	1.51	< 10	< 1	0.41	20	0.79	95	173
H572355	299	229	2.8	0.69	8	100	< 0.5	< 2	1.80	< 0.5	14	118	1890	3.32	< 10	< 1	0.33	20	0.21	100	125
H572356	299	229	1.8	1.16	6	230	< 0.5	< 2	1.81	< 0.5	10	117	2260	1.96	< 10	< 1	0.51	40	0.60	125	482
H572357	299	229	1.6	0.79	6	90	< 0.5	< 2	2.14	< 0.5	9	134	2280	2.29	< 10	< 1	0.32	10	0.27	130	272
H572358	299	229	1.2	1.01	4	110	< 0.5	< 2	1.97	< 0.5	14	89	1310	3.14	< 10	< 1	0.32	30	0.48	115	102
H572359	299	229	0.8	1.42	< 2	320	< 0.5	< 2	1.66	< 0.5	13	102	1830	1.99	< 10	< 1	0.58	20	0.88	100	100
H572360	299	229	0.8	1.23	10	260	< 0.5	< 2	1.41	< 0.5	13	80	1785	1.99	< 10	< 1	0.52	30	0.75	75	197
H572361	299	229	1.0	1.21	< 2	200	< 0.5	< 2	1.06	< 0.5	13	117	2360	2.25	< 10	< 1	0.44	40	0.46	55	251
H572362	299	229	0.8	1.60	< 2	250	< 0.5	< 2	1.33	< 0.5	14	126	2280	1.86	10	< 1	0.57	40	0.63	65	315
H572363	299	229	1.2	1.57	< 2	370	< 0.5	< 2	1.22	< 0.5	9	133	2020	1.57	< 10	< 1	0.76	60	1.05	60	1020
H572364	299	229	1.4	1.81	6	230	< 0.5	< 2	0.94	< 0.5	8	120	3010	1.78	10	< 1	0.96	60	1.36	65	1030
H572365	299	229	1.2	1.72	6	190	< 0.5	< 2	1.25	< 0.5	9	105	2680	1.60	< 10	< 1	0.80	20	1.17	65	537
H572366	299	229	0.8	1.82	4	190	< 0.5	< 2	0.71	< 0.5	10	112	1920	1.69	< 10	< 1	0.89	10	1.47	65	382
H572367	299	229	0.8	1.53	8	250	< 0.5	< 2	0.71	< 0.5	6	124	2120	1.45	< 10	< 1	0.82	10	1.28	70	421

CERTIFICATION: Stan Buchan

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. :I9314339
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A572328	299	229	0.03	3	350	12	4	7	55	0.04	< 10	< 10	45	< 10	12
A572329	299	229	0.02	3	390	8	4	7	364	0.04	< 10	< 10	44	< 10	12
A572330	299	229	0.03	3	460	14	4	6	65	0.02	< 10	< 10	37	< 10	14
A572331	299	229	0.03	6	510	4	4	6	129	0.03	< 10	< 10	43	< 10	14
A572332	299	229	0.03	6	590	10	4	7	61	0.06	< 10	< 10	58	< 10	18
A572333	299	229	0.05	10	600	8	< 2	8	41	0.10	< 10	< 10	73	< 10	22
A572334	299	229	0.04	10	660	14	2	6	49	0.09	< 10	< 10	60	< 10	24
A572335	299	229	0.04	6	500	8	2	7	50	0.07	< 10	< 10	59	< 10	18
A572336	299	229	0.04	4	430	6	2	10	44	0.05	< 10	< 10	69	< 10	20
A572337	299	229	0.03	4	410	4	< 2	7	56	0.02	< 10	< 10	45	< 10	18
A572338	299	229	0.04	4	370	6	< 2	7	43	0.03	< 10	< 10	45	< 10	14
A572339	299	229	0.03	4	390	8	2	7	44	0.06	< 10	< 10	52	< 10	16
A572340	299	229	0.05	3	420	10	< 2	8	44	0.11	< 10	< 10	66	< 10	26
A572341	299	229	0.04	4	400	12	4	8	46	0.11	< 10	< 10	66	< 10	22
A572342	299	229	0.04	3	380	12	2	8	43	0.11	< 10	< 10	65	< 10	20
A572343	299	229	0.04	6	440	10	4	8	45	0.12	< 10	< 10	69	< 10	24
A572344	299	229	0.04	3	420	12	2	8	45	0.10	< 10	< 10	63	< 10	28
A572345	299	229	0.03	4	400	4	2	6	47	0.08	< 10	< 10	54	< 10	26
A572346	299	229	0.03	4	420	8	2	7	64	0.07	< 10	< 10	62	< 10	26
A572347	299	229	0.03	4	400	10	2	7	46	0.07	< 10	< 10	58	< 10	18
A572348	299	229	0.04	4	450	14	2	9	52	0.11	< 10	< 10	75	< 10	26
A572349	299	229	0.03	5	460	< 2	4	7	38	0.09	< 10	< 10	55	< 10	22
A572350	299	229	0.03	4	490	4	< 2	6	33	0.08	< 10	< 10	51	< 10	22
A572351	299	229	0.03	5	460	10	< 2	4	32	0.06	< 10	< 10	40	< 10	16
A572352	299	229	0.02	4	490	8	< 2	6	36	0.05	< 10	< 10	46	10	20
A572353	299	229	0.04	4	460	12	2	8	44	0.06	< 10	< 10	60	< 10	38
A572354	299	229	0.03	3	430	12	2	6	52	0.02	< 10	< 10	47	< 10	34
A572355	299	229	0.01	6	480	18	4	3	45	< 0.01	< 10	< 10	17	< 10	34
A572356	299	229	0.02	4	420	10	4	6	51	0.03	< 10	< 10	40	< 10	30
A572357	299	229	0.01	5	430	8	6	4	40	< 0.01	< 10	< 10	22	< 10	28
A572358	299	229	0.01	4	520	36	2	6	60	0.01	< 10	< 10	30	< 10	36
A572359	299	229	0.03	4	500	10	2	9	109	0.06	< 10	< 10	61	< 10	24
A572360	299	229	0.02	4	480	4	2	8	103	0.04	< 10	< 10	51	< 10	22
A572361	299	229	0.01	5	550	14	2	8	53	0.02	< 10	< 10	41	< 10	26
A572362	299	229	0.02	5	560	12	2	10	62	0.03	< 10	< 10	54	< 10	30
A572363	299	229	0.05	3	490	6	10	10	61	0.08	< 10	< 10	74	< 10	20
A572364	299	229	0.05	7	600	8	8	10	56	0.11	< 10	< 10	84	< 10	20
A572365	299	229	0.04	8	630	6	4	9	67	0.08	< 10	< 10	70	< 10	18
A572366	299	229	0.04	9	540	4	< 2	9	51	0.10	< 10	< 10	78	< 10	18
A572367	299	229	0.05	6	500	6	2	10	56	0.12	< 10	< 10	83	< 10	18

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :5
Certificate Date: 20-MAY-93
Invoice No. :19314339
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572368	299	229	0.6	1.63	4	150	< 0.5	< 2	0.70	< 0.5	12	85	1245	1.80	10	< 1	0.81	< 10	1.47	80	146
H572369	299	229	2.4	1.41	6	90	0.5	< 2	0.68	< 0.5	11	80	2490	1.69	10	< 1	0.64	20	1.17	80	546
H572370	299	229	0.8	1.76	< 2	120	0.5	< 2	0.74	< 0.5	12	88	1510	1.86	10	< 1	0.83	10	1.51	90	92
H572371	299	229	1.4	1.56	2	130	< 0.5	< 2	0.67	< 0.5	14	77	2230	2.02	10	< 1	0.82	10	1.39	70	682
H572372	299	229	1.4	1.51	< 2	110	< 0.5	6	0.78	< 0.5	8	72	2780	1.67	10	< 1	0.91	10	1.48	60	200
H572373	299	229	0.8	1.33	< 2	110	< 0.5	< 2	2.17	< 0.5	10	72	1350	1.74	10	< 1	0.80	10	1.27	70	180
H572374	299	229	0.6	1.21	4	120	< 0.5	< 2	2.51	< 0.5	15	68	839	2.21	10	< 1	0.72	10	1.08	60	215
H572375	299	229	0.6	1.21	< 2	110	< 0.5	< 2	2.13	< 0.5	11	78	1415	1.90	10	< 1	0.70	10	1.08	60	283
H572376	299	229	0.6	1.09	6	110	< 0.5	< 2	2.67	< 0.5	10	83	1700	1.72	10	< 1	0.67	10	0.95	50	189
H572377	299	229	0.8	1.09	2	130	< 0.5	< 2	2.72	< 0.5	8	90	1595	1.68	10	< 1	0.60	30	0.84	50	248
H572378	299	229	0.4	1.18	< 2	200	< 0.5	< 2	2.60	< 0.5	7	96	1160	1.22	10	< 1	0.63	30	0.90	55	169
H572379	299	229	1.0	1.14	4	240	< 0.5	< 2	1.99	< 0.5	7	103	1570	1.42	10	< 1	0.71	20	0.99	65	348
H572380	299	229	0.4	1.07	4	180	< 0.5	< 2	2.39	< 0.5	8	101	1035	1.47	10	< 1	0.74	10	1.01	45	381
H572381	299	229	0.4	1.04	2	190	< 0.5	< 2	2.21	< 0.5	7	97	1160	1.37	10	< 1	0.75	10	1.02	45	331
H572382	299	229	0.4	1.04	4	160	< 0.5	< 2	2.70	< 0.5	9	93	1415	1.30	10	< 1	0.77	10	1.07	45	409
H572383	299	229	0.6	1.07	< 2	190	< 0.5	< 2	2.39	< 0.5	7	86	1450	1.25	10	< 1	0.77	10	1.04	45	417
H572384	299	229	0.8	1.41	< 2	130	< 0.5	< 2	1.78	< 0.5	16	94	1825	2.45	10	< 1	0.92	10	1.41	70	115
H572385	299	229	0.8	1.20	2	100	< 0.5	6	1.95	< 0.5	14	98	1780	1.81	10	2	0.81	< 10	1.22	55	278
H572386	299	229	0.6	1.17	6	100	< 0.5	< 2	1.97	< 0.5	9	95	1445	1.80	10	< 1	0.83	< 10	1.26	55	188
H572387	299	229	1.0	1.06	4	160	< 0.5	< 2	1.57	< 0.5	10	91	2390	1.62	10	1	0.74	< 10	1.05	50	156
H572388	299	229	0.8	1.23	8	240	< 0.5	< 2	1.38	< 0.5	12	87	2210	1.66	10	< 1	0.82	< 10	1.17	65	128
H572389	299	229	0.8	1.12	12	250	< 0.5	2	1.33	< 0.5	13	101	1615	1.72	10	< 1	0.69	< 10	1.00	65	182
H572390	299	229	0.6	1.24	< 2	230	< 0.5	< 2	1.70	< 0.5	9	90	1160	1.67	10	< 1	0.83	10	1.12	70	181

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

.o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 151
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. :I9314339
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314339

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B572368	299	229	0.05	9	650	2	2	9	54	0.13	< 10	< 10	78	10	18
B572369	299	229	0.03	9	600	14	4	6	36	0.07	< 10	< 10	54	10	26
B572370	299	229	0.05	12	690	8	< 2	8	41	0.11	< 10	< 10	71	10	24
B572371	299	229	0.04	11	650	4	6	7	36	0.10	< 10	< 10	73	10	20
B572372	299	229	0.04	10	570	4	< 2	8	35	0.12	< 10	< 10	75	10	20
B572373	299	229	0.04	9	640	4	2	7	122	0.11	< 10	< 10	65	10	20
B572374	299	229	0.03	11	680	6	< 2	5	201	0.08	< 10	< 10	48	10	22
B572375	299	229	0.04	9	590	< 2	2	6	117	0.08	< 10	< 10	57	10	18
B572376	299	229	0.03	10	1180	4	2	5	132	0.07	< 10	< 10	49	10	16
B572377	299	229	0.03	7	530	4	2	7	117	0.06	< 10	< 10	50	10	12
B572378	299	229	0.04	3	470	6	4	9	123	0.07	< 10	< 10	61	10	14
B572379	299	229	0.05	4	460	6	4	9	100	0.10	< 10	< 10	69	10	18
B572380	299	229	0.04	4	480	2	2	9	120	0.11	< 10	< 10	68	10	14
B572381	299	229	0.04	4	410	4	< 2	10	102	0.12	< 10	< 10	72	10	16
B572382	299	229	0.04	5	450	4	4	9	135	0.11	< 10	< 10	77	20	14
B572383	299	229	0.05	5	450	8	4	9	119	0.11	< 10	< 10	75	10	14
B572384	299	229	0.05	13	710	2	< 2	8	95	0.13	< 10	< 10	73	10	18
B572385	299	229	0.05	11	590	4	2	7	107	0.11	< 10	< 10	68	10	16
B572386	299	229	0.04	8	600	2	2	7	119	0.11	< 10	< 10	67	10	14
B572387	299	229	0.05	5	440	6	2	10	73	0.12	< 10	< 10	79	10	14
B572388	299	229	0.07	4	490	4	< 2	12	61	0.16	< 10	< 10	91	10	18
B572389	299	229	0.07	4	450	4	2	10	57	0.15	< 10	< 10	80	10	16
B572390	299	229	0.06	5	490	4	< 2	12	65	0.17	< 10	< 10	90	10	16

CERTIFICATION: Jan Buchler

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): ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :5
Certificate Date: 21-MAY-93
Invoice No. :I9314340
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314340

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568049	208	276	0.09	0.086	1.03	8720						
H568050	208	276	0.05	0.045	1.17	8260						
H568051	208	276	0.09	0.032	1.58	10060						
H568052	208	276	0.09	0.030	1.03	9780						
H568053	208	276	0.08	0.035	0.69	10000						
H568054	208	276	0.09	0.020	1.23	10380						
H568055	208	276	0.08	0.025	0.89	11140						
H568056	208	276	0.08	0.044	0.72	8860						
H568057	208	276	0.04	0.026	0.38	8700						
H568058	208	276	0.05	0.014	0.31	9500						
H568059	208	276	0.04	0.033	0.58	9500						
H568060	208	276	0.04	0.025	0.51	10560						
H568061	208	276	0.04	0.046	0.31	11120						
H568062	208	276	0.04	0.020	0.27	8740						
H568063	208	276	0.05	0.030	0.55	9800						
H568064	208	276	0.07	0.032	0.65	9100						
H568065	208	276	0.07	0.058	0.75	11560						
H568066	208	276	0.04	0.065	1.23	9600						
H568067	208	276	0.04	0.051	1.51	10640						
H568068	208	276	0.03	0.048	0.41	9360						
H568069	208	276	0.05	0.057	1.10	9130						
H568070	208	276	0.11	0.058	1.10	11150						
H568071	208	276	0.05	0.050	0.79	10600						
H568072	208	276	0.06	0.032	0.31	11800						
H568073	208	276	0.04	0.025	0.24	9850						
H568074	208	276	0.03	0.024	0.45	10220						
H568075	208	276	0.03	0.044	0.55	10320						
H568076	208	276	0.04	0.109	0.72	10340						
H568077	208	276	0.03	0.041	0.31	11000						
H568078	208	276	0.04	0.068	0.34	10820						
H568079	208	276	0.05	0.137	0.58	7520						
H568080	208	276	0.05	0.148	0.31	8840						
H568081	208	276	0.05	0.066	0.75	11440						
H568082	208	276	0.06	0.070	0.69	11340						
H568083	208	273	0.05	0.050	0.27	12050						
H568084	208	274	0.03	0.078	0.17	5240						
H568085	208	276	0.06	0.063	0.27	11500						
H568086	208	273	0.05	0.108	0.45	12300						
H568087	208	273	0.06	0.226	0.38	13230						
H568088	208	274	0.04	0.167	0.58	6900						

CERTIFICATION: D Christie

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): ARCHER CATHRO & ASSOC. (1981) LTD.
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VANCOUVER, BC
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Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-MAY-93
Invoice No. : I9314340
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314340

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H568089	208	273	0.05	0.128	0.45	13000
H568090	208	274	0.05	0.093	0.51	6780
H568091	208	273	0.07	0.067	0.27	12480
H568092	208	273	0.06	0.090	0.34	12680
H568093	208	276	0.05	0.078	0.21	8900
H568094	208	276	0.06	0.085	0.27	7880
H568095	208	276	0.05	0.056	0.07	9420
H568096	208	273	0.13	0.028	0.24	12300
H568097	208	273	0.17	0.020	0.55	13560
H568098	208	273	0.15	0.051	0.34	12680
H568099	208	273	0.30	0.016	0.31	13740
H568100	208	273	0.39	0.032	0.45	13540
H568101	208	273	0.30	0.020	0.31	12640
H568102	208	273	0.40	0.019	0.41	14000
H568103	208	273	0.33	0.029	0.27	13400
H568104	208	273	0.21	0.014	0.14	13820
H568105	208	273	0.40	0.036	0.45	13420
H568106	208	273	0.59	0.021	0.51	12000
H568107	208	273	0.33	0.045	0.41	14000
H568108	208	273	0.24	0.027	0.27	13450
H568109	208	273	0.56	0.029	0.65	13140
H568110	208	273	0.36	0.028	0.45	12500
H568111	208	276	0.91	0.086	0.58	11450
H568112	208	273	0.26	0.022	0.34	13490
H568113	208	276	0.32	0.057	0.45	10440
H568114	208	276	0.22	0.043	0.27	11790
H568115	208	273	0.19	0.069	0.31	11940
H568116	208	276	0.42	0.075	0.58	11240
H568117	208	273	0.34	0.051	0.62	12200
H568118	208	276	0.21	0.041	0.31	11480
H568119	208	276	0.23	0.054	0.27	11440
H568120	208	276	0.24	0.046	0.45	7950
H568121	208	273	0.47	0.085	0.41	12540
H568122	208	276	0.45	0.065	0.72	11790
H568123	208	276	0.50	0.073	0.34	11420
H568124	208	276	0.19	0.050	0.34	11400
H568125	208	273	0.33	0.091	0.55	11960
H568126	208	273	0.34	0.043	0.58	11900
H568127	208	276	0.45	0.066	0.62	10100
H568128	208	276	0.56	0.033	0.62	7920

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568129	208	270	0.50	0.055	1.65	17400						
H568130	208	273	0.25	0.061	0.38	12380						
H568131	208	273	0.29	0.121	0.38	11930						
H568132	208	273	0.21	0.055	0.31	12300						
H568133	208	276	0.54	0.084	0.65	10210						
H568134	208	273	0.30	0.028	0.41	12300						
H568135	208	273	0.19	0.111	0.34	12700						
H568136	208	276	0.19	0.009	0.27	9100						
H568137	208	273	0.16	0.029	0.24	12200						
H568138	208	274	0.16	0.013	0.31	6520						
H568139	208	273	0.21	0.023	0.38	13030						
H568140	208	273	0.25	0.036	0.41	12050						
H568141	208	273	0.23	0.057	0.34	13080						
H568142	208	273	0.44	0.068	0.69	13320						
H568143	208	273	0.19	0.040	0.31	11900						
H568144	208	273	0.18	0.037	0.31	13280						
H568145	208	273	0.25	0.066	0.41	12920						
H568146	208	273	0.45	0.064	0.82	13110						
H568147	208	273	0.31	0.038	0.58	13430						
H568148	208	273	0.18	0.034	0.21	12800						
H568149	208	276	0.24	0.034	0.45	11730						
H568150	208	273	0.18	0.043	0.34	13030						
H568151	208	273	0.18	0.053	0.34	11820						
H568152	208	276	0.30	0.115	0.41	10220						
H568153	208	273	0.21	0.035	0.41	11950						
H568154	208	273	0.25	0.020	0.38	14900						
H568155	208	276	0.24	0.028	0.51	10500						
H568156	208	273	0.17	0.034	0.24	13950						
H568157	208	273	0.15	0.049	0.24	12200						
H568158	208	273	0.18	0.088	0.27	12450						
H568159	208	276	0.30	0.028	0.31	11220						
H568160	208	276	0.14	0.021	0.21	10650						
H568161	208	276	0.12	0.011	0.21	11600						
H568162	208	276	0.16	0.012	0.24	11280						
H568163	208	276	0.20	0.089	0.27	11250						
H568164	208	273	0.22	0.026	0.34	12020						
H568165	208	276	0.23	0.026	0.27	11100						
H568166	208	276	0.33	0.036	0.82	11350						
H568167	208	276	0.16	0.022	0.27	11400						
H568168	208	273	0.17	0.013	0.27	11920						

CERTIFICATION: D Christie

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568169	208	273	0.24	0.017	0.51	12200						
H568170	208	276	0.34	0.024	0.48	9150						
H568171	208	273	0.22	0.012	0.34	12820						
H568172	208	273	0.21	0.015	0.24	12150						
H568173	208	276	0.37	0.018	0.65	11200						
H568174	208	276	0.15	0.023	0.24	11040						
H568175	208	270	0.18	0.021	0.24	16830						
H568176	208	276	0.43	0.020	0.96	8150						
H568177	208	276	0.19	0.018	0.34	11730						
H568178	208	276	0.22	0.024	0.48	10870						
H568179	208	273	0.18	0.031	0.24	11830						
H568180	208	273	0.16	0.037	0.24	11850						
H568181	208	276	0.18	0.035	0.21	11220						
H568182	208	276	0.14	0.025	0.21	11620						
H568183	208	276	0.30	0.022	0.62	11220						
H568184	208	276	0.18	0.071	0.31	10540						
H568185	208	276	0.16	0.044	0.24	10860						
H568186	208	276	0.15	0.026	0.17	10700						
H568187	208	276	0.16	0.049	0.24	10650						
H568188	208	276	0.11	0.019	0.17	11710						
H568189	208	273	0.20	0.029	0.24	12040						
H568190	208	276	0.20	0.018	0.24	11380						
H568191	208	276	0.18	0.062	0.27	11420						
H568192	208	273	0.18	0.061	0.27	12000						
H568193	208	276	0.20	0.091	0.27	10950						
H568194	208	276	0.15	0.082	0.17	11070						
H568195	208	276	0.31	0.071	0.48	9880						
H568196	208	276	0.25	0.064	0.31	10720						
H568197	208	276	0.22	0.080	0.24	10940						
H568198	208	276	0.21	0.085	0.27	11020						
H568199	208	276	0.20	0.036	0.17	11600						
H568200	208	276	0.19	0.034	0.21	11340						
H568201	208	276	0.12	0.019	0.17	10450						
H568202	208	276	0.16	0.049	0.27	11800						
H568203	208	276	0.19	0.022	0.24	11420						
H568204	208	276	0.21	0.102	0.31	11050						
H568205	208	276	0.16	0.038	0.24	11200						
H568206	208	276	0.18	0.116	0.21	11700						
H568207	208	273	0.15	0.092	0.24	12360						
H568208	208	276	0.15	0.093	0.24	10640						

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H568209	208	276	0.22	0.083	0.31	11280
H568210	208	276	0.26	0.078	0.24	10700
H568211	208	276	0.16	0.020	0.17	10000
H568212	208	273	0.12	0.035	0.17	12500
H568213	208	273	0.12	0.031	0.10	12700
H568214	208	276	0.16	0.043	0.17	11400
H568215	208	273	0.10	0.020	0.14	12020
H568216	208	273	0.14	0.025	0.21	12010
H568217	208	276	0.24	0.106	0.38	11700
H568218	208	273	0.12	0.110	0.24	11980
H568219	208	276	0.24	0.051	0.34	10870
H568220	208	273	0.24	0.036	0.45	13160
H568221	208	276	0.12	0.045	0.17	11480
H568222	208	276	0.18	0.051	0.27	11070
H568223	208	276	0.10	0.114	0.14	11800
H568224	208	276	0.10	0.112	0.17	11640
H568225	208	276	0.15	0.125	0.27	11040
H568226	208	276	0.11	0.098	0.17	11680
H568227	208	276	0.19	0.162	0.21	10880
H568228	208	273	0.28	0.084	0.38	12130
H568229	208	273	0.16	0.036	0.17	12320
H568230	208	276	0.19	0.038	0.31	10750
H568231	208	273	0.13	0.048	0.14	13080
H568232	208	273	0.17	0.128	0.31	12560
H568233	208	276	0.17	0.050	0.21	11800
H568234	208	276	0.25	0.062	0.24	11060
H568235	208	273	0.14	0.028	0.17	12600
H568236	208	276	0.20	0.043	0.17	10280
H568237	208	276	0.29	0.044	0.55	10120
H568238	208	276	0.17	0.021	0.24	10780
H568239	208	276	0.13	0.029	0.14	10980
H568240	208	276	0.18	0.089	0.24	11500
H568241	208	276	0.33	0.042	0.51	10180

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Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568049	299	229	1.4	0.40	64	100	< 0.5	< 2	0.02	< 0.5	2	67	818	3.75	< 10	< 1	0.19	20	0.02	45	549
H568050	299	229	1.8	0.35	150	90	< 0.5	< 2	0.01	< 0.5	3	49	529	4.22	< 10	< 1	0.24	20	0.01	55	291
H568051	299	229	2.4	0.37	108	110	< 0.5	< 2	0.01	< 0.5	2	54	832	3.45	< 10	< 1	0.24	30	0.02	35	202
H568052	299	229	1.6	0.50	54	1790	< 0.5	< 2	0.01	< 0.5	2	45	858	5.92	< 10	< 1	0.23	20	0.06	40	177
H568053	299	229	2.0	0.76	88	360	< 0.5	< 2	0.01	< 0.5	1	44	782	4.31	< 10	< 1	0.26	30	0.02	15	212
H568054	299	229	1.6	0.51	134	190	< 0.5	< 2	0.01	< 0.5	1	75	886	4.53	< 10	< 1	0.32	30	0.02	20	121
H568055	299	229	1.8	0.44	110	170	< 0.5	< 2	0.01	< 0.5	1	100	789	3.76	< 10	< 1	0.28	10	0.01	35	147
H568056	299	229	1.2	0.39	38	820	< 0.5	< 2	0.01	< 0.5	1	83	819	3.97	< 10	< 1	0.25	20	0.01	35	278
H568057	299	229	2.0	0.71	18	120	< 0.5	< 2	0.01	< 0.5	< 1	64	407	2.37	< 10	< 1	0.34	20	0.04	10	166
H568058	299	229	1.4	0.96	18	450	< 0.5	< 2	0.01	< 0.5	1	40	412	2.94	< 10	< 1	0.41	10	0.23	15	85
H568059	299	229	1.8	0.80	16	200	< 0.5	< 2	0.01	< 0.5	< 1	63	325	2.47	< 10	< 1	0.45	10	0.24	20	211
H568060	299	229	1.6	0.53	16	450	< 0.5	< 2	0.01	< 0.5	< 1	50	383	2.40	< 10	< 1	0.36	10	0.06	10	158
H568061	299	229	1.2	0.78	26	110	< 0.5	< 2	0.01	< 0.5	< 1	65	345	2.14	< 10	< 1	0.39	10	0.19	15	297
H568062	299	229	1.2	1.25	22	70	< 0.5	< 2	0.01	< 0.5	1	65	344	1.83	< 10	< 1	0.44	10	0.34	30	131
H568063	299	229	2.6	0.46	20	90	< 0.5	< 2	0.01	< 0.5	< 1	98	422	2.56	< 10	< 1	0.35	10	0.03	15	205
H568064	299	229	0.8	0.47	18	200	< 0.5	< 2	0.01	< 0.5	3	77	680	4.12	< 10	< 1	0.24	30	0.02	80	214
H568065	299	229	2.2	0.58	34	250	< 0.5	< 2	0.01	< 0.5	1	92	635	2.61	< 10	< 1	0.33	40	0.03	40	380
H568066	299	229	3.0	0.70	62	90	< 0.5	< 2	0.01	< 0.5	< 1	79	330	2.07	< 10	< 1	0.33	40	0.03	10	443
H568067	299	229	2.2	0.89	58	80	< 0.5	< 2	0.01	< 0.5	< 1	71	374	2.34	< 10	< 1	0.29	50	0.04	10	333
H568068	299	229	1.8	0.98	34	70	< 0.5	< 2	0.01	< 0.5	< 1	70	299	1.87	< 10	< 1	0.25	30	0.04	10	339
H568069	299	229	4.0	0.99	72	250	< 0.5	2	0.01	< 0.5	< 1	83	500	3.05	< 10	< 1	0.35	50	0.04	10	393
H568070	299	229	2.2	0.83	132	80	< 0.5	< 2	0.01	< 0.5	1	56	1150	4.53	< 10	< 1	0.24	60	0.03	15	393
H568071	299	229	2.8	0.83	64	160	< 0.5	< 2	0.01	< 0.5	< 1	55	410	2.83	< 10	< 1	0.41	30	0.03	10	308
H568072	299	229	1.0	0.35	16	510	< 0.5	< 2	0.01	< 0.5	2	61	624	3.59	< 10	< 1	0.33	20	0.01	35	208
H568073	299	229	1.2	0.32	4	490	< 0.5	< 2	0.01	< 0.5	1	67	436	3.68	< 10	< 1	0.37	20	0.01	30	169
H568074	299	229	1.6	0.35	18	190	< 0.5	< 2	0.01	< 0.5	< 1	66	307	2.97	< 10	< 1	0.42	20	0.01	10	162
H568075	299	229	2.0	0.43	26	120	< 0.5	< 2	0.01	< 0.5	< 1	51	277	1.83	< 10	< 1	0.36	30	0.01	10	282
H568076	299	229	2.2	0.81	86	120	< 0.5	< 2	0.01	< 0.5	< 1	71	338	2.57	< 10	< 1	0.28	40	0.01	10	731
H568077	299	229	1.8	0.61	34	90	< 0.5	< 2	0.01	< 0.5	< 1	69	298	2.22	< 10	< 1	0.27	30	0.01	10	274
H568078	299	229	1.8	0.57	80	110	< 0.5	< 2	0.01	< 0.5	< 1	75	401	2.95	< 10	< 1	0.27	30	0.01	15	486
H568079	299	229	2.2	0.68	24	150	< 0.5	< 2	0.01	< 0.5	1	100	435	3.54	< 10	< 1	0.41	30	0.03	20	899
H568080	299	229	2.6	0.60	34	520	< 0.5	< 2	0.01	< 0.5	< 1	79	447	3.20	< 10	< 1	0.32	30	0.05	20	965
H568081	299	229	1.8	0.73	10	920	< 0.5	< 2	0.01	3.0	< 1	59	476	3.16	< 10	< 1	0.28	20	0.17	40	428
H568082	299	229	2.0	0.63	8	150	< 0.5	< 2	0.01	< 0.5	< 1	91	542	2.60	< 10	< 1	0.29	20	0.02	10	444
H568083	299	229	1.2	1.10	< 2	530	< 0.5	< 2	0.02	< 0.5	1	86	481	3.59	< 10	< 1	0.35	20	0.28	65	333
H568084	299	229	0.4	1.03	8	60	< 0.5	< 2	0.01	< 0.5	2	90	290	5.29	< 10	< 1	0.20	20	0.38	90	494
H568085	299	229	1.2	0.92	6	180	< 0.5	< 2	0.01	< 0.5	2	73	540	5.03	< 10	< 1	0.24	20	0.28	65	393
H568086	299	229	1.4	0.86	12	220	< 0.5	< 2	0.01	< 0.5	2	93	478	4.04	< 10	< 1	0.26	30	0.27	55	711
H568087	299	229	2.2	0.48	38	200	< 0.5	< 2	0.01	< 0.5	2	86	613	5.03	< 10	< 1	0.42	20	0.02	15	1450
H568088	299	229	2.0	0.50	2	430	< 0.5	< 2	0.01	< 0.5	< 1	83	405	3.01	< 10	< 1	0.32	20	0.06	20	1090

CERTIFICATION: Stuart Bichler

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CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R568049	299	229	< 0.01	2	260	26	26	1	6	< 0.01	< 10	< 10	23	< 10	118
R568050	299	229	0.01	2	320	32	82	1	7	< 0.01	< 10	< 10	20	< 10	122
R568051	299	229	0.01	3	270	30	28	1	8	< 0.01	< 10	< 10	19	< 10	84
R568052	299	229	< 0.01	3	250	30	12	1	23	< 0.01	< 10	< 10	24	< 10	90
R568053	299	229	0.01	2	590	40	8	1	14	< 0.01	< 10	< 10	21	< 10	44
R568054	299	229	0.01	3	320	26	12	1	10	< 0.01	< 10	< 10	19	< 10	76
R568055	299	229	0.01	2	220	32	8	1	8	< 0.01	< 10	< 10	16	< 10	112
R568056	299	229	0.01	3	210	22	4	1	12	< 0.01	< 10	< 10	16	< 10	112
R568057	299	229	0.01	3	450	76	2	1	15	< 0.01	< 10	< 10	12	< 10	56
R568058	299	229	0.02	3	580	40	4	2	17	< 0.01	< 10	< 10	15	< 10	64
R568059	299	229	0.03	3	480	28	2	1	15	< 0.01	< 10	< 10	15	< 10	28
R568060	299	229	0.03	2	420	20	< 2	1	40	< 0.01	< 10	< 10	8	< 10	26
R568061	299	229	0.03	3	370	26	2	1	13	< 0.01	< 10	< 10	14	< 10	26
R568062	299	229	0.02	3	380	36	2	3	12	< 0.01	< 10	< 10	22	< 10	24
R568063	299	229	0.01	1	220	26	4	1	10	< 0.01	< 10	< 10	13	< 10	32
R568064	299	229	0.01	3	270	32	4	1	8	< 0.01	< 10	< 10	20	< 10	114
R568065	299	229	0.01	2	280	32	4	1	10	< 0.01	< 10	< 10	16	< 10	48
R568066	299	229	0.01	3	350	22	14	1	10	< 0.01	< 10	< 10	15	< 10	30
R568067	299	229	0.01	2	290	30	8	2	9	< 0.01	< 10	< 10	21	< 10	58
R568068	299	229	< 0.01	4	410	36	2	2	12	< 0.01	< 10	< 10	23	< 10	26
R568069	299	229	0.01	3	380	40	6	2	13	< 0.01	< 10	< 10	24	< 10	38
R568070	299	229	< 0.01	4	420	38	14	2	9	< 0.01	< 10	< 10	29	< 10	96
R568071	299	229	0.01	1	600	202	6	1	17	< 0.01	< 10	< 10	17	< 10	28
R568072	299	229	0.01	2	300	16	2	< 1	12	< 0.01	< 10	< 10	15	< 10	70
R568073	299	229	0.01	3	290	20	2	< 1	12	< 0.01	< 10	< 10	14	< 10	46
R568074	299	229	0.01	2	250	20	2	< 1	11	< 0.01	< 10	< 10	15	< 10	20
R568075	299	229	0.01	1	210	20	4	1	8	< 0.01	< 10	< 10	16	< 10	20
R568076	299	229	0.01	3	530	36	18	1	15	< 0.01	< 10	< 10	30	< 10	16
R568077	299	229	0.01	2	370	24	4	1	11	< 0.01	< 10	< 10	22	< 10	20
R568078	299	229	0.01	1	490	36	8	1	11	< 0.01	< 10	< 10	22	< 10	30
R568079	299	229	0.01	2	330	24	6	1	12	< 0.01	< 10	< 10	22	< 10	26
R568080	299	229	0.01	1	550	70	8	1	16	< 0.01	< 10	< 10	22	< 10	34
R568081	299	229	0.01	3	350	22	2	1	25	< 0.01	< 10	< 10	19	< 10	58
R568082	299	229	0.01	3	330	14	4	< 1	11	< 0.01	< 10	< 10	18	< 10	18
R568083	299	229	0.01	5	450	24	2	1	20	< 0.01	< 10	< 10	23	< 10	34
R568084	299	229	0.01	6	440	22	< 2	1	12	< 0.01	< 10	< 10	34	< 10	24
R568085	299	229	0.02	4	340	22	4	1	11	< 0.01	< 10	< 10	28	< 10	32
R568086	299	229	0.01	4	390	22	6	1	16	< 0.01	< 10	< 10	24	< 10	28
R568087	299	229	0.01	1	460	22	12	1	14	< 0.01	< 10	< 10	23	< 10	62
R568088	299	229	0.01	1	220	14	6	1	12	< 0.01	< 10	< 10	17	< 10	42

CERTIFICATION: Ian Bichler

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : I9314341
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R568089	299	229	1.6	0.84	4	430	< 0.5	< 2	0.02	< 0.5	1	71	500	2.97	< 10	< 1	0.41	20	0.13	40	814
R568090	299	229	1.4	0.89	4	260	< 0.5	< 2	0.02	< 0.5	1	74	532	1.91	< 10	< 1	0.37	30	0.08	20	594
R568091	299	229	1.0	0.84	6	390	< 0.5	< 2	0.01	< 0.5	< 1	83	709	3.05	< 10	< 1	0.41	20	0.06	15	403
R568092	299	229	1.0	0.77	16	260	< 0.5	< 2	0.01	< 0.5	1	86	605	3.28	< 10	< 1	0.52	30	0.13	40	575
R568093	299	229	0.8	1.21	6	240	< 0.5	< 2	0.02	< 0.5	< 1	96	491	2.39	< 10	< 1	0.46	40	0.27	75	517
R568094	299	229	0.8	0.72	2	240	< 0.5	< 2	0.01	< 0.5	1	85	537	3.33	< 10	< 1	0.48	20	0.15	40	537
R568095	299	229	0.4	1.00	2	260	< 0.5	< 2	0.01	< 0.5	1	107	488	2.43	< 10	< 1	0.54	30	0.18	45	375
R568096	299	229	0.8	0.86	4	180	< 0.5	< 2	0.02	< 0.5	2	78	1305	3.83	< 10	< 1	0.38	20	0.09	30	178
R568097	299	229	1.6	1.12	8	220	< 0.5	< 2	0.02	< 0.5	6	86	1565	5.27	< 10	< 1	0.34	30	0.29	85	122
R568098	299	229	1.8	0.86	20	230	< 0.5	< 2	0.02	< 0.5	4	66	1490	4.66	< 10	< 1	0.44	20	0.09	35	312
R568099	299	229	1.2	1.33	24	180	< 0.5	< 2	0.02	< 0.5	13	109	2980	4.26	< 10	< 1	0.44	20	0.18	65	93
R568100	299	229	1.6	0.68	12	140	< 0.5	< 2	0.03	< 0.5	17	80	3830	3.67	< 10	< 1	0.32	10	0.06	35	195
R568101	299	229	1.2	0.88	2	170	< 0.5	< 2	0.08	< 0.5	10	93	2910	3.39	< 10	< 1	0.35	20	0.26	120	123
R568102	299	229	1.4	0.85	12	80	< 0.5	< 2	0.07	< 0.5	11	78	3950	4.13	< 10	< 1	0.28	10	0.13	75	127
R568103	299	229	1.2	0.91	6	40	< 0.5	< 2	0.11	4.0	11	88	3150	5.28	< 10	< 1	0.31	20	0.34	140	179
R568104	299	229	0.6	0.94	< 2	30	< 0.5	< 2	0.11	< 0.5	16	72	2030	4.99	< 10	< 1	0.28	20	0.35	95	103
R568105	299	229	1.6	1.29	14	170	< 0.5	< 2	0.12	3.0	14	86	4170	3.19	< 10	< 1	0.31	20	0.19	205	247
R568106	299	229	2.0	1.09	10	130	< 0.5	< 2	0.08	< 0.5	11	78	4580	2.78	< 10	< 1	0.25	20	0.37	120	150
R568107	299	229	1.6	1.58	8	70	< 0.5	< 2	0.12	< 0.5	12	85	3110	3.06	< 10	< 1	0.38	30	0.42	125	286
R568108	299	229	1.4	0.71	4	120	< 0.5	< 2	0.11	0.5	16	98	2420	4.09	< 10	< 1	0.35	10	0.16	155	183
R568109	299	229	2.2	1.00	20	40	< 0.5	2	0.11	< 0.5	11	89	5490	3.12	< 10	< 1	0.29	20	0.08	145	170
R568110	299	229	1.6	0.70	26	30	0.5	< 2	0.20	1.0	22	78	3490	4.90	< 10	< 1	0.26	10	0.26	505	170
R568111	299	229	2.2	3.40	70	30	0.5	2	0.07	0.5	19	75	8740	2.77	< 10	< 1	0.29	10	0.08	155	546
R568112	299	229	1.2	2.13	16	650	0.5	< 2	0.29	1.0	19	65	2320	3.05	< 10	< 1	0.72	20	1.11	325	135
R568113	299	229	1.8	1.17	18	310	< 0.5	< 2	0.51	< 0.5	17	95	3060	3.93	< 10	< 1	0.47	20	0.57	385	355
R568114	299	229	1.6	0.72	16	370	< 0.5	< 2	0.24	1.0	18	100	2200	2.88	< 10	< 1	0.36	20	0.19	450	297
R568115	299	229	1.2	0.69	12	30	< 0.5	< 2	0.39	< 0.5	13	99	1810	2.78	< 10	< 1	0.34	20	0.18	470	432
R568116	299	229	2.0	0.98	20	30	< 0.5	< 2	0.14	0.5	15	95	4240	2.62	< 10	< 1	0.27	30	0.09	375	515
R568117	299	229	1.6	0.75	22	30	< 0.5	< 2	0.57	< 0.5	11	86	3140	2.49	< 10	< 1	0.35	20	0.25	310	318
R568118	299	229	1.2	0.74	18	310	< 0.5	< 2	0.53	1.0	17	95	1960	3.85	< 10	< 1	0.32	30	0.29	440	256
R568119	299	229	1.2	0.93	< 2	40	< 0.5	< 2	0.40	0.5	19	76	2230	2.74	< 10	< 1	0.38	30	0.20	460	342
R568120	299	229	1.2	0.87	2	160	< 0.5	< 2	0.61	< 0.5	15	74	2330	2.31	< 10	< 1	0.34	10	0.24	315	304
R568121	299	229	1.8	1.07	12	80	< 0.5	< 2	0.19	0.5	12	78	4640	1.98	< 10	< 1	0.38	20	0.12	210	564
R568122	299	229	2.2	0.76	64	40	< 0.5	2	0.55	0.5	15	82	4240	2.85	< 10	< 1	0.29	20	0.26	410	392
R568123	299	229	1.8	1.70	12	40	< 0.5	< 2	0.11	0.5	16	92	4840	1.77	< 10	< 1	0.36	10	0.08	120	465
R568124	299	229	1.0	0.64	18	240	< 0.5	< 2	0.31	< 0.5	15	89	1900	2.58	< 10	< 1	0.34	20	0.25	355	319
R568125	299	229	1.4	0.85	26	110	< 0.5	< 2	0.17	0.5	14	85	3160	1.79	< 10	< 1	0.27	30	0.11	220	592
R568126	299	229	1.6	1.38	12	100	< 0.5	< 2	0.27	< 0.5	22	81	3190	2.72	< 10	< 1	0.60	20	0.54	255	291
R568127	299	229	2.0	1.29	12	80	< 0.5	< 2	0.23	1.5	25	93	4210	2.94	< 10	< 1	0.45	20	0.27	315	423
R568128	299	229	2.6	1.81	12	40	< 0.5	< 2	0.37	1.5	14	82	5400	1.83	< 10	< 1	0.34	20	0.37	125	206

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Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. : I9314341
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Account : FC

CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568089	299	229	0.02	2	320	16	4	1	17	< 0.01	< 10	< 10	18	< 10	40
H568090	299	229	0.01	1	310	18	4	1	12	< 0.01	< 10	< 10	13	< 10	32
H568091	299	229	0.01	2	310	16	2	1	13	< 0.01	< 10	< 10	16	< 10	26
H568092	299	229	0.03	1	390	16	4	1	16	< 0.01	< 10	< 10	20	< 10	24
H568093	299	229	0.02	3	440	20	2	1	50	< 0.01	< 10	< 10	20	< 10	30
H568094	299	229	0.04	2	310	26	2	1	28	< 0.01	< 10	< 10	20	< 10	20
H568095	299	229	0.03	2	340	20	4	1	26	< 0.01	< 10	< 10	16	< 10	26
H568096	299	229	0.02	4	410	6	2	1	13	< 0.01	< 10	< 10	18	< 10	34
H568097	299	229	0.02	6	320	16	2	1	14	< 0.01	< 10	< 10	24	< 10	48
H568098	299	229	0.01	3	510	20	4	1	27	< 0.01	< 10	< 10	20	< 10	60
H568099	299	229	0.01	8	410	12	< 2	1	13	< 0.01	< 10	< 10	27	< 10	44
H568100	299	229	0.01	8	250	12	2	1	8	< 0.01	< 10	< 10	15	< 10	72
H568101	299	229	0.02	6	250	12	< 2	1	10	< 0.01	< 10	< 10	19	< 10	70
H568102	299	229	< 0.01	7	310	12	< 2	1	8	< 0.01	< 10	< 10	17	< 10	70
H568103	299	229	0.01	9	360	18	< 2	1	7	< 0.01	< 10	< 10	24	< 10	72
H568104	299	229	0.01	8	430	18	< 2	1	8	< 0.01	< 10	< 10	26	< 10	44
H568105	299	229	0.01	9	430	30	2	1	15	< 0.01	< 10	< 10	21	< 10	88
H568106	299	229	0.01	8	330	20	2	1	9	< 0.01	< 10	< 10	18	< 10	64
H568107	299	229	0.02	10	530	18	< 2	1	10	< 0.01	< 10	< 10	23	< 10	56
H568108	299	229	0.01	8	310	22	2	1	8	< 0.01	< 10	< 10	13	< 10	64
H568109	299	229	0.01	11	460	24	2	2	8	< 0.01	< 10	< 10	22	< 10	98
H568110	299	229	< 0.01	12	480	26	2	1	7	< 0.01	< 10	< 10	21	< 10	128
H568111	299	229	0.01	17	1050	38	4	3	35	< 0.01	< 10	10	31	< 10	100
H568112	299	229	0.02	19	850	28	< 2	5	41	0.06	< 10	< 10	41	< 10	118
H568113	299	229	0.01	13	540	28	6	2	22	0.01	< 10	< 10	29	< 10	96
H568114	299	229	0.01	8	430	18	4	1	10	< 0.01	< 10	< 10	17	< 10	120
H568115	299	229	0.01	6	290	16	4	1	7	< 0.01	< 10	< 10	14	< 10	96
H568116	299	229	< 0.01	10	480	22	8	2	16	< 0.01	< 10	< 10	15	< 10	116
H568117	299	229	0.01	6	470	18	6	1	9	< 0.01	< 10	< 10	19	< 10	54
H568118	299	229	0.01	9	480	20	6	2	11	< 0.01	< 10	< 10	24	< 10	106
H568119	299	229	< 0.01	9	520	18	4	1	9	< 0.01	< 10	< 10	16	< 10	130
H568120	299	229	< 0.01	8	470	16	2	1	10	< 0.01	< 10	< 10	15	< 10	70
H568121	299	229	0.01	9	360	24	4	1	8	< 0.01	< 10	< 10	17	< 10	74
H568122	299	229	< 0.01	8	290	26	8	2	9	< 0.01	< 10	< 10	21	< 10	122
H568123	299	229	0.01	12	270	24	4	2	8	< 0.01	< 10	< 10	22	< 10	100
H568124	299	229	0.01	6	230	18	4	3	10	< 0.01	< 10	< 10	22	< 10	112
H568125	299	229	0.01	9	220	24	6	3	9	< 0.01	< 10	< 10	23	< 10	100
H568126	299	229	0.01	12	350	18	4	4	11	0.03	< 10	< 10	36	< 10	106
H568127	299	229	0.01	9	340	20	4	3	10	0.01	< 10	< 10	23	< 10	144
H568128	299	229	< 0.01	13	440	38	2	3	15	< 0.01	< 10	< 10	24	< 10	236

CERTIFICATION: Ian Bichler

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V6B 1L8

Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :5
Certificate Date: 20-MAY-93
Invoice No. :19314341
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568129	299	229	2.4	0.91	< 2	60	< 0.5	< 2	0.58	0.5	26	74	4670	3.28	< 10	< 1	0.44	30	0.50	315	324
H568130	299	229	0.8	0.66	< 2	330	< 0.5	< 2	0.57	0.5	17	50	2480	2.91	< 10	< 1	0.22	20	0.28	275	387
H568131	299	229	1.6	0.66	4	80	< 0.5	< 2	0.65	0.5	28	84	2770	2.99	< 10	< 1	0.20	10	0.34	215	741
H568132	299	229	0.8	1.12	2	40	< 0.5	< 2	0.18	< 0.5	16	80	2010	2.94	< 10	< 1	0.22	20	0.72	175	386
H568133	299	229	2.4	1.28	4	60	< 0.5	< 2	0.25	< 0.5	32	64	5330	5.76	< 10	< 1	0.27	20	0.64	185	536
H568134	299	229	1.4	1.32	6	70	< 0.5	< 2	0.49	< 0.5	19	70	2820	3.43	< 10	< 1	0.36	10	1.00	180	184
H568135	299	229	1.0	1.26	< 2	40	< 0.5	< 2	0.57	< 0.5	16	65	1775	2.38	< 10	< 1	0.37	20	0.97	170	668
H568136	299	229	0.6	1.92	4	120	< 0.5	< 2	0.35	0.5	15	59	1840	2.79	< 10	< 1	0.52	10	1.42	165	55
H568137	299	229	0.8	1.44	4	90	< 0.5	< 2	0.98	< 0.5	17	71	1585	2.64	< 10	< 1	0.37	30	1.15	210	183
H568138	299	229	1.0	1.42	< 2	180	< 0.5	< 2	0.98	< 0.5	12	59	1420	2.40	< 10	< 1	0.40	20	1.19	160	72
H568139	299	229	1.2	1.41	< 2	180	< 0.5	< 2	0.44	< 0.5	23	69	1990	3.01	< 10	< 1	0.47	20	0.91	155	147
H568140	299	229	1.6	1.15	< 2	50	< 0.5	< 2	0.27	1.0	16	79	2440	2.15	< 10	< 1	0.35	30	0.64	200	230
H568141	299	229	2.2	0.92	< 2	340	< 0.5	< 2	0.83	1.5	13	81	2230	2.26	< 10	< 1	0.24	10	0.41	215	348
H568142	299	229	3.4	1.34	6	150	< 0.5	< 2	1.11	< 0.5	23	56	4450	2.69	< 10	< 1	0.53	10	0.81	270	442
H568143	299	229	1.4	0.62	4	80	< 0.5	< 2	0.79	< 0.5	10	77	1840	1.14	< 10	< 1	0.22	10	0.31	130	248
H568144	299	229	1.0	0.77	< 2	30	< 0.5	< 2	0.94	0.5	21	40	1795	3.08	< 10	< 1	0.22	10	0.56	210	224
H568145	299	229	1.4	0.45	18	30	< 0.5	< 2	1.76	< 0.5	23	42	2380	3.06	< 10	< 1	0.15	10	0.64	245	399
H568146	299	229	3.0	1.07	8	70	< 0.5	2	1.26	< 0.5	18	72	4300	2.62	< 10	< 1	0.46	20	0.63	190	404
H568147	299	229	1.8	0.73	< 2	40	< 0.5	< 2	1.28	< 0.5	17	104	3050	2.71	< 10	< 1	0.40	20	0.70	175	233
H568148	299	229	1.2	0.51	2	230	< 0.5	< 2	1.19	< 0.5	15	104	1695	2.42	< 10	< 1	0.30	20	0.61	240	198
H568149	299	229	2.0	0.42	8	40	< 0.5	< 2	1.37	< 0.5	13	108	2370	1.84	< 10	< 1	0.21	10	0.42	165	226
H568150	299	229	1.4	0.88	4	30	< 0.5	< 2	1.21	< 0.5	9	69	1735	1.47	< 10	< 1	0.26	20	0.60	160	280
H568151	299	229	1.0	1.12	2	40	< 0.5	< 2	1.28	< 0.5	14	64	1765	1.78	< 10	< 1	0.30	20	0.80	170	379
H568152	299	229	1.8	1.09	< 2	40	< 0.5	< 2	0.83	< 0.5	13	82	2660	1.69	< 10	< 1	0.30	20	0.79	165	714
H568153	299	229	1.6	1.43	2	100	< 0.5	< 2	0.93	0.5	17	94	2160	2.33	< 10	< 1	0.43	20	1.06	225	228
H568154	299	229	1.4	1.37	4	370	< 0.5	< 2	1.08	0.5	21	57	2250	2.37	< 10	< 1	0.51	20	1.01	210	125
H568155	299	229	1.8	1.12	< 2	40	< 0.5	< 2	0.92	0.5	19	89	2310	2.29	< 10	< 1	0.33	20	0.89	210	173
H568156	299	229	1.2	1.35	6	120	< 0.5	< 2	0.99	< 0.5	25	72	1560	2.21	< 10	< 1	0.58	20	1.09	195	221
H568157	299	229	1.2	1.39	4	40	< 0.5	< 2	1.29	< 0.5	16	83	1465	2.38	< 10	< 1	0.38	30	1.03	210	319
H568158	299	229	1.6	1.23	< 2	60	< 0.5	< 2	0.84	< 0.5	9	102	1665	1.65	< 10	< 1	0.41	30	0.89	235	580
H568159	299	229	2.8	1.66	6	190	< 0.5	< 2	1.25	1.0	23	92	2910	2.64	< 10	< 1	0.68	20	1.12	220	176
H568160	299	229	1.0	1.22	< 2	60	< 0.5	< 2	1.37	< 0.5	9	85	1320	1.46	< 10	< 1	0.43	20	0.87	170	124
H568161	299	229	0.8	1.42	2	70	< 0.5	< 2	1.03	< 0.5	13	95	1055	2.18	< 10	< 1	0.65	20	1.12	205	72
H568162	299	229	0.8	1.42	2	90	< 0.5	< 2	1.00	0.5	18	70	1450	2.93	< 10	< 1	0.61	10	1.08	160	74
H568163	299	229	1.4	1.25	2	160	< 0.5	< 2	1.50	< 0.5	15	61	2040	2.16	< 10	< 1	0.57	20	0.97	125	677
H568164	299	229	1.2	1.41	< 2	90	< 0.5	< 2	1.00	< 0.5	16	54	2050	2.25	< 10	< 1	0.72	20	1.17	125	158
H568165	299	229	1.4	1.63	< 2	110	< 0.5	< 2	1.30	< 0.5	18	76	2160	2.76	< 10	< 1	0.72	20	1.21	150	157
H568166	299	229	1.8	2.11	< 2	100	< 0.5	4	1.59	0.5	16	70	3010	2.69	< 10	< 1	1.26	20	1.71	155	222
H568167	299	229	0.8	1.11	4	60	< 0.5	< 2	1.43	< 0.5	15	91	1360	1.90	< 10	< 1	0.51	20	0.77	95	130
H568168	299	229	1.0	1.51	< 2	90	< 0.5	< 2	1.41	< 0.5	19	72	1550	2.40	< 10	< 1	0.83	20	1.20	120	78

CERTIFICATION: Stan Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
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Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-MAY-93
Invoice No. :I9314341
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R568129	299	229	< 0.01	9	370	12	2	3	13	0.01	< 10	< 10	27	< 10	88
R568130	299	229	< 0.01	10	300	12	2	1	20	< 0.01	< 10	< 10	20	< 10	80
R568131	299	229	< 0.01	7	310	12	6	1	12	< 0.01	< 10	< 10	13	< 10	60
R568132	299	229	0.01	9	310	10	2	1	13	< 0.01	< 10	< 10	16	< 10	50
R568133	299	229	0.01	14	440	20	2	2	11	< 0.01	< 10	< 10	42	< 10	70
R568134	299	229	0.01	12	440	22	< 2	2	13	< 0.01	< 10	< 10	25	< 10	48
R568135	299	229	0.01	9	380	14	6	2	13	< 0.01	< 10	< 10	22	< 10	46
R568136	299	229	0.01	16	730	14	< 2	2	13	0.01	< 10	< 10	24	< 10	50
R568137	299	229	0.01	15	700	22	< 2	2	18	< 0.01	< 10	< 10	23	< 10	46
R568138	299	229	0.02	16	720	18	< 2	2	23	0.02	< 10	< 10	28	< 10	34
R568139	299	229	0.01	12	570	16	< 2	2	18	0.01	< 10	< 10	21	< 10	48
R568140	299	229	0.01	10	330	16	< 2	2	35	< 0.01	< 10	< 10	20	< 10	64
R568141	299	229	< 0.01	7	370	20	2	1	20	< 0.01	< 10	< 10	12	< 10	160
R568142	299	229	0.01	11	470	18	4	3	15	0.01	< 10	< 10	35	< 10	102
R568143	299	229	0.01	3	280	16	2	< 1	17	< 0.01	< 10	< 10	8	< 10	30
R568144	299	229	< 0.01	9	490	18	2	1	16	< 0.01	< 10	< 10	22	< 10	42
R568145	299	229	< 0.01	8	350	18	2	1	14	< 0.01	< 10	< 10	15	< 10	50
R568146	299	229	0.01	9	390	28	2	2	20	0.01	< 10	< 10	21	< 10	72
R568147	299	229	0.01	9	360	14	< 2	2	17	< 0.01	< 10	< 10	18	< 10	44
R568148	299	229	0.01	9	350	20	2	1	20	< 0.01	< 10	< 10	18	< 10	64
R568149	299	229	< 0.01	7	340	32	2	1	15	< 0.01	< 10	< 10	11	< 10	82
R568150	299	229	0.01	6	330	24	2	1	35	< 0.01	< 10	< 10	16	< 10	60
R568151	299	229	0.01	7	350	22	2	1	42	< 0.01	< 10	< 10	18	< 10	52
R568152	299	229	0.01	4	310	24	6	1	39	< 0.01	< 10	< 10	17	< 10	54
R568153	299	229	0.01	9	410	36	2	2	41	< 0.01	< 10	< 10	26	< 10	96
R568154	299	229	0.02	9	560	36	2	3	171	0.01	< 10	< 10	36	< 10	88
R568155	299	229	0.01	8	290	26	2	1	34	< 0.01	< 10	< 10	21	< 10	78
R568156	299	229	0.01	9	380	22	< 2	2	41	0.02	< 10	< 10	29	< 10	68
R568157	299	229	0.01	8	350	26	2	2	50	< 0.01	< 10	< 10	27	< 10	70
R568158	299	229	0.01	8	270	32	4	2	41	< 0.01	< 10	< 10	27	< 10	78
R568159	299	229	0.02	12	740	44	< 2	3	55	0.02	< 10	< 10	31	< 10	112
R568160	299	229	0.01	7	310	22	2	1	43	< 0.01	< 10	< 10	18	< 10	68
R568161	299	229	0.01	9	290	30	2	3	41	0.02	< 10	< 10	31	< 10	98
R568162	299	229	0.01	12	430	22	< 2	3	47	0.02	< 10	< 10	34	< 10	84
R568163	299	229	0.01	10	380	34	6	3	60	0.02	< 10	< 10	33	< 10	38
R568164	299	229	0.01	10	430	14	2	4	48	0.03	< 10	< 10	41	< 10	34
R568165	299	229	0.01	11	530	28	< 2	4	52	0.02	< 10	< 10	39	< 10	38
R568166	299	229	0.01	13	670	18	< 2	8	66	0.06	< 10	< 10	64	< 10	36
R568167	299	229	0.01	7	370	14	< 2	2	54	0.01	< 10	< 10	23	< 10	18
R568168	299	229	0.01	11	390	8	< 2	4	58	0.04	< 10	< 10	38	< 10	24

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568169	299	229	1.2	1.27	4	70	< 0.5	< 2	1.31	< 0.5	26	63	2430	3.18	< 10	< 1	0.64	20	1.01	135	108
H568170	299	229	1.8	1.50	4	100	< 0.5	< 2	1.28	< 0.5	22	76	3370	2.20	< 10	< 1	0.89	20	1.31	155	170
H568171	299	229	1.0	1.78	2	80	< 0.5	< 2	1.11	< 0.5	14	69	2180	2.12	< 10	< 1	1.04	20	1.57	145	75
H568172	299	229	1.2	1.33	< 2	100	< 0.5	< 2	1.59	< 0.5	18	72	2070	2.27	< 10	< 1	0.73	20	1.05	130	103
H568173	299	229	2.0	2.10	10	90	< 0.5	< 2	1.38	< 0.5	34	76	3890	4.37	< 10	< 1	1.04	20	1.64	250	121
H568174	299	229	1.2	1.42	2	70	< 0.5	< 2	1.36	< 0.5	11	79	1490	1.54	< 10	< 1	0.53	30	0.87	100	158
H568175	299	229	1.0	1.79	< 2	110	< 0.5	< 2	1.45	< 0.5	18	95	1790	3.66	< 10	< 1	0.80	20	1.20	125	148
H568176	299	229	2.2	2.02	< 2	110	< 0.5	6	1.82	< 0.5	22	84	4380	2.71	< 10	< 1	0.85	20	1.36	130	140
H568177	299	229	1.2	1.88	2	90	< 0.5	< 2	1.41	< 0.5	21	106	1905	2.32	< 10	< 1	0.65	20	1.14	115	118
H568178	299	229	1.6	2.11	< 2	100	< 0.5	< 2	2.60	0.5	31	85	2290	3.18	< 10	< 1	0.79	30	1.31	160	166
H568179	299	229	1.4	1.73	4	140	< 0.5	< 2	2.14	< 0.5	17	89	1835	1.76	< 10	< 1	0.66	20	0.96	130	221
H568180	299	229	1.0	1.74	< 2	80	< 0.5	< 2	1.52	< 0.5	16	81	1600	1.85	< 10	< 1	0.64	20	1.02	130	251
H568181	299	229	1.4	2.06	< 2	100	< 0.5	< 2	1.50	< 0.5	13	77	1755	1.63	< 10	< 1	0.80	20	1.22	145	229
H568182	299	229	1.0	1.58	2	90	< 0.5	< 2	1.52	< 0.5	26	85	1385	2.39	< 10	< 1	0.70	20	0.97	130	171
H568183	299	229	1.6	1.51	< 2	80	< 0.5	< 2	1.30	0.5	20	81	2970	1.97	< 10	< 1	0.63	20	0.96	100	146
H568184	299	229	1.2	1.58	< 2	70	< 0.5	< 2	1.57	< 0.5	15	87	1870	1.91	< 10	< 1	0.61	40	0.91	110	494
H568185	299	229	0.8	1.60	4	120	< 0.5	< 2	1.58	< 0.5	21	88	1530	2.60	< 10	< 1	0.73	30	1.05	120	294
H568186	299	229	0.8	1.64	8	70	< 0.5	< 2	2.11	< 0.5	21	73	1550	3.63	< 10	< 1	0.70	30	0.97	155	173
H568187	299	229	1.0	1.93	< 2	80	< 0.5	< 2	1.78	< 0.5	20	57	1595	4.40	< 10	< 1	0.87	30	1.24	175	315
H568188	299	229	0.6	1.95	< 2	100	< 0.5	< 2	1.66	< 0.5	19	82	1170	2.33	< 10	< 1	0.96	30	1.35	145	132
H568189	299	229	0.8	2.19	2	120	< 0.5	< 2	1.51	< 0.5	23	76	1940	2.59	< 10	< 1	1.04	20	1.60	175	193
H568190	299	229	1.2	1.83	6	290	< 0.5	< 2	1.30	< 0.5	20	65	1975	2.77	< 10	< 1	0.54	30	1.21	180	114
H568191	299	229	1.2	1.90	8	150	< 0.5	< 2	1.69	< 0.5	20	96	1880	3.78	< 10	< 1	0.89	30	1.14	210	417
H568192	299	229	1.4	1.09	24	150	< 0.5	4	2.30	< 0.5	20	69	1850	3.52	< 10	< 1	0.32	20	0.24	205	382
H568193	299	229	1.4	1.22	26	280	< 0.5	< 2	0.75	< 0.5	24	67	2140	2.09	< 10	< 1	0.26	40	0.13	130	630
H568194	299	229	1.4	1.30	30	210	< 0.5	< 2	0.58	< 0.5	28	58	1595	3.12	< 10	< 1	0.27	30	0.15	210	594
H568195	299	229	2.2	0.82	30	80	< 0.5	< 2	0.62	< 0.5	29	37	3340	3.14	< 10	< 1	0.17	20	0.17	190	501
H568196	299	229	2.0	1.05	22	140	< 0.5	< 2	1.12	< 0.5	20	54	2620	3.02	< 10	< 1	0.32	30	0.52	200	427
H568197	299	229	2.0	0.73	34	180	< 0.5	< 2	1.02	< 0.5	24	46	2500	3.15	< 10	< 1	0.17	30	0.36	210	587
H568198	299	229	1.8	1.21	16	200	< 0.5	< 2	1.00	< 0.5	23	64	2180	3.53	< 10	< 1	0.49	20	0.66	180	591
H568199	299	229	1.4	0.83	12	210	< 0.5	< 2	1.43	< 0.5	29	53	1565	3.30	< 10	< 1	0.27	20	0.63	230	254
H568200	299	229	2.6	0.83	20	140	< 0.5	< 2	1.65	< 0.5	16	67	2030	3.27	< 10	< 1	0.29	30	0.59	225	234
H568201	299	229	1.6	1.23	4	190	< 0.5	< 2	1.82	< 0.5	12	67	1235	2.10	< 10	< 1	0.65	30	1.10	210	136
H568202	299	229	1.2	2.10	10	180	< 0.5	< 2	1.35	< 0.5	26	73	1595	3.46	< 10	< 1	1.11	20	1.54	210	334
H568203	299	229	1.2	1.61	4	150	< 0.5	< 2	0.84	< 0.5	29	81	1955	3.37	< 10	< 1	1.00	30	1.33	150	141
H568204	299	229	1.4	1.62	2	130	< 0.5	< 2	1.32	< 0.5	18	86	2140	2.17	< 10	< 1	0.88	20	1.12	130	721
H568205	299	229	0.8	1.06	2	100	< 0.5	< 2	3.16	< 0.5	14	85	1570	2.84	< 10	< 1	0.64	20	1.10	170	245
H568206	299	229	1.2	1.32	< 2	140	< 0.5	< 2	2.16	< 0.5	13	115	1870	2.09	< 10	< 1	0.71	20	0.91	105	805
H568207	299	229	0.8	1.09	2	100	< 0.5	< 2	3.35	< 0.5	16	103	1420	1.54	< 10	< 1	0.69	20	0.93	90	627
H568208	299	229	1.2	1.48	< 2	220	< 0.5	< 2	1.69	< 0.5	16	112	1520	2.05	< 10	< 1	0.84	30	1.04	115	650

CERTIFICATION: Stuart Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A568169	299	229	0.01	14	430	14	< 2	4	55	0.03	< 10	< 10	45	< 10	30
A568170	299	229	0.01	13	550	26	2	4	48	0.06	< 10	< 10	42	< 10	38
A568171	299	229	0.02	10	360	4	2	6	61	0.05	< 10	< 10	54	< 10	36
A568172	299	229	0.01	10	360	10	4	4	56	0.04	< 10	< 10	38	< 10	30
A568173	299	229	0.03	16	590	22	< 2	5	53	0.06	< 10	< 10	51	< 10	86
A568174	299	229	0.02	6	410	10	4	3	73	0.01	< 10	< 10	33	< 10	24
A568175	299	229	0.02	13	430	8	2	4	64	0.03	< 10	< 10	45	< 10	28
A568176	299	229	0.02	10	500	16	2	6	78	0.04	< 10	< 10	48	< 10	30
A568177	299	229	0.02	11	450	16	2	4	80	0.02	< 10	< 10	36	< 10	34
A568178	299	229	0.02	13	610	18	4	4	88	0.02	< 10	< 10	42	< 10	50
A568179	299	229	0.01	9	460	16	4	3	74	0.01	< 10	< 10	29	< 10	34
A568180	299	229	0.01	8	450	4	4	3	75	0.01	< 10	< 10	31	< 10	38
A568181	299	229	0.02	8	530	14	4	4	70	0.02	< 10	< 10	41	< 10	40
A568182	299	229	0.02	9	370	12	< 2	3	63	0.02	< 10	< 10	38	< 10	30
A568183	299	229	0.01	10	390	8	< 2	3	66	0.02	< 10	< 10	32	< 10	28
A568184	299	229	0.01	8	500	4	4	4	74	0.01	< 10	< 10	39	< 10	22
A568185	299	229	0.01	11	440	8	4	3	58	0.02	< 10	< 10	39	< 10	24
A568186	299	229	0.01	11	470	14	4	3	66	0.01	< 10	< 10	36	< 10	26
A568187	299	229	0.01	13	1010	12	2	4	88	0.03	< 10	< 10	53	< 10	32
A568188	299	229	0.02	9	610	8	4	6	74	0.06	< 10	< 10	49	< 10	28
A568189	299	229	0.02	12	820	10	2	5	73	0.04	< 10	< 10	51	< 10	36
A568190	299	229	0.02	11	780	28	4	3	92	< 0.01	< 10	< 10	35	< 10	38
A568191	299	229	0.02	12	530	32	6	5	46	0.04	< 10	< 10	52	< 10	38
A568192	299	229	0.01	12	440	6	6	6	24	< 0.01	< 10	< 10	32	< 10	34
A568193	299	229	0.01	14	600	12	6	8	22	< 0.01	< 10	< 10	35	< 10	36
A568194	299	229	0.01	13	1070	16	10	6	21	< 0.01	< 10	< 10	34	< 10	44
A568195	299	229	< 0.01	14	780	16	12	6	15	< 0.01	< 10	< 10	28	< 10	34
A568196	299	229	0.01	12	660	14	14	7	19	0.01	< 10	< 10	42	< 10	48
A568197	299	229	< 0.01	13	660	14	14	7	22	< 0.01	< 10	< 10	35	< 10	82
A568198	299	229	0.01	11	390	8	20	3	24	0.01	< 10	< 10	31	< 10	58
A568199	299	229	0.01	9	420	8	34	4	24	< 0.01	< 10	< 10	32	< 10	58
A568200	299	229	0.01	13	520	14	4	4	22	< 0.01	< 10	< 10	28	< 10	70
A568201	299	229	0.01	8	520	8	6	5	33	0.04	< 10	< 10	37	< 10	50
A568202	299	229	0.03	13	850	6	2	6	52	0.09	< 10	< 10	61	< 10	52
A568203	299	229	0.03	14	430	2	2	6	31	0.08	< 10	< 10	56	< 10	36
A568204	299	229	0.02	9	450	8	4	5	47	0.04	< 10	< 10	50	< 10	30
A568205	299	229	0.02	12	630	10	2	4	49	0.04	< 10	< 10	39	< 10	26
A568206	299	229	0.04	8	380	8	6	4	57	0.04	< 10	< 10	42	< 10	24
A568207	299	229	0.03	8	320	4	6	4	263	0.06	< 10	< 10	44	< 10	22
A568208	299	229	0.03	12	380	10	8	6	105	0.07	< 10	< 10	59	< 10	24

CERTIFICATION: Stewart Bichler

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Certificate Date: 20-MAY-93
Invoice No. :19314341
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568209	299	229	1.4	1.67	6	210	< 0.5	< 2	1.34	< 0.5	24	92	2040	2.58	< 10	< 1	0.67	30	1.00	155	436
H568210	299	229	1.4	0.91	16	40	< 0.5	< 2	5.87	< 0.5	14	79	2340	1.51	< 10	< 1	0.43	10	0.45	435	377
H568211	299	229	1.0	1.13	8	250	< 0.5	< 2	1.13	< 0.5	16	79	1460	3.26	< 10	< 1	0.47	20	0.63	125	107
H568212	299	229	0.8	1.07	4	150	< 0.5	< 2	1.05	< 0.5	14	90	1105	2.41	< 10	< 1	0.57	20	0.62	110	185
H568213	299	229	0.8	1.12	4	120	< 0.5	< 2	1.61	< 0.5	12	78	1145	1.99	< 10	< 1	0.60	20	0.67	150	179
H568214	299	229	1.0	1.26	8	150	< 0.5	< 2	0.64	< 0.5	14	82	1565	2.33	< 10	< 1	0.56	20	0.65	80	250
H568215	299	229	0.8	1.32	< 2	90	< 0.5	2	0.99	< 0.5	8	68	921	2.41	< 10	< 1	0.52	20	0.70	115	103
H568216	299	229	1.2	1.53	4	100	< 0.5	< 2	1.48	< 0.5	11	72	1290	1.86	< 10	< 1	0.45	30	0.85	125	137
H568217	299	229	1.6	1.08	4	90	< 0.5	2	1.66	< 0.5	11	92	2210	2.45	< 10	< 1	0.56	20	0.74	90	579
H568218	299	229	0.6	0.96	4	70	< 0.5	< 2	1.86	< 0.5	10	90	1035	1.71	< 10	< 1	0.56	10	0.69	65	578
H568219	299	229	0.8	1.28	4	80	< 0.5	2	1.61	< 0.5	13	90	2170	2.12	< 10	< 1	0.68	30	0.94	95	276
H568220	299	229	1.8	1.63	2	100	< 0.5	< 2	1.05	< 0.5	20	105	2310	2.94	< 10	< 1	0.72	30	1.11	160	200
H568221	299	229	1.4	2.46	2	280	< 0.5	2	1.15	< 0.5	10	162	1165	3.21	< 10	< 1	0.76	20	1.85	325	251
H568222	299	229	1.0	1.60	4	60	< 0.5	2	1.06	< 0.5	10	100	1655	1.90	< 10	< 1	0.52	30	0.88	105	277
H568223	299	229	0.4	1.02	4	60	< 0.5	2	1.11	< 0.5	6	80	855	1.36	< 10	< 1	0.50	20	0.73	80	621
H568224	299	229	0.6	1.04	4	40	< 0.5	2	1.51	< 0.5	5	83	916	0.89	< 10	< 1	0.36	20	0.65	75	578
H568225	299	229	0.8	1.52	8	160	0.5	< 2	1.20	< 0.5	8	86	1460	1.19	< 10	< 1	0.58	30	1.05	80	668
H568226	299	229	0.4	1.09	4	180	< 0.5	< 2	1.06	< 0.5	8	71	1045	0.98	< 10	< 1	0.45	20	0.66	60	543
H568227	299	229	0.8	1.27	< 2	40	< 0.5	2	1.24	< 0.5	13	76	1830	1.52	< 10	< 1	0.53	20	0.77	70	920
H568228	299	229	1.4	1.27	2	90	< 0.5	< 2	1.47	< 0.5	9	57	2600	1.28	< 10	< 1	0.45	30	0.72	85	479
H568229	299	229	0.8	1.00	2	110	< 0.5	< 2	1.62	< 0.5	8	67	1420	1.19	< 10	< 1	0.52	20	0.67	85	209
H568230	299	229	1.0	1.47	8	90	< 0.5	2	1.59	< 0.5	8	118	1810	1.48	< 10	< 1	0.58	20	0.65	90	218
H568231	299	229	0.6	1.19	2	210	< 0.5	4	0.82	< 0.5	6	106	1215	1.34	< 10	< 1	0.52	10	0.62	65	278
H568232	299	229	0.8	1.04	4	150	< 0.5	2	1.34	< 0.5	8	97	1480	1.31	< 10	< 1	0.46	10	0.61	75	670
H568233	299	229	0.8	1.29	2	200	< 0.5	< 2	1.65	< 0.5	6	79	1495	1.03	< 10	< 1	0.46	20	0.66	95	273
H568234	299	229	1.4	1.55	< 2	170	< 0.5	2	1.28	< 0.5	9	90	2440	1.31	< 10	< 1	0.57	30	0.91	90	353
H568235	299	229	0.8	1.66	< 2	130	< 0.5	< 2	1.07	< 0.5	5	99	1410	1.15	< 10	< 1	0.50	20	0.80	65	172
H568236	299	229	1.2	1.78	2	70	< 0.5	2	1.15	< 0.5	9	116	2060	1.83	< 10	< 1	0.61	30	0.77	70	261
H568237	299	229	2.2	1.58	< 2	120	< 0.5	2	1.57	< 0.5	7	122	3080	2.54	< 10	< 1	0.67	30	0.98	110	268
H568238	299	229	1.0	2.03	< 2	40	0.5	4	1.60	< 0.5	8	121	1630	1.44	< 10	< 1	0.41	30	0.88	90	121
H568239	299	229	0.6	1.38	2	90	< 0.5	2	2.26	< 0.5	6	131	1255	1.20	< 10	< 1	0.41	20	0.70	80	163
H568240	299	229	0.8	1.70	4	110	< 0.5	< 2	1.12	< 0.5	7	114	1685	1.15	< 10	< 1	0.70	40	1.02	85	575
H568241	299	229	1.6	1.61	6	80	< 0.5	2	1.60	< 0.5	8	111	3060	1.37	< 10	< 1	0.57	20	0.88	85	228

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
510 W. HASTINGS ST., SUITE 1016
VANCOUVER, BC
V6B 1L8

Project : CASINO 152
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : r :5-B
Total P. :5
Certificate Date: 20-MAY-93
Invoice No. :19314341
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314341

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568209	299	229	0.01	13	530	4	2	4	64	0.04	< 10	< 10	41	< 10	36
H568210	299	229	0.01	12	340	16	2	3	32	0.01	< 10	< 10	28	< 10	24
H568211	299	229	0.01	13	490	4	< 2	4	57	0.03	< 10	< 10	47	< 10	30
H568212	299	229	0.02	12	410	8	< 2	4	37	0.03	< 10	< 10	34	< 10	24
H568213	299	229	0.01	10	420	6	< 2	4	41	0.04	< 10	< 10	36	< 10	20
H568214	299	229	0.02	12	370	2	< 2	4	42	0.03	< 10	< 10	45	< 10	26
H568215	299	229	0.01	11	390	8	< 2	4	45	0.03	< 10	< 10	38	< 10	24
H568216	299	229	0.02	11	920	4	< 2	4	115	0.02	< 10	< 10	41	< 10	24
H568217	299	229	0.03	14	490	14	2	4	97	0.06	< 10	< 10	45	< 10	28
H568218	299	229	0.02	10	450	2	2	3	242	0.04	< 10	< 10	32	< 10	20
H568219	299	229	0.03	10	460	4	< 2	6	134	0.06	< 10	< 10	44	< 10	32
H568220	299	229	0.02	18	410	4	< 2	5	57	0.06	< 10	< 10	48	< 10	42
H568221	299	229	0.04	38	550	2	< 2	6	77	0.09	< 10	< 10	64	< 10	82
H568222	299	229	0.01	11	350	2	< 2	4	55	0.03	< 10	< 10	40	< 10	32
H568223	299	229	0.02	8	380	2	2	4	50	0.03	< 10	< 10	34	< 10	24
H568224	299	229	0.01	6	340	6	4	3	66	< 0.01	< 10	< 10	23	< 10	20
H568225	299	229	0.02	8	450	4	2	4	80	0.02	< 10	< 10	38	< 10	28
H568226	299	229	0.01	7	290	6	2	3	62	0.01	< 10	< 10	26	< 10	20
H568227	299	229	0.01	8	310	8	2	3	58	0.02	< 10	< 10	29	< 10	28
H568228	299	229	0.01	8	300	4	2	3	67	0.01	< 10	< 10	27	< 10	30
H568229	299	229	0.01	7	260	14	< 2	4	48	0.02	< 10	< 10	31	< 10	26
H568230	299	229	0.01	7	290	6	2	4	43	0.02	< 10	< 10	31	< 10	26
H568231	299	229	0.02	7	240	8	< 2	3	46	0.02	< 10	< 10	30	< 10	26
H568232	299	229	0.03	7	260	< 2	2	3	65	0.03	< 10	< 10	26	< 10	28
H568233	299	229	0.01	5	240	4	2	3	54	0.02	< 10	< 10	27	< 10	26
H568234	299	229	0.01	7	320	6	< 2	4	53	0.03	< 10	< 10	35	< 10	32
H568235	299	229	0.02	6	270	4	< 2	3	68	0.01	< 10	< 10	25	< 10	22
H568236	299	229	0.01	7	260	2	< 2	3	48	0.02	< 10	< 10	30	< 10	30
H568237	299	229	0.03	11	370	< 2	< 2	6	113	0.06	< 10	< 10	51	< 10	42
H568238	299	229	0.03	8	400	6	< 2	4	82	0.01	< 10	< 10	31	< 10	28
H568239	299	229	0.03	7	240	4	2	3	116	0.02	< 10	< 10	31	< 10	26
H568240	299	229	0.02	7	310	2	2	6	109	0.06	< 10	< 10	44	< 10	26
H568241	299	229	0.03	8	320	4	< 2	5	111	0.04	< 10	< 10	40	< 10	30

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 153
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu : 1
Total Pag : 4
Certificate : 27-MAY-93
Invoice No. : I9314511
P.O. Number :
Account : FC

** Corrected copy **

CERTIFICATE OF ANALYSIS A9314511

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572391	208 276	0.13	0.012	0.24	11580
H572392	208 276	0.10	0.012	0.10	10640
H572393	208 273	0.06	0.005	0.07	13460
H572394	208 273	0.08	0.009	0.07	14100
H572395	208 273	0.09	0.004	0.07	12580
H572396	208 270	0.06	0.010	0.03	16720
H572397	208 273	0.07	0.018	< 0.03	12600
H572398	208 273	0.08	0.006	0.10	13680
H572399	208 273	0.08	0.018	0.07	13460
H572400	208 276	0.06	0.023	0.10	7620
H572401	208 273	0.06	0.012	0.10	14400
H572402	208 273	0.06	0.010	0.10	14080
H572403	208 273	0.09	0.009	0.03	14420
H572404	208 274	0.09	0.015	0.21	7140
H572405	208 273	0.07	0.013	0.10	14120
H572406	208 273	0.05	0.005	< 0.03	14300
H572407	208 273	0.04	0.016	< 0.03	14020
H572408	208 273	0.10	0.028	0.14	14580
H572409	208 273	0.13	0.016	0.17	13960
H572410	208 273	0.20	0.019	0.41	14500
H572411	208 273	0.13	0.010	0.17	13480
H572412	208 273	0.11	0.022	0.17	13540
H572413	208 273	0.14	0.020	0.24	13420
H572414	208 273	0.11	0.021	0.17	13840
H572415	208 273	0.22	0.022	0.21	12380
H572416	208 273	0.16	0.016	0.21	13160
H572417	208 270	0.19	0.018	0.17	19820
H572418	208 273	0.10	0.015	0.14	12960
H572419	208 274	0.13	0.010	0.17	7060
H572420	208 273	0.26	0.020	0.17	13340
H572421	208 273	0.11	0.007	0.03	14520
H572422	208 276	0.07	0.007	0.03	11660
H572423	208 273	0.10	0.007	< 0.03	13960
H572424	208 273	0.32	0.011	0.31	14740
H572425	208 273	0.30	0.010	0.17	13900
H572426	208 273	0.31	0.010	0.24	14100
H572427	208 273	0.41	0.017	0.31	14600
H572428	208 273	0.31	0.019	0.24	13600
H572429	208 273	0.34	0.014	0.24	15240
H572430	208 273	0.32	0.015	0.21	14980

CERTIFICATION: J Chatel

MoS2 values corrected on samples H572399 to H572403 and H572491

Chemex Labs Ltd.

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 153
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate D : 27-MAY-93
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CERTIFICATE OF ANALYSIS A9314511

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572431	208	273	0.40	0.010	0.27	13240						
H572432	208	273	0.42	0.037	0.58	13860						
H572433	208	273	0.40	0.019	0.41	14300						
H572434	208	273	0.48	0.019	0.45	13600						
H572435	208	273	0.31	0.011	0.27	11980						
H572436	208	273	0.38	0.017	0.38	12160						
H572437	208	273	0.57	0.046	0.31	12040						
H572438	208	273	0.17	0.022	0.24	13060						
H572439	208	276	0.25	0.025	0.38	11600						
H572440	208	273	0.26	0.053	0.27	12860						
H572441	208	273	0.19	0.025	0.17	12980						
H572442	208	273	0.23	0.019	0.31	13200						
H572443	208	273	0.25	0.022	0.31	12800						
H572444	208	273	0.18	0.023	0.27	12820						
H572445	208	273	0.24	0.021	0.27	14280						
H572446	208	273	0.24	0.021	0.17	13100						
H572447	208	273	0.30	0.034	0.38	12460						
H572448	208	273	0.21	0.019	0.31	13740						
H572449	208	273	0.17	0.022	0.21	13480						
H572450	208	273	0.22	0.025	0.27	12580						
H572451	208	273	0.19	0.021	0.24	12360						
H572452	208	273	0.20	0.026	0.27	13280						
H572453	208	273	0.18	0.025	0.21	13900						
H572454	208	273	0.17	0.016	0.21	13740						
H572455	208	273	0.16	0.038	0.17	13340						
H572456	208	273	0.18	0.044	0.17	13980						
H572457	208	273	0.18	0.025	0.17	14160						
H572458	208	273	0.22	0.019	0.31	14900						
H572459	208	273	0.18	0.012	0.21	15360						
H572460	208	273	0.07	0.020	0.07	13980						
H572461	208	273	0.09	0.004	0.10	12280						
H572462	208	273	0.07	0.013	0.07	14180						
H572463	208	274	0.21	0.021	0.27	6720						
H572464	208	273	0.18	0.028	0.24	12420						
H572465	208	273	0.17	0.012	0.10	13460						
H572466	208	273	0.12	0.017	0.24	13140						
H572467	208	273	0.18	0.032	0.38	12620						
H572468	208	273	0.25	0.020	0.24	13280						
H572469	208	273	0.23	0.028	0.27	13180						
H572470	208	273	0.18	0.033	0.21	12640						

CERTIFICATION: JChrche

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 153
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-MAY-93
Invoice No. : I9314511
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314511

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572471	208	276	0.21	0.024	0.17	8920						
H572472	208	273	0.28	0.040	0.34	13100						
H572473	208	273	0.35	0.165	0.48	13300						
H572474	208	273	0.66	0.404	0.86	12140						
H572475	208	273	0.36	0.103	0.34	12960						
H572476	208	273	0.28	0.075	0.34	13480						
H572477	208	273	0.24	0.081	0.21	13960						
H572478	208	273	0.24	0.064	0.65	13280						
H572479	208	273	0.25	0.099	0.27	13240						
H572480	208	273	0.24	0.163	0.24	13680						
H572481	208	273	0.22	0.067	0.17	14220						
H572482	208	273	0.22	0.036	0.21	13000						
H572483	208	273	0.18	0.091	0.17	12400						
H572484	208	273	0.24	0.095	0.17	12780						
H572485	208	273	0.28	0.043	0.31	13160						
H572486	208	273	0.21	0.054	0.17	12940						
H572487	208	273	0.15	0.080	0.14	13400						
H572488	208	273	0.16	0.101	0.17	13160						
H572489	208	273	0.31	0.075	0.24	12460						
H572490	208	273	0.21	0.071	0.21	12700						
H572491	208	273	0.28	0.053	0.21	12640						
H572492	208	273	0.13	0.063	0.14	14000						
H572493	208	273	0.16	0.059	0.10	12960						
H572494	208	276	0.18	0.047	0.14	11480						
H572495	208	273	0.18	0.038	0.10	12040						
H572496	208	276	0.19	0.039	0.24	10760						
H572497	208	276	0.24	0.049	0.17	11360						
H572498	208	273	0.21	0.041	0.17	11920						
H572499	208	273	0.25	0.056	0.14	13080						
H572500	208	276	0.23	0.048	0.24	11760						
H572501	208	273	0.30	0.057	0.27	12300						
H572502	208	273	0.32	0.092	0.31	13220						
H572503	208	273	0.21	0.057	0.21	14100						
H572504	208	273	0.20	0.044	0.24	12460						
H572505	208	276	0.17	0.048	0.14	11240						
H572506	208	276	0.21	0.081	0.21	11800						
H572507	208	273	0.16	0.050	0.10	11870						
H572508	208	273	0.16	0.076	0.07	14380						
H572509	208	276	0.23	0.088	0.21	11600						
H572510	208	273	0.20	0.070	0.17	13140						

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Project : CASINO 153
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-MAY-93
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Account : FC

CERTIFICATE OF ANALYSIS A9314511

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572511	208 273	0.23	0.047	0.14	14000
H572512	208 273	0.15	0.046	0.17	12020
H572513	208 273	0.16	0.100	0.14	14280
H572514	208 273	0.13	0.095	0.07	13600
H572515	208 273	0.14	0.078	0.10	14960
H572516	208 273	0.12	0.053	0.07	13500
H572517	208 276	0.15	0.054	0.14	11600

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 153
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-JUN-93
Invoice No. :19314512
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314512

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572391	299	229	1.8	1.92	14	200	< 0.5	4	0.94	< 0.5	17	37	1190	5.08	10	< 1	1.19	20	1.37	355	68
H572392	299	229	1.0	2.17	10	230	< 0.5	< 2	1.18	< 0.5	12	70	828	3.58	10	< 1	1.01	30	1.47	335	65
H572393	299	229	0.8	1.60	14	190	< 0.5	< 2	1.22	< 0.5	13	73	514	3.16	10	< 1	0.56	30	1.08	275	28
H572394	299	229	1.0	1.86	6	230	< 0.5	2	1.11	< 0.5	12	79	689	3.19	10	< 1	0.69	30	1.24	295	52
H572395	299	229	0.8	1.65	8	60	< 0.5	2	1.59	0.5	15	53	806	4.02	10	< 1	0.70	30	1.04	295	19
H572396	299	229	0.8	1.92	18	120	< 0.5	4	1.34	< 0.5	16	75	570	3.74	10	< 1	0.72	30	1.16	290	60
H572397	299	229	0.6	1.99	4	80	< 0.5	2	2.45	0.5	19	93	668	3.77	10	< 1	0.80	30	1.09	325	103
H572398	299	229	0.6	2.01	4	100	< 0.5	< 2	1.39	0.5	16	83	731	3.86	10	< 1	0.78	30	1.21	265	34
H572399	299	229	0.8	1.40	6	130	< 0.5	2	1.70	< 0.5	12	63	596	3.33	10	< 1	0.66	30	1.01	215	94
H572400	299	229	1.4	1.64	16	120	< 0.5	4	1.67	< 0.5	13	82	736	3.91	10	< 1	0.80	20	1.07	225	127
H572401	299	229	1.0	1.45	12	160	< 0.5	< 2	2.01	< 0.5	9	61	520	3.02	10	< 1	0.77	40	1.07	195	58
H572402	299	229	0.8	1.40	4	150	< 0.5	4	1.90	< 0.5	9	89	519	3.05	10	< 1	0.61	30	0.82	215	57
H572403	299	229	0.8	1.69	2	200	< 0.5	< 2	1.59	< 0.5	12	68	518	2.95	10	< 1	0.70	30	0.97	210	44
H572404	299	229	1.4	1.39	14	120	< 0.5	4	2.39	< 0.5	11	81	788	3.71	10	< 1	0.66	30	0.93	265	84
H572405	299	229	0.8	1.89	4	140	0.5	2	2.24	< 0.5	9	76	613	3.23	10	< 1	0.79	30	0.99	230	73
H572406	299	229	0.6	1.87	6	240	< 0.5	< 2	1.29	< 0.5	10	111	409	3.06	10	< 1	0.83	30	1.23	250	26
H572407	299	229	0.6	1.84	4	190	0.5	< 2	1.70	< 0.5	10	77	368	3.12	10	< 1	0.71	30	1.03	215	93
H572408	299	229	0.8	1.98	< 2	110	0.5	< 2	1.78	< 0.5	13	118	862	3.63	10	< 1	0.94	40	1.13	210	150
H572409	299	229	1.4	2.41	< 2	220	< 0.5	< 2	1.05	< 0.5	13	84	1170	4.44	10	< 1	1.32	30	1.67	280	85
H572410	299	229	1.8	2.46	< 2	120	0.5	< 2	1.18	< 0.5	13	134	1855	4.21	10	< 1	1.26	30	1.48	255	109
H572411	299	229	0.8	2.41	4	170	< 0.5	< 2	0.31	< 0.5	15	100	1195	4.30	10	< 1	1.24	20	1.62	210	51
H572412	299	229	1.2	2.22	8	110	< 0.5	< 2	0.28	< 0.5	13	113	991	4.05	10	< 1	1.04	10	1.28	150	119
H572413	299	229	1.2	3.09	10	250	< 0.5	< 2	0.27	< 0.5	14	83	1255	4.63	10	< 1	1.70	10	2.08	240	110
H572414	299	229	1.0	3.13	< 2	150	< 0.5	< 2	0.29	< 0.5	13	102	1005	5.12	10	< 1	1.80	10	2.10	230	115
H572415	299	229	1.6	3.44	16	100	< 0.5	< 2	0.29	< 0.5	19	77	2010	4.97	10	< 1	1.86	20	2.08	245	120
H572416	299	229	1.6	3.05	24	40	< 0.5	< 2	0.23	< 0.5	21	129	1440	5.25	10	< 1	1.74	20	1.87	170	87
H572417	299	229	1.4	2.72	6	120	< 0.5	< 2	0.10	< 0.5	11	74	1750	3.45	10	< 1	1.29	10	1.52	135	112
H572418	299	229	1.2	2.44	< 2	140	< 0.5	< 2	0.13	< 0.5	12	105	912	3.43	10	< 1	1.21	10	1.32	110	88
H572419	299	229	1.4	2.30	< 2	130	< 0.5	< 2	0.16	< 0.5	8	79	1145	3.27	10	< 1	0.87	20	1.13	115	63
H572420	299	229	1.2	3.24	6	160	< 0.5	< 2	0.08	< 0.5	15	66	2290	3.83	10	< 1	1.56	20	1.83	205	113
H572421	299	229	0.4	2.57	14	110	< 0.5	< 2	0.32	< 0.5	13	87	1025	3.18	10	< 1	0.86	20	1.26	170	42
H572422	299	229	0.4	2.42	14	160	< 0.5	< 2	0.19	< 0.5	12	113	620	3.06	10	< 1	0.79	20	1.22	185	41
H572423	299	229	0.6	2.40	16	100	< 0.5	< 2	0.27	< 0.5	23	89	866	3.52	10	< 1	0.74	20	1.23	180	41
H572424	299	229	1.6	3.70	26	90	< 0.5	< 2	0.20	< 0.5	23	129	2870	4.32	10	< 1	1.66	20	2.04	215	63
H572425	299	229	1.0	4.36	6	70	< 0.5	< 2	0.25	< 0.5	27	109	2730	5.64	10	< 1	1.73	10	2.22	240	54
H572426	299	229	1.4	4.00	< 2	70	< 0.5	< 2	0.28	< 0.5	22	69	2810	5.20	10	< 1	1.73	20	2.23	220	53
H572427	299	229	2.0	3.55	12	60	< 0.5	< 2	0.17	< 0.5	35	60	3830	4.94	10	< 1	1.56	20	1.89	185	98
H572428	299	229	1.8	4.00	14	100	< 0.5	< 2	0.19	< 0.5	24	110	3420	4.93	20	< 1	2.05	30	2.45	235	109
H572429	299	229	1.8	4.02	4	60	0.5	< 2	0.21	< 0.5	27	104	3200	5.10	10	< 1	1.97	20	2.27	225	86
H572430	299	229	1.6	2.92	< 2	60	0.5	< 2	0.18	< 0.5	20	112	3030	4.30	10	< 1	1.47	20	1.60	145	88

CERTIFICATION: Ian H Bucklen

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R572391	299	229	0.06	14	770	22	< 2	12	47	0.12	< 10	< 10	86	10	98
R572392	299	229	0.03	15	810	18	< 2	8	22	0.09	10	< 10	64	60	102
R572393	299	229	0.03	13	730	16	< 2	4	28	0.02	10	< 10	36	10	84
R572394	299	229	0.03	16	750	22	< 2	4	22	0.04	10	< 10	44	10	90
R572395	299	229	0.03	14	740	14	< 2	3	55	0.03	< 10	< 10	30	20	64
R572396	299	229	0.02	16	730	18	< 2	3	25	0.04	< 10	< 10	36	10	68
R572397	299	229	0.02	14	770	16	< 2	3	32	0.03	10	< 10	25	360	64
R572398	299	229	0.02	16	790	16	< 2	4	37	0.04	< 10	< 10	39	10	68
R572399	299	229	0.02	14	730	12	< 2	3	27	0.03	10	< 10	29	< 10	44
R572400	299	229	0.02	15	790	12	< 2	3	29	0.03	10	< 10	28	60	46
R572401	299	229	0.02	14	780	8	< 2	3	27	0.04	10	< 10	30	< 10	42
R572402	299	229	0.02	15	770	6	< 2	3	27	0.02	10	< 10	25	< 10	44
R572403	299	229	0.03	15	770	18	< 2	3	24	0.04	10	< 10	33	20	42
R572404	299	229	0.03	12	740	12	< 2	3	30	0.02	10	< 10	25	20	38
R572405	299	229	0.02	11	710	12	< 2	3	26	0.04	10	< 10	32	10	44
R572406	299	229	0.04	14	760	14	2	6	26	0.09	10	< 10	47	10	52
R572407	299	229	0.03	11	730	14	< 2	4	26	0.04	10	< 10	37	20	38
R572408	299	229	0.03	8	580	10	2	7	23	0.09	10	< 10	55	30	36
R572409	299	229	0.04	7	790	14	< 2	14	17	0.17	10	< 10	111	10	50
R572410	299	229	0.04	7	630	12	2	12	17	0.13	10	< 10	88	20	46
R572411	299	229	0.06	8	690	4	< 2	12	14	0.15	10	< 10	102	10	46
R572412	299	229	0.07	8	570	8	< 2	9	20	0.12	< 10	< 10	76	10	34
R572413	299	229	0.07	11	640	6	< 2	18	18	0.27	< 10	< 10	142	10	46
R572414	299	229	0.09	9	710	2	< 2	19	21	0.27	< 10	< 10	150	120	48
R572415	299	229	0.07	10	730	6	< 2	16	22	0.25	< 10	< 10	131	70	56
R572416	299	229	0.08	13	660	20	< 2	13	18	0.21	< 10	< 10	107	10	40
R572417	299	229	0.05	6	640	8	< 2	13	25	0.14	10	< 10	96	< 10	32
R572418	299	229	0.06	7	780	4	< 2	12	25	0.14	< 10	< 10	90	< 10	26
R572419	299	229	0.05	8	840	4	2	10	25	0.08	< 10	< 10	81	< 10	28
R572420	299	229	0.05	10	470	6	< 2	17	33	0.21	< 10	< 10	120	< 10	46
R572421	299	229	0.06	16	720	4	< 2	6	30	0.09	< 10	< 10	50	< 10	36
R572422	299	229	0.06	16	760	8	< 2	6	61	0.09	< 10	< 10	49	10	36
R572423	299	229	0.05	17	980	8	< 2	6	43	0.12	< 10	< 10	53	90	36
R572424	299	229	0.07	13	850	12	2	17	51	0.25	< 10	< 10	134	10	50
R572425	299	229	0.07	14	1170	6	< 2	20	32	0.27	< 10	< 10	155	10	54
R572426	299	229	0.06	13	1140	6	< 2	20	31	0.27	< 10	< 10	157	10	56
R572427	299	229	0.04	13	950	12	< 2	15	42	0.21	10	< 10	121	10	46
R572428	299	229	0.05	13	1010	14	< 2	19	57	0.26	10	< 10	152	10	54
R572429	299	229	0.05	13	1020	10	< 2	16	34	0.24	< 10	< 10	127	10	52
R572430	299	229	0.04	9	850	8	< 2	13	35	0.17	10	< 10	99	< 10	38

CERTIFICATION: Hart Bichler

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Certificate Date: 04-JUN-93
Invoice No. : I9314512
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CERTIFICATE OF ANALYSIS A9314512

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B572431	299	229	2.0	3.74	20	50	0.5	6	0.21	< 0.5	24	147	3680	4.62	10	< 1	1.54	30	1.78	185	56
B572432	299	229	2.4	3.58	62	60	< 0.5	40	0.26	< 0.5	24	94	4430	5.04	10	< 1	1.63	20	1.93	210	250
B572433	299	229	2.2	3.13	36	50	< 0.5	< 2	0.26	< 0.5	26	119	3790	5.66	10	< 1	1.51	20	1.79	220	127
B572434	299	229	2.4	3.44	26	40	< 0.5	< 2	0.27	< 0.5	30	100	4320	5.41	10	< 1	1.57	20	2.03	190	100
B572435	299	229	1.4	2.60	14	50	< 0.5	4	0.21	< 0.5	21	171	2660	4.10	10	< 1	1.14	20	1.41	145	54
B572436	299	229	2.0	3.65	12	60	0.5	< 2	0.35	< 0.5	24	107	3530	5.26	10	< 1	1.57	20	2.06	280	104
B572437	299	229	1.4	3.81	14	40	0.5	< 2	0.46	< 0.5	25	129	4980	5.41	10	< 1	1.68	20	2.06	340	239
B572438	299	229	1.6	2.41	14	120	0.5	2	0.67	< 0.5	26	126	1630	3.78	10	< 1	1.14	30	1.43	300	131
B572439	299	229	1.6	3.47	4	80	< 0.5	< 2	0.90	< 0.5	22	187	2080	4.58	10	< 1	1.85	30	2.33	290	130
B572440	299	229	1.6	3.18	20	90	0.5	< 2	0.80	< 0.5	22	204	2200	4.29	10	< 1	1.49	30	1.96	265	304
B572441	299	229	1.6	3.27	26	50	0.5	< 2	0.84	< 0.5	22	97	1560	4.77	10	< 1	1.51	20	2.20	305	123
B572442	299	229	1.8	3.12	22	120	< 0.5	< 2	0.96	< 0.5	21	100	1975	4.28	< 10	< 1	1.81	20	2.28	265	114
B572443	299	229	2.0	2.66	8	210	< 0.5	< 2	0.91	< 0.5	17	218	2220	3.11	10	< 1	1.25	30	1.43	215	122
B572444	299	229	1.4	3.53	18	60	0.5	< 2	0.35	< 0.5	32	97	1520	5.85	10	< 1	1.66	20	2.06	415	129
B572445	299	229	1.4	4.32	18	160	< 0.5	< 2	0.33	< 0.5	19	146	1980	4.82	10	< 1	1.91	20	2.48	325	115
B572446	299	229	1.2	4.07	16	60	< 0.5	< 2	0.29	< 0.5	24	88	1995	5.34	10	< 1	1.71	20	2.25	230	98
B572447	299	229	2.6	3.40	20	90	0.5	< 2	0.39	< 0.5	25	179	2600	4.41	< 10	< 1	1.61	10	2.14	310	191
B572448	299	229	1.4	2.39	8	80	< 0.5	< 2	0.34	< 0.5	16	78	1635	3.77	< 10	< 1	0.94	10	1.50	235	103
B572449	299	229	1.6	2.62	10	140	0.5	< 2	0.36	< 0.5	18	254	1495	3.74	10	1	1.07	20	1.49	250	114
B572450	299	229	1.6	2.45	6	90	< 0.5	< 2	0.43	< 0.5	17	147	1860	3.91	10	< 1	1.15	20	1.71	180	132
B572451	299	229	1.4	2.44	14	100	0.5	2	0.29	< 0.5	14	218	1700	2.77	10	< 1	0.77	20	0.96	120	112
B572452	299	229	1.6	2.04	8	110	< 0.5	< 2	0.30	< 0.5	19	119	1645	3.35	10	< 1	0.78	20	1.19	205	151
B572453	299	229	1.4	2.35	4	110	< 0.5	< 2	0.26	< 0.5	16	187	1510	3.27	10	< 1	0.89	30	1.30	205	143
B572454	299	229	1.4	2.34	6	80	< 0.5	< 2	0.42	< 0.5	19	182	1420	3.63	10	< 1	0.93	20	1.29	185	81
B572455	299	229	1.0	2.25	12	70	< 0.5	< 2	0.31	< 0.5	15	125	1420	3.36	10	< 1	1.00	20	1.39	155	211
B572456	299	229	1.6	2.19	16	60	< 0.5	< 2	0.24	< 0.5	16	193	1635	3.67	10	< 1	1.09	20	1.31	165	252
B572457	299	229	1.2	2.32	20	70	0.5	< 2	0.21	< 0.5	20	246	1585	3.63	10	< 1	1.05	30	1.17	170	140
B572458	299	229	1.6	2.03	8	100	0.5	4	0.42	< 0.5	18	151	1945	3.37	10	< 1	0.98	30	1.10	205	111
B572459	299	229	1.4	1.70	8	150	< 0.5	18	0.78	< 0.5	16	185	1525	2.80	10	< 1	0.73	20	0.92	170	66
B572460	299	229	0.6	2.03	< 2	180	0.5	< 2	0.72	< 0.5	14	97	626	2.97	10	< 1	0.92	30	1.21	175	111
B572461	299	229	1.2	2.25	2	60	0.5	< 2	1.24	< 0.5	13	122	804	3.64	10	< 1	0.81	30	1.18	135	14
B572462	299	229	0.6	2.02	4	190	< 0.5	< 2	0.93	< 0.5	12	108	595	3.41	10	< 1	0.74	20	1.30	180	74
B572463	299	229	1.4	1.95	4	100	< 0.5	< 2	0.78	< 0.5	15	143	1795	3.48	10	< 1	0.76	20	1.27	140	123
B572464	299	229	1.2	2.06	2	130	< 0.5	< 2	0.38	< 0.5	22	111	1560	3.54	10	< 1	0.78	30	1.16	235	161
B572465	299	229	0.6	2.42	12	100	0.5	< 2	0.34	< 0.5	18	53	1720	4.09	10	< 1	0.50	40	0.77	435	64
B572466	299	229	1.0	1.51	14	60	0.5	< 2	1.05	< 0.5	19	83	1085	3.98	10	< 1	0.50	30	0.77	245	100
B572467	299	229	1.4	1.25	6	40	< 0.5	< 2	0.96	< 0.5	14	40	1645	3.45	10	< 1	0.52	20	0.78	175	162
B572468	299	229	1.4	3.40	24	110	0.5	< 2	0.65	< 0.5	32	63	2170	5.54	10	< 1	1.72	20	2.23	375	109
B572469	299	229	2.2	2.45	12	90	0.5	< 2	0.65	< 0.5	26	44	2280	4.65	10	< 1	1.29	30	1.63	315	169
B572470	299	229	1.4	1.84	12	80	< 0.5	< 2	0.84	< 0.5	15	79	1595	3.28	10	< 1	0.80	30	1.07	175	221

CERTIFICATION: Gary Bidler

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CERTIFICATE OF ANALYSIS A9314512

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B572431	299	229	0.04	8	920	12	< 2	12	45	0.17	10	< 10	93	< 10	46
B572432	299	229	0.03	12	1000	16	< 2	15	28	0.20	< 10	< 10	114	< 10	52
B572433	299	229	0.03	10	980	12	< 2	12	19	0.18	< 10	< 10	105	10	54
B572434	299	229	0.04	11	1140	8	< 2	13	20	0.18	< 10	< 10	110	10	52
B572435	299	229	0.03	9	880	8	< 2	9	28	0.13	< 10	< 10	69	10	38
B572436	299	229	0.04	11	1080	10	< 2	15	18	0.21	10	< 10	131	10	70
B572437	299	229	0.05	12	1150	8	< 2	19	32	0.24	10	< 10	149	< 10	82
B572438	299	229	0.04	11	700	6	< 2	10	17	0.14	10	< 10	78	10	52
B572439	299	229	0.05	12	700	8	< 2	17	13	0.26	10	< 10	133	20	58
B572440	299	229	0.05	11	1650	4	2	14	16	0.19	10	< 10	109	80	50
B572441	299	229	0.03	13	840	14	2	14	11	0.23	10	< 10	118	< 10	64
B572442	299	229	0.06	10	950	8	2	17	14	0.24	< 10	< 10	131	10	60
B572443	299	229	0.05	9	570	8	< 2	10	15	0.12	< 10	< 10	78	< 10	52
B572444	299	229	0.04	12	660	10	< 2	14	9	0.22	< 10	< 10	114	< 10	82
B572445	299	229	0.05	12	800	4	< 2	20	11	0.27	< 10	< 10	153	10	76
B572446	299	229	0.04	11	870	12	< 2	16	17	0.24	10	< 10	126	< 10	58
B572447	299	229	0.05	11	720	8	2	15	26	0.23	< 10	< 10	123	< 10	64
B572448	299	229	0.03	7	480	8	< 2	8	10	0.13	< 10	< 10	64	< 10	48
B572449	299	229	0.06	8	470	6	2	11	15	0.16	< 10	< 10	90	10	46
B572450	299	229	0.04	7	610	8	< 2	12	12	0.23	< 10	< 10	113	10	40
B572451	299	229	0.05	6	400	6	< 2	4	12	0.07	< 10	< 10	42	10	34
B572452	299	229	0.04	7	500	4	< 2	8	11	0.09	10	< 10	66	10	42
B572453	299	229	0.05	5	480	6	< 2	9	12	0.09	10	< 10	73	10	44
B572454	299	229	0.06	7	510	6	< 2	9	14	0.14	10	< 10	72	10	38
B572455	299	229	0.03	6	640	6	< 2	9	10	0.15	< 10	< 10	74	< 10	36
B572456	299	229	0.04	7	530	8	2	9	11	0.12	10	< 10	73	< 10	36
B572457	299	229	0.04	8	580	6	< 2	8	11	0.08	10	< 10	59	< 10	38
B572458	299	229	0.04	7	530	6	< 2	10	13	0.10	10	< 10	71	< 10	40
B572459	299	229	0.04	4	490	8	< 2	9	14	0.06	10	< 10	68	< 10	30
B572460	299	229	0.03	10	630	10	< 2	6	14	0.08	10	< 10	49	< 10	28
B572461	299	229	0.02	15	740	8	< 2	3	17	0.06	< 10	< 10	38	10	24
B572462	299	229	0.03	13	640	4	< 2	6	18	0.08	< 10	< 10	56	< 10	30
B572463	299	229	0.03	5	530	6	2	9	16	0.08	< 10	< 10	67	< 10	30
B572464	299	229	0.03	6	550	8	< 2	9	14	0.09	10	< 10	69	60	48
B572465	299	229	0.01	14	930	8	< 2	6	123	0.03	10	< 10	40	< 10	66
B572466	299	229	0.01	8	610	6	< 2	4	20	0.02	10	< 10	34	< 10	32
B572467	299	229	0.01	4	580	6	< 2	8	14	0.06	10	< 10	46	< 10	28
B572468	299	229	0.04	10	1000	6	< 2	19	15	0.25	10	< 10	148	< 10	66
B572469	299	229	0.02	10	1000	6	< 2	13	10	0.17	10	< 10	102	< 10	62
B572470	299	229	0.01	7	580	2	< 2	9	10	0.08	10	< 10	61	< 10	28

CERTIFICATION: Jan Buchler

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Project : CASINO 153
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R572471	299	229	1.8	2.43	8	110	0.5	< 2	1.05	< 0.5	14	79	1965	3.67	10	< 1	0.84	20	1.28	165	139
R572472	299	229	2.2	2.90	30	140	0.5	< 2	0.73	< 0.5	23	121	2760	4.03	10	< 1	1.08	40	1.37	290	239
R572473	299	229	2.4	1.56	22	80	< 0.5	< 2	0.70	< 0.5	22	70	3270	4.00	10	< 1	0.64	40	0.75	290	948
R572474	299	229	4.2	1.55	22	60	0.5	2	0.53	< 0.5	20	82	6660	2.76	10	< 1	0.46	70	0.49	105	2370
R572475	299	229	2.4	1.48	4	60	< 0.5	< 2	0.91	0.5	24	68	3360	3.67	10	< 1	0.63	30	0.89	225	599
R572476	299	229	1.8	0.89	12	90	< 0.5	< 2	0.64	< 0.5	11	160	2510	2.30	< 10	< 1	0.44	20	0.55	175	435
R572477	299	229	1.8	0.75	6	60	< 0.5	2	0.62	< 0.5	15	130	2450	3.12	< 10	< 1	0.40	20	0.45	155	526
R572478	299	229	2.4	0.94	12	30	< 0.5	26	0.68	< 0.5	13	200	2300	4.73	< 10	< 1	0.39	10	0.46	175	384
R572479	299	229	1.6	0.72	6	90	< 0.5	2	0.61	< 0.5	12	149	2500	2.61	< 10	< 1	0.34	20	0.34	135	637
R572480	299	229	1.6	0.84	4	110	< 0.5	2	0.46	< 0.5	14	215	2460	2.23	< 10	< 1	0.40	20	0.35	100	1065
R572481	299	229	1.6	0.72	8	130	< 0.5	2	0.50	< 0.5	13	139	2310	1.72	< 10	< 1	0.36	20	0.34	70	450
R572482	299	229	1.6	1.12	6	140	< 0.5	< 2	0.71	< 0.5	10	297	2270	1.79	< 10	< 1	0.39	30	0.41	90	237
R572483	299	229	0.8	0.91	< 2	150	< 0.5	< 2	0.46	< 0.5	11	188	1675	1.85	< 10	< 1	0.49	20	0.57	105	547
R572484	299	229	1.6	0.81	4	110	< 0.5	< 2	0.44	< 0.5	13	118	2500	2.48	< 10	< 1	0.43	30	0.42	95	590
R572485	299	229	2.0	1.02	12	100	< 0.5	< 2	0.64	< 0.5	13	195	2960	2.58	< 10	< 1	0.59	20	0.62	100	274
R572486	299	229	1.4	1.01	10	90	< 0.5	< 2	0.86	< 0.5	10	109	2300	1.99	< 10	< 1	0.41	20	0.48	75	364
R572487	299	229	0.8	1.10	8	80	< 0.5	2	0.75	< 0.5	12	189	1605	2.47	< 10	< 1	0.54	20	0.50	75	534
R572488	299	229	1.2	0.64	< 2	70	< 0.5	2	0.57	< 0.5	13	155	1575	2.07	< 10	< 1	0.33	20	0.33	90	643
R572489	299	229	2.0	0.77	4	90	< 0.5	< 2	0.41	< 0.5	13	100	3180	1.82	< 10	< 1	0.41	30	0.48	80	483
R572490	299	229	1.2	0.97	4	90	< 0.5	< 2	0.50	< 0.5	13	205	2150	2.25	< 10	< 1	0.52	20	0.43	80	460
R572491	299	229	1.8	0.94	6	60	< 0.5	< 2	0.59	< 0.5	16	108	2940	2.46	< 10	< 1	0.51	30	0.64	90	318
R572492	299	229	0.4	0.91	2	90	< 0.5	< 2	0.81	< 0.5	16	141	1325	1.90	< 10	< 1	0.50	30	0.61	90	408
R572493	299	229	1.0	0.69	< 2	60	< 0.5	< 2	0.68	< 0.5	17	94	1670	2.40	< 10	< 1	0.41	20	0.48	75	380
R572494	299	229	0.8	0.87	12	90	< 0.5	< 2	1.13	< 0.5	13	111	1790	1.65	< 10	< 1	0.40	30	0.66	85	294
R572495	299	229	0.8	0.78	6	90	< 0.5	< 2	1.22	< 0.5	7	104	1710	1.15	< 10	< 1	0.31	20	0.51	70	240
R572496	299	229	1.0	0.66	8	130	< 0.5	< 2	0.72	< 0.5	9	136	1925	1.24	< 10	< 1	0.32	30	0.45	70	266
R572497	299	229	1.4	0.72	4	160	< 0.5	2	0.52	< 0.5	10	134	2620	1.57	< 10	< 1	0.35	30	0.42	70	339
R572498	299	229	1.2	1.72	12	140	0.5	< 2	1.01	< 0.5	15	119	2140	2.22	< 10	< 1	0.79	30	1.22	155	247
R572499	299	229	2.0	2.40	14	110	0.5	< 2	1.06	< 0.5	19	115	2630	3.52	10	< 1	1.16	20	1.50	185	350
R572500	299	229	1.2	1.70	6	170	0.5	< 2	0.86	< 0.5	12	141	2510	1.65	< 10	< 1	0.59	30	0.94	95	314
R572501	299	229	1.4	1.42	6	130	< 0.5	< 2	0.61	< 0.5	14	130	3080	1.92	< 10	< 1	0.53	30	0.82	65	385
R572502	299	229	1.8	1.59	8	130	< 0.5	< 2	0.51	< 0.5	12	172	3330	1.79	< 10	< 1	0.64	30	0.72	70	629
R572503	299	229	1.2	1.43	< 2	110	< 0.5	< 2	0.46	< 0.5	11	135	1920	1.50	10	< 1	0.52	30	0.61	50	336
R572504	299	229	1.0	1.27	< 2	120	< 0.5	< 2	0.65	< 0.5	8	114	1815	1.19	< 10	< 1	0.46	30	0.62	60	255
R572505	299	229	1.0	1.22	2	110	< 0.5	< 2	0.36	< 0.5	7	112	1610	1.18	< 10	< 1	0.49	30	0.45	40	303
R572506	299	229	1.4	1.09	2	170	< 0.5	< 2	0.26	< 0.5	8	128	2040	1.27	< 10	< 1	0.49	30	0.37	35	504
R572507	299	229	1.6	1.36	< 2	230	< 0.5	< 2	0.71	< 0.5	9	122	1500	1.40	< 10	< 1	0.60	30	0.80	90	285
R572508	299	229	1.6	1.43	4	160	< 0.5	< 2	1.09	< 0.5	8	103	1475	1.94	10	< 1	0.67	30	0.96	185	447
R572509	299	229	1.4	1.19	< 2	180	< 0.5	< 2	1.23	< 0.5	7	123	2150	1.16	< 10	< 1	0.47	40	0.69	130	543
R572510	299	229	1.2	1.77	6	170	< 0.5	< 2	0.52	< 0.5	11	101	2000	1.61	< 10	< 1	0.59	30	0.85	60	416

CERTIFICATION: Stewart Bradley

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CERTIFICATE OF ANALYSIS A9314512

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572471	299	229	0.01	7	600	4	< 2	9	17	0.08	10	< 10	69	< 10	34
H572472	299	229	0.01	9	1150	12	< 2	18	12	0.14	10	< 10	117	< 10	48
H572473	299	229	0.01	9	1330	6	2	11	10	0.06	10	< 10	62	< 10	40
H572474	299	229	0.01	11	1220	< 2	6	8	12	0.04	20	< 10	55	< 10	42
H572475	299	229	0.01	9	1230	12	< 2	11	16	0.07	< 10	< 10	82	< 10	38
H572476	299	229	0.01	5	340	6	< 2	5	12	0.02	< 10	< 10	36	< 10	26
H572477	299	229	0.01	7	300	2	< 2	3	12	0.01	< 10	< 10	23	80	26
H572478	299	229	0.01	8	330	14	< 2	3	12	0.01	< 10	< 10	24	< 10	38
H572479	299	229	0.01	4	310	2	< 2	2	11	< 0.01	< 10	< 10	17	< 10	20
H572480	299	229	0.01	4	310	2	< 2	2	11	0.01	< 10	< 10	16	< 10	20
H572481	299	229	0.01	5	320	4	< 2	2	40	0.01	< 10	< 10	17	< 10	22
H572482	299	229	0.01	7	380	2	< 2	6	26	0.01	< 10	< 10	32	< 10	32
H572483	299	229	0.01	5	250	2	< 2	4	13	0.03	< 10	< 10	34	< 10	22
H572484	299	229	0.01	5	290	4	< 2	3	11	0.02	< 10	< 10	22	< 10	22
H572485	299	229	0.01	6	310	6	2	4	15	0.02	< 10	< 10	30	10	26
H572486	299	229	0.01	3	280	4	< 2	3	23	0.01	< 10	< 10	20	< 10	20
H572487	299	229	0.02	6	370	4	< 2	4	17	0.02	10	< 10	28	20	16
H572488	299	229	0.01	4	330	6	< 2	3	11	< 0.01	10	< 10	16	< 10	18
H572489	299	229	0.01	4	300	2	< 2	5	11	0.02	10	< 10	31	< 10	22
H572490	299	229	0.02	4	320	6	< 2	3	12	0.01	< 10	< 10	22	< 10	20
H572491	299	229	0.01	5	360	4	< 2	4	14	0.03	10	< 10	32	< 10	24
H572492	299	229	0.01	4	270	2	< 2	4	16	0.03	< 10	< 10	29	< 10	14
H572493	299	229	0.01	5	420	4	< 2	3	12	0.02	< 10	< 10	21	< 10	18
H572494	299	229	0.01	4	340	4	< 2	4	28	0.02	< 10	< 10	26	< 10	18
H572495	299	229	0.01	2	220	6	< 2	3	28	0.01	< 10	< 10	18	< 10	20
H572496	299	229	0.01	3	230	2	< 2	3	20	0.01	< 10	< 10	20	< 10	18
H572497	299	229	0.01	4	270	2	< 2	2	14	0.01	< 10	< 10	17	< 10	22
H572498	299	229	0.02	5	410	4	< 2	12	32	0.08	< 10	< 10	76	< 10	32
H572499	299	229	0.02	7	550	4	< 2	14	32	0.11	< 10	< 10	91	10	36
H572500	299	229	0.02	4	340	6	< 2	6	45	0.03	< 10	< 10	40	< 10	24
H572501	299	229	0.01	6	350	4	2	6	34	0.03	< 10	< 10	39	< 10	24
H572502	299	229	0.02	5	300	4	< 2	6	29	0.03	< 10	< 10	43	< 10	26
H572503	299	229	0.01	4	350	4	2	4	30	0.02	10	< 10	35	< 10	20
H572504	299	229	0.02	3	450	4	2	4	35	0.01	10	< 10	29	< 10	18
H572505	299	229	0.01	3	380	6	< 2	5	17	0.02	10	< 10	35	< 10	20
H572506	299	229	0.01	5	320	6	< 2	4	14	0.02	10	< 10	28	< 10	20
H572507	299	229	0.01	3	330	8	< 2	7	23	0.03	10	< 10	47	< 10	24
H572508	299	229	0.01	6	370	4	2	9	19	0.03	< 10	< 10	49	< 10	24
H572509	299	229	0.01	3	400	4	2	7	24	0.02	10	< 10	41	< 10	22
H572510	299	229	0.01	6	340	8	2	7	38	0.04	10	< 10	50	< 10	24

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572511	299	229	1.6	1.90	8	130	< 0.5	< 2	0.54	< 0.5	10	127	2190	1.64	10	< 1	0.63	30	0.76	70	277
H572512	299	229	0.8	1.88	6	160	< 0.5	< 2	0.54	< 0.5	9	103	1405	1.81	10	< 1	0.62	20	0.95	85	268
H572513	299	229	1.4	1.46	< 2	100	< 0.5	< 2	0.90	< 0.5	8	121	1605	1.63	< 10	< 1	0.55	20	0.69	130	621
H572514	299	229	1.0	1.14	< 2	90	< 0.5	< 2	0.73	< 0.5	7	107	1225	1.59	< 10	< 1	0.34	20	0.38	110	574
H572515	299	229	1.0	1.31	4	180	< 0.5	< 2	0.62	< 0.5	9	105	1410	1.65	< 10	< 1	0.44	20	0.48	95	487
H572516	299	229	0.8	1.31	2	200	< 0.5	< 2	0.61	< 0.5	6	107	1115	1.14	< 10	< 1	0.56	20	0.58	95	310
H572517	299	229	1.2	1.41	2	110	< 0.5	< 2	0.85	< 0.5	12	101	1360	1.80	10	< 1	0.63	40	0.88	135	293

CERTIFICATION: Jan Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572511	299	229	0.01	6	480	12	< 2	9	28	0.04	10	< 10	56	< 10	30
H572512	299	229	0.01	4	500	8	< 2	9	34	0.06	10	< 10	62	< 10	38
H572513	299	229	0.01	4	430	8	2	8	23	0.02	< 10	< 10	44	< 10	30
H572514	299	229	0.01	3	410	8	2	4	29	< 0.01	10	< 10	22	< 10	26
H572515	299	229	0.01	3	330	20	2	4	37	< 0.01	10	< 10	25	< 10	20
H572516	299	229	0.01	2	340	6	2	6	27	0.02	< 10	< 10	36	< 10	18
H572517	299	229	0.01	4	440	6	< 2	7	25	0.04	10	< 10	51	< 10	24

CERTIFICATION: Stewart Bichlmaier

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 154
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 01-JUN-93
Invoice No. : I9314513
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314513

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H568242	208 274	< 0.01	0.003	0.14	1780
H568243	208 276	< 0.01	0.003	0.10	7380
H568244	208 276	< 0.01	0.002	0.21	8080
H568245	208 276	< 0.01	0.005	0.14	10440
H568246	208 276	< 0.01	0.005	0.07	9740
H568247	208 273	< 0.01	0.008	0.10	12400
H568248	208 276	< 0.01	0.004	0.21	11440
H568249	208 276	< 0.01	0.006	0.24	10060
H568250	208 274	< 0.01	0.007	0.14	4420
H568251	208 276	< 0.01	0.008	0.17	9780
H568252	208 276	< 0.01	0.007	0.34	8180
H568253	208 274	< 0.01	0.004	0.38	3280
H568254	208 274	< 0.01	0.029	0.55	6480
H568255	208 274	< 0.01	0.006	0.14	5500
H568256	208 276	< 0.01	0.010	0.48	9620
H568257	208 276	< 0.01	0.008	0.31	8180
H568258	208 276	< 0.01	0.007	0.24	8240
H568259	208 274	< 0.01	0.011	0.24	7180
H568260	208 273	< 0.01	0.006	0.38	12480
H568261	208 274	< 0.01	0.011	2.95	5260
H568262	208 276	< 0.01	0.007	0.38	8640
H568263	208 274	< 0.01	0.008	0.27	6960
H568264	208 276	< 0.01	0.009	0.27	11340
H568265	208 276	< 0.01	0.009	0.27	7940
H568266	208 276	< 0.01	0.007	0.31	9840
H568267	208 276	< 0.01	0.002	0.45	8120
H568268	208 274	< 0.01	0.001	0.21	4960
H568269	208 274	< 0.01	0.002	0.41	6420
H568270	208 276	< 0.01	0.008	0.34	9700
H568271	208 276	< 0.01	0.014	0.31	9420
H568272	208 276	< 0.01	0.015	0.65	8760
H568273	208 273	< 0.01	0.013	0.21	11860
H568274	208 273	0.01	0.010	0.17	11820
H568275	208 276	0.01	0.022	0.34	10500
H568276	208 276	0.02	0.024	0.86	11640
H568277	208 276	0.01	0.019	0.41	11500
H568278	208 273	0.02	0.025	0.31	13160
H568279	208 273	0.01	0.006	0.14	13360
H568280	208 273	0.02	0.012	0.17	12640
H568281	208 273	0.02	0.012	0.38	11860

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Project : CASINO 154
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Certificate Date: 01-JUN-93
Invoice No. :19314513
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314513

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H568282	208 276	0.02	0.013	0.14	7800
H568283	208 273	0.09	0.008	0.17	12300
H568284	208 273	0.02	0.005	0.17	15640
H568285	208 276	0.04	0.009	0.21	11640
H568286	208 273	0.11	0.009	0.41	13060
H568287	208 273	0.15	0.009	0.24	12580
H568288	208 273	0.15	0.008	0.10	12780
H568289	208 273	0.20	0.010	0.21	12850
H568290	208 273	0.09	0.007	0.21	12300
H568291	208 273	0.11	0.005	0.14	12080
H568292	208 273	0.05	0.005	0.07	12700
H568293	208 273	0.09	0.010	0.14	12200
H568294	208 276	0.08	0.006	0.10	10580
H568295	208 276	0.13	0.004	0.07	10320
H568296	208 276	0.32	0.029	0.31	10200
H568297	208 273	0.27	0.008	0.31	11900
H568298	208 273	0.34	0.011	0.45	12320
H568299	208 273	0.35	0.020	0.34	12900
H568300	208 273	0.38	0.012	0.48	12580
H568301	208 273	0.26	0.008	0.27	12100
H568302	208 276	0.60	0.050	0.48	11680
H568303	208 273	0.23	0.030	0.24	11860
H568304	208 273	0.20	0.014	0.21	12540
H568305	208 273	0.24	0.042	0.51	13060
H568306	208 273	0.33	0.028	0.99	12660
H568307	208 276	0.30	0.024	0.51	11380
H568308	208 273	0.23	0.026	0.31	12160
H568309	208 273	0.27	0.055	0.34	13740
H568310	208 273	0.39	0.021	0.82	14120
H568311	208 273	1.39	0.024	5.14	12460
H568312	208 273	0.25	0.013	0.31	13500
H568313	208 273	0.29	0.022	0.51	12640
H568314	208 273	0.53	0.050	1.37	13060
H568315	208 273	0.47	0.052	0.79	13100
H568316	208 273	0.49	0.059	0.69	14120
H568317	208 273	0.28	0.019	0.34	14920
H568318	208 273	0.24	0.025	0.31	12180
H568319	208 273	0.24	0.012	0.31	13320
H568320	208 273	0.10	0.003	0.38	12380
H568321	208 274	0.32	0.026	0.34	7040

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Certificate Date: 01-JUN-93
Invoice No. : I9314513
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CERTIFICATE OF ANALYSIS A9314513

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H568322	208	273	0.25	0.023	0.45	13300
H568323	208	273	1.58	0.013	0.99	12920
H568324	208	276	1.90	0.008	2.61	11540
H568325	208	273	0.12	0.007	0.21	12080
H568326	208	273	0.25	0.018	0.41	12880
H568327	208	273	0.26	0.010	0.41	14900
H568328	208	273	0.21	0.011	0.31	11920
H568329	208	276	0.16	0.039	0.21	11520
H568330	208	273	0.14	0.006	0.27	12660
H568331	208	273	0.20	0.005	0.31	12900
H568332	208	273	0.33	0.015	0.31	12840
H568333	208	273	0.42	0.042	0.65	12040
H568334	208	273	0.54	0.013	0.21	13080
H568335	208	273	0.72	0.010	0.55	12920
H568336	208	273	0.29	0.034	0.34	12800
H568337	208	273	0.25	0.026	0.24	12420
H568338	208	273	0.27	0.022	0.41	12460
H568339	208	276	0.27	0.004	0.38	11620
H568340	208	273	0.32	0.019	0.41	13280
H568341	208	273	0.30	0.011	0.24	12980
H568342	208	273	0.50	0.010	0.72	12940
H568343	208	273	0.27	0.097	0.31	11840
H568344	208	273	0.27	0.040	0.41	12880
H568345	208	273	0.23	0.019	0.24	12020
H568346	208	273	0.36	0.027	0.38	12000
H568347	208	276	0.32	0.033	0.41	11280
H568348	208	276	0.41	0.011	0.48	11800
H568349	208	273	0.25	0.027	0.31	12840
H568350	208	273	0.25	0.010	0.24	13180
H568351	208	273	0.30	0.019	0.31	12060
H568352	208	273	0.21	0.040	0.27	12340
H568353	208	273	0.21	0.009	0.31	13560
H568354	208	273	0.31	0.023	0.41	12340
H568355	208	273	0.22	0.017	0.17	12740
H568356	208	276	0.30	0.023	0.41	11600
H568357	208	273	0.34	0.044	0.45	12140
H568358	208	273	0.27	0.033	0.31	12780
H568359	208	273	0.29	0.023	0.34	12400
H568360	208	273	0.40	0.021	0.58	13640
H568361	208	273	0.16	0.043	0.14	12580

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Project : CASINO 154
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :5
Certificate Date: 01-JUN-93
Invoice No. : I9314513
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314513

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H568362	208 273	0.17	0.034	0.21	12240
H568363	208 276	0.22	0.026	0.24	11420
H568364	208 273	0.20	0.014	0.27	12240
H568365	208 273	0.17	0.022	0.27	13000
H568366	208 273	0.19	0.018	0.27	12640
H568367	208 273	0.24	0.025	0.27	13220
H568368	208 273	0.30	0.047	0.34	12940
H568369	208 276	0.28	0.031	0.38	11640
H568370	208 273	0.34	0.018	0.41	12750
H568371	208 273	0.25	0.014	0.31	12060
H568372	208 273	0.21	0.020	0.24	11820
H568373	208 273	0.27	0.065	0.38	13760
H568374	208 273	0.19	0.070	0.24	13680
H568375	208 273	0.25	0.050	0.34	12980
H568376	208 273	0.19	0.021	0.27	12280
H568377	208 273	0.22	0.017	0.14	13160
H568378	208 273	0.26	0.022	0.21	13860
H568379	208 273	0.23	0.018	0.21	12780
H568380	208 273	0.18	0.018	0.17	11900
H568381	208 273	0.28	0.018	0.21	13340
H568382	208 273	0.30	0.023	0.21	12760
H568383	208 273	0.35	0.067	0.27	12660
H568384	208 273	0.33	0.169	0.24	13080
H568385	208 273	0.24	0.026	0.34	12460
H568386	208 273	0.28	0.020	0.86	13360
H568387	208 273	0.42	0.011	0.38	12640
H568388	208 273	0.27	0.024	0.21	12380
H568389	208 273	0.28	0.051	0.14	12820
H568390	208 276	0.30	0.020	0.14	11520
H568391	208 273	0.26	0.039	0.21	12080
H568392	208 273	0.19	0.018	0.21	12200
H568393	208 273	0.18	0.053	0.14	12180
H568394	208 273	0.30	0.044	0.14	12700
H568395	208 273	0.28	0.036	0.21	12960
H568396	208 273	0.33	0.034	0.27	12900
H568397	208 273	0.23	0.046	0.24	12820
H568398	208 273	0.22	0.029	0.34	14400
H568399	208 273	0.15	0.013	0.31	11980
H568400	208 273	0.21	0.017	0.24	12220
H568401	208 273	0.18	0.010	0.24	13360

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Project : CASINO 154
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 01-JUN-93
Invoice No. : I9314513
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314513

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568402	208	273	0.28	0.019	0.31	12500						
H568403	208	273	0.27	0.019	0.69	13560						
H568404	208	273	0.35	0.023	0.31	13340						
H568405	208	273	0.16	0.013	0.17	13460						
H568406	208	273	0.17	0.018	0.10	13700						
H568407	208	273	0.22	0.029	0.21	13070						
H568408	208	273	0.19	0.021	0.17	13260						
H568409	208	273	0.21	0.022	0.31	13880						
H568410	208	273	0.18	0.029	0.21	12440						
H568411	208	273	0.32	0.036	0.21	12940						
H568412	208	273	0.18	0.026	0.14	13140						
H568413	208	273	0.28	0.048	0.21	13180						
H568414	208	273	0.25	0.023	0.31	11840						
H568415	208	273	0.29	0.013	0.21	12200						
H568416	208	273	0.30	0.014	0.34	12500						
H568417	208	276	0.53	0.046	0.51	11760						
H568418	208	276	0.50	0.024	0.45	11300						
H568419	208	273	0.33	0.017	0.31	12040						
H568420	208	276	0.37	0.020	0.31	11340						
H568421	208	273	0.27	0.013	0.24	11880						
H568422	208	276	0.24	0.035	0.31	10800						
H568423	208	273	0.19	0.013	0.21	12420						
H568424	208	273	0.15	0.029	0.10	13560						
H568425	208	273	0.15	0.033	0.21	12720						
H568426	208	273	0.18	0.025	0.07	12740						
H568427	208	273	0.18	0.052	0.10	12430						
H568428	208	273	0.21	0.010	0.17	12460						
H568429	208	273	0.35	0.037	0.34	12510						
H568430	208	273	0.25	0.031	0.21	12240						
H568431	208	276	0.32	0.049	0.27	11540						
H568432	208	273	0.46	0.043	0.31	11820						
H568433	208	273	0.31	0.020	0.24	11900						
H568434	208	276	0.22	0.015	0.24	11400						
H568435	208	276	0.25	0.022	0.21	11300						
H568436	208	273	0.27	0.013	0.21	11940						

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 154
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :5
Certificate Date: 04-JUN-93
Invoice No. :19314514
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314514

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B568242	299	229	1.4	0.33	14	260	< 0.5	< 2	0.01	< 0.5	< 1	66	13	1.47	< 10	< 1	0.45	20	0.01	15	16
B568243	299	229	2.4	0.37	26	870	< 0.5	< 2	0.01	< 0.5	< 1	106	18	0.92	< 10	< 1	0.29	10	0.02	15	22
B568244	299	229	3.2	0.36	6	660	< 0.5	< 2	0.01	< 0.5	< 1	72	15	0.48	< 10	< 1	0.29	< 10	0.02	15	17
B568245	299	229	1.8	0.35	14	390	< 0.5	< 2	0.01	< 0.5	< 1	90	11	1.10	< 10	< 1	0.40	< 10	0.02	15	27
B568246	299	229	4.2	0.39	50	320	< 0.5	10	< 0.01	< 0.5	< 1	76	13	1.79	< 10	< 1	0.52	10	0.02	15	35
B568247	299	229	1.4	0.53	34	310	< 0.5	8	0.01	< 0.5	< 1	116	20	1.86	< 10	< 1	0.53	10	0.03	20	53
B568248	299	229	1.2	0.43	22	510	< 0.5	< 2	< 0.01	< 0.5	< 1	73	12	1.02	< 10	< 1	0.38	< 10	0.02	15	26
B568249	299	229	0.8	0.49	60	580	< 0.5	4	0.01	< 0.5	< 1	102	18	1.12	< 10	< 1	0.41	< 10	0.02	20	38
B568250	299	229	0.8	0.41	172	330	< 0.5	6	0.19	< 0.5	< 1	69	17	1.98	< 10	< 1	0.51	10	0.02	20	47
B568251	299	229	0.8	0.37	42	320	< 0.5	2	0.01	< 0.5	< 1	90	16	1.84	< 10	< 1	0.46	< 10	0.02	25	53
B568252	299	229	7.2	0.34	34	270	< 0.5	10	0.01	< 0.5	< 1	74	25	1.67	< 10	< 1	0.47	< 10	0.02	20	44
B568253	299	229	10.4	0.49	18	230	< 0.5	8	0.01	< 0.5	< 1	98	14	1.16	< 10	< 1	0.50	< 10	0.02	20	23
B568254	299	229	8.4	0.42	86	210	< 0.5	26	0.01	< 0.5	< 1	67	28	2.85	< 10	< 1	0.66	10	0.02	20	180
B568255	299	229	3.6	0.59	22	180	< 0.5	12	0.01	< 0.5	< 1	111	26	1.57	< 10	< 1	0.59	< 10	0.04	30	39
B568256	299	229	5.2	0.50	30	170	< 0.5	18	< 0.01	< 0.5	< 1	88	35	1.94	< 10	< 1	0.61	< 10	0.03	25	61
B568257	299	229	2.6	0.50	22	240	< 0.5	6	< 0.01	< 0.5	< 1	115	29	1.68	< 10	< 1	0.55	< 10	0.03	25	51
B568258	299	229	2.6	0.40	6	260	< 0.5	4	< 0.01	< 0.5	< 1	71	24	1.07	< 10	< 1	0.44	< 10	0.02	20	45
B568259	299	229	2.4	0.44	16	180	< 0.5	4	< 0.01	< 0.5	< 1	94	22	1.60	< 10	< 1	0.51	< 10	0.02	20	70
B568260	299	229	4.8	0.48	44	220	< 0.5	14	0.01	< 0.5	< 1	82	32	2.52	< 10	< 1	0.75	< 10	0.02	20	42
B568261	299	229	74.8	0.51	90	120	< 0.5	38	< 0.01	< 0.5	< 1	65	21	4.77	< 10	< 1	1.15	< 10	0.02	20	66
B568262	299	229	12.2	0.48	46	220	< 0.5	8	< 0.01	< 0.5	< 1	77	19	2.89	< 10	< 1	0.83	< 10	0.02	15	44
B568263	299	229	3.8	0.50	40	260	< 0.5	14	< 0.01	< 0.5	< 1	102	18	2.70	< 10	< 1	0.76	< 10	0.02	20	59
B568264	299	229	6.8	0.44	40	220	< 0.5	8	0.17	< 0.5	< 1	80	18	2.75	< 10	< 1	0.80	< 10	0.02	20	59
B568265	299	229	9.2	0.42	86	390	< 0.5	26	< 0.01	< 0.5	< 1	107	21	1.64	< 10	< 1	0.50	< 10	0.02	15	63
B568266	299	229	9.2	0.49	16	830	< 0.5	16	0.01	< 0.5	< 1	88	18	0.69	< 10	< 1	0.37	< 10	0.02	15	49
B568267	299	229	14.4	0.56	24	680	< 0.5	28	0.01	< 0.5	< 1	113	18	0.70	< 10	< 1	0.41	< 10	0.03	20	18
B568268	299	229	8.8	0.53	14	250	< 0.5	6	0.01	< 0.5	< 1	92	16	0.38	< 10	< 1	0.37	< 10	0.03	15	9
B568269	299	229	9.0	0.50	8	240	< 0.5	2	0.01	< 0.5	< 1	120	17	0.46	< 10	< 1	0.36	< 10	0.03	20	15
B568270	299	229	5.4	0.41	30	310	< 0.5	24	< 0.01	< 0.5	< 1	77	28	1.97	< 10	< 1	0.60	< 10	0.02	15	57
B568271	299	229	5.4	0.43	26	370	< 0.5	34	< 0.01	< 0.5	< 1	83	35	1.91	< 10	< 1	0.57	< 10	0.02	15	86
B568272	299	229	9.6	0.44	38	330	< 0.5	30	0.01	< 0.5	< 1	59	29	1.87	< 10	< 1	0.55	< 10	0.02	15	95
B568273	299	229	2.0	0.47	48	470	< 0.5	2	0.01	< 0.5	1	101	48	2.30	< 10	< 1	0.46	< 10	0.02	25	82
B568274	299	229	3.0	0.46	50	340	< 0.5	2	< 0.01	< 0.5	1	70	69	2.43	< 10	< 1	0.56	10	0.02	20	72
B568275	299	229	2.0	0.48	52	270	< 0.5	2	0.01	< 0.5	< 1	89	70	3.02	< 10	< 1	0.67	< 10	0.02	20	144
B568276	299	229	1.4	0.56	52	330	< 0.5	< 2	< 0.01	< 0.5	2	71	181	3.83	< 10	< 1	0.56	< 10	0.02	35	162
B568277	299	229	2.0	0.62	42	290	< 0.5	< 2	0.01	< 0.5	< 1	109	99	2.28	< 10	< 1	0.67	10	0.03	20	129
B568278	299	229	1.4	0.71	38	220	< 0.5	2	< 0.01	< 0.5	3	94	151	2.37	< 10	< 1	0.67	10	0.03	20	160
B568279	299	229	1.6	0.67	28	130	< 0.5	< 2	< 0.01	< 0.5	9	120	140	2.90	< 10	< 1	0.77	10	0.04	20	36
B568280	299	229	1.0	0.54	36	260	< 0.5	< 2	< 0.01	< 0.5	1	82	151	2.09	< 10	< 1	0.62	< 10	0.02	15	75
B568281	299	229	2.2	0.75	38	140	< 0.5	2	0.01	< 0.5	1	103	211	3.10	< 10	< 1	0.82	10	0.03	20	73

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568242	299	229	0.01	< 1	50	60	< 2	< 1	3	< 0.01	< 10	< 10	2	< 10	6
H568243	299	229	0.01	1	40	38	< 2	< 1	9	< 0.01	10	< 10	5	< 10	12
H568244	299	229	0.01	1	20	28	< 2	< 1	8	< 0.01	10	< 10	2	< 10	6
H568245	299	229	0.01	< 1	10	18	< 2	< 1	6	< 0.01	< 10	< 10	2	< 10	6
H568246	299	229	0.01	< 1	90	184	2	< 1	9	< 0.01	< 10	< 10	3	< 10	8
H568247	299	229	0.01	< 1	150	126	2	< 1	10	< 0.01	< 10	< 10	5	< 10	6
H568248	299	229	0.01	< 1	70	28	< 2	< 1	7	< 0.01	< 10	< 10	3	< 10	4
H568249	299	229	0.01	< 1	340	62	< 2	< 1	8	< 0.01	< 10	< 10	4	< 10	4
H568250	299	229	0.01	1	1330	94	2	1	11	< 0.01	< 10	< 10	4	< 10	6
H568251	299	229	0.01	< 1	260	56	2	< 1	10	< 0.01	10	< 10	4	< 10	8
H568252	299	229	0.01	1	140	68	2	< 1	6	< 0.01	< 10	< 10	3	< 10	6
H568253	299	229	0.01	1	70	64	2	< 1	5	< 0.01	< 10	< 10	3	< 10	10
H568254	299	229	0.01	1	230	226	8	< 1	6	< 0.01	< 10	< 10	9	< 10	14
H568255	299	229	0.01	1	130	154	2	< 1	10	< 0.01	< 10	< 10	6	< 10	16
H568256	299	229	0.01	1	130	122	2	< 1	4	< 0.01	< 10	< 10	6	< 10	8
H568257	299	229	0.01	1	110	62	2	< 1	10	< 0.01	< 10	< 10	6	< 10	8
H568258	299	229	0.01	< 1	60	36	< 2	< 1	11	< 0.01	< 10	< 10	3	< 10	6
H568259	299	229	0.01	1	40	24	< 2	< 1	8	< 0.01	< 10	< 10	4	10	6
H568260	299	229	0.01	1	80	50	< 2	< 1	8	< 0.01	< 10	< 10	5	< 10	8
H568261	299	229	0.01	1	40	144	14	< 1	7	0.01	< 10	< 10	4	10	6
H568262	299	229	0.01	< 1	30	100	2	< 1	5	< 0.01	< 10	< 10	5	< 10	6
H568263	299	229	0.01	< 1	30	72	< 2	< 1	11	< 0.01	< 10	< 10	7	10	4
H568264	299	229	0.01	< 1	20	66	< 2	< 1	4	< 0.01	< 10	< 10	6	< 10	6
H568265	299	229	0.01	< 1	30	144	4	< 1	9	< 0.01	< 10	< 10	4	< 10	4
H568266	299	229	0.01	1	40	116	2	< 1	9	< 0.01	< 10	< 10	3	< 10	6
H568267	299	229	0.01	< 1	60	136	4	< 1	17	< 0.01	< 10	< 10	5	< 10	4
H568268	299	229	< 0.01	< 1	30	66	8	< 1	5	< 0.01	10	< 10	3	< 10	6
H568269	299	229	< 0.01	1	20	86	14	< 1	3	< 0.01	< 10	< 10	3	< 10	6
H568270	299	229	0.01	1	90	152	< 2	< 1	10	< 0.01	< 10	< 10	3	< 10	6
H568271	299	229	0.01	< 1	110	74	< 2	< 1	10	< 0.01	< 10	< 10	4	< 10	4
H568272	299	229	0.01	1	90	116	6	< 1	10	< 0.01	< 10	< 10	4	< 10	6
H568273	299	229	0.01	2	160	58	< 2	< 1	11	< 0.01	< 10	< 10	8	< 10	12
H568274	299	229	0.01	1	220	38	< 2	< 1	12	< 0.01	< 10	< 10	7	< 10	12
H568275	299	229	0.01	1	240	50	2	1	13	< 0.01	< 10	< 10	8	< 10	8
H568276	299	229	0.01	2	260	16	< 2	1	12	< 0.01	< 10	< 10	16	< 10	24
H568277	299	229	0.02	1	260	68	2	1	14	< 0.01	< 10	< 10	7	< 10	8
H568278	299	229	0.02	2	330	74	< 2	1	15	< 0.01	< 10	< 10	10	< 10	10
H568279	299	229	0.02	2	270	92	< 2	1	14	< 0.01	< 10	< 10	10	< 10	18
H568280	299	229	0.02	1	260	26	< 2	1	14	< 0.01	< 10	< 10	9	< 10	10
H568281	299	229	0.02	1	480	144	< 2	2	20	< 0.01	< 10	< 10	11	< 10	10

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B568282	299	229	2.0	1.08	36	160	< 0.5	< 2	0.02	< 0.5	1	130	161	3.12	< 10	< 1	1.05	10	0.06	15	79
B568283	299	229	2.2	1.23	30	110	< 0.5	< 2	0.01	< 0.5	16	150	881	2.42	< 10	1	0.75	< 10	0.04	15	42
B568284	299	229	3.2	0.95	16	90	< 0.5	4	0.01	< 0.5	12	185	171	3.25	< 10	< 1	0.94	< 10	0.05	15	31
B568285	299	229	2.0	0.95	38	90	< 0.5	< 2	0.01	< 0.5	15	108	350	3.20	< 10	< 1	0.82	< 10	0.04	10	51
B568286	299	229	1.2	1.22	48	70	< 0.5	2	0.01	< 0.5	27	130	1060	2.85	< 10	< 1	0.70	< 10	0.04	15	53
B568287	299	229	0.8	0.96	26	70	< 0.5	4	0.01	< 0.5	29	99	1450	2.28	< 10	< 1	0.49	10	0.04	10	53
B568288	299	229	1.0	0.96	22	70	< 0.5	< 2	0.01	< 0.5	30	105	1515	2.22	< 10	< 1	0.48	10	0.06	10	57
B568289	299	229	3.4	0.77	28	20	< 0.5	10	0.02	< 0.5	33	91	2210	4.67	< 10	< 1	0.45	< 10	0.07	10	62
B568290	299	229	2.4	0.79	18	80	< 0.5	< 2	0.01	< 0.5	23	119	894	3.23	< 10	< 1	0.66	10	0.06	10	42
B568291	299	229	1.8	0.70	20	80	< 0.5	< 2	0.01	< 0.5	31	99	1110	2.85	< 10	< 1	0.47	< 10	0.06	10	26
B568292	299	229	2.8	0.95	30	150	< 0.5	12	0.02	< 0.5	18	121	510	2.26	< 10	< 1	0.57	< 10	0.07	10	29
B568293	299	229	2.4	1.06	32	130	< 0.5	4	0.02	< 0.5	16	85	923	1.89	< 10	< 1	0.51	10	0.07	10	66
B568294	299	229	1.6	0.95	26	70	< 0.5	< 2	0.01	< 0.5	20	88	809	2.42	< 10	< 1	0.45	10	0.07	10	34
B568295	299	229	1.6	0.89	28	60	< 0.5	4	0.01	< 0.5	21	69	1340	2.55	< 10	< 1	0.45	20	0.06	10	23
B568296	299	229	4.2	1.00	26	30	< 0.5	8	0.02	< 0.5	28	132	3340	3.42	< 10	< 1	0.46	< 10	0.09	20	173
B568297	299	229	3.2	0.78	52	60	< 0.5	6	0.01	< 0.5	33	88	2990	2.71	< 10	< 1	0.28	< 10	0.05	15	46
B568298	299	229	3.0	0.67	50	30	< 0.5	4	0.02	< 0.5	28	55	3670	3.39	< 10	< 1	0.24	< 10	0.04	15	67
B568299	299	229	2.2	0.78	22	30	< 0.5	8	0.03	< 0.5	22	72	3630	3.14	< 10	2	0.32	< 10	0.07	15	122
B568300	299	229	2.0	0.74	48	40	< 0.5	6	0.06	< 0.5	52	73	3960	4.51	< 10	1	0.31	10	0.12	100	70
B568301	299	229	1.6	1.23	16	70	< 0.5	4	0.06	< 0.5	30	112	2830	2.23	< 10	< 1	0.50	20	0.10	15	51
B568302	299	229	5.0	0.86	2	40	< 0.5	18	0.03	< 0.5	16	105	6240	2.92	< 10	< 1	0.34	< 10	0.06	15	301
B568303	299	229	1.4	1.08	34	70	< 0.5	2	0.05	< 0.5	12	149	2440	3.06	< 10	< 1	0.43	10	0.09	35	184
B568304	299	229	0.8	0.81	< 2	60	< 0.5	2	0.11	< 0.5	18	95	1950	2.98	< 10	< 1	0.38	< 10	0.31	165	81
B568305	299	229	1.2	0.87	38	40	< 0.5	12	0.14	< 0.5	20	123	2440	4.06	< 10	< 1	0.41	10	0.29	150	238
B568306	299	229	2.0	0.98	44	60	< 0.5	12	0.11	< 0.5	28	91	3300	3.77	< 10	< 1	0.44	20	0.16	85	172
B568307	299	229	1.8	0.90	22	30	< 0.5	< 2	0.09	< 0.5	23	127	3070	3.90	< 10	< 1	0.41	10	0.22	170	141
B568308	299	229	1.2	0.74	8	80	< 0.5	< 2	0.08	< 0.5	22	96	2280	3.07	< 10	< 1	0.35	10	0.13	130	146
B568309	299	229	1.8	0.74	8	40	< 0.5	2	0.09	< 0.5	27	131	2750	3.60	< 10	< 1	0.41	10	0.19	215	337
B568310	299	229	3.0	0.64	28	80	< 0.5	24	0.10	< 0.5	29	92	4120	4.12	< 10	< 1	0.36	10	0.25	240	129
B568311	299	229	8.8	0.60	18	40	< 0.5	10	0.11	< 0.5	27	117	>10000	5.90	< 10	< 1	0.34	< 10	0.20	270	134
B568312	299	229	2.0	0.51	< 2	60	< 0.5	< 2	0.11	< 0.5	19	90	2410	4.37	< 10	< 1	0.30	< 10	0.25	180	80
B568313	299	229	1.2	0.51	10	160	< 0.5	8	0.11	< 0.5	17	130	2930	4.98	< 10	< 1	0.27	10	0.26	145	123
B568314	299	229	3.2	0.50	92	60	< 0.5	24	0.12	19.5	19	88	5400	4.48	< 10	< 1	0.27	10	0.16	255	296
B568315	299	229	3.2	0.54	30	120	< 0.5	14	0.17	< 0.5	29	134	4720	5.93	< 10	< 1	0.30	10	0.18	280	306
B568316	299	229	4.0	0.55	30	50	< 0.5	16	0.11	< 0.5	23	88	4970	6.89	< 10	< 1	0.31	< 10	0.18	205	343
B568317	299	229	1.6	0.73	10	60	< 0.5	8	0.17	< 0.5	38	77	2830	7.54	< 10	< 1	0.43	10	0.48	285	107
B568318	299	229	1.6	0.98	20	50	< 0.5	< 2	0.22	< 0.5	63	107	2410	5.06	< 10	< 1	0.55	10	0.56	275	146
B568319	299	229	1.8	1.20	8	70	< 0.5	6	0.20	< 0.5	31	75	2450	5.01	< 10	< 1	0.60	10	0.67	235	61
B568320	299	229	2.6	1.21	28	60	< 0.5	< 2	1.51	13.5	21	64	1070	3.14	< 10	1	0.48	30	0.88	445	18
B568321	299	229	4.8	1.34	8	100	< 0.5	12	0.20	< 0.5	28	82	3190	2.93	< 10	< 1	0.50	20	0.30	190	156

CERTIFICATION: Ian H Bucher

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H568282	299	229	0.03	< 1	400	58	2	1	24	< 0.01	< 10	< 10	11	< 10	6
H568283	299	229	0.02	2	310	22	2	2	17	< 0.01	< 10	< 10	16	< 10	18
H568284	299	229	0.02	3	130	22	< 2	1	18	< 0.01	< 10	< 10	11	< 10	14
H568285	299	229	0.02	< 1	230	18	< 2	1	19	< 0.01	< 10	< 10	12	< 10	12
H568286	299	229	0.02	3	290	18	< 2	1	13	< 0.01	< 10	< 10	15	< 10	10
H568287	299	229	0.01	4	220	30	< 2	1	11	< 0.01	< 10	< 10	12	< 10	12
H568288	299	229	0.01	5	220	24	< 2	1	12	< 0.01	< 10	< 10	11	< 10	26
H568289	299	229	0.01	6	160	26	< 2	1	18	< 0.01	< 10	< 10	8	< 10	42
H568290	299	229	0.01	6	270	46	< 2	1	28	< 0.01	< 10	< 10	10	< 10	16
H568291	299	229	0.01	4	170	10	< 2	1	13	< 0.01	< 10	< 10	10	< 10	6
H568292	299	229	0.01	3	390	48	< 2	2	30	< 0.01	< 10	< 10	15	< 10	8
H568293	299	229	0.01	2	340	18	< 2	3	15	< 0.01	< 10	< 10	13	< 10	14
H568294	299	229	0.01	3	250	30	< 2	2	29	< 0.01	< 10	< 10	10	< 10	20
H568295	299	229	0.01	3	240	26	< 2	2	15	< 0.01	< 10	< 10	9	< 10	40
H568296	299	229	0.01	5	130	38	2	1	14	< 0.01	< 10	< 10	10	< 10	54
H568297	299	229	< 0.01	4	160	16	< 2	1	8	< 0.01	< 10	< 10	13	< 10	58
H568298	299	229	< 0.01	6	220	20	< 2	1	12	< 0.01	< 10	< 10	9	< 10	32
H568299	299	229	< 0.01	3	250	6	< 2	1	8	< 0.01	< 10	< 10	8	< 10	18
H568300	299	229	< 0.01	6	320	10	< 2	1	19	< 0.01	< 10	< 10	13	< 10	32
H568301	299	229	0.01	7	520	10	< 2	1	56	< 0.01	< 10	< 10	10	< 10	26
H568302	299	229	0.01	5	240	18	2	1	69	< 0.01	< 10	< 10	10	< 10	28
H568303	299	229	0.01	3	320	6	< 2	2	17	< 0.01	< 10	< 10	16	< 10	22
H568304	299	229	0.01	4	340	6	2	2	12	< 0.01	< 10	< 10	25	< 10	40
H568305	299	229	0.01	3	490	8	< 2	2	16	< 0.01	< 10	< 10	23	< 10	42
H568306	299	229	0.01	4	400	< 2	2	1	9	< 0.01	< 10	< 10	17	< 10	30
H568307	299	229	0.01	6	310	12	< 2	1	9	< 0.01	< 10	< 10	17	< 10	38
H568308	299	229	0.01	4	290	8	2	2	9	< 0.01	< 10	< 10	14	< 10	40
H568309	299	229	0.01	4	290	6	6	2	9	< 0.01	< 10	< 10	17	< 10	54
H568310	299	229	0.01	5	290	22	2	1	6	< 0.01	< 10	< 10	16	< 10	54
H568311	299	229	< 0.01	6	260	26	< 2	1	7	< 0.01	< 10	< 10	16	< 10	72
H568312	299	229	0.01	4	210	6	< 2	1	12	< 0.01	< 10	< 10	21	< 10	46
H568313	299	229	0.01	4	220	2	< 2	1	11	< 0.01	< 10	< 10	23	< 10	38
H568314	299	229	0.01	4	250	70	< 2	1	6	< 0.01	< 10	< 10	17	< 10	1120
H568315	299	229	0.01	3	380	8	2	1	10	< 0.01	< 10	< 10	20	< 10	44
H568316	299	229	0.01	6	200	6	2	1	8	< 0.01	< 10	< 10	26	< 10	38
H568317	299	229	0.01	5	410	6	< 2	3	11	0.01	< 10	< 10	44	< 10	60
H568318	299	229	0.01	4	390	4	< 2	4	15	0.01	< 10	< 10	42	< 10	56
H568319	299	229	0.02	4	310	6	< 2	5	14	0.03	< 10	< 10	54	< 10	54
H568320	299	229	0.02	7	890	16	< 2	3	36	< 0.01	< 10	< 10	30	10	1410
H568321	299	229	0.01	6	440	14	4	3	12	< 0.01	< 10	10	31	< 10	52

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568322	299	229	5.0	0.87	82	20	< 0.5	24	0.13	0.5	24	121	2530	6.63	< 10	< 1	0.45	10	0.15	315	138
H568323	299	229	21.8	0.92	188	20	< 0.5	194	0.15	3.0	23	76	>10000	7.13	< 10	< 1	0.43	< 10	0.11	260	79
H568324	299	229	25.4	1.08	98	30	< 0.5	356	0.30	2.5	64	86	>10000	6.97	< 10	1	0.41	< 10	0.43	345	44
H568325	299	229	1.0	0.93	8	130	< 0.5	< 2	0.29	< 0.5	60	76	1230	3.59	< 10	< 1	0.33	20	0.37	475	43
H568326	299	229	4.4	0.83	78	60	< 0.5	20	0.36	< 0.5	38	99	2440	5.01	< 10	< 1	0.36	20	0.20	525	110
H568327	299	229	1.4	1.07	4	90	< 0.5	6	0.53	< 0.5	32	94	2680	3.29	< 10	< 1	0.40	20	0.38	370	60
H568328	299	229	1.4	1.63	10	140	< 0.5	4	0.67	< 0.5	27	108	1915	2.75	< 10	< 1	0.62	20	0.73	335	63
H568329	299	229	1.2	0.89	8	70	< 0.5	< 2	0.58	< 0.5	23	97	1610	2.25	< 10	1	0.33	20	0.28	400	254
H568330	299	229	1.2	1.13	6	170	< 0.5	< 2	0.76	< 0.5	25	106	1280	2.62	< 10	< 1	0.51	30	0.71	265	40
H568331	299	229	1.6	1.24	4	140	< 0.5	< 2	0.70	< 0.5	46	109	1850	2.92	< 10	< 1	0.65	20	0.75	335	28
H568332	299	229	3.0	1.30	16	110	< 0.5	34	0.42	< 0.5	32	127	3230	3.49	< 10	< 1	0.60	30	0.48	495	91
H568333	299	229	2.2	0.99	2	130	< 0.5	6	0.27	< 0.5	28	104	4010	2.89	< 10	< 1	0.45	30	0.26	390	239
H568334	299	229	4.0	0.95	2	50	< 0.5	66	0.43	0.5	39	109	5340	4.33	< 10	< 1	0.52	20	0.32	465	86
H568335	299	229	6.4	0.83	12	30	< 0.5	162	0.43	1.0	40	85	7270	4.72	< 10	< 1	0.43	10	0.24	320	69
H568336	299	229	3.4	0.78	24	70	< 0.5	8	0.64	0.5	18	88	2950	3.56	< 10	< 1	0.44	20	0.36	815	194
H568337	299	229	2.4	0.92	146	130	< 0.5	< 2	0.41	2.0	27	117	2360	1.71	< 10	< 1	0.41	20	0.19	320	154
H568338	299	229	1.6	0.91	< 2	80	< 0.5	4	0.25	< 0.5	36	64	2770	2.38	< 10	< 1	0.45	20	0.27	255	128
H568339	299	229	1.6	1.36	< 2	180	< 0.5	2	0.34	< 0.5	29	125	2730	2.27	< 10	< 1	0.51	30	0.31	390	34
H568340	299	229	2.2	1.05	8	140	< 0.5	6	0.74	0.5	30	116	3140	2.26	< 10	< 1	0.52	20	0.30	330	122
H568341	299	229	3.8	1.07	38	40	< 0.5	10	0.86	3.5	38	98	3040	4.31	< 10	< 1	0.58	10	0.39	395	61
H568342	299	229	7.0	1.30	730	40	< 0.5	90	0.32	3.5	44	108	5000	3.96	< 10	2	0.56	20	0.26	450	60
H568343	299	229	1.6	1.36	12	220	< 0.5	< 2	0.42	< 0.5	20	99	2760	1.97	< 10	< 1	0.54	20	0.43	250	613
H568344	299	229	1.6	1.61	6	200	< 0.5	2	0.91	< 0.5	24	107	2740	2.38	< 10	< 1	0.69	20	0.79	175	213
H568345	299	229	1.4	1.38	6	100	< 0.5	6	0.67	< 0.5	25	116	2230	2.39	< 10	< 1	0.46	20	0.48	300	113
H568346	299	229	2.4	1.32	6	100	< 0.5	10	0.19	< 0.5	38	84	3630	3.16	< 10	< 1	0.53	20	0.32	245	166
H568347	299	229	1.8	1.80	8	100	< 0.5	6	0.20	< 0.5	42	124	3080	2.78	< 10	< 1	0.72	10	0.54	60	200
H568348	299	229	2.4	2.07	8	190	< 0.5	2	0.37	< 0.5	31	101	4000	3.05	< 10	< 1	0.99	30	0.94	165	67
H568349	299	229	1.8	1.67	< 2	230	< 0.5	6	0.39	< 0.5	30	113	2450	3.67	10	< 1	0.97	40	1.00	150	165
H568350	299	229	2.0	1.75	6	80	< 0.5	2	0.57	< 0.5	30	105	2430	3.64	< 10	< 1	0.76	20	0.75	165	64
H568351	299	229	2.2	1.38	< 2	110	< 0.5	< 2	0.76	< 0.5	27	106	2930	2.66	< 10	< 1	0.61	20	0.58	160	120
H568352	299	229	1.8	1.15	2	100	< 0.5	< 2	0.92	< 0.5	26	90	2100	2.35	< 10	< 1	0.45	20	0.38	275	226
H568353	299	229	1.4	1.15	2	100	< 0.5	2	0.45	< 0.5	31	105	2030	2.86	< 10	< 1	0.55	10	0.38	245	52
H568354	299	229	2.6	1.28	6	120	< 0.5	2	0.58	< 0.5	37	99	3090	3.29	< 10	< 1	0.61	30	0.58	175	135
H568355	299	229	1.4	1.45	< 2	110	< 0.5	4	0.74	< 0.5	31	91	2150	3.03	< 10	< 1	0.91	20	0.96	160	104
H568356	299	229	1.8	1.18	6	140	< 0.5	2	0.57	< 0.5	27	115	3050	2.56	< 10	< 1	0.75	20	0.80	125	141
H568357	299	229	1.8	0.86	14	50	< 0.5	8	1.82	< 0.5	25	139	3350	4.10	< 10	< 1	0.54	40	0.95	200	234
H568358	299	229	1.4	1.27	< 2	110	< 0.5	2	0.59	< 0.5	29	107	2670	2.64	< 10	< 1	0.70	20	0.75	150	197
H568359	299	229	2.6	0.98	2	90	< 0.5	2	0.62	< 0.5	27	152	2990	3.16	< 10	< 1	0.59	20	0.50	150	151
H568360	299	229	2.2	0.90	< 2	60	< 0.5	10	0.52	< 0.5	40	151	4060	3.90	< 10	1	0.54	20	0.41	120	140
H568361	299	229	0.8	1.26	< 2	120	< 0.5	4	0.70	< 0.5	22	146	1575	2.36	< 10	< 1	0.74	30	0.70	100	252

CERTIFICATION: Gert Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568322	299	229	0.01	3	360	58	4	3	11	< 0.01	< 10	< 10	17	< 10	82
H568323	299	229	< 0.01	3	410	354	12	3	25	< 0.01	< 10	< 10	18	< 10	200
H568324	299	229	0.01	4	320	310	38	6	8	0.01	< 10	< 10	41	< 10	166
H568325	299	229	0.01	6	540	10	2	7	10	< 0.01	< 10	< 10	43	< 10	62
H568326	299	229	0.01	4	510	40	6	3	8	< 0.01	< 10	< 10	20	< 10	102
H568327	299	229	0.01	4	530	8	6	6	10	< 0.01	< 10	< 10	39	< 10	64
H568328	299	229	0.02	4	530	6	6	8	16	0.03	< 10	10	53	< 10	62
H568329	299	229	0.01	2	500	8	2	5	11	< 0.01	< 10	< 10	29	< 10	56
H568330	299	229	0.03	3	420	6	< 2	6	26	0.02	< 10	< 10	46	< 10	44
H568331	299	229	0.03	3	440	2	2	7	25	0.03	< 10	< 10	45	< 10	54
H568332	299	229	0.01	3	610	22	< 2	6	14	0.01	< 10	< 10	39	< 10	66
H568333	299	229	0.01	4	450	8	2	4	11	< 0.01	< 10	< 10	30	< 10	60
H568334	299	229	0.01	4	410	30	4	4	14	< 0.01	< 10	10	24	< 10	74
H568335	299	229	0.01	4	410	54	10	4	14	< 0.01	< 10	< 10	22	< 10	162
H568336	299	229	0.01	3	340	24	8	4	21	< 0.01	< 10	< 10	27	< 10	78
H568337	299	229	0.01	4	460	12	34	2	15	< 0.01	< 10	< 10	15	< 10	104
H568338	299	229	0.01	5	360	8	< 2	6	15	< 0.01	< 10	< 10	33	< 10	52
H568339	299	229	0.01	4	430	6	< 2	7	10	< 0.01	< 10	< 10	40	< 10	50
H568340	299	229	0.01	5	630	32	4	4	13	< 0.01	< 10	10	20	< 10	88
H568341	299	229	0.01	6	450	144	6	3	12	< 0.01	< 10	< 10	17	< 10	392
H568342	299	229	0.01	5	390	144	114	5	12	< 0.01	< 10	< 10	30	< 10	160
H568343	299	229	0.01	2	340	10	6	7	15	0.01	< 10	10	47	< 10	40
H568344	299	229	0.02	3	370	6	< 2	8	25	0.03	< 10	< 10	52	< 10	30
H568345	299	229	0.01	3	400	10	< 2	8	14	0.01	< 10	< 10	46	< 10	38
H568346	299	229	0.01	4	360	10	< 2	8	11	0.01	< 10	< 10	50	< 10	32
H568347	299	229	0.01	5	410	6	2	9	12	0.03	< 10	< 10	59	< 10	42
H568348	299	229	0.03	6	320	4	< 2	11	21	0.07	< 10	10	70	< 10	46
H568349	299	229	0.04	3	370	4	< 2	9	29	0.07	< 10	< 10	78	< 10	36
H568350	299	229	0.02	5	350	6	4	7	23	0.03	< 10	< 10	52	< 10	42
H568351	299	229	0.01	4	370	4	< 2	7	19	0.02	< 10	< 10	43	< 10	30
H568352	299	229	0.01	5	540	2	2	5	12	< 0.01	< 10	< 10	31	< 10	40
H568353	299	229	0.01	6	410	12	< 2	6	15	< 0.01	< 10	< 10	40	< 10	28
H568354	299	229	0.02	4	320	4	< 2	7	22	0.02	< 10	< 10	45	< 10	34
H568355	299	229	0.02	5	390	8	< 2	9	25	0.07	< 10	< 10	62	< 10	32
H568356	299	229	0.02	3	250	4	< 2	7	24	0.06	< 10	< 10	57	< 10	28
H568357	299	229	0.02	6	510	10	< 2	4	21	0.01	< 10	< 10	34	< 10	30
H568358	299	229	0.02	4	320	4	< 2	7	21	0.03	< 10	< 10	52	< 10	32
H568359	299	229	0.02	5	340	4	< 2	4	17	0.02	< 10	< 10	37	< 10	30
H568360	299	229	0.02	9	290	6	< 2	3	16	0.01	< 10	< 10	41	< 10	24
H568361	299	229	0.02	3	430	8	< 2	7	24	0.04	< 10	< 10	50	< 10	24

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9314514

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568362	299	229	1.0	1.40	< 2	150	< 0.5	2	0.60	< 0.5	20	131	1705	2.90	< 10	< 1	0.72	40	0.84	130	199
H568363	299	229	1.0	1.66	2	230	< 0.5	< 2	0.51	< 0.5	21	110	2120	2.59	< 10	< 1	0.93	30	1.09	110	161
H568364	299	229	0.8	1.76	16	270	< 0.5	< 2	0.55	< 0.5	21	154	1985	2.56	10	< 1	0.92	50	1.07	105	85
H568365	299	229	1.0	1.79	6	220	< 0.5	8	0.61	< 0.5	25	136	1715	2.48	10	< 1	1.07	50	1.21	140	147
H568366	299	229	1.8	1.31	2	80	< 0.5	2	0.69	< 0.5	27	132	1805	3.55	< 10	< 1	0.72	30	0.82	210	105
H568367	299	229	1.2	1.59	2	200	< 0.5	< 2	1.10	< 0.5	32	122	2290	2.79	< 10	< 1	0.68	30	0.88	160	143
H568368	299	229	2.0	1.60	6	130	< 0.5	4	0.98	< 0.5	32	138	2920	2.84	< 10	< 1	0.80	30	0.87	135	294
H568369	299	229	2.0	2.12	6	150	< 0.5	< 2	0.61	< 0.5	46	113	2800	3.24	10	< 1	0.95	50	1.12	150	186
H568370	299	229	2.4	1.66	16	140	< 0.5	8	0.56	< 0.5	54	121	3380	3.52	10	< 1	0.77	40	0.79	140	106
H568371	299	229	1.6	1.56	16	50	< 0.5	< 2	0.52	< 0.5	39	137	2600	2.85	< 10	< 1	0.82	30	0.70	105	93
H568372	299	229	0.8	1.54	2	130	< 0.5	4	0.69	< 0.5	29	126	2020	2.53	< 10	< 1	0.74	30	0.67	90	121
H568373	299	229	1.6	1.29	6	40	< 0.5	2	0.51	< 0.5	39	148	2810	3.42	< 10	< 1	0.75	30	0.63	70	414
H568374	299	229	1.2	1.78	6	110	< 0.5	8	0.79	< 0.5	24	152	1890	2.65	< 10	< 1	1.04	30	1.12	115	424
H568375	299	229	1.2	1.22	6	190	< 0.5	4	0.54	< 0.5	17	109	2420	1.94	< 10	< 1	0.71	40	0.78	100	314
H568376	299	229	1.6	1.48	6	80	< 0.5	4	0.60	< 0.5	23	129	1920	2.62	10	< 1	0.86	30	0.91	140	138
H568377	299	229	2.4	1.26	10	50	< 0.5	4	0.62	< 0.5	27	138	2150	2.95	< 10	< 1	0.68	20	0.57	125	100
H568378	299	229	2.4	1.62	8	90	< 0.5	8	1.18	< 0.5	21	87	2650	4.08	< 10	< 1	0.78	10	0.73	290	125
H568379	299	229	2.8	1.82	10	30	< 0.5	12	1.16	< 0.5	22	92	2290	3.61	< 10	< 1	0.64	20	0.80	225	110
H568380	299	229	1.4	1.14	14	80	< 0.5	4	1.10	< 0.5	25	75	1815	2.87	< 10	< 1	0.27	10	0.40	245	110
H568381	299	229	3.6	0.67	14	70	< 0.5	40	1.30	< 0.5	30	133	2790	3.14	< 10	1	0.28	10	0.48	250	105
H568382	299	229	3.2	0.50	6	60	< 0.5	4	0.80	< 0.5	31	73	3280	3.01	< 10	< 1	0.23	10	0.33	215	147
H568383	299	229	1.8	0.54	12	130	< 0.5	< 2	0.63	< 0.5	29	118	3510	1.90	< 10	< 1	0.28	10	0.26	140	423
H568384	299	229	3.6	0.52	20	70	< 0.5	4	1.02	< 0.5	27	100	3350	2.31	< 10	< 1	0.30	10	0.39	310	978
H568385	299	229	1.2	0.87	8	70	< 0.5	4	0.64	< 0.5	30	130	2530	2.75	< 10	< 1	0.48	20	0.46	145	177
H568386	299	229	15.0	0.48	200	10	< 0.5	40	0.61	3.5	34	83	2760	5.23	< 10	< 1	0.32	10	0.35	275	113
H568387	299	229	3.8	0.51	2	50	< 0.5	4	0.60	< 0.5	29	118	4400	3.14	< 10	1	0.29	20	0.30	110	74
H568388	299	229	1.8	0.56	< 2	80	< 0.5	2	0.85	< 0.5	22	84	2730	1.88	< 10	< 1	0.33	20	0.41	130	146
H568389	299	229	3.6	0.69	< 2	110	< 0.5	4	0.50	1.5	29	117	3050	2.04	< 10	< 1	0.41	30	0.39	105	324
H568390	299	229	2.2	0.41	10	90	< 0.5	2	0.46	6.0	37	78	3270	2.47	< 10	< 1	0.23	< 10	0.21	90	143
H568391	299	229	0.8	0.56	8	60	< 0.5	2	0.35	< 0.5	33	107	2740	1.93	< 10	< 1	0.32	10	0.28	55	262
H568392	299	229	0.6	1.07	16	70	< 0.5	6	0.63	< 0.5	35	67	1860	2.17	< 10	< 1	0.71	10	0.85	90	113
H568393	299	229	2.0	0.60	6	100	< 0.5	6	0.70	< 0.5	21	87	1710	1.70	< 10	< 1	0.39	10	0.49	75	330
H568394	299	229	2.8	0.39	8	160	< 0.5	4	1.10	< 0.5	16	69	3040	1.46	< 10	< 1	0.25	10	0.55	80	278
H568395	299	229	1.6	0.46	2	110	< 0.5	6	0.76	< 0.5	25	100	2930	1.73	< 10	< 1	0.28	20	0.35	100	222
H568396	299	229	2.2	0.68	8	110	< 0.5	< 2	0.51	< 0.5	29	73	3300	2.03	< 10	< 1	0.44	10	0.45	65	214
H568397	299	229	2.2	0.55	< 2	70	< 0.5	8	0.67	< 0.5	39	64	2270	2.19	< 10	< 1	0.32	20	0.43	70	256
H568398	299	229	1.2	0.99	12	100	< 0.5	4	1.00	< 0.5	23	68	2140	1.74	< 10	< 1	0.55	20	0.75	80	179
H568399	299	229	1.2	1.24	12	60	< 0.5	4	1.19	< 0.5	22	85	1495	2.19	< 10	< 1	0.61	20	0.92	120	82
H568400	299	229	1.0	1.82	16	60	< 0.5	8	1.19	< 0.5	26	55	2010	2.60	10	< 1	0.69	20	1.12	105	97
H568401	299	229	1.2	1.65	8	70	< 0.5	2	1.27	< 0.5	25	84	1770	2.43	10	< 1	0.81	20	1.16	105	59

CERTIFICATION: Ivan Bridler

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H568362	299	229	0.03	6	410	6	< 2	7	30	0.05	< 10	< 10	62	< 10	28
H568363	299	229	0.03	4	450	8	< 2	10	28	0.08	< 10	< 10	71	< 10	34
H568364	299	229	0.04	5	370	6	< 2	9	32	0.07	< 10	< 10	65	< 10	30
H568365	299	229	0.05	5	420	4	< 2	12	32	0.09	< 10	< 10	83	< 10	40
H568366	299	229	0.03	4	390	6	2	7	27	0.04	< 10	< 10	50	< 10	40
H568367	299	229	0.02	4	410	2	< 2	9	45	0.04	< 10	< 10	58	< 10	36
H568368	299	229	0.02	4	320	6	< 2	7	26	0.03	< 10	< 10	58	< 10	24
H568369	299	229	0.02	5	410	4	< 2	11	40	0.07	< 10	< 10	84	< 10	38
H568370	299	229	0.02	7	330	< 2	2	7	33	0.03	< 10	< 10	57	< 10	30
H568371	299	229	0.02	4	360	8	2	6	25	0.03	< 10	< 10	46	< 10	28
H568372	299	229	0.01	6	490	12	< 2	7	16	0.03	< 10	< 10	53	< 10	22
H568373	299	229	0.02	7	330	4	< 2	6	22	0.03	< 10	< 10	53	< 10	24
H568374	299	229	0.02	4	570	4	4	9	25	0.08	< 10	< 10	72	< 10	28
H568375	299	229	0.01	7	280	6	< 2	7	27	0.05	< 10	< 10	53	< 10	26
H568376	299	229	0.02	4	360	4	2	9	86	0.07	< 10	< 10	64	< 10	36
H568377	299	229	0.01	6	310	4	2	7	18	0.02	< 10	< 10	41	< 10	32
H568378	299	229	0.01	9	550	20	< 2	7	18	0.01	< 10	< 10	38	< 10	40
H568379	299	229	0.01	12	660	18	4	5	26	0.02	< 10	< 10	39	< 10	46
H568380	299	229	< 0.01	13	640	14	< 2	5	18	< 0.01	< 10	< 10	26	< 10	48
H568381	299	229	0.01	5	440	24	6	6	16	< 0.01	< 10	< 10	31	< 10	32
H568382	299	229	0.01	7	300	14	2	4	13	< 0.01	< 10	< 10	22	< 10	28
H568383	299	229	0.01	5	390	6	2	2	13	< 0.01	< 10	< 10	15	< 10	20
H568384	299	229	0.01	3	220	16	10	2	13	< 0.01	< 10	< 10	15	< 10	32
H568385	299	229	0.01	6	240	2	4	3	14	0.01	< 10	< 10	25	< 10	30
H568386	299	229	0.01	9	220	264	48	2	12	< 0.01	< 10	< 10	17	< 10	130
H568387	299	229	0.01	8	200	4	2	3	13	< 0.01	< 10	< 10	23	< 10	30
H568388	299	229	0.01	7	270	4	< 2	4	12	0.01	< 10	< 10	26	< 10	26
H568389	299	229	0.01	6	270	8	4	3	13	0.01	< 10	< 10	27	< 10	212
H568390	299	229	0.01	7	240	6	< 2	2	11	< 0.01	< 10	< 10	15	< 10	762
H568391	299	229	0.01	3	260	4	2	2	15	0.01	< 10	< 10	18	< 10	26
H568392	299	229	0.01	5	430	2	< 2	6	21	0.06	< 10	< 10	50	< 10	26
H568393	299	229	0.01	3	360	4	4	4	14	0.01	< 10	< 10	27	< 10	60
H568394	299	229	0.01	3	170	6	4	3	13	< 0.01	< 10	< 10	21	< 10	24
H568395	299	229	0.01	6	170	6	2	3	10	< 0.01	< 10	< 10	21	< 10	18
H568396	299	229	0.01	7	170	4	2	3	10	0.01	< 10	< 10	25	< 10	14
H568397	299	229	0.01	4	290	4	4	4	11	0.01	< 10	< 10	24	< 10	14
H568398	299	229	0.01	6	400	< 2	2	4	49	0.02	< 10	< 10	30	< 10	16
H568399	299	229	0.01	9	510	2	< 2	5	89	0.03	< 10	< 10	38	< 10	20
H568400	299	229	0.01	11	570	< 2	< 2	5	58	0.03	< 10	< 10	42	< 10	32
H568401	299	229	0.01	11	590	< 2	< 2	5	140	0.05	< 10	< 10	45	< 10	22

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 154
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-JUN-93
Invoice No. : I9314514
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314514

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568402	299	229	1.6	1.14	16	120	< 0.5	2	1.18	< 0.5	27	88	2670	2.12	< 10	< 1	0.61	10	0.84	80	99
H568403	299	229	1.4	1.07	6	120	< 0.5	< 2	0.91	< 0.5	26	63	2610	2.21	< 10	< 1	0.66	10	0.77	65	104
H568404	299	229	2.2	0.80	2	40	< 0.5	18	0.58	< 0.5	29	96	3730	3.14	< 10	< 1	0.47	20	0.48	60	137
H568405	299	229	0.8	0.99	4	50	< 0.5	< 2	0.55	< 0.5	31	72	1630	2.84	< 10	< 1	0.61	20	0.72	115	67
H568406	299	229	1.4	0.46	4	40	< 0.5	2	0.66	< 0.5	29	67	1640	3.12	< 10	< 1	0.26	10	0.36	115	92
H568407	299	229	1.4	0.79	4	100	< 0.5	4	0.99	< 0.5	30	55	2140	2.17	< 10	< 1	0.44	10	0.69	105	161
H568408	299	229	1.0	0.76	6	40	< 0.5	4	0.71	< 0.5	24	83	1825	2.17	< 10	< 1	0.48	20	0.64	80	108
H568409	299	229	0.8	0.65	4	80	< 0.5	< 2	0.52	< 0.5	37	56	2050	2.29	< 10	< 1	0.42	10	0.47	60	132
H568410	299	229	0.8	0.40	14	60	< 0.5	6	0.91	< 0.5	20	86	1755	2.38	< 10	< 1	0.24	10	0.39	175	180
H568411	299	229	2.6	0.40	26	110	< 0.5	4	1.29	< 0.5	18	59	3140	1.86	< 10	1	0.19	< 10	0.47	270	190
H568412	299	229	1.2	0.56	< 2	170	< 0.5	< 2	0.63	< 0.5	18	50	1645	1.29	< 10	< 1	0.37	20	0.52	75	141
H568413	299	229	1.4	0.52	8	140	< 0.5	2	0.79	< 0.5	14	83	2680	1.45	< 10	< 1	0.35	20	0.54	65	262
H568414	299	229	1.0	0.89	12	120	< 0.5	< 2	0.63	< 0.5	24	59	2320	1.74	< 10	< 1	0.61	30	0.90	85	131
H568415	299	229	1.4	1.15	8	60	< 0.5	6	0.54	< 0.5	36	129	2790	2.29	< 10	< 1	0.78	30	0.87	90	81
H568416	299	229	1.4	1.05	12	50	< 0.5	6	0.54	< 0.5	37	107	3020	2.72	< 10	< 1	0.69	20	0.75	90	89
H568417	299	229	3.0	0.88	2	110	< 0.5	8	1.07	< 0.5	21	120	4910	2.01	< 10	< 1	0.52	30	0.75	170	244
H568418	299	229	3.6	0.70	12	40	< 0.5	10	0.89	< 0.5	33	115	4850	2.76	< 10	< 1	0.34	30	0.37	230	131
H568419	299	229	2.2	1.07	< 2	50	< 0.5	10	0.69	< 0.5	32	128	3280	2.48	< 10	1	0.63	40	0.64	125	101
H568420	299	229	2.2	0.81	10	60	< 0.5	2	0.75	< 0.5	27	113	3610	2.33	< 10	< 1	0.46	50	0.49	100	120
H568421	299	229	2.8	0.55	218	60	< 0.5	6	1.03	1.0	24	70	2440	2.39	< 10	< 1	0.25	20	0.39	285	75
H568422	299	229	2.4	1.00	20	40	< 0.5	10	1.34	1.0	33	60	2440	2.84	< 10	1	0.37	20	0.62	175	192
H568423	299	229	0.8	1.09	18	60	< 0.5	2	1.68	< 0.5	20	47	1745	2.31	< 10	< 1	0.43	20	1.02	130	76
H568424	299	229	0.8	0.78	20	150	< 0.5	< 2	0.90	< 0.5	19	99	1445	1.76	< 10	< 1	0.41	10	0.52	105	171
H568425	299	229	1.6	0.42	62	80	< 0.5	4	0.79	0.5	22	77	1525	1.94	< 10	< 1	0.23	20	0.31	195	200
H568426	299	229	1.6	0.67	16	80	< 0.5	8	0.75	< 0.5	20	105	1720	2.62	< 10	< 1	0.39	20	0.32	195	135
H568427	299	229	1.4	0.45	6	30	< 0.5	8	0.87	< 0.5	28	56	1670	3.28	< 10	1	0.30	10	0.44	120	262
H568428	299	229	1.2	1.09	< 2	110	< 0.5	4	0.53	< 0.5	21	113	2120	2.08	< 10	1	0.77	20	0.86	80	64
H568429	299	229	1.6	0.96	4	90	< 0.5	6	0.72	< 0.5	35	109	3380	2.19	< 10	< 1	0.61	20	0.65	75	210
H568430	299	229	1.4	0.75	8	60	< 0.5	4	0.65	< 0.5	25	113	2650	2.58	< 10	2	0.44	20	0.34	110	182
H568431	299	229	1.4	0.71	< 2	110	< 0.5	< 2	0.35	< 0.5	31	62	3250	2.01	< 10	1	0.50	10	0.59	60	291
H568432	299	229	3.0	0.66	28	60	< 0.5	14	0.40	< 0.5	33	60	4820	2.53	< 10	< 1	0.42	10	0.37	45	256
H568433	299	229	1.0	0.89	14	40	< 0.5	4	0.33	< 0.5	44	118	3150	2.82	< 10	< 1	0.57	20	0.52	50	125
H568434	299	229	0.6	1.28	4	100	< 0.5	6	0.45	< 0.5	40	104	2150	2.80	< 10	< 1	0.85	20	0.83	70	85
H568435	299	229	1.4	0.96	10	90	< 0.5	6	0.52	< 0.5	42	50	2610	2.83	< 10	< 1	0.54	20	0.69	75	132
H568436	299	229	1.2	1.25	4	150	< 0.5	2	0.70	< 0.5	30	92	2530	2.14	< 10	1	0.80	20	0.81	70	73

CERTIFICATION: Heinrich Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 154
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 5-B
Total Pages : 5
Certificate Date: 04-JUN-93
Invoice No. : I9314514
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314514

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568402	299	229	0.01	8	420	4	< 2	4	46	0.03	< 10	< 10	40	< 10	18
H568403	299	229	0.01	8	290	4	2	4	101	0.04	< 10	< 10	39	< 10	14
H568404	299	229	0.01	7	240	2	2	3	17	0.01	< 10	< 10	29	< 10	12
H568405	299	229	0.01	3	250	4	2	5	20	0.04	< 10	< 10	44	< 10	16
H568406	299	229	< 0.01	3	210	< 2	4	3	15	< 0.01	< 10	< 10	21	< 10	14
H568407	299	229	0.01	3	380	4	2	4	20	0.01	< 10	< 10	28	< 10	16
H568408	299	229	0.01	3	250	2	2	4	20	0.02	< 10	< 10	32	< 10	14
H568409	299	229	0.01	6	210	2	< 2	3	16	0.02	< 10	< 10	29	< 10	12
H568410	299	229	0.01	7	240	4	8	4	16	< 0.01	< 10	< 10	20	< 10	16
H568411	299	229	0.01	5	290	6	28	4	14	< 0.01	< 10	< 10	20	< 10	26
H568412	299	229	0.01	3	310	4	2	4	11	0.01	< 10	< 10	28	< 10	14
H568413	299	229	0.01	5	280	2	2	4	12	0.01	< 10	< 10	26	< 10	12
H568414	299	229	0.01	5	260	4	2	7	14	0.05	< 10	< 10	52	< 10	14
H568415	299	229	0.02	6	280	2	2	8	29	0.06	< 10	< 10	55	< 10	16
H568416	299	229	0.01	8	320	2	2	6	31	0.05	< 10	< 10	47	< 10	16
H568417	299	229	0.01	9	260	4	2	6	18	0.02	< 10	< 10	42	< 10	18
H568418	299	229	0.01	14	170	12	4	6	19	< 0.01	< 10	< 10	36	< 10	22
H568419	299	229	0.01	12	320	6	2	7	19	0.03	< 10	< 10	44	< 10	18
H568420	299	229	0.01	8	300	4	4	6	21	0.01	< 10	< 10	34	< 10	14
H568421	299	229	< 0.01	9	380	20	24	3	18	< 0.01	< 10	< 10	18	< 10	62
H568422	299	229	0.01	13	600	10	4	3	25	< 0.01	< 10	< 10	24	< 10	50
H568423	299	229	< 0.01	10	660	4	4	5	27	0.02	< 10	< 10	37	10	22
H568424	299	229	0.01	8	260	8	4	3	21	0.01	< 10	< 10	24	< 10	14
H568425	299	229	0.01	6	290	24	22	4	17	< 0.01	< 10	< 10	20	< 10	40
H568426	299	229	0.01	6	320	8	10	3	16	< 0.01	< 10	< 10	17	< 10	18
H568427	299	229	0.01	6	330	10	2	4	16	< 0.01	< 10	< 10	24	10	16
H568428	299	229	0.01	6	240	4	2	7	18	0.06	< 10	< 10	53	< 10	14
H568429	299	229	0.01	6	280	6	2	4	17	0.03	< 10	< 10	32	< 10	12
H568430	299	229	0.01	5	340	6	2	2	15	< 0.01	< 10	< 10	15	< 10	20
H568431	299	229	0.01	6	220	2	2	4	12	0.03	< 10	< 10	33	< 10	8
H568432	299	229	0.01	9	360	8	8	3	14	0.01	< 10	< 10	23	< 10	16
H568433	299	229	0.01	7	200	< 2	2	4	20	0.03	< 10	< 10	36	< 10	12
H568434	299	229	0.02	6	240	6	< 2	7	23	0.07	< 10	< 10	57	< 10	12
H568435	299	229	0.01	7	240	4	2	6	22	0.05	< 10	< 10	48	< 10	14
H568436	299	229	0.02	10	350	2	< 2	6	44	0.05	< 10	< 10	48	< 10	14

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-JUN-93
Invoice No. :I9314990
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314990

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572518	208 274	0.01	0.033	0.10	3400
H572519	208 276	0.01	0.061	0.14	10800
H572520	208 274	0.04	0.138	0.21	5100
H572521	208 276	0.05	0.095	0.17	10960
H572522	208 276	0.05	0.050	0.27	11680
H572523	208 274	0.06	0.040	0.21	6670
H572524	208 276	0.06	0.067	0.27	11530
H572525	208 276	0.07	0.061	0.24	10830
H572526	208 273	0.09	0.088	0.27	15840
H572527	208 276	0.21	0.060	0.27	11690
H572528	208 273	0.10	0.064	0.31	11950
H572529	208 273	0.08	0.062	0.31	14400
H572530	208 276	0.04	0.069	0.14	11300
H572531	208 273	0.27	0.085	0.31	12840
H572532	208 273	0.31	0.069	0.24	13100
H572533	208 273	0.18	0.100	0.21	12240
H572534	208 273	0.24	0.164	0.34	13450
H572535	208 273	0.06	0.100	0.24	14400
H572536	208 273	0.05	0.233	0.24	13480
H572537	208 273	0.08	0.089	0.38	12480
H572538	208 273	0.31	0.092	0.48	13620
H572539	208 273	0.22	0.348	0.55	13600
H572540	208 273	0.27	0.073	0.31	13550
H572541	208 273	0.11	0.073	0.21	12680
H572542	208 276	0.08	0.086	0.21	9880
H572543	208 276	0.06	0.226	0.27	11680
H572544	208 276	0.04	0.161	0.27	11720
H572545	208 276	0.25	0.081	0.21	10520
H572546	208 276	0.03	0.039	0.10	7840
H572547	208 276	0.03	0.061	0.14	8460
H572548	208 276	0.02	0.070	0.17	9020
H572549	208 276	0.31	0.052	0.21	8780
H572550	208 276	0.29	0.070	0.24	8340
H572551	208 276	0.32	0.067	0.48	10000
H572552	208 276	0.48	0.093	0.51	10960
H572553	208 276	0.40	0.092	0.24	11380
H572554	208 276	0.29	0.082	0.21	10900
H572555	208 273	0.34	0.076	0.24	12840
H572556	208 276	0.35	0.055	0.31	10840
H572557	208 273	0.32	0.064	0.31	11880

CERTIFICATION: J Christi

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): ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-JUN-93
Invoice No. : I9314990
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9314990

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572558	208 276	0.33	0.032	0.24	11140
H572559	208 276	1.04	0.043	0.17	11600
H572560	208 273	0.49	0.047	0.24	11940
H572561	208 276	0.23	0.023	0.07	11500
H572562	208 276	0.41	0.057	0.17	10360
H572563	208 273	0.35	0.058	0.24	11880
H572564	208 276	0.39	0.055	0.34	11540
H572565	208 273	0.27	0.041	0.34	11820
H572566	208 276	0.39	0.040	0.14	10660
H572567	208 276	0.40	0.077	0.34	11440
H572568	208 273	0.28	0.069	0.17	11820
H572569	208 276	0.19	0.060	0.14	9800
H572570	208 276	0.15	0.029	0.10	9440
H572571	208 273	0.20	0.052	0.10	12100
H572572	208 276	0.21	0.085	0.17	11440
H572573	208 276	0.17	0.045	0.10	10940
H572574	208 273	0.15	0.072	0.17	12160
H572575	208 273	0.15	0.052	0.14	12280
H572576	208 273	0.14	0.044	0.10	12680
H572577	208 276	0.24	0.063	0.10	11380
H572578	208 273	0.28	0.052	0.17	12080
H572579	208 273	0.19	0.041	0.14	12520
H572580	208 273	0.24	0.064	0.07	11860
H572581	208 273	0.25	0.064	0.10	12760
H572582	208 273	1.00	0.041	0.21	11900
H572583	208 276	0.23	0.040	0.17	11620
H572584	208 273	0.21	0.065	0.17	13400
H572585	208 276	0.21	0.037	0.07	11660
H572586	208 276	0.21	0.038	0.17	8440
H572587	208 273	0.26	0.067	0.27	12700
H572588	208 273	0.22	0.066	0.24	12120
H572589	208 273	0.16	0.055	0.14	11880
H572590	208 273	0.16	0.052	0.10	12320
H572591	208 273	0.16	0.062	0.10	12340
H572592	208 273	0.14	0.056	0.10	14340
H572593	208 276	0.14	0.046	0.07	11500
H572594	208 276	0.16	0.047	0.07	11400
H572595	208 273	0.15	0.116	0.10	12320
H572596	208 273	0.17	0.029	0.21	12060
H572597	208 273	0.14	0.039	0.07	11960

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO-155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Account : FC

CERTIFICATE OF ANALYSIS A9314990

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams						
H572598	208 273	0.12	0.082	0.07	12180						
H572599	208 274	0.17	0.092	0.17	5340						
H572600	208 276	0.24	0.102	0.34	11760						
H572601	208 273	0.26	0.252	0.21	12240						
H572602	208 273	0.28	0.105	0.24	11940						
H572603	208 274	0.14	0.024	0.14	5480						
H572604	208 276	0.29	0.043	0.21	11160						
H572605	208 276	0.09	0.017	0.10	9700						
H572606	208 276	0.07	0.016	0.03	10940						
H572607	208 273	0.07	0.013	0.10	13220						
H572608	208 276	0.08	0.021	0.07	10360						
H572609	208 273	0.07	0.028	0.10	13540						
H572610	208 276	0.19	0.026	0.14	11800						
H572611	208 276	0.14	0.020	0.10	11140						
H572612	208 274	0.22	0.014	0.24	4580						
H572613	208 276	0.14	0.027	0.10	10080						
H572614	208 276	0.10	0.011	0.14	11540						
H572615	208 273	0.16	0.020	0.14	12320						
H572616	208 276	0.13	0.013	0.10	8640						
H572617	208 276	0.14	0.017	0.07	8360						
H572618	208 273	0.07	0.025	0.07	12080						
H572619	208 276	0.07	0.017	< 0.03	10940						
H572620	208 276	0.11	0.041	0.07	10720						
H572621	208 273	0.08	0.019	0.03	11860						
H572622	208 276	0.09	0.026	< 0.03	11400						
H572623	208 273	0.17	0.035	0.07	12340						
H572624	208 276	0.11	0.041	< 0.03	11720						
H572625	208 273	0.14	0.038	0.10	12480						
H572626	208 273	0.17	0.086	0.07	12180						
H572627	208 276	0.15	0.071	0.10	11640						
H572628	208 273	0.08	0.073	< 0.03	11920						
H572629	208 273	0.18	0.055	< 0.03	12200						
H572630	208 273	0.15	0.056	< 0.03	11860						
H572631	208 273	0.09	0.061	< 0.03	11980						
H572632	208 273	0.22	0.102	0.10	12740						
H572633	208 273	0.12	0.023	0.03	13380						
H572634	208 273	0.16	0.040	0.07	13980						
H572635	208 273	0.06	0.038	0.10	12560						
H572636	208 273	0.08	0.039	0.03	13120						
H572637	208 273	0.12	0.129	0.07	13540						

CERTIFICATION: [signature]

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Project : CASINO-155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-JUN-93
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CERTIFICATE OF ANALYSIS A9314990

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572638	208	273	0.10	0.040	0.14	12600						
H572639	208	273	0.05	0.051	0.07	13020						
H572640	208	273	0.05	0.025	< 0.03	12100						
H572641	208	273	0.07	0.031	0.03	12800						
H572642	208	273	0.11	0.059	0.10	12840						
H572643	208	273	0.09	0.044	0.07	12620						
H572644	208	273	0.05	0.034	0.10	12100						
H572645	208	273	0.09	0.068	0.07	12240						
H572646	208	273	0.09	0.065	0.03	13360						
H572647	208	273	0.03	0.016	< 0.03	12820						
H572648	208	274	0.05	0.022	< 0.03	3540						

CERTIFICATION: A Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ARCHER CATHRO & ASSOC (1981) LTD
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Project : CASINO 93/155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9314994

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B572518	299	229	1.2	0.46	8	300	< 0.5	2	0.01	< 0.5	< 1	145	116	1.58	< 10	< 1	0.48	< 10	0.03	15	220
B572519	299	229	1.7	0.47	18	210	0.5	< 2	0.01	< 0.5	< 1	96	140	2.29	< 10	< 1	0.58	10	0.03	10	399
B572520	299	229	2.1	1.06	14	210	< 0.5	< 2	0.02	< 0.5	2	90	402	3.24	< 10	< 1	0.75	10	0.20	25	861
B572521	299	229	1.6	1.12	12	220	0.5	< 2	0.01	< 0.5	3	69	431	3.60	< 10	< 1	0.76	20	0.21	30	573
B572522	299	229	2.1	1.12	6	240	< 0.5	< 2	0.04	< 0.5	2	81	518	4.00	< 10	< 1	0.70	10	0.19	30	312
B572523	299	229	2.1	1.19	8	210	0.5	< 2	0.05	< 0.5	3	75	534	3.88	< 10	< 1	0.75	20	0.24	30	249
B572524	299	229	1.8	1.28	4	110	< 0.5	< 2	1.74	< 0.5	4	90	596	3.24	10	< 1	0.71	10	0.39	40	402
B572525	299	229	1.0	1.16	< 2	150	0.5	< 2	1.29	< 0.5	2	79	635	2.02	10	< 1	0.60	30	0.43	50	340
B572526	299	229	2.0	1.30	12	130	0.5	< 2	1.72	< 0.5	6	101	882	2.55	10	< 1	0.60	20	0.51	70	529
B572527	299	229	1.8	1.02	< 2	120	< 0.5	< 2	1.80	0.5	19	96	2200	2.33	< 10	< 1	0.46	10	0.39	405	360
B572528	299	229	1.9	1.44	< 2	150	0.5	< 2	1.25	< 0.5	11	97	1020	3.63	10	< 1	0.67	20	0.35	85	377
B572529	299	229	1.8	1.37	8	180	< 0.5	< 2	0.45	< 0.5	3	79	767	2.84	< 10	< 1	0.75	10	0.24	35	366
B572530	299	229	1.8	0.81	< 2	140	< 0.5	< 2	0.24	< 0.5	2	138	438	3.58	< 10	< 1	0.83	10	0.07	15	440
B572531	299	229	2.8	1.58	< 2	100	< 0.5	< 2	1.18	< 0.5	10	112	3000	3.30	10	< 1	0.81	10	0.41	70	521
B572532	299	229	1.6	1.88	12	60	< 0.5	< 2	0.96	< 0.5	11	102	3270	3.51	10	< 1	0.77	10	0.54	80	396
B572533	299	229	2.5	1.55	< 2	80	1.0	< 2	1.25	< 0.5	9	102	1965	3.29	10	< 1	0.65	10	0.78	170	627
B572534	299	229	1.7	1.83	< 2	200	0.5	< 2	1.77	< 0.5	11	123	2650	2.27	10	< 1	0.72	20	0.93	155	999
B572535	299	229	1.1	1.55	4	150	0.5	< 2	1.21	< 0.5	6	119	604	2.92	10	< 1	0.81	10	0.68	75	592
B572536	299	229	1.3	1.46	< 2	110	0.5	< 2	0.99	< 0.5	4	120	570	3.23	10	< 1	0.82	20	0.73	60	1405
B572537	299	229	2.0	1.34	< 2	190	< 0.5	< 2	0.55	< 0.5	5	122	855	2.78	10	< 1	0.76	10	0.53	55	531
B572538	299	229	1.2	2.17	< 2	160	0.5	< 2	1.38	0.5	17	116	3690	2.59	10	< 1	0.67	20	0.83	315	556
B572539	299	229	1.8	1.63	< 2	150	< 0.5	< 2	2.83	< 0.5	9	102	2280	1.99	10	< 1	0.54	20	0.73	165	2140
B572540	299	229	1.3	1.82	10	180	0.5	< 2	2.16	< 0.5	14	92	2900	3.05	10	< 1	0.67	30	0.82	240	445
B572541	299	229	0.9	2.32	6	190	0.5	< 2	1.27	< 0.5	6	93	1195	3.48	20	< 1	1.01	40	0.93	100	459
B572542	299	229	0.9	2.14	26	320	1.0	< 2	0.55	< 0.5	2	69	921	3.15	10	< 1	0.69	30	0.51	55	569
B572543	299	229	2.3	1.04	12	170	< 0.5	< 2	0.08	< 0.5	4	102	680	4.46	10	< 1	0.64	40	0.17	55	1535
B572544	299	229	2.2	0.83	8	200	< 0.5	2	0.23	< 0.5	3	94	431	4.31	10	< 1	0.72	50	0.10	20	1030
B572545	299	229	1.6	1.41	6	120	0.5	< 2	1.99	< 0.5	16	110	2800	2.84	10	< 1	0.57	30	0.43	185	516
B572546	299	229	0.8	2.11	2	120	0.5	< 2	0.05	< 0.5	3	118	316	2.89	10	< 1	0.94	30	0.83	80	249
B572547	299	229	0.9	1.48	4	160	< 0.5	< 2	0.03	< 0.5	4	145	250	2.58	< 10	< 1	0.73	20	0.57	60	323
B572548	299	229	1.3	1.24	16	180	< 0.5	2	0.04	< 0.5	2	112	219	2.07	10	< 1	0.57	70	0.14	20	495
B572549	299	229	1.2	2.26	2	80	< 0.5	< 2	0.03	< 0.5	10	106	3370	3.44	10	< 1	0.67	40	0.62	50	327
B572550	299	229	1.1	1.97	2	140	< 0.5	< 2	0.01	< 0.5	8	111	3210	1.84	10	< 1	0.62	30	0.58	55	464
B572551	299	229	1.2	2.19	< 2	220	< 0.5	< 2	0.02	< 0.5	9	104	3380	1.82	10	< 1	0.67	40	0.67	65	428
B572552	299	229	2.2	1.86	< 2	140	< 0.5	< 2	0.02	< 0.5	7	91	5670	2.59	10	< 1	0.69	40	0.57	50	639
B572553	299	229	1.5	1.74	< 2	110	< 0.5	< 2	0.03	< 0.5	8	106	4610	1.95	10	< 1	0.44	60	0.27	30	635
B572554	299	229	1.0	1.48	16	150	< 0.5	< 2	0.01	< 0.5	8	59	3470	2.35	< 10	< 1	0.55	20	0.55	50	584
B572555	299	229	1.1	1.16	8	70	< 0.5	< 2	0.02	< 0.5	10	64	3890	4.41	< 10	< 1	0.45	20	0.38	40	513
B572556	299	229	1.8	1.43	2	130	< 0.5	< 2	0.01	< 0.5	10	57	3750	1.91	< 10	< 1	0.54	20	0.54	55	346
B572557	299	229	1.6	1.53	18	100	< 0.5	< 2	0.03	< 0.5	9	85	3470	1.92	10	< 1	0.61	40	0.57	55	407

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCHER CATHRO & ASSOC (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572518	299	229	0.02	2	260	18	< 2	1	16	< 0.01	< 10	< 10	1	< 10	8
H572519	299	229	0.02	1	370	12	2	1	20	< 0.01	< 10	< 10	4	< 10	8
H572520	299	229	0.03	1	670	8	4	4	27	0.02	< 10	< 10	23	< 10	18
H572521	299	229	0.03	1	590	10	2	4	26	0.01	< 10	< 10	20	< 10	20
H572522	299	229	0.03	1	640	16	< 2	4	24	0.01	< 10	< 10	29	< 10	26
H572523	299	229	0.08	1	510	16	< 2	5	32	0.03	< 10	< 10	28	< 10	28
H572524	299	229	0.12	2	550	10	2	5	52	0.04	< 10	< 10	29	< 10	26
H572525	299	229	0.06	1	400	16	2	3	33	0.02	< 10	< 10	19	< 10	18
H572526	299	229	0.03	3	460	12	2	4	21	0.02	< 10	< 10	23	< 10	24
H572527	299	229	0.02	7	380	8	< 2	3	17	0.01	< 10	< 10	19	< 10	50
H572528	299	229	0.04	5	400	10	< 2	5	20	0.01	< 10	< 10	28	< 10	62
H572529	299	229	0.02	2	220	8	2	4	15	0.02	< 10	< 10	24	< 10	26
H572530	299	229	0.04	2	150	20	2	1	17	< 0.01	< 10	< 10	7	< 10	12
H572531	299	229	0.03	4	360	8	< 2	4	18	0.03	< 10	< 10	29	< 10	34
H572532	299	229	0.03	9	550	2	2	4	27	0.04	< 10	< 10	27	< 10	42
H572533	299	229	0.03	5	410	12	4	5	19	0.04	< 10	< 10	28	< 10	30
H572534	299	229	0.03	7	440	4	6	6	21	0.06	< 10	< 10	37	< 10	32
H572535	299	229	0.04	4	350	4	2	5	17	0.05	< 10	< 10	39	< 10	20
H572536	299	229	0.04	4	460	< 2	12	5	16	0.05	< 10	< 10	22	< 10	18
H572537	299	229	0.06	3	320	4	2	6	19	0.04	< 10	< 10	41	< 10	24
H572538	299	229	0.03	7	440	6	< 2	7	27	0.05	< 10	< 10	40	< 10	54
H572539	299	229	0.02	4	400	2	16	6	20	0.03	< 10	< 10	17	< 10	32
H572540	299	229	0.03	7	440	12	2	7	28	0.06	< 10	< 10	46	< 10	50
H572541	299	229	0.07	11	600	10	< 2	7	35	0.08	< 10	< 10	57	< 10	40
H572542	299	229	0.06	4	630	10	4	7	37	0.04	< 10	< 10	44	< 10	24
H572543	299	229	0.03	2	640	16	8	4	32	0.01	< 10	< 10	13	< 10	40
H572544	299	229	0.03	2	640	16	6	4	26	0.01	< 10	< 10	21	< 10	22
H572545	299	229	0.02	10	440	12	4	6	14	0.02	< 10	< 10	32	< 10	44
H572546	299	229	0.02	8	440	8	< 2	7	20	0.06	< 10	< 10	56	< 10	26
H572547	299	229	0.01	9	260	6	< 2	6	22	0.02	< 10	< 10	39	< 10	16
H572548	299	229	0.02	3	760	14	4	4	378	< 0.01	< 10	< 10	19	10	8
H572549	299	229	0.01	13	480	4	< 2	7	197	0.03	< 10	< 10	41	< 10	24
H572550	299	229	0.02	6	160	4	2	7	22	0.03	< 10	< 10	41	< 10	24
H572551	299	229	0.02	6	300	6	< 2	8	46	0.04	< 10	< 10	49	< 10	26
H572552	299	229	0.01	5	360	20	< 2	6	104	0.03	< 10	< 10	32	< 10	28
H572553	299	229	0.01	6	490	14	2	5	84	0.01	< 10	< 10	23	< 10	24
H572554	299	229	0.01	7	260	12	4	7	22	0.04	< 10	< 10	35	< 10	24
H572555	299	229	0.01	8	290	6	2	4	30	0.02	< 10	< 10	27	< 10	28
H572556	299	229	0.01	7	300	4	< 2	4	22	0.03	< 10	< 10	30	< 10	24
H572557	299	229	0.01	7	460	8	2	5	107	0.04	< 10	< 10	34	< 10	24

CERTIFICATION: Hart Bichler

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CERTIFICATE OF ANALYSIS A9314994

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
A572558	299	229	1.2	2.46	20	120	< 0.5	8	0.04	< 0.5	8	48	3270	2.67	< 10	< 1	0.69	20	0.78	75	189
A572559	299	229	1.6	0.76	10	40	< 0.5	8	0.03	< 0.5	9	44	>10000	4.06	< 10	< 1	0.35	10	0.27	20	262
A572560	299	229	2.4	1.22	12	60	< 0.5	2	0.03	< 0.5	12	73	4980	3.86	< 10	< 1	0.43	20	0.30	25	282
A572561	299	229	1.6	2.03	22	70	< 0.5	6	0.08	< 0.5	15	54	2210	3.58	< 10	< 1	0.55	10	0.50	50	131
A572562	299	229	1.4	1.09	< 2	50	< 0.5	6	0.04	< 0.5	10	54	4150	3.72	< 10	< 1	0.34	20	0.19	15	338
A572563	299	229	2.2	1.38	8	80	< 0.5	6	0.03	< 0.5	7	68	3620	1.78	< 10	< 1	0.30	30	0.20	20	371
A572564	299	229	2.8	1.90	8	150	< 0.5	6	0.04	< 0.5	6	91	3930	1.34	10	< 1	0.44	50	0.39	40	343
A572565	299	229	2.4	1.67	4	170	< 0.5	< 2	0.11	< 0.5	4	84	2560	1.43	< 10	< 1	0.44	20	0.43	50	242
A572566	299	229	2.4	1.05	16	60	< 0.5	2	0.04	< 0.5	7	83	4020	3.87	< 10	< 1	0.36	30	0.11	10	256
A572567	299	229	3.0	1.57	30	150	< 0.5	< 2	0.06	< 0.5	11	105	4080	1.80	< 10	< 1	0.37	30	0.30	30	487
A572568	299	229	2.6	1.55	18	110	< 0.5	< 2	0.21	< 0.5	16	81	2760	3.30	< 10	< 1	0.49	20	0.53	250	430
A572569	299	229	1.8	1.50	4	130	< 0.5	6	0.28	< 0.5	12	92	1930	2.73	< 10	< 1	0.56	20	0.64	190	366
A572570	299	229	1.2	1.65	8	140	< 0.5	< 2	0.28	< 0.5	12	84	1425	2.83	< 10	< 1	0.64	20	0.81	250	163
A572571	299	229	1.2	1.69	< 2	90	< 0.5	4	0.08	< 0.5	7	100	1930	2.32	< 10	< 1	0.64	20	0.63	65	316
A572572	299	229	1.8	1.22	12	120	< 0.5	4	0.19	< 0.5	11	87	1995	2.36	< 10	< 1	0.38	30	0.38	160	508
A572573	299	229	1.6	1.13	6	80	< 0.5	< 2	0.06	< 0.5	4	105	1625	1.09	< 10	< 1	0.30	40	0.18	15	284
A572574	299	229	1.4	0.99	< 2	80	< 0.5	< 2	0.52	< 0.5	8	115	1405	2.19	< 10	< 1	0.32	30	0.36	150	437
A572575	299	229	1.2	1.07	14	70	< 0.5	< 2	0.79	< 0.5	13	91	1450	3.52	< 10	< 1	0.41	30	0.58	265	303
A572576	299	229	1.4	0.92	12	40	< 0.5	< 2	0.61	< 0.5	9	91	1310	2.60	< 10	< 1	0.31	20	0.39	315	261
A572577	299	229	1.8	1.55	< 2	130	< 0.5	2	0.11	< 0.5	7	81	2450	1.57	< 10	< 1	0.26	20	0.17	15	403
A572578	299	229	2.6	1.62	10	130	< 0.5	2	0.34	< 0.5	7	89	2880	2.26	< 10	< 1	0.42	20	0.39	105	326
A572579	299	229	2.0	1.07	< 2	50	< 0.5	4	0.43	< 0.5	8	97	1965	2.26	< 10	< 1	0.26	20	0.19	190	248
A572580	299	229	1.6	1.38	2	70	< 0.5	6	0.10	< 0.5	7	98	2570	1.53	< 10	< 1	0.32	30	0.21	20	415
A572581	299	229	1.8	1.56	< 2	150	< 0.5	2	0.72	< 0.5	6	103	2530	2.44	< 10	< 1	0.67	30	0.84	175	409
A572582	299	229	1.8	1.84	12	90	< 0.5	16	0.86	< 0.5	10	91	9880	2.84	< 10	< 1	0.68	30	0.97	185	245
A572583	299	229	1.8	1.29	< 2	60	< 0.5	< 2	1.37	< 0.5	9	98	2290	2.57	< 10	< 1	0.57	20	0.83	180	250
A572584	299	229	1.8	1.41	< 2	110	< 0.5	< 2	1.20	< 0.5	9	70	2100	2.83	< 10	< 1	0.59	20	0.85	185	397
A572585	299	229	1.8	1.24	4	130	< 0.5	< 2	0.84	< 0.5	9	91	2140	2.55	< 10	< 1	0.44	20	0.59	210	230
A572586	299	229	2.4	0.93	2	120	< 0.5	4	0.53	< 0.5	7	101	2140	2.73	< 10	< 1	0.39	20	0.38	230	238
A572587	299	229	2.6	1.12	4	100	< 0.5	< 2	1.27	< 0.5	7	98	2770	2.11	< 10	< 1	0.51	30	0.78	145	438
A572588	299	229	2.4	0.76	12	70	< 0.5	2	1.88	< 0.5	4	120	2220	3.53	< 10	< 1	0.35	20	0.90	205	396
A572589	299	229	1.4	0.97	14	30	< 0.5	< 2	1.36	< 0.5	8	91	1640	3.06	< 10	< 1	0.50	10	0.85	115	347
A572590	299	229	1.2	1.91	6	150	< 0.5	< 2	1.21	< 0.5	6	99	1460	2.43	< 10	< 1	0.79	20	1.30	110	305
A572591	299	229	1.6	1.25	8	120	< 0.5	< 2	1.32	< 0.5	6	114	1640	2.07	< 10	< 1	0.48	30	0.73	100	398
A572592	299	229	1.4	1.20	6	170	< 0.5	< 2	1.45	< 0.5	6	132	1315	2.01	10	< 1	0.58	40	0.73	90	349
A572593	299	229	1.2	1.59	4	170	< 0.5	4	1.07	< 0.5	7	158	1340	2.26	< 10	< 1	0.70	20	1.15	125	291
A572594	299	229	1.2	1.48	12	170	< 0.5	< 2	1.14	< 0.5	4	148	1495	1.50	< 10	< 1	0.59	30	1.04	95	284
A572595	299	229	1.4	1.46	6	180	< 0.5	2	1.02	< 0.5	4	150	1445	1.74	< 10	< 1	0.61	30	1.01	100	744
A572596	299	229	1.2	1.17	2	130	< 0.5	< 2	0.93	< 0.5	7	166	1590	3.01	< 10	< 1	0.46	10	0.86	95	174
A572597	299	229	1.2	1.16	4	190	< 0.5	< 2	1.51	< 0.5	5	158	1385	1.91	< 10	< 1	0.56	20	0.66	85	234

CERTIFICATION: Stuart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9314994

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572558	299	229	0.01	10	460	10	4	6	22	0.05	< 10	< 10	42	10	16
H572559	299	229	0.01	7	260	14	2	2	23	0.01	< 10	< 10	17	< 10	4
H572560	299	229	0.01	9	420	12	2	3	21	0.01	< 10	< 10	27	10	12
H572561	299	229	0.01	11	730	12	4	6	5	0.04	< 10	< 10	39	10	14
H572562	299	229	0.01	14	470	8	2	3	52	< 0.01	< 10	< 10	20	< 10	6
H572563	299	229	0.01	6	420	12	2	4	34	0.01	< 10	< 10	30	< 10	12
H572564	299	229	0.01	5	700	16	< 2	7	233	0.03	< 10	< 10	41	< 10	14
H572565	299	229	0.01	6	390	18	4	7	6	0.02	< 10	< 10	39	< 10	22
H572566	299	229	0.01	7	320	24	< 2	3	49	< 0.01	< 10	< 10	20	10	14
H572567	299	229	0.01	8	560	18	2	5	33	0.01	< 10	< 10	40	< 10	8
H572568	299	229	0.01	7	430	16	2	7	8	0.02	< 10	< 10	45	10	38
H572569	299	229	0.01	7	340	10	4	6	8	0.02	< 10	< 10	43	10	22
H572570	299	229	0.01	7	290	6	2	6	9	0.03	< 10	< 10	39	10	30
H572571	299	229	0.02	5	350	10	2	5	24	0.02	< 10	< 10	37	10	18
H572572	299	229	0.01	4	330	14	4	4	10	0.01	< 10	< 10	29	10	32
H572573	299	229	0.01	5	320	10	< 2	3	11	< 0.01	< 10	< 10	19	< 10	10
H572574	299	229	0.01	5	300	12	4	4	11	0.01	< 10	< 10	26	< 10	22
H572575	299	229	0.01	8	480	10	2	7	10	0.02	< 10	< 10	40	10	20
H572576	299	229	0.01	4	420	10	4	6	10	< 0.01	< 10	< 10	34	10	24
H572577	299	229	0.01	6	600	10	2	6	12	< 0.01	< 10	< 10	40	< 10	10
H572578	299	229	0.01	6	510	20	6	7	21	0.01	< 10	< 10	44	< 10	24
H572579	299	229	0.01	3	500	12	< 2	4	12	< 0.01	< 10	< 10	31	< 10	22
H572580	299	229	0.01	5	670	16	4	4	49	< 0.01	< 10	< 10	32	< 10	6
H572581	299	229	0.01	4	480	20	4	7	20	0.04	< 10	< 10	49	10	18
H572582	299	229	0.02	6	560	10	< 2	9	72	0.06	< 10	< 10	54	< 10	22
H572583	299	229	0.02	4	370	6	2	6	37	0.03	< 10	< 10	37	10	22
H572584	299	229	0.01	3	380	8	2	6	14	0.03	< 10	< 10	42	10	26
H572585	299	229	0.01	6	340	8	4	4	29	0.01	< 10	< 10	31	10	36
H572586	299	229	0.01	4	290	14	2	3	14	< 0.01	< 10	< 10	22	10	36
H572587	299	229	0.02	4	300	6	4	5	23	0.02	< 10	< 10	35	10	22
H572588	299	229	0.01	3	310	20	2	4	23	< 0.01	< 10	< 10	25	20	28
H572589	299	229	0.02	9	440	14	4	3	73	0.02	< 10	< 10	24	10	24
H572590	299	229	0.02	9	510	16	4	7	28	0.05	< 10	< 10	53	10	24
H572591	299	229	0.01	3	320	12	2	4	21	0.01	< 10	< 10	32	10	16
H572592	299	229	0.03	6	320	18	4	4	27	0.03	< 10	< 10	35	10	16
H572593	299	229	0.04	7	240	8	2	7	23	0.07	< 10	< 10	50	10	22
H572594	299	229	0.04	4	270	8	2	7	30	0.06	< 10	< 10	49	< 10	18
H572595	299	229	0.05	4	360	14	6	6	28	0.05	< 10	< 10	48	10	18
H572596	299	229	0.04	7	360	8	4	5	24	0.03	< 10	< 10	54	10	16
H572597	299	229	0.04	5	340	4	2	5	31	0.04	< 10	< 10	35	< 10	12

CERTIFICATION: Stuart Bichler

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CERTIFICATE OF ANALYSIS A9314994

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572598	299	229	1.2	1.74	12	190	< 0.5	< 2	1.49	< 0.5	5	92	1205	2.15	< 10	< 1	0.80	20	1.02	85	501
H572599	299	229	1.6	1.29	< 2	160	< 0.5	2	2.01	< 0.5	4	136	1720	1.67	< 10	< 1	0.55	20	0.54	80	573
H572600	299	229	2.2	1.41	12	150	< 0.5	< 2	2.07	< 0.5	3	103	2450	1.41	< 10	< 1	0.50	40	0.75	115	643
H572601	299	229	2.8	1.16	4	90	< 0.5	< 2	2.16	< 0.5	3	117	2680	1.63	< 10	< 1	0.52	40	0.59	105	1645
H572602	299	229	2.8	1.73	20	140	< 0.5	< 2	1.81	< 0.5	12	73	2820	2.67	10	< 1	0.79	20	1.23	145	636
H572603	299	229	1.4	1.79	4	60	< 0.5	< 2	1.19	< 0.5	12	53	1440	3.82	10	< 1	0.87	30	1.01	85	148
H572604	299	229	2.6	2.18	6	190	< 0.5	4	1.43	< 0.5	8	80	2960	2.87	10	< 1	0.99	40	1.38	125	269
H572605	299	229	0.8	2.56	8	40	< 0.5	< 2	0.99	< 0.5	16	78	959	4.76	10	< 1	1.18	20	1.56	120	105
H572606	299	229	0.6	2.40	4	220	< 0.5	< 2	0.85	< 0.5	11	87	692	3.64	10	< 1	0.92	10	1.55	135	96
H572607	299	229	0.6	2.27	4	260	< 0.5	2	1.07	< 0.5	7	81	654	3.73	10	< 1	0.80	10	1.48	150	81
H572608	299	229	0.6	2.03	6	220	< 0.5	< 2	0.83	< 0.5	8	76	808	3.51	10	< 1	0.92	20	1.46	140	125
H572609	299	229	0.6	1.83	4	100	< 0.5	< 2	1.13	< 0.5	7	56	685	3.73	10	< 1	0.87	30	1.23	120	161
H572610	299	229	1.4	1.74	14	40	< 0.5	< 2	1.24	< 0.5	9	64	1915	5.29	10	< 1	0.74	10	1.17	130	148
H572611	299	229	1.8	1.88	4	190	< 0.5	2	0.82	< 0.5	9	61	1385	3.64	10	< 1	0.83	10	1.33	130	118
H572612	299	229	1.6	2.24	32	90	< 0.5	< 2	0.47	< 0.5	26	76	2230	4.43	10	< 1	0.93	10	1.50	135	88
H572613	299	229	0.8	2.27	14	40	< 0.5	< 2	0.57	< 0.5	18	76	1405	4.65	10	< 1	1.03	10	1.32	95	165
H572614	299	229	0.6	2.07	4	20	< 0.5	< 2	0.56	< 0.5	15	89	1025	5.78	10	< 1	0.99	10	1.21	120	68
H572615	299	229	1.2	2.30	6	110	< 0.5	< 2	0.58	< 0.5	17	71	1625	4.19	10	< 1	0.95	10	1.48	155	125
H572616	299	229	0.8	2.20	16	100	< 0.5	< 2	0.45	< 0.5	14	73	1265	4.00	10	< 1	0.83	10	1.40	140	79
H572617	299	229	0.8	2.11	12	60	< 0.5	< 2	0.61	< 0.5	14	82	1390	5.10	10	< 1	0.84	10	1.24	135	103
H572618	299	229	0.8	1.67	4	140	< 0.5	< 2	1.92	< 0.5	6	117	743	1.74	< 10	< 1	0.57	20	0.99	100	153
H572619	299	229	0.6	1.81	< 2	150	< 0.5	< 2	0.79	< 0.5	6	127	706	1.82	< 10	< 1	0.51	20	1.01	55	109
H572620	299	229	1.0	1.78	8	130	< 0.5	< 2	1.50	< 0.5	9	101	1045	1.81	< 10	< 1	0.63	20	1.09	75	260
H572621	299	229	0.6	1.51	2	130	< 0.5	< 2	1.11	< 0.5	12	125	720	2.22	< 10	< 1	0.53	10	0.90	60	111
H572622	299	229	0.6	1.72	6	160	< 0.5	< 2	1.04	< 0.5	12	101	827	2.00	< 10	< 1	0.53	20	1.09	65	162
H572623	299	229	1.6	1.68	2	140	< 0.5	< 2	1.16	< 0.5	7	125	1730	1.77	< 10	< 1	0.51	20	0.99	75	222
H572624	299	229	0.8	1.34	< 2	150	< 0.5	< 2	1.38	< 0.5	7	96	1040	1.74	< 10	< 1	0.55	10	0.93	85	248
H572625	299	229	1.0	1.29	6	160	< 0.5	< 2	1.78	< 0.5	12	116	1355	2.40	10	< 1	0.56	20	0.92	170	230
H572626	299	229	1.2	1.18	< 2	130	< 0.5	< 2	2.10	< 0.5	11	81	1575	2.05	< 10	< 1	0.49	20	0.69	150	489
H572627	299	229	1.2	0.97	< 2	90	0.5	2	1.41	< 0.5	12	89	1590	2.98	< 10	< 1	0.43	20	0.38	165	428
H572628	299	229	0.6	0.90	< 2	40	0.5	< 2	1.20	< 0.5	14	91	836	4.37	< 10	< 1	0.47	20	0.45	155	426
H572629	299	229	2.4	1.09	< 2	150	0.5	12	2.79	< 0.5	9	111	1740	2.30	< 10	< 1	0.49	20	0.59	135	332
H572630	299	229	1.2	1.40	< 2	160	0.5	6	2.83	< 0.5	9	96	1520	1.95	< 10	< 1	0.57	20	0.85	105	337
H572631	299	229	0.6	1.62	< 2	170	0.5	< 2	1.78	< 0.5	6	130	880	1.44	< 10	< 1	0.65	20	0.87	75	384
H572632	299	229	1.4	1.90	< 2	80	0.5	12	2.18	< 0.5	10	103	2220	2.95	10	< 1	0.80	30	1.18	85	605
H572633	299	229	0.8	1.26	< 2	130	< 0.5	< 2	2.66	< 0.5	7	132	1190	1.89	< 10	< 1	0.63	10	0.98	80	137
H572634	299	229	1.2	1.15	2	130	< 0.5	6	2.60	< 0.5	9	115	1510	2.10	< 10	< 1	0.58	20	0.82	85	228
H572635	299	229	0.6	1.57	2	160	0.5	2	1.55	< 0.5	9	142	598	2.42	< 10	< 1	0.78	30	0.81	75	247
H572636	299	229	0.6	1.43	4	220	0.5	< 2	1.84	< 0.5	6	122	859	1.85	< 10	< 1	0.62	20	0.70	85	238
H572637	299	229	0.8	1.34	< 2	180	0.5	2	1.90	< 0.5	7	93	1175	2.05	< 10	< 1	0.61	20	0.75	80	762

CERTIFICATION: Ian R. Pirie

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B572598	299	229	0.03	6	420	4	4	6	35	0.06	< 10	< 10	46	10	10
B572599	299	229	0.02	6	420	12	4	4	32	0.02	< 10	< 10	32	< 10	8
B572600	299	229	0.02	4	410	12	4	6	43	0.02	< 10	< 10	36	< 10	10
B572601	299	229	0.02	4	250	10	12	3	32	0.01	< 10	< 10	32	< 10	14
B572602	299	229	0.04	9	660	4	6	6	37	0.06	< 10	< 10	49	10	20
B572603	299	229	0.04	12	810	< 2	< 2	3	27	0.04	< 10	< 10	32	20	16
B572604	299	229	0.07	11	770	8	4	6	39	0.10	< 10	< 10	56	10	16
B572605	299	229	0.08	14	810	8	2	6	36	0.12	< 10	< 10	55	30	16
B572606	299	229	0.08	13	750	6	< 2	6	39	0.13	< 10	< 10	56	20	18
B572607	299	229	0.09	14	850	4	< 2	6	42	0.09	< 10	< 10	58	20	18
B572608	299	229	0.09	11	780	2	4	6	35	0.11	< 10	< 10	59	20	16
B572609	299	229	0.06	11	770	2	2	6	34	0.08	< 10	< 10	51	20	16
B572610	299	229	0.05	12	710	2	4	5	38	0.07	< 10	< 10	43	20	18
B572611	299	229	0.08	11	770	6	4	6	39	0.12	< 10	< 10	61	20	22
B572612	299	229	0.09	16	900	4	< 2	7	48	0.11	< 10	< 10	61	10	28
B572613	299	229	0.09	14	940	8	< 2	7	47	0.13	< 10	< 10	57	20	20
B572614	299	229	0.09	14	820	6	< 2	6	29	0.13	< 10	< 10	55	30	20
B572615	299	229	0.12	16	880	8	< 2	7	38	0.15	< 10	< 10	66	30	28
B572616	299	229	0.09	13	850	8	2	6	45	0.15	< 10	< 10	64	20	30
B572617	299	229	0.06	14	770	12	4	5	70	0.08	< 10	< 10	48	20	26
B572618	299	229	0.04	5	390	6	2	6	29	0.03	< 10	< 10	41	10	16
B572619	299	229	0.02	6	300	10	< 2	5	24	0.02	< 10	< 10	35	10	10
B572620	299	229	0.02	5	430	12	4	6	27	0.03	< 10	< 10	42	10	12
B572621	299	229	0.02	6	290	20	< 2	4	22	0.02	< 10	< 10	31	10	10
B572622	299	229	0.03	4	380	6	< 2	6	27	0.02	< 10	< 10	41	10	12
B572623	299	229	0.02	6	450	16	< 2	6	30	0.03	< 10	< 10	42	10	16
B572624	299	229	0.04	5	360	16	2	7	27	0.04	< 10	< 10	51	10	14
B572625	299	229	0.04	6	420	10	2	7	33	0.05	< 10	< 10	55	10	32
B572626	299	229	0.03	4	330	14	6	6	33	0.03	< 10	< 10	37	10	26
B572627	299	229	0.02	4	390	10	4	4	27	< 0.01	< 10	< 10	26	20	18
B572628	299	229	0.01	6	300	14	4	3	21	< 0.01	< 10	< 10	19	30	14
B572629	299	229	0.02	5	390	8	4	5	46	0.02	< 10	< 10	29	10	18
B572630	299	229	0.03	4	390	20	4	7	48	0.04	< 10	< 10	47	< 10	14
B572631	299	229	0.04	3	390	10	4	7	49	0.04	< 10	< 10	45	< 10	14
B572632	299	229	0.04	5	500	20	4	9	100	0.08	< 10	< 10	64	10	16
B572633	299	229	0.04	4	360	12	2	6	132	0.06	< 10	< 10	53	10	16
B572634	299	229	0.03	6	220	2	2	6	102	0.04	< 10	< 10	51	10	14
B572635	299	229	0.04	6	340	6	2	6	53	0.03	< 10	< 10	43	60	14
B572636	299	229	0.04	6	410	6	4	6	50	0.03	< 10	< 10	38	130	12
B572637	299	229	0.03	3	460	14	10	6	56	0.03	< 10	< 10	44	10	8

CERTIFICATION: Ian A Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUN-93
Invoice No. :19314994
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314994

SAMPLE	PREP CODE		Ag ppm Aqua R	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572638	299	229	0.8	1.43	< 2	200	0.5	< 2	1.63	< 0.5	4	96	970	1.56	< 10	< 1	0.55	20	0.77	75	250
H572639	299	229	0.6	1.20	< 2	210	0.5	2	1.50	< 0.5	5	93	554	1.61	< 10	< 1	0.48	20	0.61	80	321
H572640	299	229	0.4	1.26	< 2	180	0.5	2	1.71	< 0.5	6	101	453	1.49	< 10	< 1	0.48	20	0.65	110	157
H572641	299	229	0.6	1.38	< 2	190	0.5	< 2	2.34	< 0.5	5	119	730	1.60	< 10	< 1	0.64	10	0.83	110	193
H572642	299	229	1.0	1.24	2	240	0.5	< 2	2.03	< 0.5	7	124	1150	1.48	< 10	< 1	0.55	20	0.63	115	372
H572643	299	229	0.8	1.39	< 2	110	0.5	< 2	1.27	< 0.5	14	142	885	1.95	< 10	< 1	0.42	20	0.64	195	270
H572644	299	229	0.4	1.62	< 2	250	0.5	2	0.99	< 0.5	10	122	473	1.70	< 10	< 1	0.60	20	0.81	70	222
H572645	299	229	0.8	1.71	< 2	200	0.5	2	1.74	< 0.5	8	112	956	1.54	< 10	< 1	0.74	20	1.06	95	440
H572646	299	229	0.8	1.31	2	170	< 0.5	6	2.04	< 0.5	10	127	897	1.92	< 10	< 1	0.72	20	1.01	100	412
H572647	299	229	0.2	1.00	< 2	130	< 0.5	< 2	2.66	< 0.5	1	139	290	1.10	< 10	< 1	0.59	20	0.79	80	102
H572648	299	229	0.6	1.17	< 2	80	< 0.5	6	3.27	< 0.5	3	143	500	1.22	< 10	< 1	0.70	30	0.84	75	142

CERTIFICATION: Frank Bechler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC (1981) LTD
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/155
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUN-93
Invoice No. :19314994
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9314994

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572638	299	229	0.03	4	460	12	4	7	69	0.03	< 10	< 10	42	< 10	12
H572639	299	229	0.02	5	370	10	2	6	66	0.02	< 10	< 10	31	10	12
H572640	299	229	0.02	4	380	16	2	6	66	0.02	< 10	< 10	33	< 10	12
H572641	299	229	0.04	5	380	8	4	8	104	0.06	< 10	< 10	47	10	16
H572642	299	229	0.04	4	400	16	4	7	60	0.05	< 10	< 10	44	< 10	16
H572643	299	229	0.02	7	410	16	4	8	58	0.01	< 10	< 10	37	20	22
H572644	299	229	0.03	7	380	18	2	8	65	0.04	< 10	< 10	47	< 10	20
H572645	299	229	0.04	4	390	16	4	9	56	0.08	< 10	< 10	60	10	16
H572646	299	229	0.05	6	340	14	4	9	85	0.08	< 10	< 10	59	20	18
H572647	299	229	0.04	4	320	14	< 2	7	112	0.07	< 10	< 10	46	< 10	16
H572648	299	229	0.04	5	230	12	2	9	117	0.07	< 10	< 10	55	< 10	14

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315594
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315594

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568437	208	276	0.01	0.008	0.21	7320						
H568438	208	273	0.01	0.008	0.31	12240						
H568439	208	276	0.01	0.006	0.14	11620						
H568440	208	276	0.01	0.007	0.14	11120						
H568441	208	276	0.01	0.008	0.10	11500						
H568442	208	273	0.01	0.005	0.14	11920						
H568443	208	276	< 0.01	0.004	0.14	9620						
H568444	208	273	< 0.01	0.013	0.21	12180						
H568445	208	276	0.01	0.009	0.21	11400						
H568446	208	276	0.01	0.014	0.21	11550						
H568447	208	276	0.01	0.010	0.24	10950						
H568448	208	273	0.01	0.006	0.10	12560						
H568449	208	273	< 0.01	0.009	0.14	12670						
H568450	208	273	0.01	0.013	0.17	12200						
H568451	208	273	0.02	0.013	0.24	12760						
H568452	208	276	0.02	0.005	0.21	11200						
H568453	208	273	0.02	0.027	0.24	12140						
H568454	208	276	0.02	0.031	0.27	9180						
H568455	208	276	0.02	0.006	0.14	10500						
H568456	208	276	0.01	0.010	0.21	10510						
H568457	208	276	0.01	0.015	0.14	10120						
H568458	208	276	0.01	0.009	0.21	10130						
H568459	208	276	0.01	0.018	0.14	8980						
H568460	208	276	0.01	0.012	0.10	7300						
H568461	208	276	0.02	0.020	0.24	11720						
H568462	208	276	0.03	0.019	0.55	11560						
H568463	208	276	0.03	0.014	0.21	9620						
H568464	208	276	0.15	0.003	0.14	11740						
H568465	208	276	0.14	0.005	0.14	10420						
H568466	208	276	0.16	0.006	0.21	11060						
H568467	208	276	0.19	0.007	0.27	11500						
H568468	208	276	0.12	0.006	0.17	11120						
H568469	208	276	0.06	0.011	0.34	10420						
H568470	208	273	0.18	0.015	0.14	14220						
H568471	208	273	0.21	0.011	0.17	13440						
H568472	208	273	0.36	0.013	0.24	12940						
H568473	208	273	0.27	0.013	0.21	11980						
H568474	208	276	0.21	0.005	0.17	10820						
H568475	208	276	0.17	0.015	0.14	11520						
H568476	208	273	0.47	0.018	0.31	12680						

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315594
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315594

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568477	208	276	0.43	0.019	0.24	11320						
H568478	208	273	0.24	0.018	0.31	13700						
H568479	208	276	0.39	0.017	0.45	11340						
H568480	208	276	0.20	0.005	0.27	9700						
H568481	208	273	0.30	0.003	0.24	12600						
H568482	208	276	0.18	0.009	0.34	11120						
H568483	208	273	0.19	0.005	0.24	13380						
H568484	208	273	0.22	0.010	0.27	13040						
H568485	208	273	0.20	0.026	0.24	13560						
H568486	208	276	0.23	0.009	0.34	11460						
H568487	208	276	0.26	0.007	0.55	11240						
H568488	208	276	0.18	0.010	0.27	11540						
H568489	208	276	0.33	0.004	0.24	10640						
H568490	208	276	0.19	0.007	0.27	11460						
H568491	208	273	0.24	0.011	0.31	12580						
H568492	208	276	0.27	0.013	0.27	11060						
H568493	208	273	0.23	0.014	0.31	12540						
H568494	208	273	0.19	0.008	0.27	13500						
H568495	208	273	0.13	0.005	0.23	12040						
H568496	208	273	0.27	0.006	0.81	12680						
H568497	208	273	0.13	0.005	0.17	13840						
H568498	208	273	0.25	0.023	0.38	13480						
H568499	208	273	0.26	0.020	0.31	12420						
H568500	208	273	0.22	0.014	0.24	13000						
H568501	208	273	0.25	0.011	0.34	12580						
H568502	208	273	0.44	0.028	0.48	13320						
H568503	208	273	0.28	0.047	0.21	13160						
H568504	208	273	0.17	0.009	0.24	13260						
H568505	208	273	0.15	0.004	0.27	12160						
H568506	208	273	0.29	0.011	0.34	13480						
H568507	208	273	0.16	0.023	0.27	12600						
H568508	208	273	0.16	0.016	0.24	13640						
H568509	208	273	0.14	0.013	0.24	14720						
H568510	208	273	0.14	0.004	0.24	13690						
H568511	208	273	0.16	0.005	0.21	13750						
H568512	208	273	0.29	0.010	0.45	12300						
H568513	208	273	0.18	0.027	0.27	13200						
H568514	208	273	0.19	0.008	0.31	14140						
H568515	208	273	0.21	0.005	0.27	13880						
H568516	208	273	0.12	0.008	0.24	14800						

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315594
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315594

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H568517	208 273	0.13	0.003	0.21	13840
H568518	208 273	0.23	0.010	0.38	14740
H568519	208 273	0.15	0.008	0.34	13000
H568520	208 273	0.18	0.019	0.27	13300
H568521	208 273	0.19	0.008	0.21	12500
H568522	208 273	0.16	0.006	0.31	13280
H568523	208 273	0.22	0.028	0.34	13920
H568524	208 273	0.23	0.030	0.21	12160
H568525	208 273	0.30	0.020	0.27	12000
H568526	208 273	0.14	0.005	0.17	13400
H568527	208 273	0.17	0.017	0.14	12920
H568528	208 276	0.16	0.032	0.21	11800
H568529	208 273	0.29	0.025	0.41	13110
H568530	208 273	0.22	0.026	0.27	12590
H568531	208 273	0.30	0.017	0.34	12000
H568532	208 273	0.25	0.029	0.27	12850
H568533	208 273	0.33	0.041	0.41	13000
H568534	208 273	0.22	0.066	0.24	13350
H568535	208 273	0.20	0.011	0.27	13600
H568536	208 273	0.19	0.066	0.21	13390
H568537	208 273	0.29	0.016	0.34	13920
H568538	208 273	0.24	0.024	0.27	12650
H568539	208 273	0.23	0.043	0.24	14000
H568540	208 273	0.20	0.078	0.31	13940
H568541	208 273	0.23	0.037	0.31	14660
H568542	208 273	0.19	0.018	0.27	14300
H568543	208 273	0.17	0.026	0.24	14690
H568544	208 273	0.21	0.033	0.21	13320
H568545	208 273	0.26	0.058	0.24	12270
H568546	208 276	0.20	0.030	0.17	11060
H568547	208 273	0.19	0.019	0.21	12940
H568548	208 273	0.12	0.017	0.14	13600
H568549	208 273	0.16	0.050	0.12	12560
H568550	208 273	0.40	0.051	0.42	12350
H568551	208 273	0.32	0.045	0.24	12860
H568552	208 273	0.34	0.045	0.21	13020
H568553	208 273	0.95	0.072	0.51	13740
H568554	208 273	0.36	0.035	0.20	12800
H568555	208 273	0.24	0.033	0.17	13100
H568556	208 276	0.21	0.018	0.21	9880

CERTIFICATION: CWSchi

Chemex Labs Ltd.

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315594
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315594

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568557	208	276	0.20	0.026	0.17	11480						
H568558	208	273	0.21	0.019	0.14	13080						
H568559	208	273	0.24	0.040	0.24	12660						
H568560	208	273	0.14	0.010	0.10	13040						
H568561	208	273	0.20	0.011	0.21	12800						
H568562	208	273	0.18	0.034	0.17	12660						
H568563	208	276	0.17	0.025	0.17	11140						
H568564	208	273	0.41	0.029	0.27	12600						
H568565	208	273	0.24	0.014	0.17	12600						
H568566	208	273	0.18	0.021	0.14	14160						
H568567	208	273	0.15	0.038	0.14	12700						
H568568	208	273	0.21	0.043	0.17	13120						
H568569	208	273	0.19	0.033	0.21	13680						
H568570	208	273	0.15	0.018	0.17	13980						
H568571	208	276	0.18	0.026	0.17	11190						
H568572	208	273	0.16	0.023	0.17	14850						
H568573	208	273	0.22	0.028	0.10	14720						
H568574	208	273	0.21	0.058	0.21	13600						
H568575	208	273	0.19	0.033	0.17	12720						
H568576	208	273	0.19	0.033	0.27	12740						
H568577	208	273	0.25	0.066	0.14	13380						
H568578	208	273	0.23	0.031	0.14	12840						
H568579	208	273	0.20	0.080	0.10	12640						
H568580	208	273	0.14	0.110	0.07	12640						
H568581	208	273	0.28	0.043	0.07	12680						
H568582	208	273	0.23	0.020	0.07	12780						
H568583	208	276	0.34	0.045	0.03	11580						
H568584	208	273	0.25	0.025	0.07	13000						
H568585	208	273	0.28	0.018	0.07	12040						
H568586	208	273	0.32	0.026	0.10	13260						
H568587	208	273	0.09	0.028	0.10	13220						
H568588	208	273	0.18	0.046	0.07	14600						
H568589	208	273	0.35	0.030	0.17	13320						
H568590	208	273	0.20	0.045	0.10	13300						
H568591	208	273	0.17	0.047	0.07	13480						
H568592	208	273	0.24	0.078	0.07	13800						
H568593	208	273	0.38	0.038	0.14	13080						
H568594	208	273	0.51	0.029	0.14	12800						
H568595	208	273	0.53	0.043	0.10	12810						
H568596	208	273	0.48	0.044	0.10	12680						

CERTIFICATION: J.C. Smith

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315594
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315594

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568597	208	273	0.53	0.022	0.21	13400						
H568598	208	273	0.35	0.037	0.17	13080						
H568599	208	273	0.41	0.027	0.21	12760						
H568600	208	273	0.39	0.110	0.21	13260						
H568601	208	273	0.44	0.037	0.24	12900						
H568602	208	273	0.52	0.026	0.31	12800						
H568603	208	273	0.35	0.038	0.24	12980						
H568604	208	273	0.81	0.029	0.38	12380						
H568605	208	273	0.58	0.043	0.24	12520						
H568606	208	273	0.61	0.032	0.31	12900						
H568607	208	273	0.50	0.011	0.17	12060						
H568608	208	273	0.41	0.020	0.21	12520						
H568609	208	273	0.37	0.027	0.17	13600						
H568610	208	273	0.48	0.015	0.21	12640						
H568611	208	273	0.75	0.027	0.27	12440						
H568612	208	273	0.39	0.029	0.14	14360						
H568613	208	273	0.83	0.039	0.24	13880						
H568614	208	273	0.80	0.016	0.31	14020						
H568615	208	273	0.70	0.024	0.75	13360						
H568616	208	273	0.49	0.023	0.41	13320						
H568617	208	273	0.67	0.049	0.48	13240						
H568618	208	273	1.14	0.034	0.55	13600						
H568619	208	273	0.62	0.025	0.31	13200						
H568620	208	273	0.37	0.026	0.24	12720						
H568621	208	273	0.60	0.013	0.45	12900						
H568622	208	273	0.72	0.021	0.38	13660						
H568623	208	273	0.63	0.013	0.45	13400						
H568624	208	273	0.52	0.007	0.31	14540						
H568625	208	273	0.38	0.012	0.27	14060						
H568626	208	273	0.31	0.010	0.24	14980						
H568627	208	273	0.39	0.014	0.31	14320						
H568628	208	273	0.58	0.036	0.51	13200						
H568629	208	273	0.37	0.020	0.24	14260						
H568630	208	273	0.40	0.007	0.17	13300						
H568631	208	273	0.37	0.021	0.17	12600						
H568632	208	273	0.37	0.007	0.21	12840						
H568633	208	273	0.62	0.021	0.31	13120						
H568634	208	273	0.49	0.007	0.24	14120						
H568635	208	273	0.35	0.019	0.10	13280						
H568636	208	273	0.27	0.009	0.10	13700						

CERTIFICATION: Chrisfe

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315594
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315594

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568637	208	273	0.23	0.014	0.07	12680						
H568638	208	273	0.44	0.010	0.21	13860						
H568639	208	273	0.37	0.022	0.14	13000						
H568640	208	273	0.33	0.022	0.21	12960						
H568641	208	273	0.14	0.022	0.10	12040						
H568642	208	273	0.26	0.011	0.14	13420						
H568643	208	273	0.41	0.027	0.24	13200						
H568644	208	273	0.48	0.010	0.34	15100						
H568645	208	273	0.24	0.015	0.14	13100						
H568646	208	273	0.35	0.015	0.17	12560						
H568647	208	276	0.54	0.020	0.27	9320						
H568648	208	273	0.51	0.039	0.31	12900						
H568649	208	270	0.41	0.025	0.34	16640						
H568650	208	273	0.43	0.035	0.24	13940						
H568651	208	273	0.88	0.063	0.34	12780						
H568652	208	273	0.90	0.071	0.72	12960						
H568653	208	273	1.31	0.155	0.84	13940						
H568654	208	273	0.27	0.015	0.11	13760						
H568655	208	273	0.26	0.007	0.15	13000						
H568656	208	273	0.35	0.005	2.11	12680						
H568657	208	273	0.39	0.012	0.17	13660						
H568658	208	273	0.40	0.005	0.94	13040						
H568659	208	273	0.69	0.019	0.45	13540						
H568660	208	273	0.83	0.044	0.55	12640						
H568661	208	273	0.87	0.075	0.45	12740						
H568662	208	273	0.88	0.060	0.51	12480						
H568663	208	273	0.96	0.100	0.58	13700						
H568664	208	273	0.71	0.045	0.55	12720						
H568665	208	273	0.33	0.066	0.24	12600						
H568666	208	273	0.49	0.043	0.31	13360						
H568667	208	273	0.75	0.056	0.72	14080						
H568668	208	273	0.65	0.420	0.55	13440						
H568669	208	273	0.63	0.066	0.41	13140						
H568670	208	273	0.55	0.026	0.82	13080						
H568671	208	273	0.64	0.018	0.58	13980						
H568672	208	273	0.67	0.015	0.48	14900						
H568673	208	273	0.63	0.013	0.38	13360						
H568674	208	273	0.63	0.011	0.62	13320						
H568675	208	273	0.33	0.013	0.34	12780						
H568676	208	273	0.23	0.012	0.17	13060						

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CERTIFICATE OF ANALYSIS A9315594

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H568677	208	273	0.07	0.004	0.07	14460						
H568678	208	273	0.11	0.005	0.10	12120						
H568679	208	273	0.07	0.006	0.07	13240						
H568680	208	273	0.16	0.004	0.10	12800						
H568681	208	273	0.12	0.058	0.10	12980						
H568682	208	273	0.12	0.005	0.07	13980						
H568683	208	273	0.15	0.010	0.10	13720						
H568684	208	273	0.09	0.016	0.07	12840						
H568685	208	273	0.21	0.036	0.34	12740						
H568686	208	273	0.15	0.003	0.14	13580						
H568687	208	273	0.27	0.008	0.24	12940						
H568688	208	273	0.12	0.002	0.14	13260						
H568689	208	273	0.04	0.003	0.07	14120						
H568690	208	273	0.15	0.005	0.14	14160						
H568691	208	273	0.12	0.009	0.14	13360						
H568692	208	273	0.08	0.007	0.10	11880						
H568693	208	273	0.08	0.002	0.14	13660						
H568694	208	273	0.06	< 0.001	0.10	12180						
H568695	208	273	0.14	0.003	0.21	12580						
H568696	208	273	0.13	0.005	0.10	13150						

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 93/156
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Certificate Date: 22-JUN-93
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CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568437	299	229	7.8	0.81	132	220	< 0.5	16	0.02	< 0.5	1	143	38	3.08	< 10	< 1	1.04	20	0.07	15	51
H568438	299	229	3.6	0.53	174	110	< 0.5	24	0.02	< 0.5	< 1	117	69	5.09	< 10	< 1	1.33	10	0.04	15	45
H568439	299	229	1.2	0.55	154	130	< 0.5	8	0.01	< 0.5	1	86	88	5.08	< 10	< 1	1.32	30	0.03	5	39
H568440	299	229	2.2	0.73	56	210	< 0.5	8	0.02	< 0.5	< 1	124	100	3.19	< 10	< 1	0.98	40	0.05	15	48
H568441	299	229	1.6	0.51	82	140	< 0.5	8	0.01	< 0.5	1	98	99	4.43	< 10	< 1	1.18	20	0.03	10	55
H568442	299	229	3.2	0.59	100	180	< 0.5	12	0.01	< 0.5	1	125	57	4.05	< 10	< 1	1.13	20	0.04	10	32
H568443	299	229	6.2	0.54	84	210	< 0.5	12	0.01	< 0.5	1	102	50	3.07	< 10	< 1	0.90	10	0.03	10	26
H568444	299	229	1.8	0.59	52	270	< 0.5	< 2	0.01	< 0.5	1	176	48	2.99	< 10	< 1	0.84	20	0.03	15	84
H568445	299	229	2.0	0.52	40	190	< 0.5	8	0.02	< 0.5	< 1	113	67	3.21	< 10	< 1	0.96	20	0.04	10	58
H568446	299	229	1.2	0.74	38	230	< 0.5	4	0.01	< 0.5	3	125	64	3.35	< 10	< 1	1.04	10	0.04	10	87
H568447	299	229	2.8	0.78	68	230	< 0.5	4	0.02	< 0.5	2	114	80	3.47	< 10	< 1	1.05	30	0.06	10	60
H568448	299	229	7.4	0.93	96	110	< 0.5	20	0.02	< 0.5	1	146	101	3.96	10	< 1	1.24	30	0.08	15	38
H568449	299	229	7.8	0.87	72	180	< 0.5	20	0.02	< 0.5	< 1	133	48	3.53	< 10	< 1	1.12	30	0.07	15	43
H568450	299	229	0.6	0.83	24	160	< 0.5	4	0.02	0.5	1	142	90	3.06	< 10	< 1	0.97	20	0.06	10	78
H568451	299	229	1.4	1.12	48	90	< 0.5	8	0.02	< 0.5	< 1	126	196	3.79	10	< 1	1.11	20	0.07	10	79
H568452	299	229	1.4	0.93	28	190	< 0.5	4	0.01	< 0.5	2	120	164	3.22	10	< 1	0.96	30	0.06	10	28
H568453	299	229	1.6	0.80	42	230	< 0.5	2	0.02	< 0.5	1	118	185	3.53	10	< 1	0.99	30	0.06	10	169
H568454	299	229	1.2	0.98	56	240	< 0.5	4	0.02	< 0.5	1	137	174	3.23	10	< 1	0.94	30	0.06	10	184
H568455	299	229	2.2	0.93	50	200	< 0.5	2	0.02	< 0.5	2	131	206	3.38	10	< 1	1.01	20	0.07	15	30
H568456	299	229	5.2	0.75	34	200	< 0.5	6	0.01	< 0.5	< 1	121	132	3.40	10	1	0.94	30	0.06	10	58
H568457	299	229	5.2	0.88	74	260	< 0.5	6	0.02	< 0.5	< 1	86	85	2.88	10	< 1	0.93	30	0.07	15	89
H568458	299	229	3.2	1.06	44	220	< 0.5	4	0.02	< 0.5	1	89	119	3.05	10	< 1	0.94	20	0.07	15	54
H568459	299	229	4.2	1.05	46	240	< 0.5	4	0.02	< 0.5	< 1	79	115	2.98	10	< 1	0.93	10	0.07	15	110
H568460	299	229	1.8	1.06	14	410	< 0.5	< 2	0.01	0.5	2	75	107	2.10	10	< 1	0.71	20	0.07	15	70
H568461	299	229	3.4	0.97	28	310	< 0.5	6	0.02	< 0.5	3	76	157	2.62	< 10	< 1	0.82	20	0.07	15	119
H568462	299	229	2.6	1.17	40	240	< 0.5	< 2	0.02	< 0.5	9	79	256	2.64	< 10	< 1	0.85	20	0.10	30	116
H568463	299	229	3.0	0.84	16	140	< 0.5	< 2	0.01	< 0.5	21	76	312	3.72	< 10	< 1	0.92	20	0.07	40	76
H568464	299	229	3.8	1.42	32	80	0.5	< 2	0.15	< 0.5	29	83	1555	3.54	< 10	< 1	0.79	20	0.18	125	15
H568465	299	229	0.6	1.70	< 2	110	0.5	10	0.29	0.5	37	73	1510	3.50	< 10	< 1	0.72	10	0.43	145	27
H568466	299	229	6.0	1.53	46	110	0.5	< 2	0.15	0.5	35	84	1790	3.67	< 10	< 1	0.61	20	0.26	115	29
H568467	299	229	5.0	1.38	30	90	0.5	< 2	0.08	0.5	42	83	1980	3.60	< 10	< 1	0.49	10	0.11	65	40
H568468	299	229	1.8	1.38	8	100	0.5	4	0.04	0.5	31	83	1210	2.66	< 10	< 1	0.40	20	0.14	60	36
H568469	299	229	2.4	0.95	58	110	0.5	< 2	0.03	< 0.5	29	84	607	2.90	< 10	< 1	0.47	10	0.08	30	60
H568470	299	229	1.4	1.40	52	140	0.5	6	0.06	< 0.5	29	66	1965	2.31	< 10	< 1	0.50	20	0.18	85	95
H568471	299	229	1.6	1.08	54	90	0.5	< 2	0.09	2.5	40	38	2250	3.09	< 10	< 1	0.34	10	0.06	50	64
H568472	299	229	1.4	1.70	6	90	0.5	6	0.14	0.5	46	58	3910	3.19	< 10	< 1	0.52	20	0.11	80	77
H568473	299	229	3.2	1.78	12	60	0.5	8	0.11	6.0	40	60	3040	3.31	< 10	< 1	0.56	10	0.14	40	80
H568474	299	229	1.8	2.06	< 2	80	1.0	6	0.18	1.0	51	48	2290	3.64	< 10	< 1	0.56	10	0.13	110	26
H568475	299	229	2.0	1.85	< 2	200	0.5	< 2	0.27	3.5	45	79	1820	3.07	10	< 1	0.55	20	0.39	510	96
H568476	299	229	4.0	1.35	46	100	0.5	6	0.09	< 0.5	60	67	5010	2.95	< 10	< 1	0.44	30	0.11	70	118

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568437	299	229	0.02	1	250	350	48	2	22	< 0.01	< 10	< 10	14	< 10	14
H568438	299	229	0.02	2	320	276	20	2	15	< 0.01	< 10	< 10	15	< 10	16
H568439	299	229	0.02	3	370	126	6	3	17	< 0.01	< 10	< 10	18	< 10	8
H568440	299	229	0.02	1	330	68	4	3	17	< 0.01	< 10	< 10	22	< 10	8
H568441	299	229	0.02	2	360	66	4	2	17	0.01	< 10	< 10	24	< 10	8
H568442	299	229	0.02	2	290	198	14	2	15	< 0.01	< 10	< 10	21	< 10	10
H568443	299	229	0.01	1	290	1100	20	1	13	< 0.01	< 10	< 10	13	< 10	12
H568444	299	229	0.01	2	260	240	< 2	2	14	< 0.01	< 10	< 10	17	< 10	8
H568445	299	229	0.02	1	270	96	2	2	14	0.01	< 10	< 10	19	< 10	6
H568446	299	229	0.02	3	260	78	2	2	24	< 0.01	< 10	< 10	18	< 10	4
H568447	299	229	0.03	1	350	114	8	2	28	< 0.01	< 10	< 10	16	< 10	8
H568448	299	229	0.02	1	490	410	4	2	33	< 0.01	< 10	< 10	21	< 10	18
H568449	299	229	0.03	2	360	440	6	1	24	< 0.01	< 10	< 10	13	10	8
H568450	299	229	0.02	2	380	36	< 2	2	22	< 0.01	< 10	< 10	16	10	6
H568451	299	229	0.03	2	560	68	< 2	4	27	< 0.01	< 10	< 10	24	< 10	8
H568452	299	229	0.02	1	470	44	< 2	3	24	0.01	< 10	< 10	20	< 10	6
H568453	299	229	0.02	1	690	102	< 2	2	41	< 0.01	< 10	< 10	16	< 10	6
H568454	299	229	0.03	3	590	68	2	2	27	< 0.01	< 10	< 10	17	< 10	4
H568455	299	229	0.02	1	490	372	2	3	25	< 0.01	< 10	< 10	19	< 10	12
H568456	299	229	0.03	2	340	180	2	2	22	< 0.01	< 10	< 10	15	< 10	8
H568457	299	229	0.02	3	310	248	2	2	30	< 0.01	< 10	< 10	15	< 10	12
H568458	299	229	0.03	< 1	320	92	2	3	21	< 0.01	< 10	< 10	18	< 10	6
H568459	299	229	0.02	< 1	380	122	< 2	3	23	< 0.01	< 10	< 10	17	< 10	6
H568460	299	229	0.02	1	350	80	< 2	3	22	< 0.01	< 10	< 10	16	< 10	6
H568461	299	229	0.02	2	370	164	2	2	28	< 0.01	< 10	< 10	15	< 10	8
H568462	299	229	0.02	1	230	30	2	3	29	< 0.01	< 10	< 10	24	< 10	10
H568463	299	229	0.02	3	400	106	< 2	2	21	< 0.01	< 10	< 10	16	< 10	28
H568464	299	229	0.04	3	440	282	4	4	28	< 0.01	< 10	< 10	22	< 10	52
H568465	299	229	0.02	5	410	30	2	6	14	0.01	< 10	< 10	35	< 10	64
H568466	299	229	0.03	3	550	1050	4	4	21	< 0.01	< 10	< 10	24	< 10	130
H568467	299	229	0.01	6	670	394	8	4	13	< 0.01	< 10	< 10	22	< 10	92
H568468	299	229	0.01	5	610	40	< 2	4	22	< 0.01	< 10	10	24	< 10	38
H568469	299	229	0.01	4	610	34	4	3	35	< 0.01	< 10	< 10	19	< 10	24
H568470	299	229	0.01	5	800	122	< 2	5	41	< 0.01	< 10	< 10	28	< 10	34
H568471	299	229	0.01	12	710	176	6	3	19	< 0.01	< 10	< 10	19	< 10	106
H568472	299	229	0.01	15	810	44	2	2	25	< 0.01	< 10	10	16	< 10	100
H568473	299	229	0.01	15	740	212	< 2	3	18	< 0.01	< 10	10	18	< 10	600
H568474	299	229	0.01	21	830	52	< 2	3	10	< 0.01	< 10	10	23	< 10	88
H568475	299	229	0.01	11	450	52	< 2	5	9	0.01	< 10	10	35	< 10	268
H568476	299	229	0.01	9	700	22	4	6	19	< 0.01	< 10	10	18	< 10	50

CERTIFICATION: Stewart Bachler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568477	299	229	2.0	2.67	26	70	< 0.5	6	0.10	< 0.5	46	85	4890	2.32	< 10	< 1	0.47	20	0.11	15	126
H568478	299	229	4.0	1.79	20	60	< 0.5	4	0.28	1.0	36	152	2770	3.51	< 10	< 1	0.65	20	0.22	270	112
H568479	299	229	2.2	2.15	22	220	< 0.5	2	0.29	1.5	47	105	4180	3.15	< 10	< 1	0.67	20	0.55	375	104
H568480	299	229	1.4	1.29	12	160	< 0.5	2	0.65	2.0	36	85	2120	3.13	< 10	< 1	0.51	20	0.66	610	27
H568481	299	229	1.8	1.95	2	100	< 0.5	< 2	0.24	2.5	37	117	3330	3.56	< 10	< 1	0.44	20	0.21	230	17
H568482	299	229	5.8	1.10	18	20	< 0.5	< 2	0.26	1.0	51	118	2060	5.53	10	1	0.50	20	0.20	400	57
H568483	299	229	2.6	1.58	< 2	60	< 0.5	6	0.49	< 0.5	48	124	2130	2.85	10	< 1	0.67	30	0.48	390	29
H568484	299	229	1.6	1.82	4	90	< 0.5	< 2	0.15	< 0.5	42	142	2530	2.29	< 10	1	0.48	20	0.21	245	56
H568485	299	229	8.0	1.35	30	110	< 0.5	8	0.82	4.5	38	121	2180	3.93	10	< 1	0.61	20	0.43	580	169
H568486	299	229	10.0	1.37	14	90	< 0.5	< 2	0.44	11.0	31	109	2500	3.24	< 10	< 1	0.61	10	0.37	360	58
H568487	299	229	16.4	1.75	28	20	< 0.5	12	0.46	3.5	41	117	2950	4.81	10	< 1	0.69	20	0.50	550	36
H568488	299	229	2.2	1.64	2	170	< 0.5	2	0.99	< 0.5	27	111	1955	2.69	10	< 1	0.58	20	0.73	440	61
H568489	299	229	2.0	2.08	4	100	< 0.5	< 2	0.37	< 0.5	50	73	3380	3.80	10	< 1	0.58	10	0.49	355	12
H568490	299	229	2.6	1.51	4	120	< 0.5	2	0.85	0.5	37	151	2220	3.20	10	< 1	0.56	20	0.50	390	30
H568491	299	229	4.4	1.74	16	120	< 0.5	10	0.89	< 0.5	26	96	2520	3.23	10	1	0.59	10	0.54	500	52
H568492	299	229	2.4	2.30	2	90	< 0.5	8	0.44	0.5	48	81	2840	3.57	10	< 1	0.58	20	0.24	685	66
H568493	299	229	2.2	1.81	< 2	140	< 0.5	4	0.44	0.5	28	59	2400	3.76	10	< 1	0.61	10	0.38	740	77
H568494	299	229	1.6	1.57	< 2	80	< 0.5	< 2	0.71	4.0	31	70	1970	3.26	10	< 1	0.43	10	0.31	555	36
H568495	299	229	1.4	1.26	< 2	90	< 0.5	< 2	1.15	< 0.5	30	61	1440	3.30	10	< 1	0.49	10	0.52	630	16
H568496	299	229	5.0	1.06	< 2	80	< 0.5	6	0.78	0.5	38	80	2930	3.74	< 10	< 1	0.52	10	0.42	390	23
H568497	299	229	2.2	1.20	< 2	60	< 0.5	< 2	1.10	1.0	35	59	1320	3.83	10	< 1	0.46	10	0.51	550	14
H568498	299	229	3.8	1.11	88	50	< 0.5	8	0.87	1.5	34	77	2550	4.53	10	< 1	0.51	10	0.40	355	120
H568499	299	229	4.2	1.44	2	80	< 0.5	< 2	1.13	1.0	32	55	2720	3.08	10	< 1	0.62	10	0.58	570	106
H568500	299	229	4.2	1.96	10	120	< 0.5	< 2	0.79	0.5	38	82	2250	2.87	10	< 1	0.65	20	0.64	680	68
H568501	299	229	3.4	0.76	8	80	< 0.5	6	0.70	0.5	35	88	2730	2.08	< 10	1	0.35	20	0.30	470	73
H568502	299	229	19.0	1.06	752	40	< 0.5	18	0.58	4.5	33	79	4670	5.46	< 10	< 1	0.44	10	0.26	410	169
H568503	299	229	6.4	1.05	8	90	< 0.5	4	0.51	6.5	25	68	2850	1.68	< 10	< 1	0.48	10	0.42	290	292
H568504	299	229	2.6	1.29	30	130	< 0.5	2	0.91	< 0.5	31	112	1725	2.61	10	< 1	0.60	20	0.63	515	57
H568505	299	229	1.4	1.67	18	70	< 0.5	2	0.96	< 0.5	38	83	1570	2.63	10	< 1	0.59	20	0.83	385	25
H568506	299	229	3.2	1.60	< 2	60	< 0.5	10	1.22	< 0.5	37	120	2950	2.48	10	< 1	0.71	10	0.76	370	66
H568507	299	229	1.2	1.64	< 2	90	< 0.5	< 2	1.19	0.5	32	91	1765	2.52	10	2	0.63	30	0.89	365	140
H568508	299	229	1.0	1.51	< 2	110	< 0.5	12	1.43	< 0.5	35	90	1635	2.62	10	< 1	0.57	20	0.85	235	97
H568509	299	229	1.2	1.83	8	170	< 0.5	< 2	1.56	< 0.5	27	94	1475	2.54	10	< 1	0.68	30	0.96	260	74
H568510	299	229	3.0	1.38	166	60	< 0.5	6	1.22	1.0	24	112	1470	3.96	10	< 1	0.66	20	0.77	440	22
H568511	299	229	1.8	1.49	6	90	< 0.5	8	1.12	< 0.5	26	84	1655	3.15	10	< 1	0.70	20	0.75	275	29
H568512	299	229	1.6	1.37	< 2	110	< 0.5	2	0.97	< 0.5	28	120	2860	2.53	10	< 1	0.68	20	0.63	135	55
H568513	299	229	1.6	1.18	8	130	< 0.5	< 2	1.08	< 0.5	25	87	1865	2.47	10	< 1	0.55	20	0.61	125	164
H568514	299	229	1.8	1.12	< 2	120	< 0.5	6	1.44	< 0.5	31	105	2060	2.56	10	< 1	0.53	20	0.69	145	47
H568515	299	229	2.8	1.43	< 2	120	< 0.5	< 2	1.36	< 0.5	20	99	2250	2.60	10	< 1	0.71	10	0.94	155	28
H568516	299	229	1.4	1.51	4	200	< 0.5	< 2	1.39	< 0.5	20	134	1275	2.27	10	< 1	0.71	40	0.97	155	50

CERTIFICATION: David Pitcher

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315595
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R568477	299	229	0.01	13	1300	36	< 2	7	87	< 0.01	< 10	20	29	< 10	46
R568478	299	229	0.01	8	530	46	6	3	14	< 0.01	< 10	10	21	< 10	108
R568479	299	229	0.02	6	550	2	< 2	6	13	0.02	< 10	10	43	< 10	144
R568480	299	229	0.01	6	410	50	< 2	5	11	0.01	< 10	10	34	< 10	152
R568481	299	229	0.01	8	650	36	< 2	6	16	< 0.01	< 10	10	36	< 10	202
R568482	299	229	0.01	7	480	30	26	3	9	< 0.01	< 10	< 10	20	< 10	102
R568483	299	229	0.02	8	390	12	4	5	17	0.01	< 10	10	37	10	76
R568484	299	229	0.01	7	520	8	4	7	10	< 0.01	< 10	< 10	40	< 10	66
R568485	299	229	0.01	5	510	72	38	4	15	< 0.01	< 10	10	24	10	348
R568486	299	229	0.01	7	550	28	62	7	14	< 0.01	< 10	< 10	32	< 10	534
R568487	299	229	0.01	8	480	34	112	6	13	< 0.01	< 10	< 10	36	< 10	182
R568488	299	229	0.01	6	420	4	< 2	6	11	0.01	< 10	20	37	10	84
R568489	299	229	0.01	7	750	16	< 2	7	9	< 0.01	< 10	10	41	10	76
R568490	299	229	0.01	8	550	32	4	6	17	< 0.01	< 10	10	30	10	68
R568491	299	229	0.01	9	620	18	2	5	13	< 0.01	< 10	10	33	< 10	84
R568492	299	229	0.01	18	850	28	< 2	5	11	< 0.01	< 10	10	32	< 10	108
R568493	299	229	0.01	17	690	12	6	3	14	0.01	< 10	< 10	30	< 10	88
R568494	299	229	0.01	13	730	116	< 2	3	16	< 0.01	< 10	< 10	24	< 10	298
R568495	299	229	0.01	15	630	12	< 2	2	19	< 0.01	< 10	< 10	19	< 10	70
R568496	299	229	0.01	15	590	24	< 2	2	18	< 0.01	< 10	< 10	15	< 10	50
R568497	299	229	0.01	13	620	14	4	2	18	< 0.01	< 10	< 10	18	< 10	62
R568498	299	229	0.01	13	710	50	16	3	15	< 0.01	< 10	10	17	< 10	88
R568499	299	229	0.01	14	700	24	2	4	22	< 0.01	< 10	< 10	26	< 10	110
R568500	299	229	0.01	13	670	14	6	5	18	0.01	< 10	10	36	< 10	176
R568501	299	229	0.01	6	370	< 2	4	2	16	< 0.01	< 10	10	14	< 10	122
R568502	299	229	0.01	7	720	96	50	2	17	< 0.01	< 10	< 10	14	< 10	332
R568503	299	229	0.01	6	410	58	< 2	6	15	0.01	< 10	< 10	36	< 10	624
R568504	299	229	0.01	6	450	22	6	6	15	< 0.01	< 10	10	35	< 10	88
R568505	299	229	0.03	6	460	12	2	6	67	0.02	< 10	10	43	< 10	98
R568506	299	229	0.03	6	420	< 2	2	6	45	0.02	< 10	10	45	10	52
R568507	299	229	0.03	6	470	12	< 2	7	32	0.02	< 10	10	53	10	42
R568508	299	229	0.03	3	470	2	2	5	39	0.01	< 10	< 10	38	10	24
R568509	299	229	0.03	3	500	2	< 2	7	62	0.02	< 10	10	48	10	30
R568510	299	229	0.03	5	510	22	14	6	30	0.01	< 10	< 10	38	10	76
R568511	299	229	0.03	3	480	12	< 2	6	26	0.02	< 10	< 10	41	10	40
R568512	299	229	0.03	4	390	< 2	< 2	4	22	0.02	< 10	< 10	37	10	22
R568513	299	229	0.03	4	380	6	2	4	35	0.01	< 10	10	32	< 10	20
R568514	299	229	0.02	6	440	8	6	4	30	< 0.01	< 10	< 10	28	10	26
R568515	299	229	0.03	7	500	2	< 2	6	41	0.02	< 10	< 10	42	10	34
R568516	299	229	0.04	5	440	6	2	7	51	0.02	< 10	< 10	50	10	30

CERTIFICATION: Ian R Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page er :3-A
Total s :7
Certificate Date: 22-JUN-93
Invoice No. :I9315595
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R568517	299	229	1.6	1.75	< 2	120	< 0.5	10	1.45	< 0.5	33	94	1380	3.12	10	< 1	0.84	20	1.12	160	15
R568518	299	229	1.6	1.42	< 2	220	< 0.5	2	1.36	0.5	25	104	2300	2.12	10	< 1	0.67	30	0.93	150	49
R568519	299	229	1.4	1.54	< 2	160	< 0.5	< 2	1.39	0.5	26	114	1500	2.69	10	< 1	0.73	20	0.96	130	42
R568520	299	229	1.8	1.67	< 2	150	< 0.5	6	1.54	< 0.5	28	115	1945	2.99	10	< 1	0.78	20	0.98	135	107
R568521	299	229	2.0	1.66	< 2	100	0.5	2	1.71	< 0.5	31	106	1995	2.81	10	< 1	0.69	20	1.01	145	41
R568522	299	229	1.6	1.42	14	80	0.5	4	1.41	< 0.5	24	87	1565	2.61	10	< 1	0.63	30	1.01	170	25
R568523	299	229	2.2	1.28	2	130	< 0.5	< 2	1.24	< 0.5	19	107	2210	2.19	10	< 1	0.54	30	0.66	170	175
R568524	299	229	2.2	1.18	4	150	< 0.5	< 2	1.57	< 0.5	20	118	2410	1.53	10	< 1	0.52	20	0.55	115	194
R568525	299	229	2.8	1.40	< 2	130	< 0.5	6	1.72	< 0.5	41	140	3200	2.72	10	1	0.62	20	0.64	145	136
R568526	299	229	1.4	1.50	< 2	100	0.5	2	1.40	0.5	25	123	1445	2.80	10	< 1	0.73	20	0.70	140	36
R568527	299	229	1.8	1.55	4	150	0.5	< 2	1.56	< 0.5	20	125	1750	1.73	10	< 1	0.75	20	0.83	145	110
R568528	299	229	1.6	1.71	12	200	0.5	6	1.16	< 0.5	24	116	1690	2.29	10	< 1	0.82	30	0.97	195	208
R568529	299	229	3.0	1.15	18	30	< 0.5	8	1.06	0.5	36	115	3260	5.61	10	< 1	0.64	< 10	0.60	145	169
R568530	299	229	2.2	1.32	94	190	< 0.5	< 2	1.13	< 0.5	21	116	2270	1.80	10	< 1	0.55	20	0.68	265	153
R568531	299	229	2.8	1.45	6	140	< 0.5	6	1.80	< 0.5	25	129	3110	2.16	10	< 1	0.60	20	0.80	170	105
R568532	299	229	2.6	1.00	4	110	< 0.5	6	1.60	0.5	25	134	2660	2.91	10	< 1	0.49	20	0.53	155	179
R568533	299	229	3.2	1.36	< 2	130	< 0.5	10	1.35	< 0.5	31	124	3510	3.04	10	< 1	0.54	30	0.67	255	258
R568534	299	229	2.2	0.93	6	100	< 0.5	< 2	1.43	< 0.5	20	118	2220	2.07	10	< 1	0.42	30	0.53	290	408
R568535	299	229	2.0	1.65	4	80	< 0.5	< 2	1.37	0.5	25	99	2030	2.54	10	< 1	0.64	30	0.91	225	69
R568536	299	229	2.0	1.09	< 2	60	< 0.5	< 2	1.82	0.5	29	130	2030	2.11	10	< 1	0.33	30	0.63	395	407
R568537	299	229	2.8	1.31	8	60	< 0.5	6	1.40	0.5	19	116	2930	2.18	10	1	0.61	10	0.74	175	92
R568538	299	229	3.6	1.30	102	80	< 0.5	14	1.42	1.0	24	110	2520	2.56	10	< 1	0.66	20	0.77	450	151
R568539	299	229	1.8	1.34	4	130	< 0.5	< 2	2.03	< 0.5	18	127	2330	2.26	10	< 1	0.65	30	0.94	195	273
R568540	299	229	1.4	1.37	< 2	120	< 0.5	< 2	2.12	< 0.5	21	141	2000	2.10	10	< 1	0.61	30	0.88	145	450
R568541	299	229	1.2	1.60	28	80	< 0.5	< 2	1.76	< 0.5	21	128	2340	2.11	10	< 1	0.83	20	1.06	125	223
R568542	299	229	1.2	1.59	< 2	90	< 0.5	< 2	1.56	0.5	24	150	1910	2.34	10	< 1	0.77	10	1.18	100	109
R568543	299	229	1.4	1.61	< 2	100	< 0.5	4	1.65	< 0.5	23	137	1810	2.53	10	1	0.76	20	1.10	115	154
R568544	299	229	1.6	1.32	< 2	40	< 0.5	14	1.61	0.5	21	133	2220	3.32	10	< 1	0.68	10	0.84	105	189
R568545	299	229	1.8	1.53	< 2	80	< 0.5	8	1.14	< 0.5	22	130	2790	2.78	10	< 1	0.87	30	0.93	120	340
R568546	299	229	1.4	1.31	4	180	< 0.5	< 2	1.71	< 0.5	22	170	2150	2.03	10	< 1	0.62	20	0.80	145	180
R568547	299	229	1.6	1.32	190	70	< 0.5	< 2	1.71	2.0	25	136	2140	3.34	10	< 1	0.63	20	0.78	665	129
R568548	299	229	0.8	1.09	4	120	< 0.5	4	1.04	< 0.5	18	136	1235	2.35	10	< 1	0.56	20	0.62	80	110
R568549	299	229	1.2	1.04	12	220	< 0.5	6	1.05	< 0.5	18	136	1710	1.46	< 10	< 1	0.52	20	0.44	75	326
R568550	299	229	2.2	0.79	12	110	< 0.5	8	1.27	< 0.5	25	122	4370	2.52	< 10	< 1	0.44	10	0.36	140	328
R568551	299	229	2.0	0.75	14	180	< 0.5	2	1.12	< 0.5	22	96	3450	1.75	< 10	< 1	0.40	10	0.42	110	290
R568552	299	229	2.4	0.81	24	30	< 0.5	6	1.28	< 0.5	17	131	3790	2.08	< 10	< 1	0.38	20	0.47	205	282
R568553	299	229	6.0	0.83	236	10	< 0.5	< 2	0.90	0.5	22	115	>10000	3.56	< 10	< 1	0.44	< 10	0.45	355	436
R568554	299	229	2.8	1.01	90	20	< 0.5	10	1.46	< 0.5	29	142	3740	2.90	< 10	< 1	0.42	< 10	0.57	480	203
R568555	299	229	2.0	1.19	78	40	< 0.5	6	1.22	< 0.5	33	127	2670	2.87	10	< 1	0.53	10	0.71	260	189
R568556	299	229	1.6	1.65	< 2	80	0.5	8	1.42	< 0.5	39	111	2150	2.59	10	< 1	0.76	20	1.04	160	101

CERTIFICATION: Stewart Bradley

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Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. :19315595
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CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R568517	299	229	0.02	4	480	14	2	8	47	0.03	< 10	< 10	53	10	34
R568518	299	229	0.03	4	370	< 2	< 2	7	65	0.03	< 10	< 10	53	10	26
R568519	299	229	0.04	4	390	12	< 2	6	85	0.02	< 10	< 10	49	10	26
R568520	299	229	0.02	6	460	20	< 2	5	44	0.01	< 10	10	42	10	28
R568521	299	229	0.02	4	520	8	< 2	7	42	0.01	< 10	10	45	10	30
R568522	299	229	0.03	4	510	< 2	< 2	7	53	0.02	< 10	< 10	52	10	32
R568523	299	229	0.02	5	400	18	4	4	26	< 0.01	< 10	< 10	31	10	22
R568524	299	229	0.01	4	340	6	4	3	20	< 0.01	< 10	10	22	10	22
R568525	299	229	0.01	7	610	6	2	4	22	< 0.01	< 10	10	30	10	30
R568526	299	229	0.03	4	480	2	< 2	6	42	0.01	< 10	< 10	43	10	26
R568527	299	229	0.02	5	450	< 2	4	6	34	0.01	< 10	< 10	42	10	20
R568528	299	229	0.03	7	480	8	< 2	8	46	0.02	< 10	< 10	55	10	30
R568529	299	229	0.01	6	450	24	4	6	18	< 0.01	< 10	< 10	34	10	38
R568530	299	229	0.02	3	410	14	2	4	42	< 0.01	< 10	10	31	10	40
R568531	299	229	0.01	4	410	6	2	5	29	< 0.01	< 10	< 10	35	10	28
R568532	299	229	0.01	6	560	22	4	3	22	< 0.01	< 10	< 10	21	10	36
R568533	299	229	0.01	7	460	18	2	6	18	< 0.01	< 10	< 10	37	10	40
R568534	299	229	0.01	4	390	18	2	4	21	< 0.01	< 10	< 10	22	< 10	30
R568535	299	229	0.02	6	480	16	6	7	47	0.02	< 10	10	46	10	38
R568536	299	229	0.01	6	1200	6	2	6	19	< 0.01	< 10	< 10	33	10	28
R568537	299	229	0.02	6	460	8	< 2	4	62	0.01	< 10	10	30	10	42
R568538	299	229	0.02	4	440	32	6	5	63	0.02	< 10	< 10	36	10	82
R568539	299	229	0.04	6	440	4	2	6	75	0.03	< 10	< 10	47	10	28
R568540	299	229	0.04	2	510	< 2	4	6	57	0.03	< 10	< 10	48	10	18
R568541	299	229	0.05	6	430	4	< 2	8	79	0.07	< 10	< 10	64	10	26
R568542	299	229	0.07	4	470	8	< 2	8	75	0.09	< 10	< 10	74	10	20
R568543	299	229	0.05	4	460	< 2	2	7	93	0.04	< 10	< 10	54	10	22
R568544	299	229	0.04	5	430	4	< 2	6	108	0.03	< 10	< 10	44	10	22
R568545	299	229	0.04	7	500	8	2	7	48	0.04	< 10	< 10	54	10	24
R568546	299	229	0.03	7	590	12	6	4	56	0.01	< 10	10	33	10	24
R568547	299	229	0.02	6	470	38	2	5	40	0.01	< 10	10	36	10	96
R568548	299	229	0.04	3	490	16	4	4	50	0.01	< 10	< 10	29	< 10	18
R568549	299	229	0.02	5	380	< 2	2	3	32	< 0.01	< 10	< 10	20	< 10	16
R568550	299	229	0.01	7	220	4	4	2	14	< 0.01	< 10	< 10	16	10	24
R568551	299	229	0.01	6	320	4	2	3	19	< 0.01	< 10	< 10	18	10	18
R568552	299	229	0.01	7	370	14	4	1	18	< 0.01	< 10	10	10	10	38
R568553	299	229	0.01	12	450	16	12	3	21	< 0.01	< 10	10	20	20	52
R568554	299	229	0.01	7	700	18	2	2	35	< 0.01	< 10	10	16	10	36
R568555	299	229	0.01	7	400	< 2	4	4	30	< 0.01	< 10	10	29	< 10	38
R568556	299	229	0.03	5	500	< 2	2	8	63	0.04	< 10	10	54	10	24

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315595
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R568557	299	229	1.6	1.41	< 2	80	< 0.5	< 2	1.25	< 0.5	28	137	2120	2.71	10	< 1	0.69	30	0.79	125	170
R568558	299	229	1.4	1.18	< 2	30	< 0.5	4	1.55	< 0.5	25	123	2240	3.91	10	< 1	0.63	20	0.85	90	118
R568559	299	229	1.4	1.17	4	40	< 0.5	4	1.22	< 0.5	29	120	2500	3.22	10	< 1	0.62	10	0.74	75	218
R568560	299	229	0.8	1.05	6	180	< 0.5	8	1.31	< 0.5	25	97	1430	2.22	10	< 1	0.56	20	0.73	90	65
R568561	299	229	1.2	1.12	< 2	110	< 0.5	2	1.21	< 0.5	26	109	2110	2.73	10	< 1	0.64	20	0.87	125	70
R568562	299	229	1.2	1.19	< 2	150	< 0.5	< 2	1.08	< 0.5	27	76	1775	2.30	< 10	< 1	0.62	10	0.78	100	218
R568563	299	229	1.2	1.00	< 2	120	< 0.5	4	1.26	0.5	29	98	1715	2.55	< 10	< 1	0.56	10	0.69	135	150
R568564	299	229	2.4	0.99	2	90	< 0.5	< 2	1.34	< 0.5	25	88	4340	2.49	< 10	< 1	0.48	10	0.66	95	181
R568565	299	229	1.4	1.36	< 2	230	< 0.5	< 2	1.10	< 0.5	21	132	2430	1.89	10	< 1	0.72	10	0.76	130	81
R568566	299	229	2.0	1.26	54	70	< 0.5	4	0.87	< 0.5	26	108	1965	3.34	10	< 1	0.67	20	0.52	490	131
R568567	299	229	1.4	1.36	4	250	< 0.5	< 2	1.49	< 0.5	19	103	1555	1.79	10	< 1	0.63	30	0.77	180	242
R568568	299	229	1.6	1.53	< 2	230	< 0.5	< 2	1.22	< 0.5	26	88	2100	1.80	10	< 1	0.77	20	0.83	110	248
R568569	299	229	1.4	1.69	< 2	220	< 0.5	< 2	1.41	0.5	22	110	2040	2.32	10	< 1	0.70	30	0.91	110	203
R568570	299	229	1.2	1.52	< 2	150	< 0.5	8	1.14	0.5	24	101	1505	2.26	10	< 1	0.78	20	0.86	85	102
R568571	299	229	1.2	1.32	< 2	90	< 0.5	2	1.94	< 0.5	22	123	1865	2.13	10	< 1	0.73	20	0.95	90	150
R568572	299	229	1.2	1.35	< 2	100	< 0.5	< 2	1.38	< 0.5	24	103	1665	2.57	10	< 1	0.73	10	0.87	120	130
R568573	299	229	1.6	0.89	2	60	< 0.5	2	1.65	< 0.5	32	66	2280	3.03	10	< 1	0.52	10	0.71	100	170
R568574	299	229	1.6	0.77	6	100	< 0.5	6	1.38	< 0.5	31	56	2050	2.69	10	< 1	0.42	40	0.73	205	336
R568575	299	229	1.4	0.96	< 2	50	< 0.5	< 2	1.64	< 0.5	27	71	1990	2.59	10	< 1	0.54	30	0.86	115	211
R568576	299	229	1.4	1.07	< 2	60	< 0.5	< 2	0.89	< 0.5	34	102	2110	2.95	10	< 1	0.53	10	0.53	70	187
R568577	299	229	1.8	0.32	< 2	130	< 0.5	6	0.55	< 0.5	25	40	2630	1.97	< 10	< 1	0.21	< 10	0.19	55	425
R568578	299	229	2.6	0.73	8	20	< 0.5	6	0.72	< 0.5	21	79	2500	3.44	< 10	< 1	0.38	< 10	0.28	140	195
R568579	299	229	1.8	0.28	72	60	< 0.5	< 2	1.30	< 0.5	16	59	2290	2.69	< 10	< 1	0.17	< 10	0.38	145	528
R568580	299	229	1.4	0.76	< 2	10	< 0.5	8	1.00	1.0	21	103	1555	5.28	< 10	< 1	0.40	< 10	0.40	295	729
R568581	299	229	1.6	0.79	< 2	50	< 0.5	4	0.70	< 0.5	27	110	3020	2.22	< 10	< 1	0.41	10	0.35	170	283
R568582	299	229	1.6	0.78	2	40	< 0.5	6	0.75	< 0.5	32	77	2450	3.12	< 10	< 1	0.45	< 10	0.44	205	137
R568583	299	229	2.4	0.78	12	50	< 0.5	16	0.52	0.5	13	178	3550	2.33	< 10	< 1	0.43	< 10	0.20	155	298
R568584	299	229	2.4	0.84	182	10	< 0.5	6	0.74	2.0	17	115	2620	3.74	< 10	< 1	0.41	< 10	0.36	255	159
R568585	299	229	1.8	0.80	114	40	< 0.5	14	0.52	< 0.5	16	130	2820	2.31	< 10	< 1	0.38	10	0.25	220	119
R568586	299	229	3.0	0.71	518	20	< 0.5	22	0.70	0.5	20	106	3510	3.40	< 10	< 1	0.37	< 10	0.32	455	179
R568587	299	229	2.0	1.00	128	40	< 0.5	4	1.21	< 0.5	14	139	930	6.01	10	< 1	0.59	< 10	0.29	635	158
R568588	299	229	2.6	0.80	52	< 10	< 0.5	6	0.80	1.0	25	89	1815	8.29	10	< 1	0.42	< 10	0.26	285	277
R568589	299	229	2.2	0.99	18	20	< 0.5	6	1.92	< 0.5	21	129	3660	3.23	10	< 1	0.36	< 10	0.68	540	167
R568590	299	229	1.6	0.79	4	20	< 0.5	6	1.42	< 0.5	26	84	2100	4.23	10	< 1	0.42	10	0.38	390	282
R568591	299	229	1.0	0.76	4	60	< 0.5	8	0.97	< 0.5	20	103	1715	2.09	10	< 1	0.36	10	0.41	155	305
R568592	299	229	1.6	0.68	4	20	< 0.5	2	1.31	< 0.5	20	70	2470	4.25	10	< 1	0.33	< 10	0.57	220	476
R568593	299	229	2.2	0.46	12	20	< 0.5	12	0.82	0.5	28	69	3810	4.50	10	< 1	0.25	< 10	0.34	165	244
R568594	299	229	2.4	0.56	20	60	< 0.5	8	0.56	< 0.5	21	82	5200	2.70	10	< 1	0.33	20	0.26	90	197
R568595	299	229	2.4	0.62	24	60	< 0.5	16	0.52	< 0.5	28	99	5190	3.13	10	< 1	0.34	10	0.25	105	267
R568596	299	229	3.0	0.70	46	20	< 0.5	32	0.65	< 0.5	19	84	4780	4.36	10	< 1	0.35	< 10	0.28	165	277

CERTIFICATION: Ian Bradley

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Project : CASINO 93/156
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Page er :4-B
Total P s :7
Certificate Date: 22-JUN-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B568557	299	229	0.02	5	540	4	2	5	53	0.01	< 10	< 10	35	10	22
B568558	299	229	0.03	5	380	6	4	5	83	0.02	< 10	< 10	39	< 10	24
B568559	299	229	0.03	6	370	6	< 2	5	71	0.03	< 10	< 10	37	10	20
B568560	299	229	0.04	4	400	2	2	6	63	0.02	< 10	< 10	39	< 10	20
B568561	299	229	0.04	6	430	6	< 2	6	65	0.03	< 10	< 10	39	10	22
B568562	299	229	0.03	6	370	< 2	< 2	6	65	0.04	< 10	10	43	10	20
B568563	299	229	0.02	5	320	8	2	4	41	0.02	< 10	10	35	10	16
B568564	299	229	0.01	5	370	8	< 2	4	40	< 0.01	< 10	< 10	28	10	20
B568565	299	229	0.02	6	340	4	2	6	59	0.03	< 10	< 10	46	10	20
B568566	299	229	0.02	5	340	8	4	4	27	0.01	< 10	< 10	32	10	18
B568567	299	229	0.02	8	360	2	2	7	40	0.04	< 10	10	48	10	16
B568568	299	229	0.02	8	430	6	< 2	7	43	0.05	< 10	< 10	54	10	18
B568569	299	229	0.03	7	500	14	4	7	53	0.04	< 10	< 10	52	10	20
B568570	299	229	0.03	5	420	4	< 2	6	49	0.04	< 10	10	48	10	20
B568571	299	229	0.04	5	480	< 2	< 2	7	122	0.04	< 10	< 10	51	10	18
B568572	299	229	0.03	7	460	4	< 2	7	75	0.03	< 10	< 10	49	10	20
B568573	299	229	0.02	6	440	20	< 2	5	99	0.03	< 10	< 10	38	10	18
B568574	299	229	0.01	6	370	8	4	4	75	0.02	< 10	< 10	34	10	18
B568575	299	229	0.02	9	440	6	< 2	6	107	0.03	< 10	< 10	42	20	20
B568576	299	229	0.02	8	310	< 2	2	3	40	0.01	< 10	< 10	24	10	14
B568577	299	229	0.01	2	370	2	4	1	21	< 0.01	< 10	< 10	10	10	14
B568578	299	229	0.01	6	380	12	4	1	33	< 0.01	< 10	< 10	9	10	16
B568579	299	229	0.01	4	410	6	4	1	21	< 0.01	< 10	20	7	10	20
B568580	299	229	0.01	6	330	30	12	2	22	< 0.01	< 10	< 10	15	10	50
B568581	299	229	0.01	8	380	< 2	2	4	28	< 0.01	< 10	< 10	24	10	16
B568582	299	229	0.01	11	350	6	< 2	4	25	< 0.01	< 10	< 10	28	10	10
B568583	299	229	0.01	7	290	12	< 2	1	29	< 0.01	< 10	< 10	9	10	26
B568584	299	229	0.01	7	420	34	4	1	27	< 0.01	< 10	< 10	9	20	74
B568585	299	229	0.01	7	340	8	6	2	29	< 0.01	< 10	< 10	10	10	8
B568586	299	229	0.01	7	490	24	12	1	25	< 0.01	< 10	< 10	8	10	28
B568587	299	229	0.01	9	500	38	12	1	11	< 0.01	< 10	< 10	9	20	42
B568588	299	229	0.01	9	430	46	48	1	18	< 0.01	< 10	30	9	20	224
B568589	299	229	0.01	10	430	< 2	36	3	31	< 0.01	< 10	< 10	16	20	24
B568590	299	229	0.01	10	360	8	10	3	24	< 0.01	< 10	< 10	14	20	8
B568591	299	229	0.01	8	360	2	6	4	32	< 0.01	< 10	< 10	22	10	6
B568592	299	229	0.01	9	340	4	6	4	29	< 0.01	< 10	10	23	10	8
B568593	299	229	0.01	15	490	< 2	16	3	20	< 0.01	< 10	< 10	15	20	8
B568594	299	229	0.01	12	310	< 2	6	3	22	< 0.01	< 10	< 10	16	20	6
B568595	299	229	0.01	12	380	8	8	2	16	< 0.01	< 10	< 10	14	20	12
B568596	299	229	0.01	11	540	14	8	1	21	< 0.01	< 10	< 10	10	10	14

CERTIFICATION: Stuart Bichler

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Page Number :5-A
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CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B568597	299 229	2.4	0.84	30	100	< 0.5	< 2	0.87	< 0.5	41	43	6080	2.34	< 10	< 1	0.50	10	0.79	95	159
B568598	299 229	1.6	1.27	4	70	< 0.5	< 2	0.64	< 0.5	29	85	4130	3.01	< 10	< 1	0.92	20	1.09	85	264
B568599	299 229	1.8	1.36	12	70	< 0.5	< 2	0.78	< 0.5	26	123	4600	2.50	< 10	< 1	0.81	20	0.87	90	180
B568600	299 229	2.2	0.93	< 2	70	< 0.5	< 2	0.55	< 0.5	28	125	4210	2.68	< 10	1	0.54	20	0.42	90	734
B568601	299 229	2.0	1.01	16	90	< 0.5	< 2	0.70	< 0.5	26	64	4750	2.16	< 10	< 1	0.65	10	0.83	105	226
B568602	299 229	2.4	1.31	32	80	< 0.5	< 2	0.66	< 0.5	24	135	5380	2.31	< 10	< 1	0.83	20	0.91	170	152
B568603	299 229	2.2	0.95	48	10	< 0.5	8	0.87	< 0.5	30	133	3840	4.46	< 10	< 1	0.55	10	0.56	295	238
B568604	299 229	4.2	1.28	18	30	< 0.5	4	0.52	< 0.5	31	113	9080	2.94	< 10	< 1	0.78	20	0.75	200	195
B568605	299 229	3.2	1.19	< 2	40	< 0.5	< 2	0.55	< 0.5	30	105	6570	2.41	< 10	< 1	0.82	20	0.89	115	280
B568606	299 229	3.6	1.05	4	60	< 0.5	14	1.01	< 0.5	31	110	6370	2.68	< 10	< 1	0.59	20	0.83	370	200
B568607	299 229	2.6	1.28	< 2	100	< 0.5	< 2	0.63	0.5	32	98	5110	2.91	< 10	< 1	0.89	20	1.02	180	69
B568608	299 229	2.2	1.42	4	140	< 0.5	< 2	0.58	< 0.5	34	124	4420	2.59	< 10	< 1	1.07	30	1.21	195	118
B568609	299 229	2.0	1.04	< 2	110	< 0.5	< 2	0.47	< 0.5	32	58	3800	2.51	< 10	< 1	0.84	10	1.17	125	170
B568610	299 229	5.2	0.95	336	40	< 0.5	< 2	1.78	7.5	24	104	5110	4.15	< 10	< 1	0.59	< 10	0.82	3960	80
B568611	299 229	4.2	0.37	14	20	< 0.5	< 2	0.31	< 0.5	37	52	8270	4.12	< 10	< 1	0.23	< 10	0.09	95	179
B568612	299 229	2.8	0.66	28	< 10	< 0.5	6	1.40	0.5	38	102	4260	7.18	< 10	< 1	0.36	< 10	0.63	350	169
B568613	299 229	4.2	0.81	4	60	< 0.5	< 2	0.58	0.5	28	120	9210	2.68	< 10	< 1	0.45	20	0.41	90	255
B568614	299 229	3.4	0.99	4	110	< 0.5	< 2	0.74	0.5	36	101	8470	2.63	< 10	< 1	0.69	20	0.85	80	90
B568615	299 229	2.6	1.18	8	120	< 0.5	< 2	0.66	< 0.5	37	107	7270	2.63	< 10	< 1	0.89	20	1.11	100	143
B568616	299 229	2.2	0.77	16	90	< 0.5	< 2	0.58	< 0.5	45	71	5140	2.89	< 10	< 1	0.61	10	0.86	110	140
B568617	299 229	3.4	0.69	8	50	< 0.5	< 2	0.52	< 0.5	46	98	6840	3.51	< 10	< 1	0.45	10	0.48	80	299
B568618	299 229	5.4	0.57	8	60	< 0.5	< 2	0.52	0.5	42	113	>10000	3.18	< 10	< 1	0.36	10	0.32	75	222
B568619	299 229	4.8	0.87	242	20	< 0.5	< 2	1.03	< 0.5	48	75	6490	4.36	< 10	< 1	0.38	< 10	0.60	430	153
B568620	299 229	4.0	0.82	130	80	< 0.5	< 2	0.71	< 0.5	37	118	3970	2.77	< 10	< 1	0.58	10	0.65	485	169
B568621	299 229	3.2	0.87	14	80	< 0.5	< 2	0.57	< 0.5	41	102	6260	2.80	< 10	< 1	0.69	10	0.77	95	75
B568622	299 229	4.6	1.13	< 2	100	< 0.5	< 2	0.67	0.5	28	128	7290	2.50	< 10	< 1	0.90	< 10	1.00	75	132
B568623	299 229	4.8	1.30	4	130	< 0.5	< 2	1.07	< 0.5	32	125	6230	2.31	10	< 1	0.93	30	1.06	85	73
B568624	299 229	2.6	1.22	< 2	60	< 0.5	< 2	0.87	< 0.5	46	138	5180	3.51	< 10	< 1	0.86	20	0.92	70	36
B568625	299 229	2.0	1.26	12	90	< 0.5	< 2	0.94	< 0.5	30	137	3900	3.03	< 10	< 1	0.90	40	1.07	85	68
B568626	299 229	1.6	1.08	< 2	90	< 0.5	< 2	1.13	< 0.5	25	118	2960	2.23	< 10	< 1	0.79	20	0.98	80	54
B568627	299 229	1.4	1.19	< 2	80	< 0.5	< 2	1.14	< 0.5	33	112	3770	2.55	10	1	0.87	30	1.09	90	76
B568628	299 229	2.2	1.47	< 2	110	< 0.5	< 2	0.86	< 0.5	39	121	5590	2.55	10	< 1	1.02	30	1.27	90	209
B568629	299 229	1.8	1.13	4	150	< 0.5	< 2	0.86	< 0.5	16	110	3530	1.97	10	1	0.71	40	0.82	65	105
B568630	299 229	2.4	1.18	6	70	< 0.5	< 2	1.06	< 0.5	38	128	3840	3.17	< 10	< 1	0.74	30	0.81	60	36
B568631	299 229	2.0	0.97	2	100	< 0.5	2	0.73	< 0.5	25	129	3690	2.30	10	< 1	0.67	70	0.72	55	119
B568632	299 229	2.2	0.88	2	100	< 0.5	< 2	0.43	< 0.5	27	139	3680	2.09	10	< 1	0.60	70	0.58	45	35
B568633	299 229	3.4	1.20	< 2	150	< 0.5	< 2	0.83	< 0.5	29	124	6080	2.19	10	< 1	0.82	40	0.96	70	112
B568634	299 229	2.6	0.93	6	80	< 0.5	< 2	1.01	2.5	30	143	4790	2.51	< 10	< 1	0.61	20	0.70	75	33
B568635	299 229	1.6	0.89	4	160	< 0.5	< 2	1.02	< 0.5	15	124	3290	1.55	< 10	1	0.55	20	0.63	50	100
B568636	299 229	1.6	0.99	8	130	< 0.5	< 2	1.14	< 0.5	21	138	2660	1.95	< 10	1	0.48	30	0.68	70	40

CERTIFICATION: Stewart Buchler

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. :19315595
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R568597	299	229	0.01	13	280	< 2	2	6	29	0.03	< 10	10	45	< 10	20
R568598	299	229	0.02	20	290	< 2	2	8	27	0.10	< 10	< 10	71	< 10	18
R568599	299	229	0.02	21	320	4	2	8	37	0.06	< 10	10	57	< 10	16
R568600	299	229	0.01	16	360	6	8	4	19	0.01	< 10	< 10	30	< 10	10
R568601	299	229	0.01	18	300	8	4	7	21	0.06	< 10	10	49	< 10	16
R568602	299	229	0.02	18	280	< 2	2	9	25	0.06	< 10	10	58	< 10	16
R568603	299	229	0.01	18	370	4	4	6	21	0.01	< 10	< 10	34	< 10	14
R568604	299	229	0.02	20	350	4	2	7	28	0.03	< 10	10	51	< 10	24
R568605	299	229	0.02	20	310	4	8	8	17	0.06	< 10	< 10	64	< 10	18
R568606	299	229	0.01	17	320	< 2	2	7	21	0.03	< 10	< 10	50	< 10	18
R568607	299	229	0.02	14	320	< 2	4	7	20	0.07	< 10	10	68	< 10	20
R568608	299	229	0.02	15	370	< 2	< 2	8	19	0.09	< 10	< 10	80	< 10	18
R568609	299	229	0.01	19	340	< 2	4	7	17	0.08	< 10	< 10	75	< 10	20
R568610	299	229	0.01	46	680	132	4	4	31	< 0.01	< 10	10	20	10	254
R568611	299	229	< 0.01	18	350	8	2	< 1	17	< 0.01	< 10	< 10	3	< 10	14
R568612	299	229	0.01	19	220	16	6	1	29	< 0.01	< 10	< 10	9	10	24
R568613	299	229	0.01	16	150	< 2	2	4	39	< 0.01	< 10	< 10	29	< 10	28
R568614	299	229	0.02	16	190	< 2	4	8	34	0.04	< 10	10	66	< 10	24
R568615	299	229	0.02	16	260	4	< 2	8	30	0.08	< 10	10	78	< 10	20
R568616	299	229	0.01	13	140	< 2	< 2	7	24	0.06	< 10	< 10	67	< 10	14
R568617	299	229	0.01	13	130	< 2	4	4	26	0.01	< 10	< 10	38	< 10	18
R568618	299	229	0.01	20	140	2	2	2	37	< 0.01	< 10	< 10	20	< 10	24
R568619	299	229	0.01	17	410	8	12	4	40	< 0.01	< 10	< 10	33	< 10	30
R568620	299	229	0.02	11	280	< 2	4	5	24	0.03	< 10	10	41	< 10	22
R568621	299	229	0.02	12	290	2	< 2	6	30	0.05	< 10	10	57	< 10	20
R568622	299	229	0.02	16	250	6	2	7	55	0.07	< 10	30	73	< 10	22
R568623	299	229	0.03	11	310	< 2	2	8	89	0.08	< 10	10	73	< 10	20
R568624	299	229	0.03	12	350	< 2	2	7	84	0.08	< 10	10	71	< 10	20
R568625	299	229	0.03	10	330	6	< 2	8	81	0.08	< 10	< 10	67	< 10	22
R568626	299	229	0.03	9	320	< 2	4	8	90	0.08	< 10	10	60	< 10	14
R568627	299	229	0.03	11	400	6	2	8	70	0.09	< 10	< 10	71	< 10	20
R568628	299	229	0.03	14	320	4	2	9	31	0.11	< 10	< 10	83	< 10	20
R568629	299	229	0.02	9	290	2	< 2	7	31	0.06	< 10	< 10	52	< 10	16
R568630	299	229	0.02	15	290	2	< 2	6	26	0.04	< 10	< 10	43	< 10	16
R568631	299	229	0.02	11	190	4	< 2	6	28	0.04	< 10	< 10	49	< 10	16
R568632	299	229	0.02	10	150	< 2	4	4	23	0.03	< 10	30	38	< 10	14
R568633	299	229	0.03	13	320	< 2	< 2	8	56	0.07	< 10	< 10	66	< 10	20
R568634	299	229	0.04	11	220	44	2	6	96	0.04	< 10	10	43	< 10	72
R568635	299	229	0.03	6	240	< 2	2	4	50	0.03	< 10	< 10	35	< 10	12
R568636	299	229	0.02	7	260	4	4	5	54	0.03	< 10	< 10	34	< 10	12

CERTIFICATION: Stewart Bichler

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Page N :6-A
Total Pa :7
Certificate Date: 22-JUN-93
Invoice No. : I9315595
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568637	299	229	1.4	0.29	4	90	< 0.5	6	0.42	< 0.5	9	62	2300	1.34	< 10	< 1	0.17	< 10	0.20	35	82
H568638	299	229	2.2	1.16	< 2	120	< 0.5	< 2	0.72	< 0.5	29	89	4060	2.51	10	< 1	0.78	50	0.89	65	55
H568639	299	229	1.4	1.21	< 2	170	< 0.5	< 2	1.13	< 0.5	15	133	3400	1.66	< 10	< 1	0.64	40	0.74	70	128
H568640	299	229	1.6	1.39	< 2	150	< 0.5	< 2	1.18	< 0.5	20	105	3190	1.71	10	< 1	0.68	60	0.83	75	122
H568641	299	229	0.8	1.01	12	50	< 0.5	6	1.11	< 0.5	25	136	1300	3.90	< 10	< 1	0.57	10	0.41	60	126
H568642	299	229	1.2	1.09	< 2	100	< 0.5	< 2	1.06	< 0.5	23	105	2440	2.56	< 10	< 1	0.68	30	0.87	85	55
H568643	299	229	3.0	1.04	8	70	< 0.5	< 2	0.91	< 0.5	35	139	4130	3.14	< 10	< 1	0.67	10	0.66	70	163
H568644	299	229	2.4	1.20	< 2	110	< 0.5	< 2	1.25	0.5	37	120	4740	2.40	< 10	< 1	0.69	20	0.83	95	59
H568645	299	229	1.6	1.23	2	170	< 0.5	4	1.33	< 0.5	27	121	2360	2.00	< 10	< 1	0.67	20	0.80	115	87
H568646	299	229	2.2	1.17	< 2	130	< 0.5	2	1.05	< 0.5	23	112	3500	2.13	< 10	< 1	0.65	20	0.68	85	88
H568647	299	229	3.4	1.41	< 2	120	< 0.5	< 2	0.90	0.5	39	146	5500	2.55	< 10	1	0.72	30	0.68	80	120
H568648	299	229	3.6	1.56	< 2	140	< 0.5	< 2	1.06	< 0.5	29	103	5120	2.63	< 10	< 1	0.84	30	1.08	115	233
H568649	299	229	4.0	1.07	< 2	60	< 0.5	< 2	0.72	< 0.5	23	136	3890	3.93	< 10	< 1	0.56	10	0.46	75	143
H568650	299	229	5.4	0.84	18	< 10	< 0.5	< 2	0.93	2.0	47	138	4160	9.25	< 10	< 1	0.39	< 10	0.42	80	200
H568651	299	229	5.8	1.01	18	80	< 0.5	< 2	2.24	< 0.5	33	121	8000	3.15	< 10	< 1	0.23	30	0.66	215	349
H568652	299	229	5.8	1.06	12	50	< 0.5	< 2	1.32	< 0.5	45	101	8850	3.17	10	< 1	0.30	60	0.62	160	418
H568653	299	229	7.8	0.87	16	40	< 0.5	< 2	0.94	< 0.5	43	128	>10000	3.71	10	< 1	0.34	40	0.49	170	919
H568654	299	229	2.4	1.27	38	30	< 0.5	< 2	1.35	< 0.5	30	80	2670	4.58	< 10	< 1	0.44	< 10	0.63	195	77
H568655	299	229	2.2	1.03	14	60	< 0.5	< 2	1.82	< 0.5	41	86	2400	3.67	< 10	< 1	0.32	< 10	0.74	270	39
H568656	299	229	3.8	1.03	18	30	< 0.5	76	1.79	0.5	32	79	3340	5.03	< 10	< 1	0.47	< 10	0.69	295	29
H568657	299	229	2.8	0.91	34	40	< 0.5	2	1.38	< 0.5	54	79	3620	4.74	< 10	< 1	0.33	10	0.76	210	66
H568658	299	229	3.2	0.50	104	30	< 0.5	352	3.93	< 0.5	35	102	3840	6.20	< 10	< 1	0.26	< 10	1.19	410	24
H568659	299	229	5.2	1.28	78	40	< 0.5	< 2	1.63	< 0.5	37	99	7010	5.10	10	< 1	0.26	50	0.78	280	115
H568660	299	229	3.8	1.28	8	60	< 0.5	< 2	1.03	< 0.5	44	117	8120	3.58	10	< 1	0.53	80	0.75	95	254
H568661	299	229	6.0	0.66	< 2	40	< 0.5	< 2	0.72	< 0.5	55	106	9050	5.59	< 10	< 1	0.36	40	0.42	80	478
H568662	299	229	5.2	1.02	2	30	< 0.5	< 2	0.77	< 0.5	102	145	8760	5.75	10	< 1	0.58	40	0.59	100	363
H568663	299	229	4.8	1.23	< 2	100	< 0.5	4	0.82	< 0.5	29	131	9450	6.87	10	< 1	0.54	50	0.78	95	585
H568664	299	229	2.8	0.92	< 2	80	< 0.5	< 2	1.04	< 0.5	37	139	6840	2.83	10	< 1	0.64	40	0.75	60	260
H568665	299	229	1.4	1.13	10	70	< 0.5	< 2	0.90	< 0.5	54	187	3270	4.22	10	< 1	0.73	80	0.94	85	405
H568666	299	229	2.4	1.18	6	80	< 0.5	< 2	1.21	< 0.5	46	143	4660	3.56	10	< 1	0.68	70	0.83	80	250
H568667	299	229	3.0	1.29	< 2	60	< 0.5	< 2	0.98	0.5	50	153	7030	5.29	20	1	0.88	110	1.01	85	314
H568668	299	229	3.0	1.12	2	40	< 0.5	< 2	1.71	< 0.5	65	137	6110	5.51	10	< 1	0.63	100	0.84	70	1975
H568669	299	229	2.4	1.34	< 2	70	< 0.5	< 2	1.64	< 0.5	42	155	5930	3.88	20	< 1	0.83	130	0.96	80	371
H568670	299	229	2.6	1.18	4	40	< 0.5	2	1.62	< 0.5	57	127	4980	7.34	20	< 1	0.63	90	0.90	100	137
H568671	299	229	3.4	1.17	16	40	< 0.5	< 2	1.29	< 0.5	48	134	5940	6.98	10	< 1	0.55	50	0.88	180	87
H568672	299	229	2.8	1.16	< 2	40	< 0.5	< 2	0.98	< 0.5	73	119	6190	9.47	10	< 1	0.66	60	0.86	105	68
H568673	299	229	3.0	1.49	< 2	30	< 0.5	< 2	1.01	0.5	64	136	6000	5.81	10	< 1	0.89	60	1.14	115	62
H568674	299	229	2.4	1.36	20	80	< 0.5	< 2	0.89	< 0.5	47	125	5810	4.92	10	< 1	0.65	90	0.85	95	50
H568675	299	229	1.4	1.27	< 2	110	< 0.5	< 2	0.74	< 0.5	39	127	2800	5.60	10	< 1	0.68	40	0.88	105	59
H568676	299	229	1.6	1.27	12	80	< 0.5	< 2	0.85	< 0.5	49	116	2220	4.28	10	< 1	0.68	30	0.84	90	52

CERTIFICATION: Hart Bichler

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Certificate Date: 22-JUN-93
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CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B568637	299	229	0.01	6	80	2	2	1	11	< 0.01	< 10	20	9	< 10	6
B568638	299	229	0.02	17	340	2	4	7	60	0.06	< 10	< 10	55	< 10	12
B568639	299	229	0.03	10	370	4	< 2	6	66	0.04	< 10	< 10	44	< 10	12
B568640	299	229	0.03	10	350	2	< 2	7	45	0.04	< 10	< 10	51	< 10	12
B568641	299	229	0.02	10	410	2	2	3	25	0.01	< 10	< 10	25	< 10	8
B568642	299	229	0.04	8	410	4	< 2	9	58	0.06	< 10	< 10	52	< 10	14
B568643	299	229	0.03	13	340	2	2	6	32	0.04	< 10	< 10	43	< 10	24
B568644	299	229	0.04	12	340	< 2	2	7	69	0.04	< 10	< 10	51	< 10	26
B568645	299	229	0.04	10	410	< 2	2	7	47	0.04	< 10	< 10	51	< 10	20
B568646	299	229	0.02	11	340	4	4	6	32	0.03	< 10	< 10	43	< 10	18
B568647	299	229	0.03	17	260	6	2	6	33	0.04	< 10	< 10	48	< 10	20
B568648	299	229	0.03	19	320	4	2	9	34	0.06	< 10	< 10	70	< 10	20
B568649	299	229	0.02	15	300	18	2	4	23	0.01	< 10	< 10	33	< 10	26
B568650	299	229	0.01	21	250	74	10	3	21	< 0.01	< 10	< 10	18	10	120
B568651	299	229	0.01	18	210	18	6	7	21	< 0.01	< 10	< 10	33	< 10	34
B568652	299	229	0.01	20	270	14	6	8	25	< 0.01	< 10	< 10	40	< 10	26
B568653	299	229	0.01	24	270	12	14	7	23	< 0.01	< 10	< 10	38	< 10	30
B568654	299	229	0.01	20	690	18	22	4	32	< 0.01	< 10	< 10	26	< 10	44
B568655	299	229	0.01	21	680	6	8	6	35	< 0.01	< 10	< 10	32	< 10	28
B568656	299	229	0.01	19	680	18	6	4	34	0.01	< 10	< 10	29	10	40
B568657	299	229	0.01	19	530	4	8	5	35	< 0.01	< 10	< 10	35	10	30
B568658	299	229	0.01	13	200	42	42	1	24	< 0.01	< 10	10	14	10	44
B568659	299	229	0.01	14	300	12	12	6	45	< 0.01	< 10	10	50	< 10	36
B568660	299	229	0.02	16	260	6	6	7	68	0.03	< 10	< 10	48	< 10	22
B568661	299	229	0.01	16	140	6	8	4	23	0.01	< 10	20	49	< 10	22
B568662	299	229	0.02	19	250	8	6	7	21	0.04	< 10	30	64	< 10	20
B568663	299	229	0.03	13	170	4	6	7	54	0.04	< 10	20	119	< 10	22
B568664	299	229	0.03	18	180	12	4	6	116	0.04	< 10	10	62	< 10	16
B568665	299	229	0.04	15	210	10	6	7	91	0.07	< 10	< 10	78	< 10	14
B568666	299	229	0.04	15	260	< 2	4	6	87	0.07	< 10	20	69	< 10	16
B568667	299	229	0.03	19	300	10	4	7	81	0.10	< 10	10	106	< 10	20
B568668	299	229	0.03	16	230	16	18	7	112	0.06	< 10	10	102	10	20
B568669	299	229	0.04	19	240	8	6	8	132	0.07	< 10	10	97	< 10	20
B568670	299	229	0.03	18	300	8	2	7	112	0.07	< 10	10	137	10	18
B568671	299	229	0.01	18	230	12	4	8	47	0.04	< 10	10	107	< 10	20
B568672	299	229	0.03	18	230	14	4	8	90	0.07	< 10	< 10	195	20	18
B568673	299	229	0.02	13	360	8	4	11	64	0.08	< 10	10	106	< 10	18
B568674	299	229	0.02	10	260	10	4	8	61	0.06	< 10	10	87	< 10	20
B568675	299	229	0.03	8	320	2	2	8	57	0.07	< 10	20	88	10	18
B568676	299	229	0.04	7	380	8	2	9	64	0.06	< 10	< 10	69	< 10	14

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. :19315595
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568677	299	229	0.4	1.64	4	90	< 0.5	< 2	0.81	< 0.5	23	102	641	3.65	10	< 1	1.07	10	1.37	95	16
H568678	299	229	0.6	1.42	2	80	< 0.5	< 2	1.21	< 0.5	39	111	1035	3.14	< 10	< 1	0.81	10	1.09	80	28
H568679	299	229	0.2	1.31	6	70	< 0.5	< 2	1.16	< 0.5	37	103	626	3.01	< 10	< 1	0.65	10	0.96	90	33
H568680	299	229	0.8	1.18	< 2	80	< 0.5	< 2	0.95	< 0.5	38	109	1420	2.85	< 10	< 1	0.63	20	0.88	85	21
H568681	299	229	1.0	1.31	< 2	60	< 0.5	< 2	1.43	< 0.5	36	85	1025	3.64	10	< 1	0.81	30	0.98	100	295
H568682	299	229	0.6	1.24	10	60	< 0.5	< 2	1.33	< 0.5	28	106	1080	3.58	< 10	< 1	0.47	10	0.93	95	26
H568683	299	229	0.6	1.47	16	100	< 0.5	< 2	1.26	< 0.5	39	112	1375	3.29	< 10	< 1	0.58	10	1.01	100	57
H568684	299	229	0.8	1.21	< 2	120	< 0.5	< 2	1.37	< 0.5	22	115	797	2.30	< 10	< 1	0.60	10	0.85	95	82
H568685	299	229	1.4	1.08	4	90	< 0.5	< 2	0.75	< 0.5	37	102	1900	2.73	10	< 1	0.47	40	0.62	110	191
H568686	299	229	0.8	1.79	< 2	160	0.5	< 2	0.72	< 0.5	34	118	1360	2.85	10	< 1	0.57	20	0.89	115	17
H568687	299	229	1.4	1.21	6	140	< 0.5	< 2	0.57	< 0.5	27	143	2380	2.29	< 10	< 1	0.26	30	0.41	105	41
H568688	299	229	0.8	1.36	12	120	< 0.5	< 2	1.09	< 0.5	34	94	1140	3.19	10	< 1	0.43	20	0.97	105	16
H568689	299	229	< 0.2	1.15	2	70	< 0.5	< 2	1.23	< 0.5	37	66	405	3.57	< 10	< 1	0.48	< 10	0.90	75	20
H568690	299	229	1.4	0.97	16	70	< 0.5	< 2	1.21	< 0.5	26	69	1305	2.51	< 10	< 1	0.49	10	0.76	75	28
H568691	299	229	0.4	1.09	6	80	< 0.5	< 2	1.00	< 0.5	34	66	1165	3.15	< 10	< 1	0.51	10	0.90	65	49
H568692	299	229	0.2	1.23	6	80	0.5	< 2	1.22	< 0.5	33	131	725	2.45	< 10	1	0.72	10	0.88	60	43
H568693	299	229	0.2	1.30	6	80	< 0.5	< 2	1.10	< 0.5	42	72	730	3.38	10	< 1	0.70	20	1.02	90	13
H568694	299	229	0.2	1.76	16	120	0.5	< 2	1.36	< 0.5	25	146	595	2.91	10	< 1	0.60	20	0.91	110	6
H568695	299	229	0.4	1.33	< 2	120	0.5	< 2	0.91	< 0.5	34	154	1255	2.34	10	< 1	0.19	40	0.30	95	18
H568696	299	229	0.8	1.04	6	110	< 0.5	< 2	1.20	< 0.5	32	168	1200	2.24	< 10	< 1	0.22	30	0.42	145	27

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/156
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :7-B
Total Pages :7
Certificate Date: 22-JUN-93
Invoice No. :I9315595
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315595

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568677	299	229	0.04	14	600	6	2	10	48	0.13	< 10	< 10	70	10	14
H568678	299	229	0.06	6	500	8	2	9	63	0.08	< 10	< 10	72	< 10	14
H568679	299	229	0.06	5	410	2	4	8	58	0.07	< 10	< 10	66	< 10	14
H568680	299	229	0.05	7	410	14	< 2	8	43	0.06	< 10	< 10	65	< 10	18
H568681	299	229	0.03	4	450	10	2	10	75	0.09	< 10	< 10	74	10	40
H568682	299	229	0.04	6	430	8	< 2	7	66	0.04	< 10	< 10	56	< 10	12
H568683	299	229	0.06	5	470	4	2	8	62	0.08	< 10	< 10	69	< 10	12
H568684	299	229	0.04	5	430	6	2	7	81	0.04	< 10	< 10	52	< 10	12
H568685	299	229	0.01	8	460	10	4	8	22	0.03	< 10	< 10	48	< 10	12
H568686	299	229	0.02	5	460	6	< 2	9	71	0.04	< 10	< 10	64	< 10	16
H568687	299	229	0.01	8	620	8	< 2	8	22	< 0.01	< 10	< 10	36	< 10	14
H568688	299	229	0.03	5	440	2	2	7	107	0.03	< 10	< 10	59	< 10	14
H568689	299	229	0.03	13	510	14	< 2	3	127	0.04	< 10	< 10	31	< 10	12
H568690	299	229	0.02	6	420	8	2	5	132	0.04	< 10	< 10	43	< 10	12
H568691	299	229	0.03	5	430	18	< 2	7	55	0.05	< 10	< 10	57	< 10	12
H568692	299	229	0.04	3	380	< 2	4	6	107	0.04	< 10	< 10	45	< 10	12
H568693	299	229	0.03	7	450	6	< 2	8	107	0.08	< 10	< 10	63	< 10	14
H568694	299	229	0.03	4	520	8	2	10	233	0.05	< 10	< 10	61	< 10	16
H568695	299	229	0.01	8	460	4	2	10	23	< 0.01	< 10	< 10	39	< 10	30
H568696	299	229	0.01	8	550	12	4	6	23	< 0.01	< 10	< 10	23	< 10	18

CERTIFICATION: Ivan Bichler

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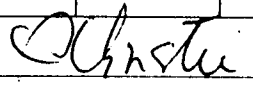
Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-JUN-93
Invoice No. : I9315200
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315200

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572649	208 273	0.01	0.015	0.24	13080
H572650	208 276	< 0.01	0.017	0.24	9560
H572651	208 276	< 0.01	0.023	0.31	10780
H572652	208 276	< 0.01	0.025	0.14	8840
H572653	208 276	< 0.01	0.031	0.10	10640
H572654	208 273	< 0.01	0.027	0.07	12220
H572655	208 276	< 0.01	0.028	0.07	8440
H572656	208 276	< 0.01	0.043	0.14	11750
H572657	208 273	< 0.01	0.056	0.31	11960
H572658	208 274	< 0.01	0.023	0.14	3240
H572659	208 276	0.01	0.020	0.14	10320
H572660	208 276	< 0.01	0.041	0.38	10400
H572661	208 276	0.01	0.069	0.41	10980
H572662	208 273	0.01	0.029	0.31	12700
H572663	208 273	0.01	0.036	0.24	12240
H572664	208 273	0.01	0.023	0.24	11980
H572665	208 276	0.01	0.019	0.17	11500
H572666	208 273	0.01	0.029	0.24	12520
H572667	208 273	0.01	0.031	0.27	12140
H572668	208 276	< 0.01	0.020	0.17	10080
H572669	208 276	0.01	0.027	0.38	11780
H572670	208 276	0.01	0.025	0.31	11760
H572671	208 273	0.01	0.017	0.17	12760
H572672	208 276	0.01	0.024	0.31	11440
H572673	208 276	< 0.01	0.016	0.31	11180
H572674	208 276	< 0.01	0.015	0.21	11380
H572675	208 276	0.01	0.020	0.24	11360
H572676	208 276	< 0.01	0.029	0.17	11520
H572677	208 273	< 0.01	0.016	0.31	12060
H572678	208 276	< 0.01	0.020	0.27	10560
H572679	208 276	< 0.01	0.015	0.24	11800
H572680	208 276	< 0.01	0.021	0.31	10580
H572681	208 273	< 0.01	0.018	0.17	11920
H572682	208 273	< 0.01	0.028	0.31	12000
H572683	208 276	< 0.01	0.024	0.41	7980
H572684	208 276	< 0.01	0.023	0.31	8520
H572685	208 276	< 0.01	0.027	0.34	11560
H572686	208 276	< 0.01	0.026	0.31	10620
H572687	208 273	0.01	0.027	0.41	12340
H572688	208 273	< 0.01	0.047	0.31	12380

CERTIFICATION: 

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-JUN-93
Invoice No. : I9315200
P.O. Number :
Account : FC

** Corrected Copy **

CERTIFICATE OF ANALYSIS A9315200

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572689	208	273	< 0.01	0.033	0.14	12680						
H572690	208	276	0.01	0.028	0.31	8600						
H572691	208	276	0.01	0.021	0.34	8580						
H572692	208	276	0.01	0.020	0.21	11020						
H572693	208	276	0.01	0.051	0.21	11640						
H572694	208	276	0.18	0.012	0.14	8900						
H572695	208	273	0.04	0.023	0.10	12520						
H572696	208	276	0.52	0.036	0.34	7420						
H572697	208	273	0.22	0.022	0.31	13340						
H572698	208	276	0.17	0.020	0.17	11080						
H572699	208	273	0.32	0.021	0.34	13580						
H572700	208	274	0.56	0.027	0.55	5780						
H572701	208	273	0.43	0.077	0.41	11980						
H572702	208	273	0.23	0.035	0.27	11860						
H572703	208	273	0.16	0.066	0.24	12160						
H572704	208	273	0.22	0.044	0.24	12860						
H572705	208	273	0.25	0.042	0.34	12380						
H572706	208	273	0.24	0.035	0.27	11980						
H572707	208	273	0.29	0.025	0.31	12440						
H572708	208	276	0.28	0.026	0.31	10580						
H572709	208	276	0.27	0.019	0.34	11080						
H572710	208	274	0.39	0.024	0.34	4260						
H572711	208	276	0.38	0.034	0.34	11360						
H572712	208	276	0.31	0.023	0.27	10440						
H572713	208	273	0.24	0.022	0.38	12820						
H572714	208	273	0.17	0.014	0.21	12440						
H572715	208	276	0.19	0.024	0.27	11260						
H572716	208	273	0.21	0.032	0.27	12400						
H572717	208	276	0.25	0.052	0.31	11340						
H572718	208	273	0.21	0.036	0.24	12500						
H572719	208	273	0.21	0.021	0.27	12360						
H572720	208	276	0.31	0.043	0.31	11660						
H572721	208	273	0.23	0.019	0.27	12280						
H572722	208	273	0.20	0.044	0.27	12620						
H572723	208	273	0.21	0.031	0.24	14720						
H572724	208	273	0.41	0.034	0.55	12300						
H572725	208	276	0.21	0.028	0.24	11360						
H572726	208	276	0.14	0.010	0.34	11620						
H572727	208	273	0.15	0.018	0.14	11820						
H572728	208	276	0.18	0.014	0.24	11300						

CERTIFICATION: A Christie

** For samples H572694,H572695,H572761 to H572769, Cu and MoS2 results corrected

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-JUN-93
Invoice No. :I9315200
P.O. Number :
Account :FC

** Corrected Copy **

CERTIFICATE OF ANALYSIS A9315200

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572729	208	276	0.27	0.063	0.17	11650						
H572730	208	273	0.20	0.023	0.14	12400						
H572731	208	273	0.16	0.014	0.14	13350						
H572732	208	273	0.22	0.014	0.10	13280						
H572733	208	273	0.22	0.027	0.21	12640						
H572734	208	273	0.28	0.032	0.21	12100						
H572735	208	276	0.23	0.016	0.24	8200						
H572736	208	270	0.13	0.026	0.10	17920						
H572737	208	276	0.15	0.020	0.14	11200						
H572738	208	273	0.19	0.044	0.17	12660						
H572739	208	273	0.26	0.045	0.21	11920						
H572740	208	273	0.13	0.040	0.10	12700						
H572741	208	273	0.27	0.044	0.27	13340						
H572742	208	273	0.20	0.050	0.24	12980						
H572743	208	273	0.25	0.018	0.34	12800						
H572744	208	273	0.20	0.026	0.24	13250						
H572745	208	273	0.29	0.069	0.31	12200						
H572746	208	273	0.31	0.060	0.34	13260						
H572747	208	273	0.23	0.046	0.31	13300						
H572748	208	273	0.29	0.026	0.41	13460						
H572749	208	273	0.28	0.076	0.27	12740						
H572750	208	273	0.07	0.038	0.31	13820						
H572751	208	273	0.17	0.023	0.21	13340						
H572752	208	273	0.25	0.034	0.27	13220						
H572753	208	273	0.11	0.019	0.14	13640						
H572754	208	276	0.16	0.039	0.14	10780						
H572755	208	273	0.13	0.022	0.21	14320						
H572756	208	273	0.16	0.059	0.24	12260						
H572757	208	276	0.17	0.090	0.27	10740						
H572758	208	276	0.20	0.068	0.21	11180						
H572759	208	276	0.16	0.067	0.21	10700						
H572760	208	273	0.22	0.035	0.24	11820						
H572761	208	276	0.14	0.046	0.17	11160						
H572762	208	273	0.14	0.082	0.24	12640						
H572763	208	276	0.15	0.035	0.24	11700						
H572764	208	273	0.15	0.043	0.21	12880						
H572765	208	276	0.18	0.049	0.21	11300						
H572766	208	273	0.16	0.050	0.17	13140						
H572767	208	273	0.25	0.058	0.34	12680						
H572768	208	273	0.21	0.164	0.21	12520						

CERTIFICATION: _____

** For samples H572694,H572695,H572761 to H572769, Cu and MoS2 results corrected

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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T \RCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-JUN-93
Invoice No. : I9315200
P.O. Number :
Account : FC

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CERTIFICATE OF ANALYSIS A9315200

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572769	208 273	0.10	0.076	0.10	12860
H572770	208 273	0.33	0.069	0.51	13180
H572771	208 273	0.09	0.097	0.10	12880
H572772	208 273	0.09	0.095	0.07	12940
H572773	208 273	0.10	0.047	0.10	13180
H572774	208 273	0.14	0.068	0.10	12820
H572775	208 273	0.10	0.052	0.07	13380

CERTIFICATION: A Chrétien

** For samples H572694,H572695,H572761 to H572769, Cu and MoS2 results corrected

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
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Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-JUN-93
Invoice No. : I9315201
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315201

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R572649	299	229	1.6	0.44	10	300	< 0.5	< 2	0.02	< 0.5	< 1	110	45	1.96	< 10	< 1	0.63	10	0.03	15	91
R572650	299	229	2.4	0.59	12	350	< 0.5	12	0.02	< 0.5	< 1	112	44	2.10	< 10	< 1	0.69	20	0.04	15	108
R572651	299	229	3.0	0.67	26	350	< 0.5	2	0.02	< 0.5	< 1	133	47	2.57	< 10	< 1	0.79	20	0.04	20	143
R572652	299	229	1.8	0.81	16	380	< 0.5	4	0.02	< 0.5	< 1	125	48	2.42	< 10	< 1	0.84	20	0.06	15	164
R572653	299	229	1.4	0.72	14	310	< 0.5	6	0.02	< 0.5	< 1	127	42	2.97	10	< 1	0.97	30	0.04	15	195
R572654	299	229	1.0	0.78	26	330	< 0.5	< 2	0.02	< 0.5	1	132	35	2.60	< 10	< 1	0.87	20	0.04	15	164
R572655	299	229	1.4	0.75	18	330	< 0.5	8	0.02	< 0.5	< 1	138	31	2.91	< 10	< 1	0.96	20	0.05	15	178
R572656	299	229	2.0	0.81	22	330	0.5	2	0.02	< 0.5	< 1	135	44	2.78	10	< 1	0.92	30	0.06	15	285
R572657	299	229	3.2	0.91	28	240	< 0.5	12	0.03	< 0.5	< 1	102	46	3.83	10	< 1	1.15	40	0.06	10	373
R572658	299	229	2.0	0.88	18	360	< 0.5	14	0.02	< 0.5	< 1	128	45	2.43	10	< 1	0.96	30	0.06	10	145
R572659	299	229	4.4	0.80	20	350	< 0.5	2	0.02	< 0.5	< 1	145	58	2.40	10	< 1	0.90	30	0.05	15	118
R572660	299	229	3.0	0.78	4	350	< 0.5	4	0.02	< 0.5	< 1	106	46	2.59	10	< 1	0.90	40	0.04	10	260
R572661	299	229	2.8	0.74	18	260	< 0.5	12	0.02	< 0.5	< 1	135	73	3.44	10	< 1	1.03	30	0.04	10	457
R572662	299	229	3.0	1.17	24	450	0.5	6	0.03	< 0.5	< 1	159	46	2.58	10	< 1	0.95	30	0.09	20	218
R572663	299	229	2.4	1.23	8	440	0.5	2	0.03	< 0.5	1	188	53	2.55	10	< 1	0.92	30	0.09	20	232
R572664	299	229	2.8	1.08	10	410	0.5	4	0.03	< 0.5	< 1	133	71	2.49	10	< 1	0.80	30	0.08	15	143
R572665	299	229	2.6	0.96	12	390	< 0.5	4	0.03	< 0.5	< 1	135	47	2.46	10	< 1	0.83	30	0.08	20	115
R572666	299	229	3.6	0.93	16	360	0.5	58	0.02	< 0.5	< 1	128	57	2.58	10	< 1	0.89	20	0.07	15	184
R572667	299	229	4.6	0.80	18	280	< 0.5	20	0.02	< 0.5	< 1	167	64	3.09	< 10	< 1	0.94	20	0.06	15	203
R572668	299	229	2.8	0.82	18	300	< 0.5	2	0.02	< 0.5	< 1	143	48	2.80	< 10	< 1	0.81	20	0.07	15	129
R572669	299	229	4.2	0.93	20	150	0.5	8	0.02	< 0.5	< 1	156	59	2.98	10	< 1	0.85	30	0.07	15	173
R572670	299	229	3.6	1.00	22	250	< 0.5	4	0.02	< 0.5	1	143	67	2.68	10	< 1	0.77	30	0.07	15	159
R572671	299	229	2.4	1.05	16	320	< 0.5	4	0.02	< 0.5	1	147	50	2.45	10	< 1	0.92	30	0.08	15	104
R572672	299	229	2.6	0.87	32	210	< 0.5	12	0.02	< 0.5	1	118	85	3.84	< 10	< 1	1.20	20	0.06	15	158
R572673	299	229	3.6	0.80	20	150	< 0.5	16	0.02	< 0.5	< 1	128	45	4.67	< 10	< 1	1.31	20	0.05	15	101
R572674	299	229	2.0	0.87	16	260	0.5	8	0.02	< 0.5	< 1	121	44	3.63	< 10	< 1	1.18	10	0.07	15	100
R572675	299	229	2.4	0.99	14	340	0.5	6	0.02	< 0.5	1	141	48	2.82	10	< 1	0.95	20	0.08	15	128
R572676	299	229	2.2	1.02	20	300	< 0.5	12	0.02	< 0.5	< 1	150	43	3.31	10	< 1	1.10	20	0.08	15	194
R572677	299	229	1.8	0.57	10	250	< 0.5	8	0.01	< 0.5	< 1	77	50	2.64	< 10	< 1	0.71	10	0.05	10	100
R572678	299	229	1.4	0.76	18	280	< 0.5	4	0.02	< 0.5	1	101	39	2.75	< 10	< 1	0.86	20	0.06	10	119
R572679	299	229	2.0	0.34	12	200	< 0.5	8	0.01	< 0.5	< 1	51	39	2.39	< 10	< 1	0.54	20	0.03	10	90
R572680	299	229	1.8	0.65	4	260	< 0.5	16	0.02	< 0.5	1	97	35	2.43	< 10	< 1	0.75	20	0.05	10	120
R572681	299	229	1.8	0.38	8	240	< 0.5	< 2	0.01	< 0.5	< 1	64	39	2.36	< 10	< 1	0.61	20	0.03	5	112
R572682	299	229	1.8	0.74	12	270	< 0.5	< 2	0.01	< 0.5	< 1	106	39	2.55	< 10	< 1	0.88	20	0.06	10	167
R572683	299	229	2.6	0.67	8	270	< 0.5	< 2	0.01	< 0.5	< 1	111	47	2.33	< 10	< 1	0.81	20	0.05	10	166
R572684	299	229	2.0	0.64	2	280	< 0.5	< 2	0.01	< 0.5	< 1	136	52	2.13	< 10	< 1	0.77	10	0.03	15	138
R572685	299	229	3.2	0.82	8	310	< 0.5	2	0.01	< 0.5	< 1	92	43	1.71	< 10	< 1	0.74	20	0.07	15	166
R572686	299	229	2.8	0.70	6	270	< 0.5	2	0.01	< 0.5	< 1	82	28	2.10	< 10	< 1	0.82	20	0.05	10	157
R572687	299	229	2.6	0.72	14	320	< 0.5	< 2	0.02	< 0.5	< 1	125	59	2.27	< 10	< 1	0.79	20	0.07	15	162
R572688	299	229	2.2	0.66	28	240	0.5	< 2	0.01	< 0.5	< 1	99	43	3.38	< 10	< 1	0.97	30	0.04	10	301

CERTIFICATION: Hart Bechler

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315201

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R572649	299	229	0.01	2	160	20	< 2	1	10	< 0.01	< 10	< 10	9	< 10	8
R572650	299	229	0.02	2	210	6	< 2	1	11	< 0.01	< 10	< 10	10	< 10	6
R572651	299	229	0.02	< 1	320	18	< 2	1	18	< 0.01	< 10	< 10	13	10	6
R572652	299	229	0.02	2	400	24	< 2	2	15	< 0.01	< 10	< 10	15	< 10	6
R572653	299	229	0.02	< 1	460	26	2	3	17	< 0.01	< 10	< 10	18	< 10	6
R572654	299	229	0.02	2	380	16	< 2	2	17	< 0.01	< 10	< 10	15	< 10	6
R572655	299	229	0.02	1	380	16	< 2	1	19	< 0.01	< 10	< 10	14	< 10	6
R572656	299	229	0.02	2	540	16	< 2	2	32	< 0.01	< 10	< 10	15	< 10	6
R572657	299	229	0.02	< 1	670	32	2	3	31	< 0.01	< 10	< 10	19	< 10	4
R572658	299	229	0.02	1	390	24	2	2	15	< 0.01	< 10	< 10	19	< 10	4
R572659	299	229	0.02	1	430	22	< 2	3	24	< 0.01	< 10	< 10	16	< 10	6
R572660	299	229	0.02	< 1	340	16	< 2	2	25	< 0.01	< 10	< 10	15	< 10	2
R572661	299	229	0.02	< 1	460	18	2	2	25	< 0.01	< 10	< 10	18	< 10	4
R572662	299	229	0.02	< 1	810	16	< 2	4	40	< 0.01	< 10	< 10	19	< 10	6
R572663	299	229	0.02	2	630	18	2	3	35	< 0.01	< 10	< 10	18	< 10	6
R572664	299	229	0.02	1	630	16	< 2	2	40	< 0.01	< 10	< 10	17	< 10	6
R572665	299	229	0.02	1	540	16	< 2	2	33	< 0.01	< 10	< 10	15	< 10	4
R572666	299	229	0.02	< 1	390	16	< 2	2	22	< 0.01	< 10	< 10	17	< 10	6
R572667	299	229	0.02	1	300	30	2	2	13	< 0.01	< 10	< 10	16	< 10	4
R572668	299	229	0.01	< 1	280	22	< 2	2	16	< 0.01	< 10	< 10	17	< 10	6
R572669	299	229	0.01	2	330	26	< 2	2	19	< 0.01	< 10	< 10	17	< 10	6
R572670	299	229	0.01	1	390	18	< 2	2	25	< 0.01	< 10	< 10	19	< 10	6
R572671	299	229	0.02	1	300	8	< 2	2	14	< 0.01	< 10	< 10	17	< 10	4
R572672	299	229	0.02	1	360	14	< 2	2	17	< 0.01	< 10	< 10	18	< 10	6
R572673	299	229	0.02	1	350	32	< 2	2	12	< 0.01	< 10	< 10	16	< 10	4
R572674	299	229	0.02	< 1	330	26	< 2	2	13	< 0.01	< 10	< 10	17	< 10	6
R572675	299	229	0.02	< 1	410	20	< 2	2	19	< 0.01	< 10	< 10	18	< 10	6
R572676	299	229	0.02	< 1	410	12	< 2	2	16	< 0.01	< 10	< 10	17	< 10	4
R572677	299	229	0.02	< 1	260	6	< 2	1	15	< 0.01	< 10	< 10	13	10	2
R572678	299	229	0.02	1	320	6	< 2	1	16	< 0.01	< 10	< 10	15	< 10	2
R572679	299	229	0.01	< 1	180	8	< 2	< 1	10	< 0.01	< 10	< 10	9	10	2
R572680	299	229	0.02	< 1	300	6	< 2	1	16	< 0.01	< 10	< 10	14	< 10	2
R572681	299	229	0.01	< 1	280	12	< 2	< 1	16	< 0.01	< 10	< 10	9	< 10	4
R572682	299	229	0.02	1	330	12	< 2	1	13	< 0.01	< 10	< 10	14	< 10	4
R572683	299	229	0.02	< 1	350	6	< 2	1	15	< 0.01	< 10	< 10	12	< 10	4
R572684	299	229	0.01	1	360	4	< 2	2	13	< 0.01	< 10	< 10	9	< 10	4
R572685	299	229	0.01	< 1	350	12	< 2	2	22	< 0.01	< 10	< 10	10	< 10	4
R572686	299	229	0.01	< 1	320	12	< 2	1	14	< 0.01	< 10	< 10	10	< 10	2
R572687	299	229	0.02	1	420	12	< 2	2	25	< 0.01	< 10	< 10	12	< 10	4
R572688	299	229	0.02	< 1	920	18	< 2	10	27	< 0.01	< 10	< 10	13	< 10	4

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-JUN-93
Invoice No. :I9315201
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315201

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R572689	299	229	2.0	0.60	18	210	< 0.5	2	0.01	< 0.5	1	46	41	2.42	< 10	< 1	0.81	20	0.04	5	201
R572690	299	229	2.6	0.71	18	290	< 0.5	8	0.01	< 0.5	1	84	67	2.32	< 10	< 1	0.83	20	0.03	10	182
R572691	299	229	1.8	0.23	16	130	< 0.5	6	0.01	< 0.5	< 1	51	52	2.15	< 10	< 1	0.57	20	< 0.01	5	130
R572692	299	229	1.6	0.59	18	190	< 0.5	8	0.01	< 0.5	1	140	64	2.23	< 10	< 1	0.65	20	0.02	10	129
R572693	299	229	1.4	0.35	16	70	< 0.5	2	0.01	< 0.5	13	52	138	3.07	< 10	< 1	0.27	10	0.03	5	345
R572694	299	229	1.8	0.46	6	80	< 0.5	2	0.02	< 0.5	20	65	2040	3.38	< 10	< 1	0.33	10	0.06	10	81
R572695	299	229	1.4	0.69	4	60	0.5	2	0.02	< 0.5	17	92	380	3.52	< 10	< 1	0.47	10	0.08	10	146
R572696	299	229	3.6	0.61	20	70	0.5	< 2	0.02	< 0.5	19	67	5750	2.91	< 10	< 1	0.39	10	0.09	10	241
R572697	299	229	2.0	0.54	16	40	0.5	< 2	0.01	< 0.5	26	74	2390	4.24	< 10	< 1	0.35	10	0.08	10	138
R572698	299	229	1.4	0.77	8	40	0.5	< 2	0.01	< 0.5	21	83	1935	3.14	< 10	< 1	0.49	10	0.09	10	130
R572699	299	229	3.0	0.75	26	40	< 0.5	6	0.02	< 0.5	18	64	3470	3.91	< 10	< 1	0.42	10	0.10	15	134
R572700	299	229	6.4	1.24	18	70	0.5	< 2	0.03	< 0.5	22	71	6160	2.73	< 10	< 1	0.60	10	0.17	20	173
R572701	299	229	4.4	1.71	12	80	0.5	2	0.02	< 0.5	17	134	4650	2.83	< 10	< 1	0.83	20	0.21	20	494
R572702	299	229	2.0	1.45	18	70	0.5	< 2	0.06	< 0.5	17	105	2510	2.58	< 10	< 1	0.67	10	0.17	20	221
R572703	299	229	1.8	1.29	8	70	0.5	< 2	0.12	< 0.5	23	86	1655	3.77	< 10	< 1	0.57	20	0.16	170	421
R572704	299	229	2.2	1.52	12	40	0.5	< 2	0.10	< 0.5	31	111	2370	3.62	< 10	< 1	0.71	10	0.17	30	281
R572705	299	229	2.8	1.03	12	70	0.5	< 2	0.10	< 0.5	16	99	2670	2.75	< 10	< 1	0.44	20	0.12	200	259
R572706	299	229	1.8	0.92	24	30	0.5	< 2	0.06	< 0.5	13	90	2340	3.56	< 10	< 1	0.41	10	0.09	20	201
R572707	299	229	2.4	1.07	14	60	0.5	< 2	0.06	< 0.5	21	104	2980	2.63	< 10	< 1	0.43	20	0.12	15	151
R572708	299	229	2.0	1.06	10	30	0.5	4	0.04	< 0.5	19	90	2850	3.83	< 10	< 1	0.50	10	0.15	15	159
R572709	299	229	2.2	1.92	12	40	0.5	< 2	0.09	< 0.5	29	150	2880	4.21	< 10	< 1	0.76	20	0.18	30	111
R572710	299	229	3.0	1.95	10	60	0.5	< 2	0.09	< 0.5	31	128	4370	3.48	< 10	< 1	0.86	30	0.21	25	152
R572711	299	229	2.6	1.68	24	40	0.5	< 2	0.06	< 0.5	39	134	4180	3.67	10	< 1	0.64	40	0.16	20	206
R572712	299	229	2.4	1.38	4	70	0.5	4	0.06	< 0.5	37	123	3290	2.70	< 10	< 1	0.53	20	0.14	20	139
R572713	299	229	2.4	1.50	14	110	0.5	2	0.12	< 0.5	20	102	2630	1.99	< 10	< 1	0.42	30	0.12	120	126
R572714	299	229	1.8	1.54	6	60	0.5	< 2	0.13	0.5	23	110	1890	3.20	< 10	< 1	0.50	30	0.14	405	71
R572715	299	229	1.8	1.82	4	40	1.0	< 2	0.12	< 0.5	26	139	1955	2.71	< 10	< 1	0.54	20	0.13	30	136
R572716	299	229	1.8	2.01	18	50	0.5	< 2	0.11	< 0.5	24	96	2170	2.85	< 10	< 1	0.71	20	0.16	25	188
R572717	299	229	2.2	1.80	4	80	0.5	< 2	0.11	< 0.5	23	118	2560	2.57	< 10	< 1	0.65	20	0.17	165	300
R572718	299	229	1.6	1.77	8	80	0.5	< 2	0.11	< 0.5	21	120	2270	2.58	< 10	< 1	0.63	20	0.15	100	211
R572719	299	229	2.0	2.07	18	70	0.5	< 2	0.13	< 0.5	29	127	2260	3.55	< 10	< 1	0.68	20	0.17	320	129
R572720	299	229	2.8	1.61	6	90	0.5	< 2	0.13	< 0.5	20	121	3430	2.76	< 10	< 1	0.56	30	0.15	235	283
R572721	299	229	2.2	1.57	14	170	0.5	< 2	0.13	< 0.5	20	107	2400	2.33	< 10	< 1	0.52	20	0.15	465	119
R572722	299	229	2.2	1.64	2	90	0.5	< 2	0.13	< 0.5	17	102	2120	3.20	< 10	< 1	0.62	20	0.17	325	284
R572723	299	229	2.2	1.75	8	70	0.5	< 2	0.12	0.5	22	104	2270	3.02	< 10	< 1	0.54	20	0.15	190	193
R572724	299	229	4.0	1.52	22	30	0.5	< 2	0.10	< 0.5	29	85	4440	4.41	< 10	< 1	0.54	20	0.14	40	214
R572725	299	229	2.2	1.36	24	70	0.5	< 2	0.11	< 0.5	20	95	2180	3.68	< 10	< 1	0.44	20	0.12	335	166
R572726	299	229	1.8	1.03	12	60	0.5	< 2	0.14	< 0.5	21	85	1460	3.98	< 10	< 1	0.38	20	0.13	670	51
R572727	299	229	2.0	1.25	4	50	0.5	< 2	0.15	< 0.5	22	103	1560	3.85	< 10	< 1	0.40	20	0.13	500	94
R572728	299	229	2.4	1.37	12	60	0.5	< 2	0.14	< 0.5	24	114	1880	3.51	< 10	< 1	0.53	20	0.16	375	81

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R572689	299	229	0.01	6	740	12	< 2	7	19	< 0.01	< 10	< 10	7	< 10	8
R572690	299	229	0.01	< 1	680	18	2	7	26	< 0.01	< 10	< 10	9	< 10	6
R572691	299	229	0.01	< 1	210	18	< 2	1	14	< 0.01	< 10	< 10	4	< 10	4
R572692	299	229	0.01	1	200	14	2	1	19	< 0.01	< 10	< 10	8	< 10	4
R572693	299	229	< 0.01	3	230	8	2	3	12	< 0.01	< 10	< 10	4	< 10	4
R572694	299	229	0.01	3	170	10	< 2	1	33	< 0.01	< 10	< 10	5	< 10	6
R572695	299	229	0.01	1	190	8	< 2	1	26	< 0.01	< 10	< 10	7	< 10	6
R572696	299	229	0.01	3	250	4	< 2	1	27	< 0.01	< 10	< 10	8	< 10	4
R572697	299	229	0.01	3	120	8	< 2	1	7	< 0.01	< 10	< 10	6	< 10	4
R572698	299	229	0.01	3	90	16	< 2	1	9	< 0.01	< 10	< 10	8	< 10	6
R572699	299	229	0.01	5	210	22	< 2	2	13	< 0.01	< 10	< 10	10	< 10	10
R572700	299	229	0.01	5	400	12	< 2	1	34	< 0.01	< 10	< 10	15	< 10	22
R572701	299	229	0.02	3	410	8	4	2	20	< 0.01	< 10	< 10	19	< 10	18
R572702	299	229	0.01	3	710	6	< 2	2	14	< 0.01	< 10	< 10	14	< 10	10
R572703	299	229	0.01	4	740	20	2	2	9	< 0.01	< 10	< 10	18	< 10	14
R572704	299	229	0.02	4	700	12	2	2	9	< 0.01	< 10	< 10	17	< 10	14
R572705	299	229	0.01	3	570	8	< 2	2	12	< 0.01	< 10	< 10	14	< 10	14
R572706	299	229	0.01	3	520	8	< 2	1	9	< 0.01	< 10	< 10	15	< 10	14
R572707	299	229	0.01	4	550	6	< 2	2	12	< 0.01	< 10	< 10	12	< 10	14
R572708	299	229	0.01	3	430	14	< 2	2	34	< 0.01	< 10	< 10	10	< 10	16
R572709	299	229	0.02	6	780	14	< 2	3	28	< 0.01	< 10	< 10	22	< 10	24
R572710	299	229	0.02	5	690	12	< 2	3	12	< 0.01	< 10	< 10	23	< 10	16
R572711	299	229	0.01	4	740	18	< 2	3	71	< 0.01	< 10	< 10	21	< 10	16
R572712	299	229	0.01	5	620	16	< 2	2	43	< 0.01	< 10	< 10	17	< 10	20
R572713	299	229	0.01	5	990	14	< 2	3	21	< 0.01	< 10	< 10	23	< 10	22
R572714	299	229	0.01	4	920	16	< 2	4	26	< 0.01	< 10	< 10	23	< 10	44
R572715	299	229	0.01	6	1180	18	< 2	4	24	< 0.01	< 10	< 10	23	< 10	18
R572716	299	229	0.02	5	870	16	2	3	37	< 0.01	< 10	10	22	< 10	20
R572717	299	229	0.01	4	700	18	< 2	2	35	< 0.01	< 10	10	21	< 10	26
R572718	299	229	0.02	4	840	16	< 2	3	57	< 0.01	< 10	10	21	< 10	26
R572719	299	229	0.02	4	880	10	2	3	32	< 0.01	< 10	< 10	29	< 10	42
R572720	299	229	0.01	4	630	18	< 2	3	28	< 0.01	< 10	< 10	25	< 10	34
R572721	299	229	0.01	2	610	16	< 2	3	45	< 0.01	< 10	< 10	24	< 10	22
R572722	299	229	0.02	3	590	8	2	2	20	< 0.01	< 10	< 10	23	< 10	22
R572723	299	229	0.01	5	690	12	2	2	34	< 0.01	< 10	< 10	24	< 10	24
R572724	299	229	0.01	6	550	8	< 2	2	23	< 0.01	< 10	< 10	18	< 10	18
R572725	299	229	0.01	4	590	16	< 2	2	24	< 0.01	< 10	< 10	22	< 10	30
R572726	299	229	0.01	3	520	14	< 2	3	9	< 0.01	< 10	< 10	23	< 10	36
R572727	299	229	0.01	4	600	12	< 2	3	10	< 0.01	< 10	< 10	22	< 10	26
R572728	299	229	0.01	4	550	4	< 2	3	14	< 0.01	< 10	< 10	19	< 10	22

CERTIFICATION: Hart Bichler

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO 93/157
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-JUN-93
Invoice No. :19315201
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315201

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R572729	299	229	2.8	1.87	16	40	0.5	< 2	0.14	< 0.5	26	130	2950	3.48	< 10	< 1	0.68	20	0.17	155	413
R572730	299	229	1.8	2.10	6	40	0.5	< 2	0.12	0.5	29	123	2180	2.89	< 10	< 1	0.62	20	0.15	15	153
R572731	299	229	1.4	1.75	4	30	0.5	< 2	0.11	< 0.5	26	130	1715	4.03	< 10	< 1	0.72	10	0.17	20	91
R572732	299	229	1.6	1.44	22	20	0.5	< 2	0.11	< 0.5	29	102	2400	4.02	< 10	< 1	0.43	10	0.11	40	88
R572733	299	229	1.8	1.29	6	30	< 0.5	< 2	0.13	< 0.5	27	89	2230	4.24	< 10	1	0.40	20	0.11	460	176
R572734	299	229	2.0	1.79	4	50	0.5	< 2	0.10	< 0.5	32	117	2860	2.57	< 10	< 1	0.40	10	0.11	25	203
R572735	299	229	2.0	1.42	14	20	< 0.5	2	0.12	< 0.5	36	103	2450	3.94	< 10	< 1	0.51	10	0.11	15	102
R572736	299	229	1.2	1.18	6	30	< 0.5	< 2	0.12	< 0.5	17	162	1465	3.47	< 10	< 1	0.43	10	0.10	15	172
R572737	299	229	1.2	1.55	6	30	0.5	< 2	0.13	< 0.5	22	143	1600	3.22	< 10	< 1	0.48	10	0.15	30	124
R572738	299	229	1.6	1.57	< 2	70	0.5	< 2	0.16	< 0.5	22	182	2130	2.75	< 10	< 1	0.42	20	0.11	105	298
R572739	299	229	2.0	1.28	6	80	< 0.5	< 2	0.12	< 0.5	19	136	2700	2.16	< 10	< 1	0.38	20	0.11	15	303
R572740	299	229	1.2	1.02	2	40	< 0.5	4	0.12	< 0.5	18	158	1430	3.71	< 10	< 1	0.44	10	0.11	65	284
R572741	299	229	2.6	1.35	< 2	60	0.5	< 2	0.12	< 0.5	14	139	2730	2.92	< 10	< 1	0.40	20	0.13	85	273
R572742	299	229	1.8	1.22	4	30	< 0.5	< 2	0.13	< 0.5	16	160	2090	4.02	< 10	< 1	0.51	10	0.14	20	335
R572743	299	229	2.0	1.91	8	90	0.5	< 2	0.14	< 0.5	26	123	2680	2.86	< 10	< 1	0.72	20	0.28	70	122
R572744	299	229	2.0	1.75	< 2	80	0.5	2	0.16	< 0.5	23	182	2140	3.39	< 10	< 1	0.67	30	0.32	80	162
R572745	299	229	3.2	1.65	< 2	50	< 0.5	2	0.13	< 0.5	22	137	3160	3.22	< 10	1	0.74	20	0.21	20	472
R572746	299	229	2.4	1.03	2	70	< 0.5	< 2	0.10	< 0.5	12	109	2960	2.42	< 10	< 1	0.45	10	0.11	85	370
R572747	299	229	1.8	1.08	2	80	< 0.5	< 2	0.13	< 0.5	15	97	2370	3.21	< 10	1	0.45	20	0.10	285	296
R572748	299	229	2.6	1.08	2	50	< 0.5	< 2	0.14	< 0.5	24	85	3210	4.25	< 10	< 1	0.52	20	0.16	280	175
R572749	299	229	3.0	0.96	< 2	40	< 0.5	4	0.14	< 0.5	21	110	2840	3.66	< 10	< 1	0.40	20	0.16	70	500
R572750	299	229	0.6	0.70	< 2	20	< 0.5	< 2	0.14	< 0.5	29	83	708	5.95	< 10	< 1	0.41	10	0.13	20	237
R572751	299	229	1.4	1.22	< 2	50	< 0.5	< 2	0.15	< 0.5	22	158	1765	3.68	< 10	< 1	0.55	10	0.23	40	157
R572752	299	229	2.0	1.24	4	30	< 0.5	< 2	0.15	< 0.5	20	139	2640	4.65	< 10	< 1	0.54	20	0.25	55	230
R572753	299	229	0.8	1.06	< 2	20	0.5	< 2	0.15	< 0.5	15	126	1090	5.40	< 10	< 1	0.51	10	0.18	30	111
R572754	299	229	1.4	0.84	2	70	< 0.5	< 2	0.19	< 0.5	22	63	1755	3.35	< 10	< 1	0.42	20	0.32	65	261
R572755	299	229	1.2	1.01	< 2	30	< 0.5	< 2	0.15	< 0.5	20	125	1270	5.75	< 10	< 1	0.53	10	0.25	210	132
R572756	299	229	1.2	0.84	14	30	< 0.5	< 2	0.26	< 0.5	24	106	1695	5.41	< 10	< 1	0.47	20	0.27	45	388
R572757	299	229	1.4	1.18	12	90	< 0.5	< 2	0.23	< 0.5	18	132	1765	3.04	< 10	< 1	0.52	20	0.40	50	607
R572758	299	229	1.6	1.00	2	80	0.5	< 2	0.33	< 0.5	20	177	2010	3.53	< 10	< 1	0.44	20	0.17	30	426
R572759	299	229	1.4	1.26	4	90	< 0.5	< 2	0.35	< 0.5	13	161	1635	3.93	< 10	< 1	0.58	20	0.20	125	431
R572760	299	229	2.0	1.32	6	70	0.5	< 2	0.27	< 0.5	12	101	2280	3.95	< 10	< 1	0.56	30	0.38	185	235
R572761	299	229	1.2	0.78	< 2	50	< 0.5	< 2	0.38	< 0.5	11	135	1585	4.72	< 10	< 1	0.41	20	0.15	285	321
R572762	299	229	2.0	0.73	12	50	0.5	2	0.45	< 0.5	14	97	1855	4.73	< 10	< 1	0.39	10	0.14	245	545
R572763	299	229	1.6	0.18	8	20	< 0.5	4	0.47	< 0.5	14	44	1625	7.05	< 10	< 1	0.15	10	0.10	75	216
R572764	299	229	1.4	0.61	2	40	< 0.5	2	0.31	< 0.5	12	108	1700	4.43	< 10	< 1	0.33	10	0.11	115	288
R572765	299	229	2.0	0.24	16	50	< 0.5	2	0.48	< 0.5	21	53	1960	3.81	< 10	< 1	0.14	20	0.16	240	309
R572766	299	229	1.4	0.71	6	60	< 0.5	< 2	0.18	< 0.5	17	100	1665	3.89	< 10	< 1	0.42	10	0.11	185	309
R572767	299	229	3.0	0.40	8	80	< 0.5	< 2	0.45	< 0.5	15	62	2890	3.01	< 10	< 1	0.21	10	0.15	170	390
R572768	299	229	2.2	0.47	4	50	< 0.5	< 2	0.35	< 0.5	15	83	2290	4.05	< 10	< 1	0.27	10	0.15	200	1105

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 93/157
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CERTIFICATE OF ANALYSIS A9315201

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
#572729	299	229	0.01	5	800	16	2	3	60	< 0.01	< 10	10	25	< 10	28
#572730	299	229	0.01	6	750	2	< 2	3	45	< 0.01	< 10	< 10	26	< 10	18
#572731	299	229	0.02	3	620	12	< 2	2	64	< 0.01	< 10	< 10	20	< 10	12
#572732	299	229	0.01	6	670	8	< 2	3	45	< 0.01	< 10	< 10	20	< 10	18
#572733	299	229	0.01	4	670	6	< 2	3	25	< 0.01	< 10	< 10	26	< 10	28
#572734	299	229	0.01	7	730	4	< 2	3	35	< 0.01	< 10	10	26	< 10	24
#572735	299	229	0.01	4	680	10	< 2	2	29	< 0.01	< 10	< 10	19	< 10	16
#572736	299	229	0.01	5	610	12	< 2	2	19	< 0.01	< 10	< 10	16	< 10	14
#572737	299	229	0.01	3	580	6	< 2	4	14	< 0.01	< 10	< 10	22	< 10	22
#572738	299	229	0.01	3	670	6	< 2	4	13	< 0.01	< 10	< 10	24	< 10	56
#572739	299	229	0.01	3	530	8	< 2	3	15	< 0.01	< 10	< 10	18	< 10	18
#572740	299	229	0.01	4	490	8	< 2	2	12	< 0.01	< 10	< 10	15	< 10	18
#572741	299	229	0.01	3	510	6	< 2	4	17	< 0.01	< 10	< 10	26	< 10	38
#572742	299	229	0.01	4	560	16	< 2	2	16	< 0.01	< 10	< 10	16	< 10	20
#572743	299	229	0.02	4	630	4	< 2	4	15	0.01	< 10	< 10	33	< 10	32
#572744	299	229	0.02	6	560	4	< 2	3	9	< 0.01	< 10	< 10	27	< 10	30
#572745	299	229	0.02	4	560	8	2	3	15	< 0.01	< 10	< 10	26	< 10	30
#572746	299	229	0.01	3	410	4	< 2	2	10	< 0.01	< 10	10	15	< 10	16
#572747	299	229	0.01	3	470	8	< 2	3	12	< 0.01	< 10	< 10	21	< 10	34
#572748	299	229	0.01	4	520	4	< 2	2	8	< 0.01	< 10	< 10	19	< 10	22
#572749	299	229	0.01	4	510	12	< 2	3	10	< 0.01	< 10	< 10	21	< 10	22
#572750	299	229	0.01	4	470	10	< 2	2	7	< 0.01	< 10	< 10	13	< 10	6
#572751	299	229	0.01	4	520	2	< 2	3	10	< 0.01	< 10	< 10	21	< 10	12
#572752	299	229	0.01	4	520	6	< 2	3	9	< 0.01	< 10	< 10	22	< 10	16
#572753	299	229	0.01	3	520	12	< 2	2	7	< 0.01	< 10	< 10	16	< 10	10
#572754	299	229	0.01	2	510	4	< 2	2	6	0.01	< 10	< 10	19	< 10	16
#572755	299	229	0.01	5	450	14	< 2	2	6	< 0.01	< 10	< 10	17	< 10	14
#572756	299	229	0.01	6	460	6	2	3	6	0.01	< 10	< 10	21	< 10	8
#572757	299	229	0.01	2	490	6	4	3	7	0.01	< 10	< 10	29	< 10	12
#572758	299	229	0.01	4	450	2	2	3	9	< 0.01	< 10	< 10	22	< 10	10
#572759	299	229	0.01	7	500	4	2	4	11	< 0.01	< 10	< 10	26	< 10	12
#572760	299	229	0.01	3	550	6	< 2	4	10	0.01	< 10	< 10	32	< 10	14
#572761	299	229	0.01	4	440	26	< 2	2	11	< 0.01	< 10	< 10	16	< 10	18
#572762	299	229	0.01	3	450	10	2	2	9	< 0.01	< 10	< 10	17	< 10	18
#572763	299	229	< 0.01	3	410	32	< 2	1	7	< 0.01	< 10	< 10	7	< 10	8
#572764	299	229	0.01	6	520	18	2	2	8	< 0.01	< 10	< 10	11	< 10	20
#572765	299	229	< 0.01	3	490	28	2	1	8	< 0.01	< 10	< 10	9	< 10	46
#572766	299	229	0.01	2	430	14	< 2	1	8	< 0.01	< 10	< 10	11	< 10	26
#572767	299	229	< 0.01	3	410	14	< 2	2	9	< 0.01	< 10	< 10	14	< 10	16
#572768	299	229	< 0.01	2	460	12	8	1	7	< 0.01	< 10	< 10	13	< 10	16

CERTIFICATION: Ian Bichler

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Project : CASINO 93/157
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CERTIFICATE OF ANALYSIS A9315201

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572769	299	229	1.0	0.40	6	90	0.5	< 2	0.81	< 0.5	12	64	1040	3.34	< 10	< 1	0.20	30	0.29	265	475
H572770	299	229	2.8	0.83	2	30	0.5	< 2	0.34	< 0.5	15	104	3600	4.67	< 10	< 1	0.49	20	0.14	100	477
H572771	299	229	1.2	0.35	16	40	0.5	< 2	0.82	< 0.5	14	69	878	4.88	< 10	< 1	0.21	20	0.17	345	584
H572772	299	229	0.6	1.09	14	80	0.5	< 2	0.53	< 0.5	33	124	867	4.30	< 10	< 1	0.54	30	0.29	155	599
H572773	299	229	1.0	0.47	< 2	40	0.5	< 2	0.63	< 0.5	20	44	1015	3.45	< 10	< 1	0.28	30	0.42	105	306
H572774	299	229	1.4	1.06	6	70	0.5	< 2	0.89	< 0.5	9	112	1375	2.80	< 10	< 1	0.51	30	0.63	140	417
H572775	299	229	1.2	0.72	12	50	0.5	6	1.07	< 0.5	9	123	986	3.97	< 10	< 1	0.39	30	0.49	155	316

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CERTIFICATE OF ANALYSIS A9315201

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572769	299	229	< 0.01	2	500	< 2	2	2	10	< 0.01	< 10	< 10	12	< 10	24
H572770	299	229	0.01	4	480	16	4	2	8	< 0.01	< 10	< 10	13	< 10	28
H572771	299	229	< 0.01	2	360	20	4	1	10	< 0.01	< 10	< 10	12	< 10	30
H572772	299	229	0.01	5	470	14	2	3	11	< 0.01	< 10	< 10	24	< 10	28
H572773	299	229	< 0.01	3	420	18	2	2	7	< 0.01	< 10	< 10	19	< 10	22
H572774	299	229	0.01	3	530	22	4	3	11	< 0.01	< 10	< 10	24	< 10	30
H572775	299	229	0.01	4	510	16	< 2	1	10	< 0.01	< 10	< 10	12	< 10	22

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572776	208 274	< 0.01	0.050	0.10	6100
H572777	208 276	< 0.01	0.051	0.14	10900
H572778	208 276	< 0.01	0.073	0.17	7980
H572779	208 276	< 0.01	0.036	0.10	9520
H572780	208 276	< 0.01	0.037	0.24	10520
H572781	208 276	< 0.01	0.064	0.17	9020
H572782	208 276	< 0.01	0.065	0.10	8740
H572783	208 276	< 0.01	0.071	0.14	9400
H572784	208 276	< 0.01	0.108	0.21	9260
H572785	208 276	< 0.01	0.021	0.17	8650
H572786	208 276	< 0.01	0.033	0.17	7450
H572787	208 274	< 0.01	0.054	0.31	5700
H572788	208 276	< 0.01	0.119	0.14	10060
H572789	208 276	< 0.01	0.125	0.14	9640
H572790	208 276	< 0.01	0.122	0.10	11800
H572791	208 276	< 0.01	0.137	0.31	11340
H572792	208 276	< 0.01	0.149	0.34	10480
H572793	208 276	< 0.01	0.173	0.27	10140
H572794	208 276	< 0.01	0.183	0.21	11560
H572795	208 276	< 0.01	0.102	0.27	11260
H572796	208 276	< 0.01	0.090	0.34	11600
H572797	208 276	0.01	0.064	0.65	10400
H572798	208 276	< 0.01	0.058	0.65	10820
H572799	208 276	< 0.01	0.107	0.72	10150
H572800	208 276	0.01	0.061	0.45	8800
H572801	208 276	< 0.01	0.045	0.24	10040
H572802	208 276	0.01	0.030	0.27	11280
H572803	208 276	0.01	0.038	0.58	10600
H572804	208 276	0.01	0.035	0.34	11100
H572805	208 276	< 0.01	0.031	0.24	10970
H572806	208 276	0.01	0.034	0.24	10960
H572807	208 276	0.01	0.035	0.34	11160
H572808	208 273	0.01	0.019	0.24	12270
H572809	208 276	0.01	0.021	0.34	10420
H572810	208 273	0.01	0.035	0.27	11950
H572811	208 274	0.01	0.026	0.31	3540
H572812	208 273	0.01	0.021	0.55	12180
H572813	208 276	0.01	0.022	0.27	11080
H572814	208 273	0.01	0.023	0.27	14160
H572815	208 276	0.01	0.025	0.24	11300

CERTIFICATION: D Christie

Chemex Labs Ltd.

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/158
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-JUN-93
Invoice No. : I9315364
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315364

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H572816	208	276	0.01	0.013	0.14	11700
H572817	208	276	0.03	0.025	0.31	10640
H572818	208	273	0.06	0.049	0.24	12340
H572819	208	276	0.17	0.025	0.27	10440
H572820	208	276	0.52	0.016	0.51	10000
H572821	208	276	0.29	0.013	0.38	11300
H572822	208	276	0.58	0.024	0.69	11100
H572823	208	276	0.40	0.014	0.58	10120
H572824	208	276	0.24	0.017	0.34	8340

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 158
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 17-JUN-93
Invoice No. :I9315365
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315365

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#572776	299	229	0.6	0.54	14	180	< 0.5	4	0.02	< 0.5	< 1	149	19	3.59	10	< 1	0.96	20	0.03	15	335
#572777	299	229	0.8	0.65	18	150	< 0.5	4	0.01	< 0.5	< 1	148	25	3.95	10	< 1	1.08	20	0.03	15	332
#572778	299	229	0.8	0.51	28	130	< 0.5	8	0.01	< 0.5	< 1	117	23	4.47	10	< 1	1.16	30	0.02	10	487
#572779	299	229	3.2	0.54	32	160	< 0.5	4	0.01	< 0.5	< 1	156	13	3.48	10	< 1	1.04	40	0.02	15	236
#572780	299	229	2.0	0.58	16	210	< 0.5	4	0.01	< 0.5	< 1	113	11	3.02	10	< 1	0.95	30	0.03	10	257
#572781	299	229	1.2	0.60	22	150	< 0.5	4	< 0.01	< 0.5	< 1	118	12	3.64	10	< 1	1.04	30	0.04	10	410
#572782	299	229	1.2	0.52	24	90	< 0.5	4	< 0.01	< 0.5	< 1	106	18	4.52	10	< 1	1.15	30	0.03	10	416
#572783	299	229	1.8	0.79	18	230	< 0.5	6	0.01	< 0.5	< 1	105	36	2.94	10	< 1	0.96	50	0.07	10	498
#572784	299	229	1.6	0.67	14	200	< 0.5	8	< 0.01	< 0.5	< 1	89	13	2.74	10	< 1	0.90	40	0.04	10	740
#572785	299	229	1.4	0.71	14	360	< 0.5	4	< 0.01	< 0.5	< 1	112	13	1.55	10	< 1	0.67	60	0.04	10	140
#572786	299	229	1.6	0.62	14	270	< 0.5	6	< 0.01	< 0.5	< 1	92	10	1.68	10	< 1	0.65	40	0.03	5	209
#572787	299	229	1.4	0.70	36	90	< 0.5	8	< 0.01	< 0.5	< 1	127	19	3.40	10	< 1	1.05	30	0.04	5	379
#572788	299	229	1.2	0.59	48	100	< 0.5	6	< 0.01	< 0.5	< 1	99	16	5.34	10	< 1	1.42	20	0.03	10	789
#572789	299	229	0.6	0.53	40	70	< 0.5	4	< 0.01	< 0.5	< 1	98	13	5.99	10	< 1	1.46	20	0.02	10	852
#572790	299	229	1.6	0.68	36	70	< 0.5	4	< 0.01	< 0.5	< 1	70	19	4.17	10	< 1	1.19	30	0.04	5	813
#572791	299	229	4.2	0.59	28	100	< 0.5	4	< 0.01	< 0.5	< 1	97	24	5.44	10	< 1	1.41	20	0.03	10	931
#572792	299	229	2.0	0.39	36	80	< 0.5	6	< 0.01	< 0.5	< 1	80	16	5.25	10	< 1	1.25	30	0.02	5	905
#572793	299	229	1.4	0.46	52	90	< 0.5	4	< 0.01	< 0.5	< 1	88	15	4.94	10	< 1	1.18	20	0.02	5	1085
#572794	299	229	1.8	0.48	20	100	< 0.5	4	< 0.01	< 0.5	< 1	78	21	4.70	10	< 1	1.17	30	0.02	5	1185
#572795	299	229	1.8	0.53	12	110	< 0.5	6	< 0.01	< 0.5	< 1	88	37	4.52	10	< 1	1.16	20	0.03	5	684
#572796	299	229	2.4	0.67	48	140	< 0.5	6	0.01	< 0.5	< 1	78	38	4.38	10	< 1	1.23	20	0.03	10	608
#572797	299	229	9.2	0.72	70	160	< 0.5	8	< 0.01	< 0.5	< 1	102	49	3.62	10	< 1	1.03	40	0.04	10	426
#572798	299	229	8.2	0.61	64	170	< 0.5	10	0.01	< 0.5	< 1	98	39	3.14	10	< 1	0.90	60	0.03	10	398
#572799	299	229	6.2	0.66	110	130	< 0.5	10	< 0.01	< 0.5	< 1	98	35	4.23	10	< 1	1.23	60	0.03	10	704
#572800	299	229	4.4	0.85	160	200	< 0.5	6	< 0.01	< 0.5	< 1	87	40	2.45	< 10	< 1	0.95	20	0.04	10	432
#572801	299	229	3.4	0.77	82	180	< 0.5	6	0.01	< 0.5	< 1	88	43	2.89	10	< 1	0.99	20	0.04	15	313
#572802	299	229	3.2	0.77	20	230	< 0.5	6	0.01	< 0.5	< 1	83	62	2.48	10	< 1	0.96	30	0.06	15	198
#572803	299	229	4.8	0.81	46	140	< 0.5	12	0.01	< 0.5	< 1	100	65	3.20	10	< 1	1.07	20	0.06	15	263
#572804	299	229	4.2	0.61	34	160	< 0.5	8	0.01	< 0.5	< 1	70	62	2.56	< 10	< 1	0.83	20	0.04	15	226
#572805	299	229	2.4	0.65	28	250	< 0.5	2	0.01	< 0.5	< 1	143	47	1.86	< 10	< 1	0.77	20	0.05	20	209
#572806	299	229	3.4	0.55	32	230	< 0.5	4	0.01	< 0.5	< 1	89	59	1.85	< 10	< 1	0.67	20	0.04	15	212
#572807	299	229	3.2	0.67	42	200	< 0.5	4	0.01	< 0.5	< 1	159	66	2.60	< 10	< 1	0.92	20	0.05	20	241
#572808	299	229	2.4	0.58	6	240	< 0.5	4	0.01	< 0.5	< 1	102	61	2.12	< 10	< 1	0.70	20	0.04	10	120
#572809	299	229	3.8	0.83	14	200	< 0.5	4	0.02	< 0.5	< 1	170	72	3.02	10	< 1	0.84	30	0.08	20	135
#572810	299	229	4.0	0.78	6	230	< 0.5	4	0.02	< 0.5	1	113	77	2.20	10	< 1	0.73	30	0.07	15	216
#572811	299	229	3.8	0.76	8	290	< 0.5	4	0.01	< 0.5	< 1	130	61	2.33	10	< 1	0.79	20	0.06	15	176
#572812	299	229	3.6	0.88	6	350	< 0.5	6	0.02	< 0.5	< 1	123	57	2.24	10	< 1	0.79	30	0.08	20	139
#572813	299	229	4.6	0.81	2	430	< 0.5	6	0.02	< 0.5	< 1	124	62	2.07	10	< 1	0.63	20	0.08	15	146
#572814	299	229	4.4	0.70	10	300	< 0.5	4	0.01	< 0.5	< 1	113	78	2.45	< 10	< 1	0.65	20	0.07	15	149
#572815	299	229	3.8	1.08	16	180	< 0.5	6	0.03	< 0.5	< 1	171	60	2.58	10	< 1	0.91	30	0.11	25	171

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 158
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N. :1-B
Total Pag :2
Certificate Date: 17-JUN-93
Invoice No. : I9315365
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315365

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572776	299	229	0.01	1	330	8	4	1	18	< 0.01	< 10	< 10	12	< 10	6
H572777	299	229	0.01	1	640	6	2	2	26	< 0.01	< 10	< 10	14	10	6
H572778	299	229	0.01	1	910	4	4	2	33	0.01	< 10	< 10	9	10	6
H572779	299	229	0.02	1	420	6	2	1	17	< 0.01	< 10	< 10	4	10	4
H572780	299	229	0.01	1	180	6	< 2	1	12	< 0.01	< 10	< 10	6	10	4
H572781	299	229	0.02	1	240	4	4	1	20	0.01	< 10	< 10	9	10	4
H572782	299	229	0.01	< 1	280	6	4	1	21	0.01	< 10	< 10	11	10	4
H572783	299	229	0.02	1	230	6	4	1	23	< 0.01	< 10	< 10	8	< 10	6
H572784	299	229	0.01	< 1	230	14	6	1	16	< 0.01	< 10	< 10	4	10	4
H572785	299	229	0.01	1	210	14	< 2	1	13	< 0.01	< 10	< 10	11	< 10	4
H572786	299	229	0.01	1	190	14	2	1	10	< 0.01	< 10	< 10	10	< 10	2
H572787	299	229	0.01	1	430	6	2	1	31	0.01	< 10	< 10	14	10	4
H572788	299	229	0.02	< 1	650	4	6	3	38	0.01	< 10	< 10	11	10	6
H572789	299	229	0.02	< 1	480	20	8	1	28	0.02	< 10	< 10	10	20	6
H572790	299	229	0.02	< 1	440	2	6	1	31	0.01	< 10	< 10	8	10	4
H572791	299	229	0.02	< 1	280	4	8	1	24	0.01	< 10	< 10	11	10	6
H572792	299	229	0.01	< 1	260	18	6	1	17	0.01	< 10	< 10	4	10	6
H572793	299	229	0.01	< 1	410	6	8	1	24	0.01	< 10	< 10	3	10	4
H572794	299	229	0.01	< 1	300	4	8	2	17	0.01	< 10	< 10	2	10	4
H572795	299	229	0.01	< 1	270	6	4	2	13	0.01	< 10	< 10	10	10	6
H572796	299	229	0.01	1	770	6	4	4	17	0.02	< 10	< 10	15	10	6
H572797	299	229	0.01	< 1	1370	10	2	11	24	0.01	< 10	< 10	13	10	6
H572798	299	229	0.01	< 1	1430	8	2	14	29	0.01	< 10	< 10	12	10	4
H572799	299	229	0.01	1	640	14	6	4	18	0.01	< 10	< 10	11	10	4
H572800	299	229	0.01	1	1820	8	2	19	15	0.01	< 10	< 10	10	10	6
H572801	299	229	0.01	< 1	1290	16	2	13	25	0.01	< 10	< 10	13	10	6
H572802	299	229	0.01	< 1	420	8	2	3	31	< 0.01	< 10	< 10	12	< 10	10
H572803	299	229	0.01	1	570	6	4	3	34	0.01	< 10	< 10	10	10	8
H572804	299	229	0.01	< 1	650	10	2	3	39	< 0.01	< 10	< 10	6	< 10	8
H572805	299	229	0.01	1	510	4	2	2	33	< 0.01	< 10	< 10	4	< 10	6
H572806	299	229	0.01	1	650	8	2	4	22	< 0.01	< 10	< 10	6	10	6
H572807	299	229	0.02	2	840	8	2	4	69	< 0.01	< 10	< 10	6	10	6
H572808	299	229	0.01	1	240	4	< 2	1	29	< 0.01	< 10	< 10	7	< 10	6
H572809	299	229	0.02	2	460	12	2	1	45	< 0.01	< 10	< 10	11	< 10	6
H572810	299	229	0.02	1	360	8	< 2	1	38	< 0.01	< 10	< 10	7	< 10	6
H572811	299	229	0.02	1	210	8	< 2	1	24	< 0.01	< 10	< 10	6	10	6
H572812	299	229	0.02	1	340	18	< 2	1	40	< 0.01	< 10	< 10	10	< 10	8
H572813	299	229	0.02	1	290	10	< 2	1	31	< 0.01	< 10	< 10	11	< 10	6
H572814	299	229	0.02	1	250	10	< 2	1	24	< 0.01	< 10	< 10	11	< 10	8
H572815	299	229	0.02	2	630	20	< 2	1	89	< 0.01	< 10	< 10	14	10	12

CERTIFICATION: Stuart Pitchler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 158
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 17-JUN-93
Invoice No. :19315365
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315365

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572816	299	229	3.2	1.00	2	30	< 0.5	2	0.01	< 0.5	12	106	83	2.39	10	< 1	0.65	10	0.10	20	86
H572817	299	229	4.8	0.91	12	30	< 0.5	4	0.01	< 0.5	23	132	365	4.13	10	< 1	0.56	20	0.08	20	164
H572818	299	229	3.4	0.88	< 2	60	< 0.5	2	0.01	< 0.5	13	95	627	2.53	10	< 1	0.50	30	0.08	20	321
H572819	299	229	5.2	0.87	< 2	30	< 0.5	6	0.01	< 0.5	18	142	1735	4.53	10	< 1	0.53	30	0.07	20	158
H572820	299	229	8.4	1.06	122	10	< 0.5	2	0.01	< 0.5	15	106	5830	11.10	10	< 1	0.58	30	0.09	20	99
H572821	299	229	5.0	1.23	12	30	< 0.5	12	0.02	< 0.5	29	131	3310	5.90	10	< 1	0.64	30	0.11	25	90
H572822	299	229	9.8	1.32	32	20	< 0.5	8	0.02	< 0.5	30	117	6580	4.62	10	< 1	0.66	40	0.12	30	148
H572823	299	229	5.4	1.29	< 2	20	< 0.5	14	0.02	< 0.5	22	133	4220	4.35	10	< 1	0.63	50	0.11	25	81
H572824	299	229	3.8	1.17	2	40	< 0.5	6	0.01	< 0.5	23	115	2690	3.58	10	< 1	0.58	30	0.10	20	111

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Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Y1A 3S9

Project : CASINO 158
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 17-JUN-93
Invoice No. :I9315365
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315365

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572816	299	229	0.01	2	180	8	< 2	1	26	< 0.01	< 10	< 10	9	< 10	8
H572817	299	229	0.01	3	110	12	2	1	19	< 0.01	< 10	< 10	9	< 10	14
H572818	299	229	0.01	2	170	8	< 2	1	29	< 0.01	< 10	< 10	4	< 10	12
H572819	299	229	0.01	3	80	6	< 2	1	27	< 0.01	< 10	< 10	6	< 10	16
H572820	299	229	0.01	3	40	14	2	2	15	< 0.01	< 10	< 10	7	< 10	32
H572821	299	229	0.01	4	180	12	< 2	3	42	< 0.01	< 10	< 10	11	< 10	24
H572822	299	229	0.01	4	150	8	2	3	27	< 0.01	< 10	< 10	12	< 10	34
H572823	299	229	0.01	4	180	14	< 2	4	31	< 0.01	< 10	< 10	15	10	28
H572824	299	229	0.01	4	220	4	< 2	3	16	< 0.01	< 10	< 10	11	10	20

CERTIFICATION: Hartt Bichler

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Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :1
Total Pag :5
Certificate Date: 24-JUN-93
Invoice No. :I9315812
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315812

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H564030	208	276	0.06	0.067	0.72	7460
H564031	208	276	0.04	0.093	0.51	10580
H564032	208	276	0.04	0.078	0.58	10340
H564033	208	273	0.05	0.074	0.86	12720
H564034	208	276	0.05	0.092	0.34	10560
H564035	208	273	0.06	0.064	1.27	12020
H564036	208	276	0.06	0.086	1.75	10480
H564037	208	276	0.06	0.106	1.89	10260
H564038	208	273	0.05	0.133	1.89	12060
H564039	208	276	0.05	0.064	0.89	10340
H564040	208	273	0.06	0.085	0.79	12280
H564041	208	274	0.08	0.128	0.96	5340
H564042	208	274	0.07	0.099	2.40	7080
H564043	208	274	0.06	0.111	1.41	6180
H564044	208	274	0.05	0.169	1.99	7040
H564045	208	276	0.06	0.161	1.82	11200
H564046	208	274	0.07	0.122	1.41	5680
H564047	208	276	0.10	0.173	2.37	11460
H564048	208	273	0.07	0.079	0.82	11920
H564049	208	273	0.04	0.085	0.45	12620
H564050	208	276	0.10	0.031	0.48	11340
H564051	208	273	0.13	0.066	0.55	13240
H564052	208	276	0.06	0.125	0.21	10020
H564053	208	274	0.05	0.083	0.17	5940
H564054	208	276	0.07	0.082	0.21	7400
H564055	208	274	0.06	0.103	0.17	6880
H564056	208	273	0.05	0.079	0.41	12580
H564057	208	276	0.09	0.098	0.38	10040
H564058	208	276	0.15	0.058	0.89	9860
H564059	208	276	0.09	0.050	0.45	11680
H564060	208	273	0.09	0.071	0.17	11820
H564061	208	276	0.16	0.101	0.14	11020
H564062	208	273	0.16	0.130	0.21	12100
H564063	208	274	0.30	0.073	0.14	6000
H564064	208	276	0.15	0.081	0.10	10740
H564065	208	276	0.11	0.081	0.14	8040
H564066	208	274	0.14	0.060	0.10	5680
H564067	208	274	0.16	0.060	0.14	5700
H564068	208	274	0.39	0.077	0.17	7150
H564069	208	276	0.54	0.062	0.58	10980

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. : I9315812
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315812

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H564070	208	273	0.60	0.091	0.21	11840						
H564071	208	276	0.43	0.063	0.14	11080						
H564072	208	273	0.15	0.149	0.10	14300						
H564073	208	273	0.24	0.114	0.10	11960						
H564074	208	273	0.38	0.090	0.34	12120						
H564075	208	273	0.15	0.014	0.17	12000						
H564076	208	276	0.14	0.016	0.17	8300						
H564077	208	276	0.18	0.005	0.14	10300						
H564078	208	273	0.11	0.013	0.14	13460						
H564079	208	276	0.42	0.016	0.24	11280						
H564080	208	274	0.42	0.018	0.51	6480						
H564081	208	273	0.27	0.034	0.34	12260						
H564082	208	276	0.11	0.022	0.24	9160						
H564083	208	276	0.08	0.013	0.07	9560						
H564084	208	273	0.14	0.009	0.17	11960						
H564085	208	273	0.09	0.023	0.10	13060						
H564086	208	276	0.07	0.007	0.10	10040						
H564087	208	273	0.07	0.009	0.07	12100						
H564088	208	273	0.05	0.007	0.07	13700						
H564089	208	276	0.18	0.011	0.14	8340						
H564090	208	276	0.16	0.008	0.14	10820						
H564091	208	276	0.18	0.011	0.24	9540						
H564092	208	274	0.19	0.008	0.17	3300						
H564093	208	276	0.25	0.017	0.17	10960						
H564094	208	276	0.22	0.016	0.10	11100						
H564095	208	273	0.18	0.017	0.17	13060						
H564096	208	274	0.30	0.013	0.38	4160						
H564097	208	276	0.11	0.012	0.14	11660						
H564098	208	276	0.10	0.009	0.10	10600						
H564099	208	276	0.21	0.027	0.34	11100						
H564100	208	273	0.19	0.032	0.14	11860						
H564101	208	273	0.10	0.040	0.03	13100						
H564102	208	273	0.14	0.052	0.07	13380						
H564103	208	273	0.15	0.058	0.10	12220						
H564104	208	273	0.12	0.149	0.07	12040						
H564105	208	273	0.10	0.237	0.07	13280						
H564106	208	273	0.23	0.428	0.10	12300						
H564107	208	276	0.12	0.083	0.10	11460						
H564108	208	273	0.17	0.176	0.17	12480						
H564109	208	276	0.09	0.093	0.10	11640						

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CERTIFICATE OF ANALYSIS A9315812

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H564110	208	273	0.13	0.192	0.14	12280						
H564111	208	276	0.13	0.047	0.10	11800						
H564112	208	273	0.10	0.054	0.07	12460						
H564113	208	273	0.10	0.066	0.07	12440						
H564114	208	273	0.10	0.020	0.14	13780						
H564115	208	273	0.10	0.061	0.14	12120						
H564116	208	273	0.08	0.065	0.10	13680						
H564117	208	273	0.13	0.144	0.14	12700						
H564118	208	273	0.15	0.106	0.14	12620						
H564119	208	273	0.09	0.090	0.10	11840						
H564120	208	273	0.07	0.124	0.07	12780						
H564121	208	273	0.06	0.059	0.07	12540						
H564122	208	273	0.07	0.060	0.03	12400						
H564123	208	273	0.06	0.063	0.07	13100						
H564124	208	273	0.11	0.086	0.14	12640						
H564125	208	273	0.09	0.103	0.17	11900						
H564126	208	276	0.26	0.129	0.99	11620						
H564127	208	273	0.12	0.084	0.17	12960						
H564128	208	273	0.08	0.045	0.10	12800						
H564129	208	273	0.08	0.082	0.10	12280						
H564130	208	273	0.07	0.053	0.14	12290						
H564131	208	273	0.11	0.129	0.14	12040						
H564132	208	276	0.05	0.071	0.07	11140						
H564133	208	276	0.09	0.051	0.17	11800						
H564134	208	273	0.04	0.044	0.03	12340						
H564135	208	276	0.05	0.055	0.07	11700						
H564136	208	273	0.09	0.156	0.10	13120						
H564137	208	273	0.07	0.051	0.17	12220						
H564138	208	273	0.06	0.093	0.17	12860						
H564139	208	273	0.09	0.061	0.17	13400						
H564140	208	273	0.19	0.151	0.27	12340						
H564141	208	273	0.15	0.082	0.21	13000						
H564142	208	273	0.22	0.050	0.38	12160						
H564143	208	273	0.17	0.034	0.27	14160						
H564144	208	273	0.12	0.075	0.17	13120						
H564145	208	276	0.14	0.062	0.24	9440						
H564146	208	276	0.11	0.031	0.14	10900						
H564147	208	273	0.11	0.033	0.17	12300						
H564148	208	274	0.10	0.025	0.21	3740						
H564149	208	276	0.10	0.049	0.17	8980						

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CERTIFICATE OF ANALYSIS A9315812

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H564150	208	274	0.12	0.058	0.27	6180
H564151	208	276	0.10	0.057	0.17	10720
H564152	208	276	0.15	0.057	0.45	9500
H564153	208	274	0.12	0.083	0.17	7250
H564154	208	273	0.08	0.052	0.17	13940
H564155	208	274	0.08	0.049	0.17	5240
H564156	208	273	0.11	0.079	0.21	14120
H564157	208	273	0.08	0.061	0.21	14460
H564158	208	273	0.15	0.103	0.27	13560
H564159	208	273	0.11	0.175	0.24	14180
H564160	208	273	0.11	0.097	0.14	15340
H564161	208	273	0.06	0.118	0.10	12540
H564162	208	276	0.08	0.116	0.14	10020
H564163	208	274	0.08	0.147	0.14	7000
H564164	208	276	0.10	0.076	0.21	7560
H564165	208	276	0.13	0.102	0.21	7700
H564166	208	274	0.16	0.082	0.24	6920
H564167	208	276	0.13	0.075	0.21	7840
H564168	208	276	0.12	0.140	0.24	8020
H564169	208	276	0.10	0.075	0.17	8560
H564170	208	276	0.09	0.077	0.17	8100
H564171	208	276	0.07	0.051	0.17	7600
H564172	208	276	0.10	0.109	0.14	7320
H564173	208	276	0.09	0.056	0.14	8660
H564174	208	276	0.09	0.088	0.14	7340
H564175	208	276	0.07	0.114	0.10	7640
H564176	208	276	0.12	0.083	0.24	7780
H564177	208	276	0.10	0.062	0.17	7420
H564178	208	276	0.08	0.046	0.10	7520
H564179	208	276	0.06	0.070	0.07	7520
H564180	208	276	0.09	0.080	0.24	7360
H564181	208	276	0.12	0.142	0.17	7720
H564182	208	274	0.09	0.110	0.17	7260
H564183	208	276	0.06	0.081	0.10	7440
H564184	208	274	0.07	0.119	0.10	7060
H564185	208	276	0.09	0.192	0.10	7560
H564186	208	274	0.14	0.078	0.21	7000
H564187	208	276	0.12	0.164	0.14	7320
H564188	208	276	0.12	0.109	0.10	7340
H564189	208	274	0.11	0.090	0.14	6880

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Project : CASINO 159
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Certificate Date: 24-JUN-93
Invoice No. : I9315812
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315812

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H564190	208	276	0.16	0.129	0.24	7600
H564191	208	274	0.07	0.123	0.03	7000
H564192	208	276	0.10	0.094	0.10	8000
H564193	208	276	0.08	0.108	0.07	8020
H564194	208	274	0.08	0.095	0.03	7260
H564195	208	276	0.11	0.075	0.07	7540
H564196	208	276	0.05	0.092	< 0.03	7660
H564197	208	274	0.05	0.079	< 0.03	7180
H564198	208	274	0.06	0.054	0.07	6920
H564199	208	276	0.07	0.064	0.03	7520
H564200	208	274	0.07	0.082	0.07	7120
H564201	208	274	0.05	0.054	0.07	7020
H564202	208	274	0.06	0.127	< 0.03	6780
H564203	208	276	0.04	0.099	0.03	7860
H564204	208	276	0.08	0.093	0.10	7740
H564205	208	274	0.06	0.091	0.03	7060
H564206	208	274	0.03	0.061	< 0.03	7160
H564207	208	276	0.04	0.106	0.03	7480
751	208	274	0.18	0.013	0.17	6320
752	208	274	0.18	0.145	0.24	6120
753	208	274	0.10	0.088	0.14	5140
754	208	274	0.08	0.073	0.14	3920
755	208	274	0.08	0.086	0.14	2940
756	208	274	0.17	0.180	0.21	3000

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Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. : I9315813
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315813

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H564030	299	229	1.4	1.06	6	650	< 0.5	2	0.02	< 0.5	3	135	546	1.74	< 10	< 1	0.65	30	0.46	60	425
H564031	299	229	1.2	0.87	6	630	< 0.5	2	0.01	< 0.5	4	122	402	2.07	10	< 1	0.66	40	0.46	80	609
H564032	299	229	1.4	0.72	8	510	< 0.5	2	0.01	< 0.5	3	147	392	2.23	< 10	< 1	0.60	30	0.27	55	469
H564033	299	229	2.6	0.76	96	350	< 0.5	4	0.01	< 0.5	2	132	519	2.53	< 10	< 1	0.64	30	0.23	45	471
H564034	299	229	1.2	0.72	4	200	< 0.5	2	0.01	< 0.5	3	111	509	2.30	< 10	< 1	0.58	30	0.29	45	595
H564035	299	229	3.8	0.66	18	400	< 0.5	4	0.01	< 0.5	3	116	616	3.17	< 10	< 1	0.62	40	0.19	50	403
H564036	299	229	3.8	0.62	20	150	< 0.5	4	0.01	< 0.5	4	100	544	1.96	< 10	< 1	0.46	50	0.18	40	575
H564037	299	229	5.4	0.60	32	160	< 0.5	4	0.02	< 0.5	1	108	561	2.15	< 10	< 1	0.46	50	0.09	20	724
H564038	299	229	3.8	0.82	20	120	< 0.5	4	0.01	< 0.5	1	89	481	1.61	< 10	< 1	0.48	40	0.21	25	845
H564039	299	229	2.2	0.99	6	150	< 0.5	2	0.01	< 0.5	2	105	514	1.54	< 10	< 1	0.53	40	0.27	30	408
H564040	299	229	2.6	1.04	16	130	< 0.5	2	0.01	< 0.5	2	98	602	1.52	< 10	< 1	0.56	40	0.40	40	530
H564041	299	229	2.0	1.13	4	130	< 0.5	4	0.02	< 0.5	4	135	785	2.52	10	< 1	0.69	60	0.50	60	825
H564042	299	229	4.2	0.78	10	140	< 0.5	4	0.01	< 0.5	4	157	728	2.26	10	< 1	0.52	60	0.24	45	640
H564043	299	229	3.2	0.77	20	140	< 0.5	2	0.01	< 0.5	2	145	595	2.51	10	< 1	0.53	50	0.21	35	704
H564044	299	229	4.4	1.09	12	140	< 0.5	2	0.01	< 0.5	2	160	477	1.87	10	< 1	0.68	40	0.44	45	1030
H564045	299	229	3.8	0.74	16	140	< 0.5	4	0.01	< 0.5	1	107	601	2.18	< 10	< 1	0.54	50	0.22	25	1010
H564046	299	229	3.4	0.90	20	360	< 0.5	2	0.02	< 0.5	2	180	609	1.86	< 10	< 1	0.63	40	0.41	45	707
H564047	299	229	5.8	0.94	22	740	< 0.5	4	0.02	< 0.5	3	114	962	2.35	< 10	< 1	0.61	40	0.46	50	1025
H564048	299	229	2.0	0.63	8	130	< 0.5	2	0.01	< 0.5	3	120	612	1.67	< 10	< 1	0.45	40	0.27	45	463
H564049	299	229	1.8	0.63	14	140	< 0.5	4	0.01	< 0.5	1	154	359	1.29	< 10	< 1	0.45	60	0.22	40	513
H564050	299	229	1.6	1.25	14	340	< 0.5	< 2	0.02	< 0.5	6	116	1005	2.50	< 10	< 1	0.62	20	0.38	65	188
H564051	299	229	1.2	1.65	8	780	< 0.5	2	0.03	< 0.5	8	73	1215	3.27	10	< 1	0.93	20	0.78	85	372
H564052	299	229	0.6	0.87	< 2	120	< 0.5	< 2	0.01	< 0.5	1	128	598	1.59	10	< 1	0.49	80	0.29	35	777
H564053	299	229	0.8	0.90	20	110	< 0.5	2	0.03	< 0.5	1	92	474	1.76	10	< 1	0.32	80	0.04	10	522
H564054	299	229	1.4	0.76	40	120	< 0.5	2	0.01	< 0.5	1	127	645	2.60	10	< 1	0.44	70	0.05	15	485
H564055	299	229	1.0	0.73	64	90	< 0.5	2	0.01	< 0.5	1	120	556	2.35	< 10	< 1	0.43	60	0.03	15	633
H564056	299	229	1.6	0.61	32	100	< 0.5	2	< 0.01	< 0.5	1	112	450	1.71	< 10	< 1	0.44	50	0.06	15	478
H564057	299	229	1.8	1.03	16	130	< 0.5	2	0.01	< 0.5	1	111	937	2.17	< 10	< 1	0.51	50	0.19	30	601
H564058	299	229	2.6	0.63	26	310	< 0.5	8	0.02	< 0.5	4	67	1525	3.92	< 10	< 1	0.40	20	0.09	20	356
H564059	299	229	2.6	0.44	26	110	< 0.5	2	0.01	< 0.5	3	63	916	1.78	< 10	< 1	0.34	20	0.03	15	307
H564060	299	229	1.2	0.50	10	240	< 0.5	4	0.01	< 0.5	4	123	909	2.30	< 10	< 1	0.45	30	0.15	45	429
H564061	299	229	0.4	1.02	12	150	< 0.5	2	0.02	< 0.5	4	87	1440	1.46	< 10	< 1	0.52	20	0.50	55	575
H564062	299	229	1.0	1.68	6	420	< 0.5	4	0.11	< 0.5	8	128	1670	1.85	< 10	< 1	0.91	20	1.08	120	806
H564063	299	229	0.6	1.47	2	160	< 0.5	< 2	0.04	0.5	10	138	3320	1.54	< 10	< 1	0.81	30	0.98	130	464
H564064	299	229	0.8	1.28	8	110	< 0.5	2	0.06	< 0.5	6	124	1560	1.63	< 10	< 1	0.71	20	0.85	115	503
H564065	299	229	0.8	1.42	14	80	< 0.5	4	0.02	< 0.5	4	107	1145	1.60	< 10	< 1	0.50	20	0.69	140	539
H564066	299	229	1.6	0.96	14	150	< 0.5	6	0.01	< 0.5	4	111	1390	1.67	< 10	< 1	0.31	20	0.27	75	378
H564067	299	229	0.8	1.44	6	250	0.5	2	0.07	< 0.5	5	87	1670	1.80	< 10	< 1	0.46	20	0.42	95	389
H564068	299	229	0.6	1.28	6	130	< 0.5	4	0.10	0.5	7	91	4470	1.58	< 10	< 1	0.57	20	0.59	100	509
H564069	299	229	1.8	1.28	22	160	< 0.5	6	0.16	4.0	11	75	5830	2.09	< 10	< 1	0.56	20	0.67	130	388

CERTIFICATION: Ivan Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. :I9315813
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315813

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
#564030	299	229	0.02	4	130	20	2	4	14	0.03	< 10	< 10	28	< 10	50
#564031	299	229	0.02	4	150	12	2	4	12	0.04	10	< 10	27	< 10	70
#564032	299	229	0.02	4	160	10	< 2	3	13	0.02	< 10	< 10	21	< 10	58
#564033	299	229	0.02	3	150	24	4	3	13	0.02	< 10	< 10	23	< 10	38
#564034	299	229	0.02	3	160	18	< 2	4	10	0.02	< 10	< 10	21	< 10	40
#564035	299	229	0.02	4	320	20	< 2	3	18	0.01	< 10	< 10	21	< 10	58
#564036	299	229	0.01	4	170	34	2	3	9	0.01	10	< 10	20	< 10	50
#564037	299	229	0.02	2	250	36	4	3	13	< 0.01	10	< 10	19	< 10	22
#564038	299	229	0.02	4	190	26	4	6	13	0.02	10	< 10	34	< 10	16
#564039	299	229	0.02	2	170	16	< 2	6	10	0.01	10	< 10	33	< 10	26
#564040	299	229	0.02	3	180	36	2	4	11	0.02	10	< 10	28	< 10	32
#564041	299	229	0.02	6	220	18	< 2	6	11	0.03	10	< 10	34	< 10	62
#564042	299	229	0.02	6	180	16	2	4	10	0.01	10	< 10	26	< 10	44
#564043	299	229	0.02	4	290	14	8	4	16	0.01	10	< 10	26	< 10	22
#564044	299	229	0.02	4	270	14	4	6	23	0.04	10	< 10	41	< 10	16
#564045	299	229	0.02	3	300	18	< 2	4	13	0.01	10	< 10	23	< 10	16
#564046	299	229	0.02	4	260	26	< 2	5	23	0.02	10	< 10	29	< 10	26
#564047	299	229	0.02	4	190	24	2	4	25	0.03	< 10	< 10	35	< 10	52
#564048	299	229	0.02	4	130	10	< 2	3	8	0.01	< 10	< 10	23	< 10	38
#564049	299	229	0.02	3	190	18	< 2	3	14	0.01	10	< 10	22	< 10	24
#564050	299	229	0.03	5	250	20	< 2	6	17	0.01	< 10	< 10	33	< 10	82
#564051	299	229	0.03	6	370	14	2	10	32	0.08	< 10	< 10	65	< 10	80
#564052	299	229	0.01	3	200	6	4	4	12	0.01	10	< 10	24	< 10	16
#564053	299	229	0.01	3	730	14	2	2	207	< 0.01	10	< 10	16	< 10	16
#564054	299	229	0.01	2	370	14	12	2	43	< 0.01	10	< 10	14	< 10	22
#564055	299	229	0.01	3	290	8	8	1	31	< 0.01	10	< 10	10	< 10	14
#564056	299	229	0.01	1	170	8	6	1	17	< 0.01	10	< 10	9	< 10	12
#564057	299	229	0.01	3	380	22	6	3	80	0.01	< 10	< 10	23	< 10	24
#564058	299	229	0.03	3	370	12	< 2	2	20	< 0.01	10	< 10	13	< 10	70
#564059	299	229	0.01	2	170	10	4	< 1	11	< 0.01	10	< 10	3	< 10	32
#564060	299	229	0.02	4	200	24	< 2	2	13	< 0.01	10	< 10	13	< 10	60
#564061	299	229	0.01	5	240	22	2	4	30	0.03	10	< 10	29	< 10	34
#564062	299	229	0.03	8	470	12	2	8	18	0.08	10	< 10	60	< 10	60
#564063	299	229	0.02	8	230	14	< 2	8	8	0.07	10	< 10	55	< 10	70
#564064	299	229	0.02	6	260	50	< 2	7	12	0.06	10	< 10	47	< 10	58
#564065	299	229	0.02	7	290	106	2	5	20	0.03	10	< 10	36	< 10	56
#564066	299	229	0.01	5	270	98	< 2	2	17	< 0.01	10	< 10	16	< 10	66
#564067	299	229	0.01	7	580	52	< 2	6	10	0.03	10	< 10	35	< 10	68
#564068	299	229	0.01	7	340	24	2	6	8	0.04	10	< 10	41	< 10	78
#564069	299	229	0.03	9	520	90	2	7	9	0.04	10	< 10	45	< 10	402

CERTIFICATION: Ian Buchler

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CERTIFICATE OF ANALYSIS A9315813

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B564070	299	229	1.6	0.90	4	230	< 0.5	2	0.14	1.5	12	129	6930	1.51	< 10	< 1	0.48	40	0.41	160	609
B564071	299	229	1.8	0.79	8	120	< 0.5	2	0.40	0.5	12	82	5060	1.55	10	< 1	0.26	50	0.28	275	411
B564072	299	229	0.4	0.98	6	140	< 0.5	2	0.64	1.0	13	128	1710	1.32	10	< 1	0.53	50	0.69	460	954
B564073	299	229	0.8	0.74	2	130	< 0.5	2	0.57	0.5	14	109	2760	1.40	10	< 1	0.34	60	0.47	400	806
B564074	299	229	1.4	0.89	2	80	< 0.5	4	0.21	1.5	22	97	4220	2.06	< 10	< 1	0.32	30	0.59	340	572
B564075	299	229	0.4	1.53	2	270	< 0.5	< 2	0.73	1.5	19	95	1510	2.70	10	< 1	0.55	20	1.25	370	86
B564076	299	229	0.4	1.64	4	330	< 0.5	2	0.37	1.5	19	105	1485	3.36	10	< 1	0.80	20	1.37	365	89
B564077	299	229	0.4	1.73	6	330	< 0.5	2	0.29	2.0	15	96	1825	3.13	10	< 1	0.66	20	1.37	215	22
B564078	299	229	0.2	1.76	< 2	300	< 0.5	2	0.43	2.0	16	97	1125	3.25	10	< 1	0.69	30	1.37	405	75
B564079	299	229	0.6	1.86	12	270	< 0.5	2	0.29	1.5	17	76	4320	3.34	10	< 1	0.50	20	1.25	350	88
B564080	299	229	1.6	1.56	2	160	< 0.5	6	0.59	1.5	39	83	4470	3.64	10	< 1	0.54	20	1.01	660	101
B564081	299	229	1.2	1.08	8	200	< 0.5	6	0.36	1.0	20	106	2780	2.04	10	< 1	0.47	50	0.48	680	183
B564082	299	229	1.2	1.68	16	250	< 0.5	8	0.39	7.5	25	83	1125	4.21	10	< 1	0.55	30	0.94	945	136
B564083	299	229	0.2	1.78	12	410	< 0.5	2	0.48	2.0	17	111	763	3.77	10	< 1	0.64	30	1.32	415	83
B564084	299	229	0.6	1.58	2	330	< 0.5	2	0.47	0.5	14	103	1285	3.80	10	< 1	0.78	20	1.36	230	50
B564085	299	229	0.2	1.91	12	300	< 0.5	2	0.55	0.5	13	111	895	3.29	10	< 1	0.74	30	1.39	335	138
B564086	299	229	0.2	1.86	< 2	360	< 0.5	2	0.34	0.5	12	106	671	3.25	10	< 1	0.69	20	1.52	320	41
B564087	299	229	0.2	1.79	4	320	< 0.5	< 2	0.44	0.5	13	100	687	2.97	10	< 1	0.68	20	1.43	255	53
B564088	299	229	0.2	1.64	< 2	340	< 0.5	2	0.30	0.5	12	97	462	2.78	< 10	< 1	0.80	10	1.46	215	33
B564089	299	229	0.2	1.69	2	340	< 0.5	< 2	0.26	< 0.5	10	85	1860	2.53	< 10	< 1	0.84	10	1.41	130	60
B564090	299	229	0.4	1.82	2	360	< 0.5	< 2	0.28	< 0.5	10	89	1670	2.65	< 10	< 1	0.89	10	1.46	130	39
B564091	299	229	0.6	1.86	2	360	< 0.5	< 2	0.28	< 0.5	11	92	1900	2.85	10	< 1	0.87	10	1.42	145	66
B564092	299	229	0.4	1.87	2	320	< 0.5	2	0.28	< 0.5	11	86	1895	3.05	10	< 1	0.67	10	1.45	175	39
B564093	299	229	1.0	1.82	12	310	< 0.5	4	0.22	0.5	16	86	2540	2.60	< 10	< 1	0.73	10	1.38	160	100
B564094	299	229	0.4	1.76	14	330	0.5	< 2	0.29	< 0.5	12	85	2310	2.93	10	< 1	0.81	20	1.40	180	95
B564095	299	229	0.6	1.76	14	280	< 0.5	< 2	0.28	1.0	20	82	1830	2.69	10	< 1	0.69	30	1.34	420	105
B564096	299	229	1.2	1.74	6	160	0.5	2	0.20	0.5	30	74	3100	3.11	10	< 1	0.69	30	1.18	355	75
B564097	299	229	0.4	1.75	2	240	< 0.5	< 2	0.24	0.5	17	74	1135	2.78	10	< 1	0.57	20	1.30	160	69
B564098	299	229	0.4	1.68	4	290	< 0.5	2	0.26	< 0.5	11	80	913	3.27	10	< 1	0.60	10	1.30	220	49
B564099	299	229	0.8	1.19	6	180	0.5	2	0.57	1.5	15	113	2250	1.68	< 10	< 1	0.45	40	0.61	310	175
B564100	299	229	0.8	0.61	14	120	< 0.5	2	0.56	1.0	13	118	2040	1.17	< 10	< 1	0.28	30	0.09	250	214
B564101	299	229	0.6	0.55	8	170	< 0.5	2	0.49	2.0	7	136	1145	0.71	< 10	< 1	0.30	40	0.06	170	248
B564102	299	229	2.2	0.49	12	250	< 0.5	4	0.69	24.0	5	122	1440	0.72	< 10	< 1	0.26	40	0.06	175	319
B564103	299	229	2.2	0.34	10	190	< 0.5	4	0.86	10.5	9	92	1560	1.44	< 10	< 1	0.27	20	0.07	375	350
B564104	299	229	1.4	0.44	4	310	< 0.5	2	0.94	2.0	9	78	1180	1.29	< 10	< 1	0.24	30	0.17	430	929
B564105	299	229	1.6	0.34	2	280	< 0.5	< 2	0.84	3.5	6	89	1035	0.86	< 10	< 1	0.26	20	0.17	200	1440
B564106	299	229	2.8	0.45	32	20	< 0.5	12	0.24	4.5	11	90	2350	4.78	< 10	< 1	0.25	20	0.09	120	2200
B564107	299	229	5.2	0.55	14	80	< 0.5	20	0.38	4.5	9	146	1275	1.92	< 10	< 1	0.34	10	0.11	115	522
B564108	299	229	1.8	0.60	6	160	< 0.5	2	1.94	3.0	10	142	1785	1.04	< 10	< 1	0.28	30	0.19	265	1010
B564109	299	229	0.8	0.43	< 2	150	< 0.5	< 2	1.20	0.5	6	138	915	0.73	< 10	< 1	0.29	30	0.14	160	605

CERTIFICATION: [signature]

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H564070	299	229	0.01	8	240	46	< 2	5	12	0.02	10	< 10	29	< 10	140
H564071	299	229	0.01	9	300	46	< 2	4	10	0.01	20	< 10	18	< 10	152
H564072	299	229	0.02	6	240	16	4	4	14	0.03	20	< 10	26	< 10	134
H564073	299	229	0.01	6	270	20	2	3	14	0.01	20	< 10	16	< 10	98
H564074	299	229	0.01	10	250	26	< 2	2	12	0.01	10	< 10	16	< 10	144
H564075	299	229	0.04	18	730	20	< 2	6	20	0.07	10	< 10	51	< 10	124
H564076	299	229	0.07	18	810	22	2	8	22	0.14	10	< 10	68	< 10	124
H564077	299	229	0.06	18	800	14	< 2	7	19	0.12	10	< 10	62	< 10	94
H564078	299	229	0.06	19	810	12	< 2	7	21	0.11	10	< 10	64	< 10	144
H564079	299	229	0.04	18	730	20	< 2	6	17	0.07	10	< 10	55	< 10	162
H564080	299	229	0.03	18	680	16	< 2	4	18	0.06	10	< 10	41	< 10	218
H564081	299	229	0.04	9	310	14	< 2	3	20	0.02	10	< 10	25	< 10	210
H564082	299	229	0.03	17	830	30	< 2	5	18	0.07	10	< 10	49	< 10	460
H564083	299	229	0.07	17	860	12	2	7	27	0.11	10	< 10	64	< 10	142
H564084	299	229	0.08	18	800	18	< 2	7	29	0.14	< 10	< 10	67	< 10	72
H564085	299	229	0.07	17	1070	20	2	7	30	0.11	10	< 10	60	< 10	108
H564086	299	229	0.08	17	870	8	< 2	6	28	0.12	10	< 10	65	< 10	100
H564087	299	229	0.07	18	810	14	< 2	6	26	0.11	10	< 10	57	< 10	76
H564088	299	229	0.08	17	770	8	2	7	27	0.17	10	< 10	68	< 10	76
H564089	299	229	0.07	19	700	14	< 2	7	25	0.16	< 10	< 10	62	< 10	56
H564090	299	229	0.09	23	780	16	< 2	7	30	0.18	< 10	< 10	69	< 10	58
H564091	299	229	0.08	20	790	20	< 2	7	31	0.18	< 10	< 10	68	< 10	70
H564092	299	229	0.07	18	820	20	< 2	6	27	0.14	< 10	< 10	64	< 10	82
H564093	299	229	0.06	18	700	16	< 2	5	23	0.10	< 10	< 10	51	< 10	98
H564094	299	229	0.07	18	800	32	< 2	7	26	0.14	10	< 10	68	< 10	98
H564095	299	229	0.06	18	790	28	2	5	23	0.08	10	< 10	49	< 10	152
H564096	299	229	0.04	20	610	22	< 2	4	19	0.04	10	< 10	42	< 10	126
H564097	299	229	0.06	18	790	18	< 2	4	21	0.06	10	< 10	46	< 10	74
H564098	299	229	0.07	17	880	20	< 2	6	24	0.10	10	< 10	64	< 10	78
H564099	299	229	0.04	10	370	56	< 2	3	25	0.02	10	< 10	25	< 10	148
H564100	299	229	0.04	4	110	52	< 2	< 1	21	< 0.01	< 10	< 10	3	< 10	110
H564101	299	229	0.04	4	90	126	< 2	< 1	24	< 0.01	10	< 10	1	< 10	212
H564102	299	229	0.01	3	110	110	< 2	< 1	31	< 0.01	< 10	< 10	1	< 10	2080
H564103	299	229	0.01	2	130	46	< 2	< 1	27	< 0.01	< 10	< 10	< 1	< 10	1095
H564104	299	229	0.01	3	140	22	2	< 1	32	< 0.01	10	< 10	< 1	< 10	164
H564105	299	229	0.01	2	190	42	4	< 1	23	< 0.01	10	< 10	< 1	< 10	362
H564106	299	229	0.01	6	150	72	6	< 1	26	< 0.01	10	< 10	< 1	< 10	440
H564107	299	229	0.01	4	150	134	2	< 1	33	< 0.01	< 10	< 10	< 1	< 10	418
H564108	299	229	0.01	4	500	32	2	2	22	< 0.01	10	< 10	5	< 10	298
H564109	299	229	0.01	3	160	18	2	< 1	21	< 0.01	10	< 10	2	< 10	58

CERTIFICATION: Stuart Bichler

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H564110	299	229	0.8	0.60	8	140	< 0.5	< 2	1.54	1.0	11	99	1400	1.04	< 10	< 1	0.26	40	0.23	200	1170
H564111	299	229	1.2	0.52	< 2	130	< 0.5	< 2	1.46	2.0	7	92	1395	0.78	< 10	< 1	0.29	40	0.16	225	275
H564112	299	229	1.2	0.48	16	170	< 0.5	4	0.89	1.5	7	137	1140	0.79	< 10	< 1	0.24	30	0.10	165	355
H564113	299	229	0.8	0.45	140	170	< 0.5	8	1.02	< 0.5	6	96	1065	0.93	< 10	< 1	0.26	30	0.31	355	373
H564114	299	229	0.6	0.45	4	130	< 0.5	2	1.55	0.5	4	136	1075	0.66	< 10	< 1	0.25	30	0.22	125	125
H564115	299	229	0.6	0.85	4	200	< 0.5	2	2.22	< 0.5	6	160	1005	1.11	< 10	< 1	0.41	40	0.52	160	352
H564116	299	229	1.6	0.43	26	80	< 0.5	2	1.49	0.5	3	173	824	0.70	< 10	< 1	0.24	40	0.28	325	385
H564117	299	229	0.6	0.54	26	230	< 0.5	2	1.42	< 0.5	4	128	1375	0.59	< 10	< 1	0.21	50	0.23	130	884
H564118	299	229	0.8	0.58	28	430	< 0.5	4	1.16	0.5	6	182	1625	0.90	< 10	< 1	0.29	40	0.35	130	692
H564119	299	229	0.6	0.60	6	100	< 0.5	4	1.19	1.5	4	166	931	0.88	< 10	< 1	0.21	60	0.37	135	607
H564120	299	229	0.2	0.66	4	710	< 0.5	4	1.44	0.5	4	165	741	0.70	< 10	< 1	0.18	60	0.28	140	852
H564121	299	229	0.2	0.53	6	410	< 0.5	2	0.73	< 0.5	3	149	675	0.83	< 10	< 1	0.26	40	0.29	110	367
H564122	299	229	0.6	0.75	16	120	< 0.5	4	1.00	< 0.5	7	124	716	1.50	< 10	< 1	0.24	40	0.40	210	367
H564123	299	229	0.8	0.65	12	900	< 0.5	4	0.57	0.5	4	154	620	0.79	< 10	< 1	0.29	50	0.24	100	402
H564124	299	229	0.6	0.59	14	160	< 0.5	< 2	0.59	1.0	4	134	1085	0.72	< 10	< 1	0.23	40	0.20	85	555
H564125	299	229	0.4	0.51	14	350	< 0.5	2	0.57	< 0.5	4	122	873	0.78	< 10	< 1	0.20	40	0.21	85	680
H564126	299	229	1.4	0.63	22	580	< 0.5	4	0.41	< 0.5	6	138	2920	0.84	10	< 1	0.19	60	0.14	75	857
H564127	299	229	0.4	0.47	16	190	< 0.5	2	0.57	< 0.5	8	107	1250	0.94	< 10	< 1	0.20	40	0.22	115	524
H564128	299	229	0.8	0.50	14	110	< 0.5	6	0.84	< 0.5	4	140	820	2.38	< 10	< 1	0.32	50	0.27	160	264
H564129	299	229	0.6	0.67	12	520	< 0.5	4	0.99	< 0.5	5	110	841	0.86	10	< 1	0.17	50	0.32	125	530
H564130	299	229	0.4	0.56	24	210	< 0.5	2	0.45	< 0.5	7	120	687	1.36	< 10	< 1	0.10	50	0.11	185	312
H564131	299	229	0.6	0.69	26	590	< 0.5	< 2	0.40	< 0.5	9	141	1170	1.71	10	< 1	0.08	60	0.13	210	839
H564132	299	229	0.4	0.65	6	450	< 0.5	< 2	0.60	0.5	4	117	561	0.85	10	< 1	0.15	70	0.13	70	472
H564133	299	229	0.6	0.95	16	650	< 0.5	2	1.08	< 0.5	6	147	940	1.00	10	< 1	0.25	40	0.46	115	305
H564134	299	229	0.2	1.32	10	470	< 0.5	< 2	1.41	< 0.5	5	133	369	1.22	10	< 1	0.57	40	0.94	150	225
H564135	299	229	0.2	0.68	12	270	< 0.5	2	0.77	< 0.5	4	126	523	0.79	< 10	< 1	0.15	60	0.24	70	328
H564136	299	229	0.4	0.26	14	80	< 0.5	2	0.59	< 0.5	5	70	940	1.13	< 10	< 1	0.09	50	0.20	130	1145
H564137	299	229	0.6	0.98	6	310	< 0.5	2	0.46	< 0.5	6	144	707	1.24	< 10	< 1	0.32	40	0.36	80	302
H564138	299	229	0.2	1.29	14	1400	< 0.5	2	0.91	< 0.5	6	131	653	1.25	10	< 1	0.60	40	0.68	105	552
H564139	299	229	0.4	0.85	16	140	< 0.5	2	0.81	< 0.5	6	187	971	1.25	< 10	< 1	0.22	60	0.25	130	362
H564140	299	229	0.8	0.50	20	170	< 0.5	2	0.29	< 0.5	8	147	2040	1.30	< 10	< 1	0.12	40	0.10	120	999
H564141	299	229	0.8	1.05	10	210	< 0.5	4	1.38	< 0.5	8	118	1545	2.00	10	< 1	0.52	40	0.65	115	467
H564142	299	229	1.0	0.88	10	250	< 0.5	2	1.23	< 0.5	9	108	2360	1.56	10	< 1	0.44	30	0.61	115	281
H564143	299	229	1.2	1.15	8	320	< 0.5	4	1.42	< 0.5	7	117	1785	1.64	10	< 1	0.65	30	0.84	120	179
H564144	299	229	0.8	0.92	6	210	< 0.5	4	1.69	< 0.5	7	101	1315	1.54	10	< 1	0.55	30	0.73	95	432
H564145	299	229	0.6	1.29	4	360	< 0.5	2	1.30	< 0.5	8	125	1485	1.81	10	< 1	0.92	30	1.05	100	346
H564146	299	229	0.4	1.21	< 2	420	< 0.5	2	0.82	< 0.5	8	116	1080	1.78	10	< 1	0.90	30	0.99	100	169
H564147	299	229	0.4	1.15	6	370	< 0.5	2	1.07	< 0.5	7	87	1205	1.65	10	< 1	0.74	30	0.95	100	185
H564148	299	229	0.4	1.13	< 2	370	< 0.5	< 2	0.41	< 0.5	7	101	952	1.53	< 10	< 1	0.78	10	1.04	90	124
H564149	299	229	0.4	1.09	8	360	< 0.5	2	0.36	< 0.5	6	98	1025	1.53	< 10	< 1	0.80	10	1.01	95	284

CERTIFICATION: Ian Bradley

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Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 3-B
Total Pages : 5
Certificate Date: 24-JUN-93
Invoice No. : 19315813
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315813

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H564110	299	229	0.02	3	170	60	4	1	35	< 0.01	10	< 10	7	< 10	116
H564111	299	229	0.04	3	250	66	2	2	32	< 0.01	10	< 10	12	< 10	178
H564112	299	229	0.04	4	100	36	2	< 1	40	< 0.01	10	< 10	2	< 10	128
H564113	299	229	0.04	2	120	28	6	1	40	< 0.01	10	< 10	3	< 10	76
H564114	299	229	0.05	4	90	22	2	1	48	< 0.01	10	< 10	9	< 10	52
H564115	299	229	0.04	4	180	20	2	3	62	0.02	10	< 10	24	< 10	62
H564116	299	229	0.01	2	80	36	12	1	19	< 0.01	10	< 10	1	< 10	52
H564117	299	229	0.01	2	110	22	4	< 1	44	< 0.01	10	< 10	< 1	< 10	44
H564118	299	229	0.01	4	120	30	6	1	41	< 0.01	10	< 10	2	< 10	58
H564119	299	229	0.01	4	140	84	4	2	19	< 0.01	10	< 10	8	< 10	164
H564120	299	229	0.01	4	160	42	12	3	31	< 0.01	10	< 10	7	< 10	62
H564121	299	229	0.01	4	170	22	4	3	20	< 0.01	10	< 10	12	< 10	32
H564122	299	229	0.01	8	440	30	10	4	19	< 0.01	20	< 10	19	< 10	66
H564123	299	229	0.01	4	160	32	6	3	31	< 0.01	20	< 10	12	< 10	76
H564124	299	229	0.01	6	200	20	8	5	17	< 0.01	20	< 10	15	< 10	114
H564125	299	229	0.01	4	160	10	8	4	20	< 0.01	20	< 10	11	< 10	34
H564126	299	229	0.01	7	210	16	34	3	22	< 0.01	20	< 10	9	< 10	50
H564127	299	229	0.01	6	180	6	6	5	13	< 0.01	10	< 10	16	< 10	34
H564128	299	229	0.01	5	160	20	8	3	14	< 0.01	10	< 10	10	< 10	46
H564129	299	229	0.01	4	210	24	4	5	28	< 0.01	20	< 10	15	< 10	52
H564130	299	229	< 0.01	7	360	16	2	10	14	< 0.01	10	< 10	22	< 10	42
H564131	299	229	< 0.01	9	470	20	2	13	24	< 0.01	20	< 10	29	< 10	42
H564132	299	229	0.01	4	220	38	4	4	20	< 0.01	20	< 10	7	< 10	98
H564133	299	229	0.01	6	370	16	< 2	10	29	0.01	10	< 10	35	< 10	24
H564134	299	229	0.01	6	300	20	4	11	36	0.06	10	< 10	51	< 10	34
H564135	299	229	0.01	4	240	22	2	7	16	< 0.01	10	< 10	23	< 10	26
H564136	299	229	< 0.01	4	360	24	4	8	12	< 0.01	10	< 10	19	< 10	22
H564137	299	229	0.01	6	450	14	< 2	9	14	0.03	10	< 10	35	< 10	30
H564138	299	229	0.02	6	400	14	2	10	204	0.06	10	< 10	50	< 10	30
H564139	299	229	0.01	7	400	12	4	8	19	< 0.01	10	< 10	29	< 10	38
H564140	299	229	0.01	8	320	20	6	7	12	< 0.01	10	< 10	18	< 10	50
H564141	299	229	0.02	4	340	16	4	8	63	0.04	10	< 10	48	< 10	40
H564142	299	229	0.03	4	350	18	< 2	8	70	0.04	10	< 10	47	< 10	42
H564143	299	229	0.05	4	430	18	2	9	72	0.09	10	< 10	61	< 10	42
H564144	299	229	0.04	4	360	12	< 2	6	80	0.06	10	< 10	42	< 10	36
H564145	299	229	0.08	6	470	6	2	11	45	0.15	10	< 10	76	< 10	28
H564146	299	229	0.08	4	460	4	< 2	12	33	0.15	10	< 10	75	< 10	26
H564147	299	229	0.06	4	420	12	< 2	10	41	0.10	10	< 10	67	< 10	26
H564148	299	229	0.08	5	370	14	< 2	10	19	0.15	< 10	< 10	71	< 10	24
H564149	299	229	0.08	5	360	24	< 2	11	17	0.17	< 10	< 10	80	< 10	30

CERTIFICATION: Ian Bichler

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. :I9315813
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315813

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H564150	299	229	0.6	1.15	< 2	370	< 0.5	< 2	0.44	< 0.5	6	132	1190	1.44	< 10	< 1	0.89	10	1.04	95	333
H564151	299	229	0.4	1.14	10	330	< 0.5	2	0.44	< 0.5	7	125	964	1.53	< 10	< 1	0.87	20	1.00	95	327
H564152	299	229	0.6	1.13	2	310	< 0.5	2	0.80	< 0.5	6	113	1605	1.42	10	< 1	0.70	20	0.92	85	353
H564153	299	229	0.6	1.22	4	380	< 0.5	2	0.44	< 0.5	6	106	1240	1.33	10	< 1	0.90	20	1.09	90	497
H564154	299	229	4.2	1.00	< 2	290	< 0.5	2	1.34	< 0.5	6	130	849	1.43	< 10	< 1	0.78	20	0.92	80	298
H564155	299	229	1.4	0.94	6	240	< 0.5	2	1.50	< 0.5	7	122	852	1.55	< 10	< 1	0.69	20	0.90	80	282
H564156	299	229	2.2	1.13	4	220	< 0.5	< 2	1.38	< 0.5	8	101	1115	1.99	10	< 1	0.91	10	1.11	95	457
H564157	299	229	0.6	0.90	2	230	< 0.5	< 2	1.64	< 0.5	6	87	763	1.55	10	< 1	0.72	20	0.91	80	356
H564158	299	229	1.0	1.06	8	200	< 0.5	2	1.37	< 0.5	8	104	1440	1.73	10	< 1	0.81	20	1.02	90	590
H564159	299	229	0.8	1.00	4	120	< 0.5	2	1.69	< 0.5	8	113	1065	1.60	10	< 1	0.83	20	0.97	85	933
H564160	299	229	0.8	0.91	4	170	< 0.5	2	1.97	< 0.5	7	108	1085	1.41	10	< 1	0.54	20	0.84	75	560
H564161	299	229	0.6	1.03	2	220	< 0.5	< 2	1.99	< 0.5	5	128	564	1.23	10	< 1	0.80	20	1.05	85	702
H564162	299	229	1.4	1.08	< 2	250	< 0.5	< 2	1.92	< 0.5	6	125	830	1.26	10	< 1	0.55	20	0.91	90	699
H564163	299	229	0.4	1.01	< 2	230	< 0.5	< 2	1.58	< 0.5	6	127	740	1.29	10	< 1	0.69	20	0.96	90	825
H564164	299	229	0.8	1.06	< 2	220	< 0.5	< 2	1.62	< 0.5	5	137	1040	1.48	10	< 1	0.71	20	0.90	85	441
H564165	299	229	1.0	1.05	2	180	< 0.5	2	2.20	< 0.5	8	121	1305	1.56	10	< 1	0.55	30	0.86	90	633
H564166	299	229	0.6	1.09	< 2	240	< 0.5	2	1.69	< 0.5	6	111	1565	1.32	10	< 1	0.64	20	0.89	85	492
H564167	299	229	2.0	0.95	< 2	180	< 0.5	4	1.81	4.0	6	130	1310	1.45	< 10	< 1	0.63	20	0.84	85	420
H564168	299	229	0.4	1.02	< 2	200	< 0.5	2	1.98	< 0.5	7	114	1185	1.38	10	< 1	0.79	20	1.01	90	834
H564169	299	229	0.6	1.06	< 2	210	< 0.5	< 2	1.89	< 0.5	8	110	1060	1.70	< 10	< 1	0.69	20	1.05	100	450
H564170	299	229	0.4	1.16	< 2	180	< 0.5	< 2	2.06	< 0.5	7	122	950	1.50	10	< 1	0.91	20	1.14	95	467
H564171	299	229	0.2	1.21	< 2	290	< 0.5	2	1.48	< 0.5	7	132	710	1.75	10	< 1	0.91	20	1.11	95	290
H564172	299	229	0.4	1.22	< 2	200	< 0.5	2	1.85	< 0.5	9	153	971	1.75	10	< 1	0.89	20	1.15	110	619
H564173	299	229	0.6	1.29	< 2	250	< 0.5	2	1.55	< 0.5	10	164	950	1.95	10	< 1	0.70	20	1.26	135	327
H564174	299	229	0.6	1.04	< 2	200	< 0.5	2	1.74	< 0.5	7	125	919	1.61	< 10	< 1	0.62	20	0.95	100	559
H564175	299	229	0.4	1.07	< 2	250	< 0.5	< 2	1.81	< 0.5	6	134	690	1.42	< 10	< 1	0.80	20	1.02	90	644
H564176	299	229	0.6	1.18	< 2	200	< 0.5	2	1.98	< 0.5	7	117	1220	1.54	10	< 1	0.91	30	1.03	90	493
H564177	299	229	0.6	1.01	2	140	< 0.5	2	1.87	< 0.5	11	116	967	1.71	< 10	< 1	0.75	20	0.89	80	364
H564178	299	229	0.4	1.13	< 2	230	< 0.5	2	1.99	< 0.5	7	133	760	1.64	10	< 1	0.73	20	1.04	95	260
H564179	299	229	0.2	1.12	< 2	240	< 0.5	2	1.77	< 0.5	7	127	539	1.86	10	< 1	0.80	20	1.03	100	378
H564180	299	229	0.4	1.21	< 2	210	< 0.5	2	1.65	< 0.5	8	129	970	1.79	10	< 1	0.97	20	1.14	100	480
H564181	299	229	0.6	1.29	< 2	330	< 0.5	< 2	1.01	< 0.5	8	119	1220	1.91	10	< 1	0.97	20	1.11	95	820
H564182	299	229	0.4	1.36	2	370	< 0.5	< 2	1.29	< 0.5	8	123	909	1.80	10	< 1	0.90	20	1.15	105	669
H564183	299	229	0.4	1.12	< 2	220	< 0.5	2	1.67	< 0.5	7	119	579	1.55	< 10	< 1	0.95	20	1.05	90	467
H564184	299	229	0.4	1.35	< 2	200	< 0.5	2	1.97	< 0.5	8	118	749	1.87	10	< 1	1.04	20	1.29	110	744
H564185	299	229	0.8	1.06	2	100	< 0.5	2	1.96	< 0.5	8	104	857	2.15	10	< 1	0.81	20	1.00	90	1140
H564186	299	229	1.0	1.01	8	130	< 0.5	2	1.62	< 0.5	8	102	1425	2.19	< 10	< 1	0.67	20	0.97	85	474
H564187	299	229	1.2	1.11	< 2	200	< 0.5	< 2	1.88	< 0.5	6	126	1085	1.47	< 10	< 1	0.68	30	1.04	95	979
H564188	299	229	0.8	1.04	2	190	< 0.5	2	2.20	< 0.5	7	103	1095	1.75	< 10	< 1	0.65	30	0.97	100	640
H564189	299	229	1.4	1.11	< 2	190	< 0.5	2	2.67	< 0.5	6	76	1010	1.40	< 10	< 1	0.54	30	0.77	95	535

CERTIFICATION: Ian Pitcher

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H564150	299	229	0.11	6	400	8	< 2	11	20	0.16	< 10	< 10	80	< 10	32
H564151	299	229	0.10	5	360	12	2	10	19	0.15	10	< 10	75	< 10	28
H564152	299	229	0.08	4	340	16	2	9	24	0.10	10	< 10	65	< 10	26
H564153	299	229	0.10	7	330	16	2	12	21	0.15	< 10	< 10	81	< 10	28
H564154	299	229	0.09	6	380	8	< 2	10	56	0.16	10	< 10	72	< 10	28
H564155	299	229	0.07	5	420	8	2	9	59	0.15	< 10	< 10	68	< 10	24
H564156	299	229	0.07	4	470	8	2	12	47	0.19	10	< 10	88	10	26
H564157	299	229	0.06	6	400	6	< 2	9	71	0.15	10	< 10	70	< 10	20
H564158	299	229	0.07	6	480	8	2	10	56	0.16	10	< 10	79	< 10	24
H564159	299	229	0.06	6	410	2	4	10	50	0.16	10	< 10	73	< 10	22
H564160	299	229	0.06	4	380	6	2	8	74	0.11	10	< 10	59	< 10	20
H564161	299	229	0.07	6	390	6	2	11	93	0.15	10	< 10	72	< 10	22
H564162	299	229	0.06	6	400	6	2	8	64	0.10	10	< 10	60	< 10	26
H564163	299	229	0.06	5	400	8	2	9	65	0.11	10	< 10	61	< 10	20
H564164	299	229	0.07	5	410	8	2	9	66	0.12	10	< 10	65	< 10	22
H564165	299	229	0.05	6	460	14	2	8	99	0.08	10	< 10	56	< 10	36
H564166	299	229	0.06	6	380	14	2	9	80	0.11	10	< 10	67	< 10	34
H564167	299	229	0.06	5	460	18	2	8	65	0.10	10	< 10	61	< 10	368
H564168	299	229	0.07	7	460	8	4	10	72	0.16	10	< 10	74	< 10	24
H564169	299	229	0.06	6	490	10	2	10	62	0.15	< 10	< 10	74	< 10	24
H564170	299	229	0.08	7	490	12	2	12	78	0.19	10	< 10	93	< 10	26
H564171	299	229	0.09	7	450	10	2	13	53	0.20	10	< 10	91	< 10	22
H564172	299	229	0.10	17	490	6	< 2	10	84	0.17	10	< 10	78	10	22
H564173	299	229	0.10	21	550	6	< 2	8	67	0.16	10	< 10	76	10	22
H564174	299	229	0.07	6	410	10	2	9	65	0.13	< 10	< 10	68	10	20
H564175	299	229	0.08	7	430	12	4	10	71	0.17	< 10	< 10	79	< 10	20
H564176	299	229	0.07	6	460	6	2	11	83	0.16	10	< 10	79	< 10	22
H564177	299	229	0.06	7	430	4	2	8	71	0.10	10	< 10	57	< 10	18
H564178	299	229	0.07	6	450	6	2	9	85	0.14	10	< 10	71	< 10	20
H564179	299	229	0.07	7	510	12	2	10	84	0.14	10	< 10	71	< 10	18
H564180	299	229	0.09	8	520	14	2	12	72	0.20	< 10	< 10	88	< 10	22
H564181	299	229	0.09	8	490	16	2	11	52	0.17	10	< 10	84	30	22
H564182	299	229	0.09	7	520	10	2	12	71	0.19	10	< 10	88	< 10	22
H564183	299	229	0.09	8	470	8	4	11	75	0.18	< 10	< 10	81	< 10	18
H564184	299	229	0.10	7	540	8	4	14	86	0.22	10	< 10	99	< 10	22
H564185	299	229	0.07	8	480	6	4	9	82	0.16	10	< 10	71	10	18
H564186	299	229	0.05	8	430	8	2	9	65	0.12	< 10	< 10	70	< 10	24
H564187	299	229	0.06	7	450	8	4	9	75	0.12	10	< 10	68	< 10	22
H564188	299	229	0.04	6	490	10	2	9	105	0.11	10	< 10	60	< 10	22
H564189	299	229	0.03	6	400	6	2	9	93	0.08	< 10	< 10	53	< 10	20

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. : I9315813
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315813

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H564190	299	229	1.2	1.03	2	150	< 0.5	2	1.81	< 0.5	8	129	1590	1.77	< 10	< 1	0.61	30	0.81	80	771
H564191	299	229	0.4	0.78	< 2	180	< 0.5	< 2	2.99	< 0.5	6	114	718	1.66	< 10	< 1	0.44	30	0.73	85	785
H564192	299	229	0.6	0.94	4	120	< 0.5	2	1.87	< 0.5	10	104	970	2.28	< 10	< 1	0.53	20	0.89	85	573
H564193	299	229	0.4	1.05	4	120	< 0.5	2	1.87	< 0.5	6	107	753	1.43	< 10	< 1	0.61	30	0.94	80	593
H564194	299	229	0.4	1.05	2	190	< 0.5	2	1.93	< 0.5	6	109	762	1.53	< 10	< 1	0.62	40	0.98	90	545
H564195	299	229	0.6	1.02	8	150	< 0.5	2	2.19	< 0.5	7	94	1105	1.83	< 10	< 1	0.63	30	0.97	85	426
H564196	299	229	0.2	0.94	6	220	< 0.5	2	1.72	< 0.5	5	99	423	1.37	< 10	< 1	0.61	20	0.89	85	530
H564197	299	229	0.4	1.10	< 2	180	< 0.5	< 2	1.72	< 0.5	5	101	498	1.43	< 10	< 1	0.77	10	1.07	85	458
H564198	299	229	0.4	1.14	< 2	170	< 0.5	< 2	1.98	< 0.5	6	99	505	1.66	< 10	< 1	0.70	20	1.07	85	313
H564199	299	229	0.6	1.12	< 2	190	< 0.5	2	2.16	< 0.5	5	112	642	1.57	< 10	< 1	0.67	20	1.03	90	370
H564200	299	229	0.4	1.17	< 2	200	< 0.5	< 2	2.56	< 0.5	5	114	684	1.44	< 10	< 1	0.81	30	1.09	90	491
H564201	299	229	0.4	0.74	2	180	< 0.5	< 2	4.07	< 0.5	4	115	456	1.27	< 10	< 1	0.34	20	1.02	85	301
H564202	299	229	0.2	0.93	4	210	< 0.5	2	5.59	< 0.5	4	86	520	1.10	< 10	< 1	0.45	10	0.72	110	736
H564203	299	229	0.2	0.91	< 2	200	< 0.5	2	2.83	< 0.5	5	96	396	1.22	< 10	< 1	0.56	40	0.86	95	595
H564204	299	229	0.4	1.22	2	200	< 0.5	< 2	2.59	< 0.5	7	101	737	1.69	< 10	< 1	0.80	30	1.05	105	547
H564205	299	229	0.4	1.27	< 2	220	< 0.5	< 2	2.14	< 0.5	7	105	544	1.57	< 10	< 1	0.80	20	1.13	100	535
H564206	299	229	0.2	1.26	< 2	200	< 0.5	< 2	1.75	< 0.5	6	105	267	1.55	< 10	< 1	0.74	30	1.05	100	345
H564207	299	229	0.4	1.45	< 2	140	< 0.5	2	1.61	< 0.5	8	110	418	2.36	< 10	< 1	0.63	20	1.02	110	606
751	299	229	0.6	1.69	< 2	340	< 0.5	< 2	0.28	< 0.5	10	74	1635	2.60	< 10	< 1	0.94	10	1.38	110	73
752	299	229	2.2	0.98	6	170	< 0.5	2	1.37	1.5	17	82	1790	1.66	< 10	< 1	0.39	30	0.48	200	890
753	299	229	0.6	0.75	14	200	< 0.5	< 2	0.44	< 0.5	6	53	908	1.17	< 10	< 1	0.13	60	0.11	150	584
754	299	229	0.4	1.21	< 2	360	< 0.5	< 2	0.45	< 0.5	6	96	745	1.45	< 10	< 1	0.85	20	1.06	90	428
755	299	229	0.4	1.18	< 2	160	< 0.5	< 2	1.96	< 0.5	7	41	812	1.49	< 10	< 1	0.82	20	1.22	90	511
756	299	229	1.0	0.81	4	110	< 0.5	4	1.91	< 0.5	8	51	1615	1.73	< 10	< 1	0.48	30	0.74	70	970

CERTIFICATION: Ian Pitcher

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 159
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. :I9315813
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315813

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H564190	299	229	0.05	7	430	4	2	8	69	0.08	< 10	< 10	62	< 10	22
H564191	299	229	0.04	6	350	6	2	7	140	0.04	< 10	< 10	37	< 10	20
H564192	299	229	0.04	7	450	2	2	8	87	0.08	< 10	< 10	55	< 10	20
H564193	299	229	0.04	7	400	12	2	8	71	0.10	< 10	< 10	63	< 10	18
H564194	299	229	0.05	7	420	6	2	9	94	0.10	10	< 10	59	< 10	20
H564195	299	229	0.05	7	470	2	2	8	110	0.09	< 10	< 10	64	< 10	20
H564196	299	229	0.05	5	420	8	2	8	80	0.12	< 10	< 10	58	< 10	18
H564197	299	229	0.07	7	460	6	2	10	67	0.17	< 10	< 10	74	< 10	18
H564198	299	229	0.06	7	470	4	2	10	81	0.14	< 10	< 10	73	< 10	16
H564199	299	229	0.06	7	480	< 2	2	9	102	0.10	< 10	< 10	65	< 10	18
H564200	299	229	0.06	7	440	2	4	11	116	0.11	< 10	< 10	76	< 10	18
H564201	299	229	0.03	4	290	4	2	6	227	< 0.01	< 10	< 10	31	< 10	14
H564202	299	229	0.03	6	380	4	4	8	166	0.06	< 10	< 10	43	< 10	16
H564203	299	229	0.04	6	400	8	2	8	143	0.07	< 10	< 10	52	< 10	20
H564204	299	229	0.05	6	540	4	2	11	109	0.14	< 10	< 10	73	< 10	22
H564205	299	229	0.06	6	430	2	2	11	87	0.14	< 10	< 10	72	< 10	20
H564206	299	229	0.06	6	450	6	< 2	10	69	0.12	< 10	< 10	70	< 10	18
H564207	299	229	0.05	7	510	6	2	9	57	0.08	< 10	< 10	61	< 10	20
751	299	229	0.05	22	730	18	< 2	7	21	0.19	10	< 10	65	< 10	54
752	299	229	0.03	4	230	72	4	3	31	0.01	10	< 10	19	< 10	164
753	299	229	< 0.01	6	280	20	2	9	14	< 0.01	10	< 10	20	< 10	48
754	299	229	0.10	6	410	8	2	12	19	0.19	< 10	< 10	79	< 10	32
755	299	229	0.04	7	490	6	2	12	63	0.21	< 10	< 10	93	< 10	28
756	299	229	0.02	9	410	6	2	7	61	0.07	10	< 10	54	< 10	20

CERTIFICATION: Ron Bowden

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/160
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :1
Total Page :3
Certificate Date: 22-JUN-93
Invoice No. : I9315596
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315596

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572825	208	276	0.02	0.062	0.34	9720						
H572826	208	276	0.05	0.088	0.27	7600						
H572827	208	276	0.03	0.066	0.24	9220						
H572828	208	276	0.03	0.061	0.21	8120						
H572829	208	274	0.02	0.049	0.34	5360						
H572830	208	276	0.02	0.075	0.55	9080						
H572831	208	276	0.02	0.073	0.31	8920						
H572832	208	276	0.02	0.062	0.58	9600						
H572833	208	274	0.03	0.080	0.69	6120						
H572834	208	276	0.02	0.071	0.51	7360						
H572835	208	274	0.01	0.099	0.34	7040						
H572836	208	276	0.02	0.098	0.24	8300						
H572837	208	276	0.15	0.045	0.38	7460						
H572838	208	276	0.15	0.093	0.34	10640						
H572839	208	273	0.04	0.087	0.31	13860						
H572840	208	274	0.01	0.042	0.58	5520						
H572841	208	273	0.03	0.115	0.38	12600						
H572842	208	273	0.24	0.093	0.21	12200						
H572843	208	273	0.36	0.090	0.27	12480						
H572844	208	273	0.04	0.094	0.17	12400						
H572845	208	273	0.52	0.163	0.38	11860						
H572846	208	276	0.75	0.236	0.65	10720						
H572847	208	273	0.25	0.135	0.24	11840						
H572848	208	276	0.30	0.071	0.38	7340						
H572849	208	276	0.53	0.073	0.17	8120						
H572850	208	276	0.33	0.041	0.07	9760						
H572851	208	273	0.25	0.047	0.14	12340						
H572852	208	276	0.11	0.106	0.14	7800						
H572853	208	276	0.34	0.074	0.21	10060						
H572854	208	273	0.34	0.127	0.21	12600						
H572855	208	276	0.37	0.064	0.14	11500						
H572856	208	276	0.37	0.113	0.14	10720						
H572857	208	276	0.24	0.130	0.07	10880						
H572858	208	276	0.26	0.139	0.10	11620						
H572859	208	276	0.20	0.078	0.10	11660						
H572860	208	276	0.24	0.054	0.14	11440						
H572861	208	273	0.36	0.066	0.21	12560						
H572862	208	276	0.26	0.065	0.10	11100						
H572863	208	273	0.22	0.046	0.17	11980						
H572864	208	273	0.31	0.049	0.24	12400						

CERTIFICATION: Saeed Zeinab

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Project : CASINO 93/160
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : I9315596
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315596

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572865	208	273	0.27	0.054	0.38	12200						
H572866	208	276	0.30	0.041	0.24	11580						
H572867	208	273	0.18	0.032	0.10	12080						
H572868	208	273	0.16	0.031	0.10	11940						
H572869	208	273	0.19	0.038	0.21	11940						
H572870	208	273	0.19	0.043	0.17	12760						
H572871	208	273	0.27	0.030	0.27	12540						
H572872	208	273	0.13	0.023	0.10	12400						
H572873	208	273	0.09	0.039	0.07	13900						
H572874	208	273	0.19	0.030	0.17	13920						
H572875	208	273	0.12	0.030	0.07	13800						
H572876	208	273	0.11	0.040	0.10	15000						
H572877	208	273	0.14	0.023	0.17	12700						
H572878	208	273	0.11	0.059	0.10	15100						
H572879	208	273	0.10	0.031	0.17	14420						
H572880	208	273	0.16	0.036	0.24	13060						
H572881	208	273	0.18	0.043	0.21	13260						
H572882	208	273	0.11	0.037	0.17	13040						
H572883	208	273	0.12	0.037	0.14	12920						
H572884	208	273	0.15	0.036	0.17	12860						
H572885	208	273	0.13	0.028	0.14	12800						
H572886	208	273	0.10	0.038	0.10	13100						
H572887	208	273	0.14	0.039	0.17	12660						
H572888	208	273	0.12	0.032	0.17	12720						
H572889	208	273	0.12	0.019	0.14	13320						
H572890	208	273	0.10	0.028	0.17	12420						
H572891	208	273	0.11	0.034	0.14	12460						
H572892	208	273	0.13	0.028	0.14	14080						
H572893	208	273	0.13	0.061	0.14	12670						
H572894	208	273	0.10	0.026	0.10	12660						
H572895	208	270	0.10	0.040	0.10	16540						
H572896	208	273	0.13	0.031	0.14	15300						
H572897	208	273	0.10	0.030	0.10	14100						
H572898	208	273	0.07	0.018	0.07	12580						
H572899	208	273	0.09	0.016	0.10	13700						
H572900	208	273	0.07	0.050	0.07	15240						
H572901	208	273	0.11	0.049	0.14	14500						
H572902	208	273	0.07	0.050	0.07	14240						
H572903	208	273	0.05	0.033	0.07	13040						
H572904	208	273	0.05	0.027	0.03	12780						

CERTIFICATION: Said Zeinab

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Project : CASINO 93/160
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUN-93
Invoice No. : 19315596
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315596

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572905	208	273	0.06	0.054	0.10	11860						
H572906	208	273	0.09	0.023	0.10	12600						
H572907	208	273	0.09	0.037	0.10	12340						
H572908	208	273	0.08	0.073	0.07	12540						
H572909	208	273	0.06	0.019	0.07	12120						
H572910	208	276	0.10	0.022	0.10	10800						
H572911	208	273	0.12	0.031	0.14	12020						
H572912	208	273	0.23	0.018	0.27	12160						
H572913	208	276	0.10	0.032	0.10	7360						
H572914	208	273	0.18	0.036	0.14	13300						
H572915	208	273	0.06	0.045	0.07	11920						
H572916	208	273	0.10	0.025	0.10	13080						
H572917	208	273	0.04	0.054	0.07	14760						
H572918	208	273	0.05	0.029	0.10	13880						
H572919	208	270	0.07	0.084	0.14	17660						

CERTIFICATION: Said Zeinab

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Page No. :1-A
Total Pages :3
Certificate Date: 23-JUN-93
Invoice No. :19315597
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315597

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572825	299	229	0.6	1.65	< 2	90	< 0.5	4	0.07	< 0.5	< 1	76	224	2.63	< 10	< 1	0.25	< 10	0.17	20	367
H572826	299	229	0.6	1.60	< 2	150	< 0.5	4	0.02	< 0.5	< 1	83	434	5.68	< 10	< 1	0.47	10	0.45	40	528
H572827	299	229	0.6	2.08	< 2	140	< 0.5	< 2	0.02	< 0.5	< 1	76	260	4.36	< 10	< 1	0.64	10	0.79	60	393
H572828	299	229	0.6	2.28	8	180	< 0.5	< 2	0.01	< 0.5	1	77	239	3.69	< 10	< 1	0.63	10	0.88	65	365
H572829	299	229	0.8	1.63	2	150	< 0.5	2	0.01	< 0.5	1	89	176	2.37	< 10	< 1	0.47	20	0.50	40	297
H572830	299	229	1.6	2.09	12	180	< 0.5	2	0.01	< 0.5	< 1	64	199	2.45	< 10	< 1	0.45	20	0.46	40	456
H572831	299	229	2.2	2.27	< 2	230	< 0.5	< 2	0.01	< 0.5	1	76	170	1.61	< 10	< 1	0.66	20	0.91	70	434
H572832	299	229	1.4	2.77	2	300	< 0.5	< 2	0.02	< 0.5	1	71	156	2.17	10	< 1	0.94	30	1.44	100	355
H572833	299	229	1.4	3.90	46	510	< 0.5	< 2	0.02	< 0.5	2	57	293	3.65	10	< 1	1.13	40	1.97	135	468
H572834	299	229	1.0	2.75	16	250	< 0.5	< 2	0.02	< 0.5	2	28	153	1.84	< 10	< 1	0.86	30	1.36	85	423
H572835	299	229	1.4	1.80	6	150	< 0.5	< 2	0.01	< 0.5	1	43	116	1.54	< 10	< 1	0.76	30	0.92	50	632
H572836	299	229	1.4	1.55	< 2	120	< 0.5	2	0.01	< 0.5	1	64	161	1.71	< 10	< 1	0.46	40	0.50	30	616
H572837	299	229	3.0	1.13	4	170	< 0.5	4	0.01	< 0.5	3	51	1560	1.48	< 10	< 1	0.33	20	0.28	20	286
H572838	299	229	4.0	0.75	2	250	< 0.5	4	0.02	< 0.5	2	98	1530	2.46	< 10	< 1	0.40	40	0.13	10	593
H572839	299	229	4.0	0.56	92	20	< 0.5	8	0.02	< 0.5	2	100	370	12.55	< 10	< 1	0.25	10	0.03	5	512
H572840	299	229	2.6	0.51	26	20	< 0.5	6	0.01	< 0.5	< 1	124	104	>15.00	< 10	< 1	0.20	< 10	0.02	5	230
H572841	299	229	2.2	0.20	14	10	< 0.5	8	0.01	< 0.5	4	36	321	7.05	< 10	< 1	0.09	10	0.01	< 5	691
H572842	299	229	2.4	0.47	4	30	< 0.5	8	0.02	< 0.5	4	123	2410	5.35	< 10	< 1	0.27	10	0.04	10	585
H572843	299	229	4.6	0.51	24	50	< 0.5	10	0.01	< 0.5	5	111	3720	4.57	< 10	< 1	0.31	10	0.08	10	546
H572844	299	229	3.6	0.50	6	30	< 0.5	10	0.01	< 0.5	4	123	434	6.51	< 10	< 1	0.25	10	0.02	10	614
H572845	299	229	4.4	0.58	18	70	< 0.5	8	0.02	< 0.5	4	171	5430	3.03	< 10	< 1	0.32	10	0.08	15	1040
H572846	299	229	6.4	0.69	110	90	< 0.5	10	0.01	0.5	7	172	8480	2.83	< 10	< 1	0.39	10	0.11	15	1430
H572847	299	229	3.8	0.63	8	80	< 0.5	10	0.01	< 0.5	3	105	2550	2.56	< 10	< 1	0.33	20	0.09	10	930
H572848	299	229	3.8	0.72	12	130	< 0.5	8	0.01	< 0.5	6	49	3180	1.77	< 10	< 1	0.24	30	0.12	10	477
H572849	299	229	5.4	1.43	8	80	< 0.5	4	0.03	< 0.5	7	93	6230	1.93	< 10	< 1	0.48	30	0.17	17	487
H572850	299	229	3.0	1.21	< 2	60	< 0.5	6	0.02	< 0.5	9	93	3460	2.93	< 10	< 1	0.45	20	0.17	15	255
H572851	299	229	2.4	1.21	< 2	60	< 0.5	6	0.04	< 0.5	9	87	2540	3.03	< 10	< 1	0.48	10	0.18	15	287
H572852	299	229	2.4	0.74	6	30	< 0.5	4	0.02	< 0.5	6	48	1065	4.14	< 10	< 1	0.29	10	0.13	10	688
H572853	299	229	3.0	1.22	8	60	< 0.5	6	0.03	< 0.5	20	97	3600	3.46	< 10	< 1	0.46	20	0.17	15	477
H572854	299	229	2.2	1.47	< 2	100	< 0.5	4	0.03	< 0.5	12	93	3350	2.20	< 10	< 1	0.54	20	0.34	35	800
H572855	299	229	2.4	1.01	6	70	< 0.5	4	0.03	< 0.5	28	91	3850	2.98	< 10	< 1	0.37	10	0.14	15	404
H572856	299	229	2.2	1.07	8	90	< 0.5	4	0.01	< 0.5	8	90	4100	1.57	< 10	< 1	0.32	20	0.14	15	731
H572857	299	229	1.2	0.75	78	80	< 0.5	2	0.01	< 0.5	7	60	1765	1.07	< 10	2	0.20	10	0.08	5	583
H572858	299	229	1.6	0.74	< 2	70	< 0.5	2	0.01	< 0.5	10	48	2490	1.28	< 10	< 1	0.20	10	0.10	10	903
H572859	299	229	1.4	1.24	< 2	120	< 0.5	2	0.01	< 0.5	7	105	1950	1.22	< 10	< 1	0.39	10	0.18	15	466
H572860	299	229	1.4	1.39	< 2	120	< 0.5	2	0.03	< 0.5	8	66	2240	1.37	< 10	< 1	0.40	10	0.35	30	324
H572861	299	229	2.2	1.72	< 2	130	< 0.5	2	0.06	< 0.5	9	68	3680	1.59	< 10	< 1	0.61	10	0.45	40	396
H572862	299	229	1.6	1.97	< 2	130	< 0.5	2	0.06	< 0.5	11	55	2530	1.42	< 10	< 1	0.38	10	0.25	20	362
H572863	299	229	2.0	1.59	4	120	0.5	2	0.12	0.5	15	55	2270	2.08	< 10	< 1	0.48	20	0.36	155	259
H572864	299	229	3.2	0.95	18	90	< 0.5	14	0.10	0.5	13	53	3130	2.11	< 10	< 1	0.23	10	0.10	75	275

CERTIFICATION: Hart Bichler

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315597

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B572825	299	229	0.01	1	330	12	< 2	2	9	< 0.01	< 10	< 10	13	< 10	6
B572826	299	229	0.01	< 1	680	2	< 2	4	7	0.02	< 10	< 10	37	< 10	12
B572827	299	229	0.01	1	710	6	2	8	10	0.05	< 10	< 10	58	< 10	20
B572828	299	229	0.01	1	830	6	2	10	16	0.07	< 10	< 10	63	< 10	20
B572829	299	229	0.01	2	520	6	< 2	6	25	0.03	< 10	< 10	31	< 10	8
B572830	299	229	0.01	2	640	8	2	7	31	0.02	< 10	< 10	35	< 10	8
B572831	299	229	0.02	3	380	4	< 2	9	33	0.06	< 10	< 10	47	< 10	16
B572832	299	229	0.02	4	640	4	< 2	12	110	0.09	< 10	< 10	68	< 10	24
B572833	299	229	0.02	8	1560	6	6	21	223	0.19	< 10	< 10	128	< 10	32
B572834	299	229	0.01	5	680	6	< 2	13	122	0.13	10	< 10	75	< 10	18
B572835	299	229	0.01	3	280	8	4	9	30	0.07	< 10	< 10	45	< 10	8
B572836	299	229	0.01	2	310	2	< 2	5	19	0.03	< 10	< 10	25	< 10	6
B572837	299	229	0.01	2	330	10	< 2	4	28	0.01	< 10	< 10	22	< 10	6
B572838	299	229	0.01	2	300	12	4	1	46	< 0.01	< 10	< 10	< 1	< 10	6
B572839	299	229	0.01	2	220	22	6	1	34	< 0.01	< 10	< 10	< 1	< 10	18
B572840	299	229	0.01	< 1	< 10	8	< 2	1	4	< 0.01	< 10	< 10	< 1	< 10	18
B572841	299	229	< 0.01	< 1	100	8	6	< 1	9	< 0.01	< 10	< 10	< 1	< 10	8
B572842	299	229	0.01	2	150	4	4	< 1	15	< 0.01	< 10	< 10	< 1	< 10	12
B572843	299	229	0.01	2	210	4	4	< 1	21	< 0.01	< 10	< 10	< 1	< 10	20
B572844	299	229	0.01	3	180	28	6	< 1	19	< 0.01	< 10	< 10	< 1	< 10	8
B572845	299	229	0.01	4	220	20	12	< 1	41	< 0.01	< 10	< 10	< 1	< 10	22
B572846	299	229	0.01	6	360	22	30	1	52	< 0.01	< 10	< 10	< 1	< 10	38
B572847	299	229	0.01	3	310	6	8	1	50	< 0.01	< 10	< 10	< 1	< 10	22
B572848	299	229	0.01	4	510	8	2	1	81	< 0.01	< 10	< 10	7	< 10	10
B572849	299	229	0.01	7	430	12	6	2	58	< 0.01	< 10	< 10	10	< 10	22
B572850	299	229	0.01	6	420	10	< 2	1	33	< 0.01	< 10	< 10	8	< 10	14
B572851	299	229	0.01	5	490	6	< 2	2	14	< 0.01	< 10	< 10	7	< 10	16
B572852	299	229	0.01	2	370	16	4	1	29	< 0.01	< 10	< 10	< 1	< 10	6
B572853	299	229	0.01	7	490	14	2	1	35	< 0.01	< 10	< 10	6	< 10	18
B572854	299	229	0.01	7	490	2	< 2	4	16	0.02	< 10	< 10	15	< 10	18
B572855	299	229	0.01	8	370	8	2	1	36	< 0.01	< 10	< 10	2	< 10	20
B572856	299	229	0.01	5	310	2	< 2	1	28	< 0.01	< 10	< 10	8	< 10	28
B572857	299	229	< 0.01	8	310	< 2	36	< 1	23	< 0.01	< 10	< 10	4	< 10	14
B572858	299	229	0.01	4	360	2	6	1	27	< 0.01	< 10	< 10	< 1	< 10	18
B572859	299	229	0.02	5	330	16	2	1	25	< 0.01	< 10	< 10	5	< 10	24
B572860	299	229	0.02	7	460	8	< 2	3	30	0.02	< 10	< 10	20	< 10	14
B572861	299	229	0.02	8	640	6	2	5	54	0.03	< 10	< 10	31	< 10	20
B572862	299	229	0.03	14	600	8	< 2	3	34	< 0.01	< 10	< 10	15	< 10	18
B572863	299	229	0.01	8	640	6	< 2	5	19	0.02	< 10	< 10	34	< 10	46
B572864	299	229	0.01	8	470	12	< 2	1	9	< 0.01	< 10	< 10	9	< 10	42

CERTIFICATION: Ian Bucklen

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CERTIFICATE OF ANALYSIS A9315597

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R572865	299	229	3.2	1.49	14	80	< 0.5	6	0.22	0.5	20	100	2680	4.59	10	< 1	0.58	20	0.44	455	321
R572866	299	229	3.6	1.99	8	70	0.5	12	0.10	1.0	13	119	3140	2.50	< 10	< 1	0.36	20	0.11	30	260
R572867	299	229	2.2	1.13	10	50	< 0.5	6	0.14	< 0.5	18	55	1885	3.64	< 10	< 1	0.32	10	0.20	185	211
R572868	299	229	2.0	1.42	6	90	< 0.5	2	0.18	0.5	17	106	1720	2.90	< 10	< 1	0.50	30	0.26	260	194
R572869	299	229	1.6	1.50	2	170	0.5	< 2	0.14	1.5	12	161	2010	1.56	< 10	< 1	0.44	20	0.20	125	268
R572870	299	229	2.0	1.06	2	110	0.5	< 2	0.22	0.5	26	121	1920	3.68	< 10	< 1	0.38	30	0.16	495	274
R572871	299	229	2.6	1.12	2	70	< 0.5	< 2	0.21	< 0.5	39	126	2880	5.84	< 10	< 1	0.46	20	0.18	535	186
R572872	299	229	1.4	0.89	2	180	< 0.5	< 2	0.13	< 0.5	18	150	1435	2.63	< 10	< 1	0.45	30	0.28	440	167
R572873	299	229	1.0	0.79	2	180	< 0.5	< 2	0.21	< 0.5	22	123	951	3.13	10	< 1	0.37	30	0.24	590	243
R572874	299	229	2.4	1.17	2	40	1.5	< 2	0.62	< 0.5	30	125	1960	6.33	< 10	< 1	0.51	20	0.38	540	174
R572875	299	229	1.2	0.68	2	100	0.5	< 2	1.19	< 0.5	9	111	1115	1.89	10	< 1	0.33	10	0.51	130	166
R572876	299	229	1.2	0.89	2	120	0.5	< 2	1.44	< 0.5	10	161	1165	2.07	10	< 1	0.33	20	0.61	185	246
R572877	299	229	1.4	0.94	4	140	1.0	< 2	1.88	< 0.5	12	136	1485	2.12	10	< 1	0.28	10	0.74	225	134
R572878	299	229	1.0	1.45	2	110	< 0.5	< 2	1.64	< 0.5	10	158	1080	2.85	10	< 1	0.92	20	1.28	215	333
R572879	299	229	0.8	1.26	4	120	0.5	< 2	2.05	< 0.5	8	63	1000	2.31	10	< 1	0.60	10	1.20	160	166
R572880	299	229	1.2	1.43	2	110	0.5	< 2	2.14	< 0.5	9	168	1550	2.39	10	< 1	0.73	10	1.28	125	208
R572881	299	229	1.2	2.01	2	140	0.5	< 2	1.85	< 0.5	11	108	1645	2.86	10	< 1	1.24	10	1.85	170	237
R572882	299	229	0.6	1.81	2	140	< 0.5	< 2	2.07	< 0.5	9	88	971	2.58	10	< 1	1.12	< 10	1.57	145	181
R572883	299	229	0.8	0.99	2	120	0.5	< 2	1.93	< 0.5	10	157	1245	1.99	10	< 1	0.44	< 10	0.94	120	208
R572884	299	229	1.4	1.03	2	140	< 0.5	< 2	2.07	< 0.5	7	166	1630	1.84	10	< 1	0.47	10	0.98	125	207
R572885	299	229	0.8	1.15	2	120	< 0.5	< 2	2.13	< 0.5	6	173	1235	1.72	10	< 1	0.46	< 10	0.92	100	147
R572886	299	229	0.6	1.15	2	130	< 0.5	< 2	2.18	< 0.5	7	183	950	1.93	10	< 1	0.42	10	0.93	105	215
R572887	299	229	1.0	1.32	2	100	< 0.5	< 2	1.85	< 0.5	8	165	1320	2.24	10	< 1	0.57	< 10	1.11	110	192
R572888	299	229	1.2	1.43	2	150	< 0.5	< 2	1.78	< 0.5	8	162	1235	2.29	10	< 1	0.60	10	1.12	130	176
R572889	299	229	1.0	1.47	2	100	< 0.5	< 2	1.66	< 0.5	8	194	1195	2.36	10	< 1	0.61	< 10	1.19	140	110
R572890	299	229	0.6	1.28	2	140	< 0.5	< 2	1.85	< 0.5	8	185	1015	2.10	10	< 1	0.54	< 10	1.06	130	155
R572891	299	229	0.8	1.33	2	120	< 0.5	< 2	1.98	< 0.5	8	186	1130	1.96	10	< 1	0.50	< 10	1.06	125	199
R572892	299	229	1.4	1.23	2	130	0.5	4	2.12	< 0.5	10	169	1350	1.78	10	< 1	0.51	10	0.98	120	182
R572893	299	229	1.4	1.04	2	110	0.5	4	2.31	< 0.5	8	151	1350	1.77	10	< 1	0.44	10	0.87	110	378
R572894	299	229	1.2	1.16	2	160	< 0.5	2	2.20	< 0.5	9	156	967	1.77	10	< 1	0.50	< 10	0.98	120	156
R572895	299	229	1.0	1.14	2	160	< 0.5	4	2.38	< 0.5	8	164	1005	1.69	10	< 1	0.50	< 10	0.94	110	243
R572896	299	229	1.4	1.15	2	150	< 0.5	4	2.26	< 0.5	8	146	1280	1.74	10	< 1	0.40	< 10	0.91	120	181
R572897	299	229	1.2	0.63	2	90	< 0.5	6	2.03	< 0.5	9	54	1040	1.60	10	< 1	0.25	10	0.54	90	196
R572898	299	229	1.0	1.21	2	120	< 0.5	4	2.03	< 0.5	13	125	717	2.36	10	< 1	0.50	10	0.82	130	94
R572899	299	229	0.8	0.89	2	200	0.5	2	2.05	< 0.5	9	66	917	1.68	10	< 1	0.39	< 10	0.82	120	109
R572900	299	229	1.0	0.94	2	130	< 0.5	6	2.19	< 0.5	6	140	623	1.52	10	< 1	0.41	10	0.77	105	273
R572901	299	229	1.2	0.96	2	130	< 0.5	4	2.10	< 0.5	7	160	1005	1.61	10	< 1	0.43	< 10	0.76	105	268
R572902	299	229	0.6	1.19	2	120	< 0.5	< 2	1.87	< 0.5	9	154	641	2.20	10	< 1	0.55	< 10	1.02	115	291
R572903	299	229	0.4	0.97	2	90	< 0.5	2	2.41	< 0.5	8	166	420	1.90	10	< 1	0.40	< 10	0.76	95	185
R572904	299	229	0.6	1.15	2	110	< 0.5	< 2	1.89	< 0.5	10	185	516	2.21	10	< 1	0.45	< 10	0.89	120	163

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572865	299	229	0.02	8	670	10	2	7	9	0.03	< 10	< 10	34	< 10	102
H572866	299	229	0.01	13	530	10	< 2	2	8	< 0.01	< 10	< 10	14	< 10	48
H572867	299	229	0.01	8	530	12	2	2	7	< 0.01	< 10	< 10	12	< 10	58
H572868	299	229	0.02	7	560	8	< 2	3	12	< 0.01	< 10	< 10	16	< 10	70
H572869	299	229	0.04	8	490	8	< 2	3	18	< 0.01	< 10	< 10	20	< 10	52
H572870	299	229	0.02	6	520	12	< 2	2	12	< 0.01	< 10	< 10	8	< 10	98
H572871	299	229	0.02	9	500	16	2	2	10	< 0.01	< 10	< 10	10	< 10	98
H572872	299	229	0.04	6	240	8	< 2	4	21	< 0.01	< 10	< 10	20	< 10	92
H572873	299	229	0.03	6	300	6	< 2	3	17	0.01	< 10	< 10	17	< 10	100
H572874	299	229	0.02	7	380	14	< 2	2	16	< 0.01	< 10	< 10	6	< 10	84
H572875	299	229	0.03	3	460	4	< 2	2	24	< 0.01	< 10	< 10	10	< 10	20
H572876	299	229	0.06	3	620	8	< 2	3	36	< 0.01	< 10	< 10	19	< 10	28
H572877	299	229	0.03	4	560	14	< 2	3	49	< 0.01	< 10	< 10	16	< 10	32
H572878	299	229	0.05	5	710	6	< 2	13	33	0.15	< 10	< 10	79	< 10	34
H572879	299	229	0.03	3	580	10	< 2	10	58	0.10	< 10	< 10	64	< 10	30
H572880	299	229	0.04	5	460	4	2	11	85	0.10	< 10	< 10	67	< 10	24
H572881	299	229	0.07	6	770	< 2	< 2	16	76	0.19	< 10	< 10	115	< 10	30
H572882	299	229	0.09	6	550	2	< 2	11	95	0.13	< 10	< 10	86	< 10	24
H572883	299	229	0.05	4	480	2	< 2	6	80	0.04	< 10	< 10	42	< 10	20
H572884	299	229	0.04	4	450	4	2	6	99	0.04	< 10	< 10	44	< 10	20
H572885	299	229	0.04	4	420	8	< 2	5	85	0.04	< 10	< 10	42	< 10	18
H572886	299	229	0.04	4	470	4	< 2	6	99	0.03	< 10	< 10	41	< 10	18
H572887	299	229	0.04	5	380	8	< 2	7	83	0.07	< 10	< 10	52	< 10	22
H572888	299	229	0.05	4	440	8	< 2	8	76	0.08	< 10	< 10	58	< 10	24
H572889	299	229	0.07	5	450	12	< 2	9	62	0.10	< 10	< 10	67	< 10	26
H572890	299	229	0.06	5	400	10	< 2	7	68	0.09	< 10	< 10	56	< 10	24
H572891	299	229	0.05	4	420	8	< 2	7	67	0.07	< 10	< 10	52	< 10	24
H572892	299	229	0.05	4	480	10	< 2	6	80	0.03	< 10	< 10	45	< 10	24
H572893	299	229	0.04	5	490	12	2	6	88	0.04	< 10	< 10	38	< 10	24
H572894	299	229	0.05	4	450	10	< 2	7	82	0.07	< 10	< 10	51	< 10	24
H572895	299	229	0.05	4	460	10	< 2	7	95	0.05	< 10	< 10	48	< 10	24
H572896	299	229	0.05	4	430	12	2	6	83	0.03	< 10	< 10	45	< 10	26
H572897	299	229	0.02	4	550	8	< 2	3	78	0.01	< 10	< 10	21	< 10	18
H572898	299	229	0.03	4	520	16	< 2	7	46	0.01	< 10	< 10	37	< 10	20
H572899	299	229	0.03	4	420	6	< 2	6	53	0.04	< 10	< 10	39	< 10	20
H572900	299	229	0.04	4	400	4	< 2	5	72	0.03	< 10	< 10	34	< 10	20
H572901	299	229	0.04	4	450	6	< 2	6	89	0.04	< 10	< 10	39	< 10	20
H572902	299	229	0.04	4	430	4	2	6	82	0.04	< 10	< 10	40	< 10	22
H572903	299	229	0.03	4	440	8	< 2	4	94	0.02	< 10	< 10	28	< 10	18
H572904	299	229	0.04	4	270	4	< 2	6	81	0.04	< 10	< 10	37	< 10	22

CERTIFICATION: Ian Pirchler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/160
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-JUN-93
Invoice No. : I9315597
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315597

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R572905	299	229	0.6	1.10	2	160	< 0.5	< 2	2.11	< 0.5	8	94	584	1.61	10	< 1	0.41	< 10	0.95	110	335
R572906	299	229	0.8	1.23	2	130	< 0.5	< 2	2.14	< 0.5	10	148	854	1.82	10	< 1	0.44	< 10	1.00	110	131
R572907	299	229	0.8	0.91	2	140	< 0.5	< 2	2.29	0.5	8	65	823	1.62	10	< 1	0.35	< 10	0.85	100	194
R572908	299	229	0.6	0.92	2	110	0.5	4	2.49	< 0.5	11	116	742	2.40	10	< 1	0.32	< 10	0.65	150	485
R572909	299	229	0.6	1.12	2	190	0.5	2	2.28	< 0.5	10	127	604	2.14	10	< 1	0.45	10	0.71	145	98
R572910	299	229	1.2	1.25	2	120	< 0.5	< 2	1.61	< 0.5	10	234	1010	2.42	10	< 1	0.43	10	0.71	170	117
R572911	299	229	1.2	1.02	2	80	< 0.5	< 2	2.24	< 0.5	10	126	1255	2.41	10	< 1	0.39	10	0.84	200	167
R572912	299	229	2.0	0.91	2	130	< 0.5	< 2	2.45	< 0.5	14	168	2480	2.38	10	< 1	0.37	10	0.79	195	92
R572913	299	229	1.2	1.13	2	110	< 0.5	< 2	2.09	< 0.5	8	154	1045	2.15	10	< 1	0.37	10	0.93	185	173
R572914	299	229	1.8	1.22	2	150	0.5	< 2	2.24	< 0.5	11	125	1765	2.13	10	< 1	0.34	< 10	0.89	170	177
R572915	299	229	0.8	1.28	2	160	< 0.5	< 2	1.87	< 0.5	6	141	664	2.21	10	< 1	0.30	10	0.81	155	235
R572916	299	229	1.0	1.11	4	60	< 0.5	< 2	2.08	< 0.5	12	153	1025	2.62	10	< 1	0.32	< 10	1.04	180	125
R572917	299	229	0.6	1.34	2	80	< 0.5	< 2	2.29	< 0.5	7	161	378	2.28	20	< 1	0.53	10	1.03	130	288
R572918	299	229	0.4	1.44	2	100	< 0.5	< 2	1.71	< 0.5	9	172	445	2.39	20	< 1	0.67	10	1.06	150	148
R572919	299	229	0.8	1.45	2	130	< 0.5	< 2	1.59	< 0.5	9	168	707	2.42	20	< 1	0.68	10	1.09	145	536

CERTIFICATION: David Pearson

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/160
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-JUN-93
Invoice No. : 19315597
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315597

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B572905	299	229	0.03	3	470	10	4	6	75	0.05	< 10	< 10	38	< 10	24
B572906	299	229	0.05	4	510	4	< 2	6	69	0.04	< 10	< 10	43	< 10	22
B572907	299	229	0.03	3	490	10	< 2	6	100	0.04	< 10	< 10	40	< 10	24
B572908	299	229	0.02	4	470	6	2	6	58	0.01	< 10	< 10	23	< 10	16
B572909	299	229	0.04	4	500	8	< 2	7	52	0.04	< 10	< 10	39	< 10	18
B572910	299	229	0.02	6	460	12	< 2	6	41	0.01	< 10	< 10	33	< 10	22
B572911	299	229	0.02	4	420	8	< 2	4	46	0.01	< 10	< 10	24	< 10	20
B572912	299	229	0.03	5	370	6	< 2	4	54	< 0.01	< 10	< 10	25	< 10	26
B572913	299	229	0.02	4	430	6	< 2	5	46	0.01	< 10	< 10	26	< 10	22
B572914	299	229	0.02	4	490	8	< 2	6	57	0.01	< 10	< 10	31	< 10	22
B572915	299	229	0.02	3	470	4	2	6	59	0.01	< 10	< 10	33	< 10	22
B572916	299	229	0.02	4	400	8	2	5	69	< 0.01	< 10	< 10	26	< 10	22
B572917	299	229	0.04	3	440	4	< 2	7	99	0.03	< 10	< 10	38	< 10	20
B572918	299	229	0.07	4	470	6	< 2	10	80	0.12	< 10	< 10	68	< 10	24
B572919	299	229	0.07	4	490	4	4	10	82	0.10	< 10	< 10	59	< 10	24

CERTIFICATION: _____

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Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :1
Total Pages : 4
Certificate Date : 24-JUN-93
Invoice No. : 19315814
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315814

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570232	208	274	0.13	0.049	0.45	2500						
H570233	208	276	0.08	0.027	1.68	9500						
H570234	208	276	0.12	0.052	1.51	11020						
H570235	208	276	0.14	0.032	0.62	9900						
H570236	208	273	0.18	0.019	0.24	12120						
H570237	208	276	0.18	0.018	0.48	10080						
H570238	208	276	0.14	0.018	0.48	9020						
H570239	208	276	0.09	0.043	0.65	10120						
H570240	208	273	0.50	0.015	0.79	14300						
H570241	208	273	0.56	0.044	0.48	12940						
H570242	208	276	0.11	0.028	0.93	11340						
H570243	208	273	0.07	0.032	0.69	12840						
H570244	208	276	0.07	0.032	1.85	11430						
H570245	208	273	0.09	0.025	1.54	12500						
H570246	208	273	0.12	0.027	1.03	12720						
H570247	208	273	0.24	0.052	0.65	12280						
H570248	208	276	0.14	0.083	0.79	11480						
H570249	208	276	0.14	0.058	0.69	11160						
H570250	208	276	0.13	0.053	0.99	9520						
H570251	208	276	0.12	0.054	0.86	8560						
H570252	208	273	0.11	0.059	0.62	13000						
H570253	208	273	0.09	0.032	0.58	12320						
H570254	208	273	0.11	0.065	0.51	12360						
H570255	208	273	0.09	0.038	0.48	11820						
H570256	208	276	0.09	0.056	0.75	11660						
H570257	208	276	0.09	0.071	0.38	11380						
H570258	208	273	0.08	0.032	0.34	13280						
H570259	208	276	0.10	0.053	1.06	10860						
H570260	208	276	0.08	0.053	0.48	11560						
H570261	208	273	0.10	0.076	0.48	12620						
H570262	208	273	0.10	0.051	0.82	13720						
H570263	208	273	0.09	0.081	0.65	12920						
H570264	208	273	0.15	0.064	0.72	12720						
H570265	208	273	0.11	0.045	0.69	12260						
H570266	208	273	0.07	0.040	0.55	12220						
H570267	208	273	0.11	0.034	1.37	12280						
H570268	208	273	0.16	0.140	0.93	13140						
H570269	208	273	0.28	0.059	0.58	12740						
H570270	208	273	0.35	0.040	0.65	12520						
H570271	208	273	0.21	0.024	0.62	12300						

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Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. :I9315814
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315814

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570272	208	273	0.37	0.049	0.45	12420						
H570273	208	276	0.50	0.034	0.38	11020						
H570274	208	276	0.50	0.028	0.55	11180						
H570275	208	276	0.36	0.023	0.41	11120						
H570276	208	276	0.28	0.019	0.24	11340						
H570277	208	276	1.00	0.031	0.58	9220						
H570278	208	276	0.47	0.022	0.48	11200						
H570279	208	276	0.60	0.026	0.41	10120						
H570280	208	276	0.62	0.102	0.58	9900						
H570281	208	276	0.47	0.024	0.48	11480						
H570282	208	276	0.34	0.024	0.45	11180						
H570283	208	276	0.30	0.034	0.34	11380						
H570284	208	276	0.36	0.024	0.38	11360						
H570285	208	276	0.40	0.030	0.48	11460						
H570286	208	276	0.37	0.049	0.79	11280						
H570287	208	276	1.48	0.045	0.62	9720						
H570288	208	276	0.34	0.056	0.21	11480						
H570289	208	276	0.53	0.068	0.38	11410						
H570290	208	273	0.34	0.040	0.45	13560						
H570291	208	273	0.25	0.039	0.38	11920						
H570292	208	273	0.26	0.077	0.41	12480						
H570293	208	276	0.22	0.045	0.27	9300						
H570294	208	276	0.21	0.039	0.38	11620						
H570295	208	276	0.23	0.028	0.55	11280						
H570296	208	273	0.15	0.021	0.34	12760						
H570297	208	273	0.32	0.056	0.75	11860						
H570298	208	276	0.32	0.084	0.58	11260						
H570299	208	273	0.32	0.061	0.38	11980						
H570300	208	273	0.22	0.040	0.34	12180						
H570301	208	276	0.30	0.097	0.38	11180						
H570302	208	276	0.38	0.033	1.54	11540						
H570303	208	273	0.18	0.024	0.45	12360						
H570304	208	273	0.37	0.053	0.89	13700						
H570305	208	273	0.28	0.040	0.65	12180						
H570306	208	273	0.27	0.058	0.31	12100						
H570307	208	276	0.22	0.041	0.41	11700						
H570308	208	276	0.23	0.034	0.38	11520						
H570309	208	273	0.29	0.038	0.41	12720						
H570310	208	276	0.27	0.047	0.55	11460						
H570311	208	273	0.16	0.041	0.31	12000						

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Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. : I9315814
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315814

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570312	208	273	0.20	0.035	0.45	12940						
H570313	208	273	0.21	0.020	0.51	12240						
H570314	208	273	0.25	0.030	0.45	12140						
H570315	208	276	0.20	0.037	0.34	10580						
H570316	208	273	0.19	0.026	0.41	12940						
H570317	208	273	0.18	0.034	0.31	12920						
H570318	208	276	0.13	0.021	0.17	10440						
H570319	208	276	0.18	0.033	0.31	10900						
H570320	208	273	0.20	0.029	0.45	12360						
H570321	208	273	0.22	0.037	0.41	11960						
H570322	208	273	0.17	0.062	0.24	14280						
H570323	208	276	0.30	0.036	0.27	11060						
H570324	208	273	0.20	0.089	0.38	13580						
H570325	208	273	0.14	0.097	0.21	13640						
H570326	208	273	0.15	0.067	0.21	13260						
H570327	208	273	0.15	0.035	0.21	13720						
H570328	208	273	0.19	0.053	0.45	12680						
H570329	208	276	0.18	0.027	0.24	10920						
H570330	208	273	0.16	0.043	0.24	13120						
H570331	208	273	0.10	0.032	0.14	14140						
H570332	208	273	0.18	0.042	0.31	11940						
H570333	208	273	0.25	0.046	0.34	12500						
H570334	208	273	0.20	0.090	0.31	12620						
H570335	208	273	0.22	0.031	0.38	12600						
H570336	208	273	0.33	0.048	0.48	12420						
H570337	208	273	0.23	0.061	0.38	12760						
H570338	208	276	0.20	0.020	0.34	8800						
H570339	208	273	0.34	0.034	0.58	12900						
H570340	208	273	0.71	0.061	1.41	12200						
H570341	208	273	0.24	0.065	0.27	12800						
H570342	208	273	0.21	0.029	0.34	14350						
H570343	208	273	0.11	0.017	0.17	12430						
H570344	208	276	0.09	0.024	0.21	11300						
H570345	208	276	0.11	0.023	0.14	11620						
H570346	208	276	0.09	0.031	0.14	10840						
H570347	208	273	0.13	0.028	0.21	12260						
H570348	208	276	0.11	0.027	0.14	11540						
H570349	208	273	0.09	0.026	0.10	12620						
H570350	208	273	0.07	0.032	0.10	12100						
H570351	208	273	0.11	0.036	0.07	12720						

CERTIFICATION: Gitta Zeinab

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Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-JUN-93
Invoice No. : I9315814
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315814

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H570352	208	273	0.13	0.039	0.27	12320						
H570353	208	276	0.11	0.036	0.10	11700						
H570354	208	276	0.13	0.028	0.10	11590						
H570355	208	276	0.09	0.015	0.14	11700						
H570356	208	273	0.14	0.028	0.17	12130						
H570357	208	273	0.13	0.024	0.14	12710						
H570358	208	276	0.25	0.043	0.34	11250						
H570359	208	276	0.23	0.040	0.51	11600						
H570360	208	273	0.12	0.013	0.21	11920						
H570361	208	276	0.12	0.018	0.14	11300						
H570362	208	276	0.11	0.016	0.10	10610						
H570363	208	276	0.11	0.017	0.21	11300						
H570364	208	273	0.11	0.042	0.10	12450						
H570365	208	273	0.08	0.033	0.10	12280						
H570366	208	273	0.09	0.024	0.10	12460						
H570367	208	276	0.08	0.026	0.07	11800						
H570368	208	276	0.09	0.015	0.10	10660						
H570369	208	273	0.06	0.013	0.07	12040						
H570370	208	276	0.08	0.026	< 0.03	10740						
H570371	208	276	0.04	0.018	0.03	10900						
H570372	208	276	0.03	0.031	< 0.03	11280						
H570373	208	276	0.04	0.023	< 0.03	11240						
H570374	208	276	0.08	0.031	0.07	10600						
H570375	208	276	0.09	0.016	0.07	11720						
776	208	274	0.08	0.057	0.48	5420						
777	208	274	0.73	0.080	0.65	5720						
778	208	274	0.21	0.037	0.34	6000						
779	208	274	0.18	0.031	0.34	6260						
780	208	274	0.71	0.055	1.65	6360						
781	208	274	0.10	0.014	0.17	6260						

CERTIFICATION: Said Zeinab

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total : 4
Certificate Date: 25-JUN-93
Invoice No. : 19315815
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9315815

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#570232	299	229	0.4	1.34	< 2	340	0.5	< 2	0.06	< 0.5	3	151	1270	4.13	10	< 1	0.45	20	0.31	45	301
#570233	299	229	1.8	1.12	6	130	< 0.5	2	0.04	< 0.5	3	140	848	2.42	10	< 1	0.54	30	0.40	50	176
#570234	299	229	1.8	1.10	8	110	< 0.5	< 2	0.04	< 0.5	3	147	1270	3.24	10	< 1	0.49	30	0.33	50	343
#570235	299	229	0.8	0.90	10	80	< 0.5	< 2	0.05	< 0.5	2	107	1425	3.01	10	< 1	0.44	30	0.34	65	203
#570236	299	229	1.6	0.97	12	110	< 0.5	< 2	0.07	< 0.5	5	124	1890	4.42	< 10	< 1	0.55	30	0.37	80	114
#570237	299	229	1.8	1.55	< 2	170	0.5	< 2	0.08	0.5	9	101	1770	3.63	< 10	< 1	0.84	20	1.06	170	108
#570238	299	229	2.0	1.79	18	220	< 0.5	< 2	0.09	0.5	13	72	1405	5.95	10	1	0.98	20	1.11	240	98
#570239	299	229	4.0	1.37	38	180	< 0.5	4	0.07	< 0.5	6	91	871	4.40	< 10	< 1	0.95	20	0.72	145	255
#570240	299	229	1.4	1.55	< 2	290	< 0.5	< 2	0.50	1.0	15	120	4800	3.27	10	< 1	0.73	20	1.03	355	74
#570241	299	229	1.2	1.36	< 2	210	0.5	< 2	0.70	1.0	31	118	5620	2.73	10	< 1	0.65	20	0.83	730	254
#570242	299	229	2.4	1.43	2	130	< 0.5	2	0.52	0.5	5	123	1185	3.17	10	< 1	0.68	30	0.90	135	169
#570243	299	229	1.6	1.28	< 2	150	< 0.5	< 2	0.23	< 0.5	7	110	645	3.56	10	< 1	0.71	30	0.82	115	188
#570244	299	229	2.8	1.12	< 2	140	< 0.5	< 2	0.09	< 0.5	5	136	707	3.79	10	< 1	0.69	40	0.66	100	187
#570245	299	229	3.4	1.37	8	170	< 0.5	< 2	0.13	< 0.5	7	122	876	3.89	10	< 1	0.73	30	0.79	125	148
#570246	299	229	2.2	1.20	6	170	< 0.5	< 2	0.27	< 0.5	8	170	1230	4.97	10	< 1	0.56	30	0.58	110	156
#570247	299	229	3.8	1.15	18	80	< 0.5	2	1.13	0.5	10	153	2550	4.18	10	< 1	0.47	30	0.35	140	311
#570248	299	229	4.6	0.88	12	80	< 0.5	< 2	0.64	< 0.5	5	116	1510	3.41	10	< 1	0.46	30	0.28	75	534
#570249	299	229	2.0	0.79	2	70	< 0.5	< 2	0.27	0.5	9	115	1405	3.81	< 10	< 1	0.40	30	0.30	80	355
#570250	299	229	3.4	0.93	< 2	110	< 0.5	< 2	0.34	< 0.5	8	106	1255	4.01	< 10	< 1	0.56	20	0.41	110	303
#570251	299	229	3.6	0.89	< 2	110	< 0.5	< 2	0.14	0.5	8	120	1170	4.08	< 10	< 1	0.61	30	0.40	115	325
#570252	299	229	2.4	1.57	< 2	110	< 0.5	< 2	0.12	0.5	7	75	1070	4.22	10	< 1	0.72	50	0.89	135	348
#570253	299	229	1.4	1.49	2	80	< 0.5	< 2	0.11	< 0.5	4	97	855	3.00	10	< 1	0.69	30	0.92	110	194
#570254	299	229	2.2	1.46	< 2	180	< 0.5	< 2	0.20	< 0.5	8	64	1050	4.36	10	< 1	0.49	30	0.74	105	393
#570255	299	229	1.2	1.50	< 2	100	< 0.5	< 2	0.21	0.5	5	51	753	3.88	10	1	0.50	30	0.81	125	195
#570256	299	229	1.8	1.70	< 2	100	< 0.5	< 2	0.12	0.5	6	78	939	4.78	10	< 1	0.61	40	0.84	120	345
#570257	299	229	2.6	1.43	2	100	< 0.5	4	0.11	< 0.5	4	93	864	5.10	10	< 1	0.54	40	0.57	105	429
#570258	299	229	1.4	1.25	< 2	210	< 0.5	< 2	0.17	0.5	4	92	764	6.63	10	< 1	0.61	20	0.66	145	194
#570259	299	229	3.0	1.27	2	170	< 0.5	< 2	0.10	< 0.5	4	116	953	4.79	10	< 1	0.80	30	0.71	120	296
#570260	299	229	2.6	1.52	< 2	210	< 0.5	2	0.08	< 0.5	7	94	795	5.09	10	< 1	0.84	30	1.01	150	305
#570261	299	229	2.2	1.41	< 2	160	< 0.5	< 2	0.14	< 0.5	5	85	978	4.44	10	< 1	0.63	20	0.69	120	455
#570262	299	229	2.8	1.47	< 2	200	< 0.5	< 2	0.06	< 0.5	7	101	933	5.15	10	< 1	0.68	30	0.66	115	295
#570263	299	229	3.0	1.39	< 2	120	< 0.5	< 2	0.06	0.5	6	85	888	4.85	10	< 1	0.65	40	0.76	125	478
#570264	299	229	2.8	1.06	2	130	< 0.5	< 2	0.08	< 0.5	4	83	1420	5.34	< 10	< 1	0.53	20	0.60	140	362
#570265	299	229	2.6	1.23	< 2	150	< 0.5	< 2	0.06	0.5	4	96	997	5.29	10	< 1	0.63	20	0.60	100	248
#570266	299	229	1.6	1.19	< 2	90	< 0.5	< 2	0.13	< 0.5	4	59	712	4.15	10	< 1	0.60	30	0.90	115	237
#570267	299	229	3.0	1.82	4	120	< 0.5	< 2	0.08	0.5	7	66	1090	4.67	10	< 1	0.89	30	1.33	180	191
#570268	299	229	3.6	1.44	16	90	< 0.5	< 2	0.12	< 0.5	8	86	1565	5.91	10	< 1	0.65	40	0.87	130	773
#570269	299	229	2.2	1.88	< 2	100	< 0.5	< 2	0.11	< 0.5	7	88	2790	3.49	10	< 1	0.78	30	1.20	175	333
#570270	299	229	2.8	1.20	< 2	80	< 0.5	< 2	0.11	0.5	15	73	3640	5.02	< 10	< 1	0.56	20	0.83	130	227
#570271	299	229	2.2	1.46	12	100	< 0.5	< 2	0.06	< 0.5	8	62	2050	4.26	10	< 1	0.57	20	0.81	110	130

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
#570232	299	229	0.01	10	310	34	4	4	12	0.01	< 10	< 10	41	10	56
#570233	299	229	0.02	8	230	20	2	4	10	0.02	< 10	< 10	40	< 10	48
#570234	299	229	0.01	8	270	34	4	4	9	0.01	< 10	< 10	35	< 10	60
#570235	299	229	0.01	7	200	24	< 2	3	7	0.02	< 10	< 10	37	10	62
#570236	299	229	0.02	10	270	18	< 2	4	11	0.02	< 10	< 10	49	10	86
#570237	299	229	0.03	12	230	12	< 2	10	11	0.09	< 10	< 10	76	10	110
#570238	299	229	0.03	14	290	16	2	13	17	0.09	< 10	< 10	96	10	146
#570239	299	229	0.04	6	240	22	< 2	8	16	0.06	< 10	< 10	58	10	94
#570240	299	229	0.04	17	300	< 2	< 2	6	17	0.07	< 10	< 10	52	< 10	152
#570241	299	229	0.03	13	220	6	2	4	20	0.04	< 10	< 10	39	< 10	150
#570242	299	229	0.03	9	340	12	< 2	5	18	0.06	< 10	< 10	46	10	82
#570243	299	229	0.03	10	300	6	4	6	15	0.07	< 10	< 10	52	10	76
#570244	299	229	0.04	8	220	16	4	4	13	0.05	< 10	< 10	50	10	86
#570245	299	229	0.04	8	220	14	< 2	5	14	0.05	< 10	< 10	56	10	124
#570246	299	229	0.03	10	250	22	< 2	4	14	0.03	< 10	< 10	53	10	136
#570247	299	229	0.01	12	380	28	2	4	14	0.01	< 10	< 10	38	10	250
#570248	299	229	0.02	8	240	14	4	4	13	0.01	< 10	< 10	39	10	110
#570249	299	229	0.01	10	230	12	6	4	12	0.01	< 10	< 10	36	10	212
#570250	299	229	0.02	9	220	4	2	5	10	0.03	< 10	< 10	49	10	178
#570251	299	229	0.02	5	310	12	2	4	13	0.03	< 10	< 10	39	10	172
#570252	299	229	0.02	9	340	26	2	6	19	0.04	< 10	< 10	47	10	124
#570253	299	229	0.02	8	220	20	< 2	5	10	0.04	< 10	< 10	41	10	92
#570254	299	229	0.01	10	390	22	2	4	10	0.03	< 10	< 10	40	10	136
#570255	299	229	0.01	11	420	12	8	4	7	0.02	< 10	< 10	44	10	92
#570256	299	229	0.02	10	540	26	4	4	10	0.03	< 10	< 10	51	20	98
#570257	299	229	0.02	8	590	24	4	3	13	0.01	< 10	< 10	45	10	82
#570258	299	229	0.04	10	460	16	< 2	5	16	0.02	< 10	< 10	72	20	78
#570259	299	229	0.03	10	440	12	< 2	6	16	0.04	< 10	< 10	50	20	72
#570260	299	229	0.04	8	520	18	4	8	17	0.08	< 10	< 10	65	20	126
#570261	299	229	0.05	5	460	18	4	5	20	0.04	< 10	< 10	53	10	88
#570262	299	229	0.04	9	480	28	2	6	18	0.04	< 10	< 10	55	10	96
#570263	299	229	0.02	9	460	20	4	6	13	0.05	< 10	< 10	56	10	102
#570264	299	229	0.03	7	390	22	2	3	12	0.02	< 10	< 10	43	10	78
#570265	299	229	0.05	6	490	20	2	4	15	0.02	< 10	< 10	44	20	72
#570266	299	229	0.03	6	430	10	< 2	5	13	0.05	< 10	< 10	52	10	62
#570267	299	229	0.03	10	410	18	< 2	6	11	0.08	< 10	< 10	61	20	92
#570268	299	229	0.02	6	500	18	4	4	13	0.04	< 10	< 10	50	20	126
#570269	299	229	0.03	10	230	6	2	6	9	0.07	< 10	< 10	57	< 10	74
#570270	299	229	0.02	11	310	12	4	5	7	0.05	< 10	< 10	55	10	64
#570271	299	229	0.02	8	380	22	< 2	5	10	0.06	< 10	< 10	58	10	54

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570272	299	229	2.0	1.75	4	90	< 0.5	< 2	0.09	< 0.5	11	102	3700	4.97	10	< 1	0.56	30	0.88	150	278
H570273	299	229	2.2	1.61	4	70	< 0.5	< 2	0.16	0.5	10	72	5080	5.21	10	< 1	0.58	20	0.96	175	195
H570274	299	229	2.8	1.95	6	110	< 0.5	< 2	0.14	0.5	11	83	5080	4.05	10	< 1	0.88	20	1.25	170	170
H570275	299	229	2.0	1.62	4	80	< 0.5	< 2	0.20	< 0.5	12	70	3800	5.53	10	< 1	0.68	20	1.13	175	138
H570276	299	229	1.4	1.44	2	90	< 0.5	< 2	0.12	0.5	10	75	2940	4.95	10	< 1	0.63	10	1.02	165	121
H570277	299	229	2.8	1.90	6	90	< 0.5	< 2	0.17	4.0	17	66	>10000	4.83	10	< 1	0.71	20	1.17	255	198
H570278	299	229	3.2	1.60	20	120	< 0.5	< 2	0.23	12.5	20	59	4820	5.27	10	< 1	0.73	20	1.11	430	130
H570279	299	229	4.8	1.21	14	100	< 0.5	< 2	0.16	11.0	15	45	6400	3.70	< 10	< 1	0.43	20	0.70	155	143
H570280	299	229	6.8	1.04	12	60	< 0.5	< 2	0.17	2.0	22	53	6490	4.19	< 10	< 1	0.46	20	0.64	210	614
H570281	299	229	3.2	1.21	4	90	< 0.5	< 2	0.18	2.0	20	59	4780	3.68	< 10	< 1	0.59	20	0.75	195	139
H570282	299	229	1.6	1.01	2	60	< 0.5	< 2	0.15	2.0	12	52	3320	2.11	< 10	< 1	0.49	20	0.73	215	148
H570283	299	229	2.0	0.86	4	160	< 0.5	< 2	0.13	1.0	15	66	3060	2.88	< 10	< 1	0.50	20	0.59	305	198
H570284	299	229	2.0	1.18	2	180	< 0.5	< 2	0.16	1.5	15	67	3540	3.14	< 10	< 1	0.57	20	0.76	300	136
H570285	299	229	3.6	0.79	2	70	< 0.5	< 2	0.15	0.5	14	61	4010	3.13	< 10	2	0.46	20	0.49	255	160
H570286	299	229	3.4	0.72	6	220	< 0.5	< 2	0.16	1.0	25	58	3700	3.43	< 10	< 1	0.44	20	0.50	570	290
H570287	299	229	11.8	0.57	70	30	< 0.5	12	0.15	2.0	15	40	>10000	5.14	< 10	< 1	0.27	10	0.10	60	256
H570288	299	229	4.4	0.37	18	70	< 0.5	4	0.13	0.5	11	41	3600	3.31	< 10	< 1	0.21	10	0.12	195	341
H570289	299	229	6.6	0.37	24	40	< 0.5	< 2	0.21	1.0	13	58	5360	3.91	< 10	< 1	0.22	10	0.11	245	430
H570290	299	229	8.8	0.32	240	40	< 0.5	20	0.75	2.5	11	35	3630	4.46	< 10	1	0.19	< 10	0.34	670	255
H570291	299	229	2.0	0.47	18	30	< 0.5	< 2	0.56	1.5	18	75	2480	3.08	< 10	< 1	0.19	20	0.34	515	225
H570292	299	229	1.6	0.89	12	180	0.5	< 2	1.33	0.5	18	58	2730	2.91	10	< 1	0.44	20	0.65	275	454
H570293	299	229	1.6	1.12	24	90	0.5	< 2	0.83	1.5	22	68	2260	5.08	10	< 1	0.33	20	0.68	390	268
H570294	299	229	1.6	0.87	36	40	0.5	< 2	0.29	1.0	25	59	2250	4.77	10	< 1	0.32	20	0.49	345	258
H570295	299	229	1.8	1.36	12	130	0.5	< 2	0.65	1.0	26	81	2480	4.32	10	< 1	0.69	20	0.96	375	157
H570296	299	229	1.0	1.62	2	120	0.5	< 2	0.52	< 0.5	15	116	1510	3.59	10	< 1	0.78	20	1.17	210	119
H570297	299	229	2.4	1.16	12	170	0.5	< 2	0.61	1.0	18	126	3450	3.57	10	< 1	0.67	20	0.88	265	327
H570298	299	229	2.4	1.32	36	110	0.5	2	0.51	1.0	26	98	3550	5.22	10	< 1	0.73	10	0.96	385	545
H570299	299	229	2.2	0.78	42	150	0.5	< 2	0.65	1.0	26	143	3340	5.18	10	< 1	0.32	20	0.45	315	379
H570300	299	229	1.8	0.93	50	150	0.5	< 2	0.65	0.5	27	133	2270	5.75	10	< 1	0.53	10	0.71	275	234
H570301	299	229	2.6	0.87	46	60	0.5	< 2	0.65	0.5	28	75	3210	5.52	10	< 1	0.33	10	0.57	310	563
H570302	299	229	3.0	1.27	16	60	0.5	< 2	0.23	1.5	16	81	3750	5.24	10	< 1	0.50	20	0.68	380	179
H570303	299	229	1.4	1.48	6	110	0.5	2	0.59	1.0	12	147	1815	5.41	10	< 1	0.87	10	1.28	230	134
H570304	299	229	3.4	3.12	12	120	< 0.5	< 2	0.69	< 0.5	21	276	3710	5.74	20	< 1	2.31	10	3.06	345	321
H570305	299	229	2.2	1.66	6	120	0.5	< 2	0.78	0.5	16	126	2950	5.40	10	< 1	0.91	20	1.26	195	228
H570306	299	229	2.0	0.47	30	60	< 0.5	< 2	1.20	0.5	15	104	2600	2.95	< 10	< 1	0.26	10	0.51	185	319
H570307	299	229	1.6	0.70	14	170	0.5	< 2	0.89	0.5	16	126	2190	3.14	< 10	< 1	0.40	10	0.55	175	223
H570308	299	229	2.0	0.46	24	100	0.5	< 2	0.58	0.5	17	93	2450	2.94	< 10	< 1	0.27	10	0.44	240	209
H570309	299	229	2.4	0.62	28	120	0.5	< 2	0.96	0.5	21	108	3050	3.43	< 10	< 1	0.33	10	0.54	245	229
H570310	299	229	2.0	0.50	62	150	0.5	< 2	1.50	0.5	16	71	2700	2.80	< 10	< 1	0.21	10	0.62	185	265
H570311	299	229	1.4	0.72	30	200	0.5	2	1.74	< 0.5	12	150	1670	3.14	10	< 1	0.40	10	1.02	150	238

CERTIFICATION: Stuart Buchler

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R570272	299	229	0.02	12	440	12	< 2	5	11	0.04	< 10	< 10	54	10	60
R570273	299	229	0.02	10	410	12	< 2	5	8	0.04	< 10	< 10	57	10	70
R570274	299	229	0.02	13	460	12	< 2	8	8	0.09	< 10	< 10	76	10	78
R570275	299	229	0.02	14	610	8	< 2	6	9	0.06	< 10	< 10	64	10	82
R570276	299	229	0.02	13	300	22	< 2	4	10	0.05	< 10	< 10	50	10	102
R570277	299	229	0.01	19	370	22	< 2	7	7	0.06	< 10	< 10	66	< 10	166
R570278	299	229	0.01	15	390	18	6	6	8	0.06	< 10	< 10	58	20	206
R570279	299	229	0.01	15	460	16	< 2	3	7	0.03	< 10	< 10	32	< 10	1085
R570280	299	229	0.01	13	470	16	4	3	7	0.03	< 10	< 10	40	10	148
R570281	299	229	0.01	12	450	42	< 2	5	8	0.06	< 10	< 10	44	10	122
R570282	299	229	0.01	10	250	18	< 2	4	8	0.04	< 10	< 10	36	< 10	90
R570283	299	229	0.02	11	240	14	2	3	9	0.04	< 10	< 10	37	< 10	102
R570284	299	229	0.02	10	240	16	< 2	4	10	0.05	< 10	< 10	45	< 10	104
R570285	299	229	0.01	10	380	22	2	4	7	0.04	< 10	< 10	29	< 10	82
R570286	299	229	0.01	11	140	36	4	4	14	0.03	< 10	< 10	34	10	152
R570287	299	229	< 0.01	13	420	128	18	2	6	< 0.01	< 10	< 10	11	< 10	172
R570288	299	229	< 0.01	8	390	38	8	1	10	< 0.01	< 10	< 10	8	< 10	76
R570289	299	229	< 0.01	7	700	36	14	1	10	< 0.01	< 10	< 10	12	< 10	76
R570290	299	229	< 0.01	10	260	132	66	2	12	< 0.01	< 10	< 10	11	< 10	136
R570291	299	229	0.01	8	360	14	12	3	11	< 0.01	< 10	< 10	21	< 10	144
R570292	299	229	0.01	9	320	16	6	3	20	0.02	< 10	< 10	33	10	74
R570293	299	229	0.01	14	400	18	18	3	16	0.01	< 10	< 10	38	10	124
R570294	299	229	< 0.01	15	600	12	14	6	10	0.02	< 10	< 10	41	10	78
R570295	299	229	0.01	15	450	10	6	7	18	0.07	< 10	< 10	57	10	100
R570296	299	229	0.02	18	530	8	< 2	6	18	0.08	< 10	< 10	60	< 10	66
R570297	299	229	0.02	12	350	8	6	7	21	0.06	< 10	< 10	50	10	72
R570298	299	229	0.01	15	460	10	20	8	14	0.07	< 10	< 10	66	20	114
R570299	299	229	0.01	15	420	14	16	4	15	0.01	< 10	< 10	36	10	88
R570300	299	229	0.01	13	340	6	14	5	16	0.04	< 10	< 10	59	10	66
R570301	299	229	0.01	14	470	10	8	3	17	0.01	< 10	< 10	45	10	84
R570302	299	229	0.01	15	340	8	2	3	11	0.03	< 10	< 10	32	10	112
R570303	299	229	0.02	15	340	4	6	7	15	0.07	< 10	< 10	68	10	56
R570304	299	229	0.02	38	920	22	< 2	20	15	0.21	< 10	< 10	149	20	120
R570305	299	229	0.02	15	380	8	2	7	18	0.09	< 10	< 10	82	10	68
R570306	299	229	0.01	9	210	12	6	2	17	< 0.01	< 10	< 10	21	< 10	52
R570307	299	229	0.01	9	230	6	4	3	20	0.02	< 10	< 10	26	10	46
R570308	299	229	0.01	7	180	8	6	3	14	0.01	< 10	< 10	24	< 10	56
R570309	299	229	0.01	9	280	8	2	2	21	0.01	< 10	< 10	23	10	52
R570310	299	229	0.01	9	400	10	14	3	28	< 0.01	< 10	< 10	26	10	50
R570311	299	229	0.02	8	210	6	6	3	34	0.02	< 10	< 10	29	10	36

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-JUN-93
Invoice No. :19315815
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315815

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B570312	299	229	1.4	1.10	28	150	0.5	< 2	1.34	0.5	10	89	1920	2.14	10	< 1	0.65	20	0.97	145	212
B570313	299	229	2.0	0.88	14	170	0.5	< 2	1.12	0.5	16	82	2040	2.69	10	< 1	0.55	20	0.78	180	119
B570314	299	229	2.6	0.74	48	80	0.5	6	1.64	0.5	16	64	2480	4.28	10	< 1	0.49	10	0.98	255	183
B570315	299	229	2.0	0.82	10	70	0.5	< 2	0.98	0.5	16	97	1940	2.38	< 10	< 1	0.50	20	0.63	205	215
B570316	299	229	1.8	0.89	18	70	0.5	< 2	0.93	0.5	16	40	1780	3.52	10	< 1	0.54	10	0.84	275	152
B570317	299	229	1.6	0.72	8	50	0.5	< 2	0.57	< 0.5	13	48	1695	2.97	< 10	< 1	0.42	10	0.76	200	210
B570318	299	229	1.0	0.66	6	70	0.5	< 2	0.70	0.5	14	38	1210	3.25	< 10	< 1	0.39	10	0.75	195	122
B570319	299	229	1.4	0.66	12	60	0.5	2	0.57	< 0.5	14	46	1725	3.51	< 10	< 1	0.37	10	0.69	175	198
B570320	299	229	1.6	1.20	12	60	0.5	< 2	0.70	< 0.5	20	42	2060	4.47	10	< 1	0.61	10	1.04	205	175
B570321	299	229	1.6	1.13	12	110	0.5	< 2	1.02	< 0.5	13	55	2150	2.74	10	< 1	0.77	20	0.96	175	239
B570322	299	229	1.8	0.64	38	180	0.5	< 2	1.31	< 0.5	9	40	1690	2.97	< 10	< 1	0.40	10	0.66	165	376
B570323	299	229	2.2	1.12	16	100	1.0	2	1.24	1.0	21	40	3020	3.91	10	< 1	0.36	10	0.59	245	215
B570324	299	229	1.6	0.91	12	180	0.5	< 2	1.55	< 0.5	12	48	1910	2.88	10	< 1	0.47	10	0.89	185	501
B570325	299	229	1.4	1.30	< 2	220	0.5	2	1.39	< 0.5	15	53	1570	3.71	10	< 1	0.43	10	0.88	245	701
B570326	299	229	1.6	1.48	8	250	1.0	< 2	1.56	< 0.5	15	44	1585	4.02	10	< 1	0.47	10	0.96	295	417
B570327	299	229	1.4	0.92	12	290	0.5	< 2	1.11	< 0.5	12	61	1510	3.13	10	< 1	0.47	10	0.69	215	216
B570328	299	229	1.6	1.33	< 2	420	0.5	< 2	1.04	< 0.5	12	49	1855	3.09	10	< 1	0.52	20	0.78	155	351
B570329	299	229	1.6	1.19	26	20	1.0	< 2	1.44	0.5	16	42	1755	3.48	10	< 1	0.20	20	0.78	290	160
B570330	299	229	1.6	0.73	40	40	0.5	< 2	1.51	< 0.5	12	38	1570	1.84	< 10	< 1	0.22	10	0.63	175	296
B570331	299	229	0.8	0.77	12	330	< 0.5	< 2	1.06	< 0.5	8	48	966	1.71	< 10	< 1	0.43	10	0.59	140	185
B570332	299	229	1.4	1.30	< 2	590	0.5	< 2	1.37	0.5	11	41	1765	2.77	10	< 1	0.70	20	0.95	180	248
B570333	299	229	3.2	1.04	30	120	0.5	6	1.72	0.5	18	63	2400	3.46	10	< 1	0.64	10	0.86	255	284
B570334	299	229	1.8	1.11	16	250	0.5	2	1.75	< 0.5	14	53	1940	3.49	10	< 1	0.68	20	0.85	210	521
B570335	299	229	1.6	1.62	12	210	1.0	< 2	1.76	0.5	10	66	2220	3.21	10	< 1	0.82	20	1.09	165	185
B570336	299	229	2.4	0.98	38	200	0.5	< 2	2.07	< 0.5	14	47	3340	3.29	10	< 1	0.46	10	0.96	190	277
B570337	299	229	1.6	1.19	22	160	0.5	< 2	1.21	< 0.5	13	61	2230	3.55	10	< 1	0.70	10	0.92	155	328
B570338	299	229	1.2	0.76	22	120	0.5	2	1.03	< 0.5	18	57	2080	4.74	< 10	< 1	0.50	10	0.69	155	105
B570339	299	229	2.2	1.30	20	100	1.0	< 2	1.69	0.5	17	71	3330	3.85	10	< 1	0.57	10	0.94	200	185
B570340	299	229	4.6	0.98	18	120	0.5	< 2	2.41	0.5	14	63	6890	2.77	10	< 1	0.50	20	0.69	180	340
B570341	299	229	2.0	1.34	20	70	0.5	2	2.23	< 0.5	21	67	2390	4.44	10	< 1	0.66	20	1.02	215	353
B570342	299	229	1.2	1.39	34	140	< 0.5	< 2	2.03	< 0.5	23	74	2200	4.68	10	< 1	0.63	20	0.89	220	165
B570343	299	229	0.6	1.64	18	220	0.5	< 2	1.96	< 0.5	15	68	1080	4.15	10	< 1	0.82	20	1.01	220	91
B570344	299	229	0.4	< 0.01	< 2	320	0.5	< 2	1.52	0.5	10	52	882	3.35	10	< 1	0.53	20	0.92	150	146
B570345	299	229	0.6	0.86	20	120	< 0.5	2	3.41	< 0.5	13	50	1025	2.31	< 10	< 1	0.42	20	0.94	235	123
B570346	299	229	0.4	1.25	16	60	0.5	2	1.96	< 0.5	12	59	899	3.31	10	< 1	0.53	10	0.90	205	176
B570347	299	229	0.8	1.62	28	170	0.5	< 2	2.03	< 0.5	14	67	1215	2.38	10	< 1	0.77	20	1.02	130	148
B570348	299	229	0.6	1.40	2	130	< 0.5	< 2	1.51	0.5	9	62	1050	2.34	10	< 1	0.76	20	0.93	120	140
B570349	299	229	0.4	1.26	8	120	< 0.5	< 2	0.84	< 0.5	8	88	898	2.74	10	< 1	0.65	10	0.90	115	175
B570350	299	229	0.4	0.90	12	80	< 0.5	< 2	1.33	< 0.5	8	64	713	3.16	< 10	< 1	0.49	< 10	0.59	95	168
B570351	299	229	0.6	0.55	2	80	< 0.5	4	1.82	0.5	7	117	1085	2.67	< 10	< 1	0.30	< 10	0.49	120	165

CERTIFICATION: Ivan Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :4
Certificate Date: 25-JUN-93
Invoice No. :I9315815
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315815

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A570312	299	229	0.02	10	440	12	4	6	29	0.06	< 10	< 10	44	10	70
A570313	299	229	0.02	9	380	10	2	4	23	0.05	< 10	< 10	40	< 10	86
A570314	299	229	0.02	10	430	10	6	3	24	0.02	< 10	< 10	30	10	60
A570315	299	229	0.02	8	540	10	2	3	20	0.03	< 10	< 10	32	< 10	64
A570316	299	229	0.02	11	570	10	2	4	19	0.04	< 10	< 10	36	10	54
A570317	299	229	0.02	8	340	6	4	3	14	0.03	< 10	< 10	30	< 10	40
A570318	299	229	0.02	7	340	6	4	3	18	0.02	< 10	< 10	31	10	38
A570319	299	229	0.02	9	350	6	4	3	17	0.02	< 10	< 10	34	< 10	32
A570320	299	229	0.02	11	530	12	4	4	19	0.04	< 10	< 10	44	10	40
A570321	299	229	0.02	9	560	6	2	4	20	0.07	< 10	< 10	36	10	34
A570322	299	229	0.01	7	310	6	6	3	27	0.02	< 10	< 10	28	10	26
A570323	299	229	0.01	12	470	8	8	2	31	0.01	< 10	< 10	27	10	80
A570324	299	229	0.01	7	420	4	6	3	30	0.03	< 10	< 10	35	10	30
A570325	299	229	0.01	10	580	4	8	3	36	0.02	< 10	< 10	40	10	50
A570326	299	229	0.01	11	540	4	6	4	39	0.02	< 10	< 10	41	10	62
A570327	299	229	0.01	9	390	4	6	4	26	0.03	< 10	< 10	39	10	32
A570328	299	229	0.01	8	530	2	6	4	44	0.03	< 10	< 10	36	10	24
A570329	299	229	0.01	13	770	8	6	6	23	< 0.01	< 10	< 10	34	10	52
A570330	299	229	0.01	9	510	8	14	4	19	< 0.01	< 10	10	29	< 10	46
A570331	299	229	0.01	5	230	2	4	3	31	0.03	< 10	< 10	24	< 10	28
A570332	299	229	0.01	9	530	< 2	10	4	52	0.06	< 10	< 10	39	10	38
A570333	299	229	0.01	10	370	8	6	5	35	0.05	< 10	< 10	45	10	88
A570334	299	229	0.02	11	510	2	6	5	33	0.07	< 10	< 10	46	10	38
A570335	299	229	0.02	12	490	4	4	5	38	0.08	< 10	< 10	44	10	36
A570336	299	229	0.01	10	480	< 2	4	4	43	0.02	< 10	< 10	33	10	38
A570337	299	229	0.02	9	400	4	6	5	31	0.06	< 10	< 10	48	10	38
A570338	299	229	0.02	8	240	4	4	4	25	0.04	< 10	< 10	60	10	26
A570339	299	229	0.02	13	790	2	6	4	32	0.04	< 10	< 10	39	10	32
A570340	299	229	0.01	10	450	6	6	4	32	0.03	< 10	< 10	34	10	30
A570341	299	229	0.01	12	630	6	6	4	33	0.05	< 10	< 10	42	10	30
A570342	299	229	0.01	15	600	10	8	4	41	0.05	< 10	< 10	50	20	28
A570343	299	229	0.01	14	820	4	2	4	46	0.07	< 10	< 10	42	20	28
A570344	299	229	0.02	11	580	6	4	4	73	0.03	< 10	< 10	38	10	28
A570345	299	229	0.01	8	690	10	6	5	32	0.03	< 10	< 10	32	10	24
A570346	299	229	0.01	11	410	4	4	6	27	0.05	< 10	< 10	43	10	24
A570347	299	229	0.01	10	500	4	4	6	48	0.07	< 10	< 10	47	10	18
A570348	299	229	0.01	9	420	4	6	5	48	0.07	< 10	< 10	45	10	16
A570349	299	229	0.03	9	490	< 2	6	4	40	0.07	< 10	< 10	45	< 10	20
A570350	299	229	0.01	9	350	6	4	3	26	0.03	< 10	< 10	28	< 10	16
A570351	299	229	0.01	7	320	2	6	3	20	0.01	< 10	< 10	24	< 10	14

CERTIFICATION: Ian Bichler

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Project : CASINO 161
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Certificate Date: 25-JUN-93
Invoice No. :I9315815
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CERTIFICATE OF ANALYSIS A9315815

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H570352	299	229	0.8	0.74	16	210	0.5	< 2	3.03	< 0.5	8	56	1295	2.52	< 10	< 1	0.16	20	0.61	260	219
H570353	299	229	2.2	0.51	16	230	< 0.5	2	2.48	1.0	7	55	1110	2.63	< 10	< 1	0.12	10	0.68	470	215
H570354	299	229	4.4	0.65	90	70	0.5	< 2	4.23	4.5	10	89	1365	4.75	< 10	1	0.16	< 10	1.28	1115	171
H570355	299	229	0.4	1.16	< 2	350	< 0.5	< 2	0.90	0.5	8	71	897	3.34	< 10	< 1	0.46	10	0.64	130	89
H570356	299	229	1.6	1.01	22	130	0.5	< 2	1.37	< 0.5	13	181	1390	2.98	< 10	1	0.44	10	0.44	230	170
H570357	299	229	1.0	1.28	< 2	120	< 0.5	4	1.65	< 0.5	9	189	1265	2.38	10	< 1	0.79	10	0.79	270	131
H570358	299	229	1.8	0.92	22	60	< 0.5	< 2	2.59	< 0.5	13	123	2430	2.25	< 10	1	0.39	10	0.69	225	245
H570359	299	229	1.4	1.93	< 2	200	0.5	< 2	1.19	0.5	18	98	2350	5.31	10	< 1	0.78	10	1.13	140	223
H570360	299	229	0.6	1.61	< 2	140	< 0.5	< 2	0.92	< 0.5	17	105	1120	5.02	10	< 1	0.70	30	1.13	130	67
H570361	299	229	0.6	1.71	< 2	230	0.5	< 2	1.42	0.5	14	96	1190	4.53	10	< 1	0.72	10	0.98	145	97
H570362	299	229	0.6	1.18	2	220	0.5	4	1.31	0.5	10	130	1065	3.00	< 10	< 1	0.39	10	0.54	165	85
H570363	299	229	5.2	1.17	102	120	0.5	< 2	1.43	7.5	13	95	1065	3.81	< 10	< 1	0.25	10	0.66	1410	89
H570364	299	229	1.2	0.75	20	60	< 0.5	26	0.94	0.5	13	159	1200	4.33	< 10	< 1	0.28	10	0.38	155	254
H570365	299	229	1.0	0.98	26	150	< 0.5	2	1.99	< 0.5	12	120	787	1.79	< 10	< 1	0.49	10	0.59	220	198
H570366	299	229	0.6	1.32	2	150	0.5	2	1.43	< 0.5	14	147	921	2.91	10	< 1	0.60	10	0.62	125	142
H570367	299	229	0.4	1.13	6	180	< 0.5	< 2	1.14	< 0.5	7	145	770	1.72	< 10	< 1	0.65	10	0.71	115	145
H570368	299	229	0.6	1.13	< 2	110	0.5	< 2	0.81	0.5	8	133	847	1.92	< 10	< 1	0.71	10	0.82	105	80
H570369	299	229	0.2	1.25	< 2	100	0.5	< 2	0.77	< 0.5	9	117	562	3.10	10	< 1	0.82	10	1.08	120	74
H570370	299	229	0.4	1.03	8	160	< 0.5	< 2	1.62	< 0.5	7	131	734	1.63	< 10	< 1	0.49	10	0.73	130	134
H570371	299	229	< 0.2	1.28	< 2	80	0.5	2	1.32	< 0.5	6	101	340	1.64	10	< 1	0.68	20	0.69	120	95
H570372	299	229	0.4	0.70	6	260	< 0.5	< 2	2.31	< 0.5	3	97	320	1.32	< 10	< 1	0.23	10	0.84	135	169
H570373	299	229	0.4	0.71	2	200	< 0.5	< 2	2.90	< 0.5	4	78	346	1.86	< 10	< 1	0.21	10	0.94	165	124
H570374	299	229	0.6	0.80	14	230	< 0.5	2	2.80	0.5	7	91	780	2.15	< 10	< 1	0.19	10	1.11	135	166
H570375	299	229	0.6	1.21	24	200	0.5	< 2	1.79	< 0.5	10	93	834	2.81	10	< 1	0.42	10	0.81	125	82
776	299	229	2.0	1.94	< 2	230	0.5	2	0.12	< 0.5	7	120	809	5.21	10	< 1	0.97	30	1.22	185	331
777	299	229	8.0	1.32	22	100	0.5	< 2	0.18	1.0	21	104	7330	4.63	10	< 1	0.63	20	0.71	215	464
778	299	229	1.4	1.01	56	130	< 0.5	< 2	0.76	0.5	23	124	1995	4.60	< 10	< 1	0.60	10	0.78	250	198
779	299	229	1.2	1.29	12	80	0.5	< 2	0.69	< 0.5	20	88	1735	4.63	10	< 1	0.66	10	0.95	200	169
780	299	229	4.4	1.02	20	120	0.5	< 2	2.45	1.0	17	119	7440	2.77	< 10	< 1	0.49	20	0.70	180	326
781	299	229	0.6	1.82	< 2	170	0.5	< 2	0.91	0.5	16	110	1065	4.54	10	< 1	0.83	30	1.23	135	81

CERTIFICATION: Ian Bucher

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Project : CASINO 161
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-B
Total Pages :4
Certificate Date: 25-JUN-93
Invoice No. :I9315815
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315815

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570352	299	229	< 0.01	9	490	< 2	8	4	32	< 0.01	< 10	< 10	31	10	30
H570353	299	229	0.01	8	310	22	10	4	25	< 0.01	< 10	< 10	25	10	52
H570354	299	229	0.01	10	350	46	40	3	26	< 0.01	< 10	< 10	23	20	140
H570355	299	229	0.01	10	300	6	20	4	20	0.03	< 10	< 10	35	10	20
H570356	299	229	0.01	11	250	16	12	3	18	0.01	< 10	< 10	28	10	16
H570357	299	229	0.02	10	230	12	4	3	23	0.04	< 10	< 10	36	10	16
H570358	299	229	0.01	10	300	< 2	6	5	22	0.01	< 10	< 10	36	10	18
H570359	299	229	0.01	15	290	6	6	6	39	0.06	< 10	< 10	79	20	26
H570360	299	229	0.03	16	560	4	2	5	28	0.06	< 10	< 10	63	10	22
H570361	299	229	0.02	15	540	4	2	6	40	0.06	< 10	< 10	51	10	20
H570362	299	229	0.01	14	430	2	8	4	23	0.02	< 10	< 10	31	10	20
H570363	299	229	0.01	12	530	52	40	3	24	< 0.01	< 10	< 10	34	10	338
H570364	299	229	0.01	11	220	8	20	3	19	< 0.01	< 10	< 10	18	< 10	16
H570365	299	229	0.01	10	410	10	10	4	26	0.02	< 10	< 10	26	< 10	22
H570366	299	229	0.02	10	410	6	4	2	44	0.02	< 10	< 10	26	< 10	16
H570367	299	229	0.01	7	180	6	4	3	40	0.02	< 10	< 10	26	< 10	12
H570368	299	229	0.03	11	280	12	< 2	3	27	0.04	< 10	< 10	26	< 10	14
H570369	299	229	0.03	9	540	< 2	2	4	27	0.06	< 10	< 10	39	10	16
H570370	299	229	0.02	9	340	< 2	2	4	33	0.03	< 10	< 10	29	< 10	14
H570371	299	229	0.02	9	290	< 2	4	4	29	0.04	< 10	< 10	35	< 10	20
H570372	299	229	0.02	7	270	2	4	2	42	< 0.01	< 10	< 10	18	< 10	10
H570373	299	229	0.01	9	360	4	4	6	43	< 0.01	< 10	< 10	32	< 10	12
H570374	299	229	0.02	7	270	6	4	4	39	< 0.01	< 10	< 10	26	10	18
H570375	299	229	0.02	11	390	< 2	6	5	48	0.02	< 10	< 10	40	10	22
776	299	229	0.04	12	430	20	4	9	19	0.10	< 10	< 10	76	< 10	136
777	299	229	0.01	14	450	22	6	4	9	0.04	< 10	< 10	46	< 10	148
778	299	229	0.01	14	370	12	10	6	17	0.05	< 10	< 10	58	10	58
779	299	229	0.03	12	480	< 2	4	4	21	0.03	< 10	< 10	44	10	34
780	299	229	0.01	13	380	8	8	4	34	0.02	< 10	< 10	32	10	26
781	299	229	0.04	16	590	4	2	6	31	0.08	< 10	< 10	62	10	24

CERTIFICATION: Ian Bichler

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Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :1
Total Pages :4
Certificate Date: 05-JUL-93
Invoice No. :I9316257
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572920	208	274	0.02	0.018	0.14	6720						
H572921	208	273	0.02	0.009	0.03	12800						
H572922	208	276	0.03	0.013	0.07	10600						
H572923	208	273	0.01	0.010	0.14	14220						
H572924	208	276	0.01	0.012	0.03	11540						
H572925	208	273	0.03	0.009	0.07	12420						
H572926	208	276	0.01	0.020	0.10	9180						
H572927	208	273	0.01	0.012	0.14	12080						
H572928	208	274	0.01	0.009	0.34	6700						
H572929	208	274	0.01	0.013	0.07	6500						
H572930	208	276	0.02	0.009	0.10	7500						
H572931	208	276	0.02	0.019	0.10	9540						
H572932	208	276	0.02	0.025	0.10	9140						
H572933	208	276	0.02	0.015	0.07	10840						
H572934	208	276	0.06	0.017	0.24	11620						
H572935	208	273	0.18	0.013	2.20	12700						
H572936	208	276	0.45	0.018	0.10	11160						
H572937	208	276	0.19	0.026	0.07	8060						
H572938	208	273	0.19	0.014	0.03	11840						
H572939	208	276	0.24	0.009	0.14	10640						
H572940	208	276	0.30	0.015	0.10	7760						
H572941	208	273	0.17	0.014	0.03	11940						
H572942	208	274	0.22	0.044	0.10	6740						
H572943	208	276	0.09	0.008	0.07	11060						
H572944	208	276	0.21	0.012	0.10	8940						
H572945	208	273	0.10	0.020	0.07	13980						
H572946	208	273	0.13	0.011	0.07	13620						
H572947	208	273	0.15	0.016	0.10	14320						
H572948	208	273	0.10	0.020	0.10	15820						
H572949	208	273	0.07	0.016	0.10	13560						
H572950	208	273	0.11	0.018	0.10	12620						
H572951	208	273	0.22	0.022	0.17	13240						
H572952	208	276	0.11	0.010	0.07	9640						
H572953	208	273	0.09	0.013	0.10	12800						
H572954	208	274	0.15	0.018	0.14	5060						
H572955	208	273	0.09	0.014	0.03	14440						
H572956	208	276	0.13	0.022	0.07	9340						
H572957	208	276	0.15	0.023	0.07	11740						
H572958	208	273	0.12	0.012	0.10	13060						
H572959	208	276	0.20	0.016	0.24	11140						

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Project : CASINO-162
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CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572960	208	273	0.22	0.026	0.49	13840						
H572961	208	273	0.12	0.017	0.34	12740						
H572962	208	276	0.16	0.018	0.14	9060						
H572963	208	270	0.28	0.019	0.17	17260						
H572964	208	273	0.20	0.014	0.17	13220						
H572965	208	276	0.17	0.026	0.10	9960						
H572966	208	276	0.13	0.020	0.10	10240						
H572967	208	276	0.13	0.019	0.14	11580						
H572968	208	273	0.15	0.041	0.10	12680						
H572969	208	270	0.10	0.019	0.07	17160						
H572970	208	273	0.10	0.024	0.14	13160						
H572971	208	273	0.07	0.012	0.03	12340						
H572972	208	276	0.05	0.003	0.10	11460						
H572973	208	273	0.15	0.016	0.10	13840						
H572974	208	273	0.09	0.012	0.07	13500						
H572975	208	273	0.05	0.009	0.03	14180						
H572976	208	273	0.04	0.009	0.07	15760						
H572977	208	276	0.02	0.009	< 0.03	8520						
H572978	208	273	0.04	0.011	< 0.03	15660						
H572979	208	273	0.02	0.009	0.03	12440						
H572980	208	276	0.02	0.006	< 0.03	9640						
H572981	208	276	0.02	0.004	< 0.03	10740						
H572982	208	276	0.02	0.006	< 0.03	11060						
H572983	208	273	0.02	0.006	< 0.03	13520						
H572984	208	273	0.03	0.006	< 0.03	12860						
H572985	208	273	0.04	0.009	0.03	13120						
H572986	208	276	0.06	0.012	0.07	7780						
H572987	208	276	0.08	0.030	0.07	11640						
H572988	208	273	0.01	0.006	0.03	11880						
H572989	208	276	0.07	0.031	0.07	10040						
H572990	208	276	0.03	0.007	< 0.03	11100						
H572991	208	273	0.09	0.033	0.07	13660						
H572992	208	273	0.09	0.076	0.03	13880						
H572993	208	273	0.07	0.032	0.07	13760						
H572994	208	270	0.13	0.061	0.14	17320						
H572995	208	273	0.14	0.060	0.14	12880						
H572996	208	274	0.22	0.039	0.27	5200						
H572997	208	273	0.14	0.040	0.24	13280						
H572998	208	274	0.15	0.056	0.51	7040						
H572999	208	273	0.15	0.061	0.24	12920						

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Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-JUL-93
Invoice No. :I9316257
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H573000	208 273	0.17	0.044	0.41	15680
H573001	208 270	0.16	0.036	0.58	18960
H573002	208 276	0.23	0.112	0.34	10780
H573003	208 273	0.87	0.107	0.89	15240
H573004	208 273	0.19	0.036	0.69	15280
H573005	208 273	0.14	0.051	0.17	14520
H573006	208 273	0.10	0.030	0.17	14500
H573007	208 273	0.14	0.063	0.24	12300
H573008	208 273	0.16	0.078	0.31	12180
H573009	208 273	0.31	0.104	0.34	13280
H573010	208 276	0.21	0.094	0.10	9740
H573011	208 273	0.32	0.086	0.10	16040
H573012	208 273	0.17	0.032	0.14	12500
H573013	208 274	0.16	0.036	0.24	5960
H573014	208 273	0.16	0.024	0.14	14140
H573015	208 273	0.14	0.030	0.14	12240
H573016	208 273	0.09	0.026	0.10	12180
H573017	208 273	0.11	0.042	0.17	11940
H573018	208 273	0.17	0.061	0.21	12180
H573019	208 273	0.09	0.022	0.14	11940
H573020	208 276	0.06	0.022	0.10	8020
H573021	208 273	0.09	0.028	0.07	12440
H573022	208 276	0.07	0.032	0.07	11120
H573023	208 274	0.04	0.016	0.10	5860
H573024	208 273	0.06	0.025	0.10	12760
H573025	208 276	0.12	0.043	0.07	11720
H573026	208 276	0.09	0.023	0.07	11480
H573027	208 273	0.09	0.022	0.10	12360
H573028	208 273	0.07	0.027	0.10	12580
H573029	208 273	0.07	0.024	0.14	12540
H573030	208 276	0.03	0.010	0.10	11280
H573031	208 273	0.05	0.015	0.07	12660
H573032	208 276	0.08	0.023	0.14	9460
H573033	208 276	0.07	0.021	0.10	10440
H573034	208 273	0.07	0.018	0.07	14860
H573035	208 273	0.05	0.020	0.07	13780
H573036	208 273	0.06	0.025	0.07	12600
H573037	208 276	0.05	0.040	0.10	10280
H573038	208 276	0.07	0.029	0.10	7280
H573039	208 273	0.06	0.020	0.14	12100

CERTIFICATION: D. Grant

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Certificate Date: 05-JUL-93
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Account : FC

CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H573040	208	276	0.06	0.021	< 0.03	11520
H573041	208	273	0.10	0.030	0.14	12120
H573042	208	273	0.08	0.030	0.07	12720
H573043	208	276	0.07	0.029	0.03	10940
H573044	208	276	0.06	0.028	0.03	11280
H573045	208	273	0.13	0.045	0.03	12380
H573046	208	273	0.08	0.030	0.03	12160
H573047	208	276	0.05	0.033	< 0.03	11660
H573048	208	273	0.06	0.025	0.07	12920
H573049	208	276	0.03	0.027	< 0.03	11760
H573050	208	273	0.08	0.029	0.07	12280
H573051	208	276	0.04	0.016	0.03	11320
H573052	208	276	0.15	0.030	0.14	10020
H573053	208	276	0.07	0.038	0.07	9380
H573054	208	276	0.16	0.037	0.10	8740
H573055	208	274	0.06	0.031	0.03	6820
H573056	208	276	0.06	0.032	0.07	10520
H573057	208	273	0.09	0.028	0.07	11860
H573058	208	273	0.09	0.029	0.03	13420
H573059	208	273	0.04	0.027	< 0.03	13820
H573060	208	276	0.10	0.037	0.03	7340
H573061	208	276	0.08	0.012	< 0.03	11260
H573062	208	273	0.03	0.012	0.07	14460
H573063	208	273	0.04	0.009	0.07	14340
H573064	208	273	0.03	0.006	< 0.03	13960
H573065	208	273	0.04	0.006	< 0.03	13920
H573066	208	273	0.04	0.006	< 0.03	13020
A826	208	274	0.20	0.027	0.10	4540
A827	208	274	0.14	0.024	0.17	4880
A828	208	274	0.02	0.009	< 0.03	5940
A829	208	274	0.15	0.035	0.21	6340
A830	208	274	0.13	0.044	0.10	6720
A831	208	274	0.05	0.043	< 0.03	4140
A832	208	274	0.07	0.024	< 0.03	3960

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Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page I. :1-A
Total Pa :4
Certificate Date: 05-JUL-93
Invoice No. :I9316258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572920	299	229	1.4	1.02	42	400	< 0.5	2	0.02	< 0.5	1	139	217	5.27	< 10	< 1	0.87	20	0.14	20	95
H572921	299	229	0.8	0.89	62	330	< 0.5	< 2	0.02	< 0.5	1	167	217	6.60	< 10	< 1	0.89	20	0.12	20	49
H572922	299	229	1.0	0.95	36	260	< 0.5	< 2	0.01	< 0.5	2	144	232	6.15	10	< 1	0.92	30	0.15	25	74
H572923	299	229	0.8	0.69	62	190	< 0.5	< 2	< 0.01	< 0.5	1	170	95	5.32	< 10	< 1	1.03	10	0.06	15	60
H572924	299	229	0.6	0.61	26	230	< 0.5	< 2	< 0.01	< 0.5	1	142	58	3.05	< 10	< 1	0.79	10	0.07	15	67
H572925	299	229	0.8	1.09	36	300	< 0.5	< 2	0.01	< 0.5	6	141	247	6.05	< 10	< 1	0.80	10	0.23	85	49
H572926	299	229	0.6	0.79	16	200	< 0.5	< 2	< 0.01	< 0.5	2	85	114	4.50	< 10	< 1	1.05	10	0.10	20	119
H572927	299	229	1.2	0.69	42	150	< 0.5	< 2	0.01	< 0.5	3	112	84	4.78	< 10	< 1	0.98	10	0.06	15	61
H572928	299	229	1.6	0.86	26	170	< 0.5	4	< 0.01	< 0.5	2	88	101	5.46	< 10	< 1	1.05	10	0.08	15	48
H572929	299	229	0.8	0.97	14	120	< 0.5	< 2	< 0.01	< 0.5	4	105	125	7.64	10	< 1	1.30	10	0.09	30	79
H572930	299	229	0.8	1.04	12	160	< 0.5	< 2	0.01	< 0.5	3	106	202	7.66	< 10	< 1	1.05	10	0.15	30	46
H572931	299	229	0.8	1.27	2	240	< 0.5	< 2	0.01	< 0.5	3	146	219	4.82	< 10	< 1	1.07	10	0.20	30	114
H572932	299	229	1.4	1.41	14	230	< 0.5	< 2	0.01	< 0.5	3	106	230	6.34	10	< 1	1.21	20	0.27	45	130
H572933	299	229	0.8	1.03	18	170	< 0.5	2	< 0.01	< 0.5	6	217	204	3.69	< 10	< 1	0.84	10	0.11	20	80
H572934	299	229	0.6	1.67	46	160	< 0.5	< 2	0.01	< 0.5	15	179	588	3.76	< 10	< 1	0.74	10	0.25	55	103
H572935	299	229	0.6	1.63	4	160	< 0.5	< 2	0.01	< 0.5	15	193	1780	4.26	< 10	< 1	0.75	10	0.38	65	71
H572936	299	229	0.8	1.56	20	50	< 0.5	< 2	0.06	< 0.5	42	144	4610	5.43	< 10	< 1	0.70	10	0.33	90	104
H572937	299	229	0.6	1.73	8	160	< 0.5	< 2	0.18	< 0.5	21	177	1885	4.72	10	< 1	0.89	10	0.83	210	155
H572938	299	229	0.4	1.57	12	130	< 0.5	< 2	0.13	0.5	25	120	1820	5.76	< 10	< 1	0.68	10	0.76	435	62
H572939	299	229	0.6	1.94	8	150	< 0.5	< 2	0.11	< 0.5	26	157	2410	5.61	10	< 1	0.82	10	0.93	225	48
H572940	299	229	1.2	1.84	12	60	0.5	< 2	0.07	< 0.5	34	101	3030	5.01	< 10	< 1	0.65	10	0.43	275	88
H572941	299	229	1.2	1.45	4	90	< 0.5	< 2	0.13	1.0	35	123	1690	5.86	< 10	< 1	0.69	10	0.61	405	76
H572942	299	229	1.2	1.62	8	80	< 0.5	< 2	0.16	1.0	40	86	2300	6.56	< 10	< 1	0.78	20	0.70	445	266
H572943	299	229	0.8	1.84	12	90	< 0.5	< 2	0.16	< 0.5	35	107	856	6.56	10	< 1	0.76	10	1.08	335	37
H572944	299	229	0.8	1.99	12	110	< 0.5	< 2	0.11	0.5	28	93	2310	6.77	10	< 1	0.77	10	0.95	220	57
H572945	299	229	0.8	1.76	2	130	< 0.5	< 2	0.13	< 0.5	24	132	1020	7.83	10	< 1	0.79	10	0.98	235	116
H572946	299	229	0.6	1.78	18	140	< 0.5	< 2	0.15	< 0.5	25	104	1220	6.21	10	< 1	0.74	10	0.87	250	62
H572947	299	229	1.4	1.86	16	130	< 0.5	< 2	0.16	< 0.5	28	141	1560	6.43	10	< 1	0.80	10	0.98	200	93
H572948	299	229	0.6	1.62	12	90	< 0.5	< 2	0.13	0.5	24	94	988	7.85	10	< 1	0.69	10	1.01	315	121
H572949	299	229	0.4	1.77	4	90	< 0.5	< 2	0.17	0.5	21	99	671	6.85	10	< 1	0.72	10	1.10	320	90
H572950	299	229	0.8	1.23	14	50	< 0.5	< 2	0.38	< 0.5	38	79	1090	6.97	< 10	< 1	0.57	10	0.76	505	106
H572951	299	229	1.4	0.99	26	60	< 0.5	< 2	0.19	0.5	31	75	2140	7.64	< 10	< 1	0.41	10	0.53	675	131
H572952	299	229	0.6	1.42	6	90	< 0.5	< 2	0.34	0.5	28	71	1125	6.09	< 10	< 1	0.58	10	0.61	525	51
H572953	299	229	0.8	1.52	8	130	< 0.5	< 2	0.61	< 0.5	25	94	883	5.75	10	< 1	0.60	20	0.81	550	74
H572954	299	229	1.2	1.44	26	90	< 0.5	< 2	0.46	0.5	31	60	1580	5.75	< 10	< 1	0.38	10	0.51	1130	109
H572955	299	229	0.8	1.94	6	100	< 0.5	< 2	0.50	< 0.5	19	102	916	6.61	10	< 1	0.70	20	0.96	380	80
H572956	299	229	1.8	1.30	14	70	< 0.5	< 2	0.53	< 0.5	31	71	1380	6.18	< 10	< 1	0.54	20	0.59	500	123
H572957	299	229	1.2	1.40	6	80	< 0.5	< 2	0.42	< 0.5	32	88	1510	6.02	10	< 1	0.63	20	0.77	350	126
H572958	299	229	1.4	1.08	12	80	< 0.5	< 2	0.51	< 0.5	24	83	1335	5.32	< 10	< 1	0.52	20	0.81	285	72
H572959	299	229	3.4	0.81	< 2	90	< 0.5	< 2	0.65	< 0.5	28	119	2040	5.50	< 10	< 1	0.33	20	0.48	175	86

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-JUL-93
Invoice No. :I9316258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572920	299	229	0.02	3	810	28	< 2	1	30	0.01	< 10	< 10	17	< 10	18
H572921	299	229	0.03	4	1220	28	2	1	43	0.02	< 10	< 10	24	< 10	20
H572922	299	229	0.03	3	2810	48	< 2	2	48	0.01	< 10	< 10	19	< 10	24
H572923	299	229	0.04	2	650	22	< 2	1	27	< 0.01	< 10	< 10	12	< 10	14
H572924	299	229	0.02	3	490	12	< 2	2	22	0.01	< 10	< 10	14	< 10	16
H572925	299	229	0.03	6	860	16	< 2	6	47	0.01	< 10	< 10	50	< 10	68
H572926	299	229	0.03	2	890	12	< 2	3	27	0.01	< 10	< 10	18	< 10	26
H572927	299	229	0.03	2	660	14	4	1	35	< 0.01	< 10	< 10	12	< 10	18
H572928	299	229	0.04	1	520	20	< 2	1	17	< 0.01	< 10	< 10	16	< 10	24
H572929	299	229	0.04	3	610	12	< 2	3	20	0.02	< 10	< 10	31	< 10	40
H572930	299	229	0.03	5	600	22	< 2	3	25	0.01	< 10	< 10	38	< 10	42
H572931	299	229	0.03	4	640	8	< 2	2	21	0.02	10	< 10	26	< 10	32
H572932	299	229	0.03	6	540	12	< 2	3	23	0.03	10	< 10	37	< 10	42
H572933	299	229	0.03	4	320	8	< 2	1	20	< 0.01	< 10	< 10	15	< 10	18
H572934	299	229	0.03	11	380	8	< 2	3	13	0.01	< 10	< 10	35	< 10	32
H572935	299	229	0.04	10	310	8	< 2	2	14	0.02	< 10	< 10	28	< 10	42
H572936	299	229	0.02	19	260	8	< 2	2	8	0.02	< 10	< 10	23	< 10	52
H572937	299	229	0.02	14	790	12	< 2	4	10	0.05	< 10	< 10	40	< 10	52
H572938	299	229	0.02	14	460	10	< 2	3	10	0.04	< 10	< 10	33	< 10	64
H572939	299	229	0.03	15	460	8	< 2	3	9	0.05	< 10	< 10	42	< 10	58
H572940	299	229	0.01	23	300	12	< 2	2	8	0.02	< 10	< 10	23	< 10	78
H572941	299	229	0.01	16	430	8	< 2	2	8	0.02	< 10	< 10	23	< 10	76
H572942	299	229	0.02	14	550	10	< 2	4	9	0.02	10	< 10	36	< 10	86
H572943	299	229	0.03	15	550	8	< 2	4	7	0.04	< 10	< 10	43	< 10	60
H572944	299	229	0.03	16	470	14	< 2	3	7	0.04	< 10	< 10	46	< 10	60
H572945	299	229	0.03	15	460	6	< 2	3	8	0.05	< 10	< 10	49	< 10	48
H572946	299	229	0.03	14	600	10	< 2	2	8	0.04	< 10	< 10	30	< 10	48
H572947	299	229	0.03	16	710	12	2	6	9	0.06	< 10	< 10	55	< 10	46
H572948	299	229	0.03	12	430	14	< 2	3	8	0.05	< 10	< 10	34	< 10	64
H572949	299	229	0.03	11	560	14	< 2	3	8	0.04	< 10	< 10	27	< 10	60
H572950	299	229	0.02	12	940	12	< 2	2	12	0.02	< 10	< 10	18	< 10	56
H572951	299	229	0.01	17	590	16	< 2	2	8	0.01	< 10	< 10	20	< 10	76
H572952	299	229	0.01	13	540	14	< 2	2	11	0.02	< 10	< 10	19	< 10	80
H572953	299	229	0.01	13	530	20	2	3	18	0.02	10	< 10	25	< 10	56
H572954	299	229	0.01	17	710	12	2	3	18	< 0.01	10	< 10	30	< 10	98
H572955	299	229	0.02	14	760	10	< 2	4	23	0.04	< 10	< 10	35	< 10	56
H572956	299	229	0.01	14	460	12	< 2	3	14	0.02	< 10	< 10	25	< 10	64
H572957	299	229	0.02	14	410	10	< 2	3	16	0.04	< 10	< 10	27	< 10	64
H572958	299	229	0.02	13	550	6	< 2	3	16	0.03	< 10	< 10	33	< 10	40
H572959	299	229	0.02	14	460	14	< 2	2	19	< 0.01	< 10	< 10	36	< 10	28

CERTIFICATION: Ian Bichler

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Page [illegible] :2-A
Total Pa[illegible] :4
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Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572960	299	229	2.0	0.91	< 2	40	< 0.5	< 2	0.62	< 0.5	29	90	2260	5.62	< 10	< 1	0.40	20	0.49	145	135
H572961	299	229	1.4	1.41	4	40	< 0.5	< 2	0.95	< 0.5	57	74	1190	6.09	10	< 1	0.50	20	0.74	175	93
H572962	299	229	1.4	1.34	10	100	< 0.5	< 2	0.89	< 0.5	17	104	1505	5.51	10	< 1	0.53	20	0.97	275	96
H572963	299	229	2.4	1.20	10	80	< 0.5	< 2	0.79	< 0.5	21	73	2750	5.92	10	< 1	0.59	20	0.88	310	104
H572964	299	229	1.8	1.10	< 2	80	< 0.5	< 2	0.66	< 0.5	21	100	2000	6.08	10	< 1	0.62	10	0.89	190	78
H572965	299	229	1.4	1.27	2	130	< 0.5	< 2	0.58	< 0.5	20	67	1695	5.85	10	< 1	0.72	20	0.97	205	146
H572966	299	229	1.4	1.50	10	130	< 0.5	< 2	0.82	< 0.5	19	78	1270	5.39	10	< 1	0.66	20	0.97	270	85
H572967	299	229	1.6	1.15	8	50	< 0.5	< 2	0.76	< 0.5	22	84	1270	5.47	< 10	< 1	0.52	10	0.70	235	100
H572968	299	229	1.4	1.80	4	80	< 0.5	< 2	1.02	< 0.5	18	104	1395	5.24	10	< 1	0.74	20	1.10	210	226
H572969	299	229	1.0	1.25	8	60	< 0.5	< 2	1.07	< 0.5	18	94	1030	5.38	10	< 1	0.61	20	0.94	205	102
H572970	299	229	1.0	0.80	8	40	< 0.5	< 2	0.94	< 0.5	19	63	979	5.75	< 10	< 1	0.42	20	0.89	190	131
H572971	299	229	0.6	0.80	6	80	< 0.5	< 2	1.58	< 0.5	10	53	670	3.17	< 10	< 1	0.41	20	0.67	180	66
H572972	299	229	4.2	1.00	68	150	0.5	4	1.91	3.5	7	56	436	2.22	< 10	< 1	0.44	20	0.51	445	9
H572973	299	229	1.6	0.87	84	40	< 0.5	10	1.17	0.5	13	77	1420	4.86	< 10	< 1	0.45	20	0.65	475	88
H572974	299	229	0.8	1.05	12	90	< 0.5	6	1.67	< 0.5	8	59	842	2.84	< 10	< 1	0.42	20	0.65	255	65
H572975	299	229	0.4	1.06	10	80	< 0.5	2	1.79	< 0.5	9	71	488	2.52	< 10	< 1	0.50	20	0.58	195	51
H572976	299	229	0.2	1.74	6	140	0.5	2	1.97	< 0.5	7	93	366	2.03	< 10	< 1	0.74	20	0.61	180	55
H572977	299	229	0.2	2.24	12	170	0.5	2	1.92	< 0.5	7	60	149	1.83	< 10	< 1	0.79	20	0.60	220	52
H572978	299	229	0.4	1.33	12	140	0.5	2	2.00	< 0.5	7	76	323	1.93	< 10	< 1	0.49	20	0.63	175	46
H572979	299	229	0.2	1.53	4	140	0.5	2	1.69	< 0.5	4	70	186	1.94	10	< 1	0.38	30	0.57	145	46
H572980	299	229	0.4	1.15	< 2	50	< 0.5	< 2	1.19	1.0	8	45	163	2.28	10	< 1	0.20	30	0.69	150	37
H572981	299	229	0.2	1.26	4	30	< 0.5	< 2	1.43	< 0.5	8	53	200	2.35	10	< 1	0.20	30	0.69	140	24
H572982	299	229	0.2	1.13	< 2	50	< 0.5	2	1.66	< 0.5	8	45	176	2.34	10	< 1	0.26	30	0.57	100	26
H572983	299	229	0.2	1.18	< 2	70	0.5	< 2	2.34	< 0.5	4	46	217	1.82	10	< 1	0.20	30	0.59	140	31
H572984	299	229	0.2	0.90	8	20	0.5	< 2	1.37	< 0.5	7	24	301	1.92	< 10	< 1	0.13	30	0.41	165	29
H572985	299	229	0.4	1.12	22	70	0.5	< 2	1.89	< 0.5	10	47	407	2.29	< 10	< 1	0.34	20	0.66	230	49
H572986	299	229	0.4	1.26	2	70	< 0.5	2	1.40	< 0.5	13	56	577	2.72	10	< 1	0.44	30	0.70	135	67
H572987	299	229	0.6	1.62	< 2	70	< 0.5	< 2	1.13	< 0.5	25	92	782	3.70	10	< 1	0.65	30	1.01	150	174
H572988	299	229	< 0.2	1.34	2	70	< 0.5	< 2	1.44	< 0.5	6	71	112	2.37	10	< 1	0.26	30	0.59	140	18
H572989	299	229	0.6	1.30	< 2	50	< 0.5	2	1.20	< 0.5	10	72	659	2.68	10	< 1	0.43	30	0.68	130	170
H572990	299	229	0.4	1.35	< 2	60	< 0.5	< 2	0.79	< 0.5	8	66	312	2.41	10	< 1	0.41	20	0.79	140	37
H572991	299	229	0.6	1.94	8	100	< 0.5	< 2	0.75	< 0.5	15	106	911	4.71	10	< 1	0.92	20	1.32	165	196
H572992	299	229	0.6	1.54	4	80	< 0.5	< 2	0.74	< 0.5	16	131	817	3.60	10	< 1	0.68	30	0.99	125	440
H572993	299	229	0.6	1.74	< 2	100	< 0.5	< 2	0.73	< 0.5	11	76	608	3.57	10	< 1	0.74	20	1.06	150	179
H572994	299	229	1.2	1.39	< 2	90	< 0.5	< 2	0.68	< 0.5	20	122	1155	5.28	10	< 1	0.58	20	0.88	130	304
H572995	299	229	1.2	1.51	6	90	< 0.5	< 2	0.63	< 0.5	25	85	1300	4.80	10	< 1	0.83	20	1.19	165	312
H572996	299	229	1.6	1.42	< 2	70	< 0.5	2	0.84	< 0.5	22	106	2040	5.00	10	< 1	0.64	20	0.82	130	194
H572997	299	229	1.0	1.25	4	100	< 0.5	< 2	1.41	< 0.5	15	117	1330	4.13	10	< 1	0.69	20	0.93	175	210
H572998	299	229	9.4	1.11	138	70	< 0.5	4	1.36	0.5	19	129	1385	5.26	< 10	< 1	0.58	10	0.92	825	281
H572999	299	229	1.2	1.28	24	110	0.5	< 2	0.97	< 0.5	24	115	1430	4.90	10	< 1	0.74	20	0.87	300	340

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572960	299	229	0.03	12	520	6	< 2	2	21	< 0.01	< 10	< 10	41	< 10	28
H572961	299	229	0.01	13	660	6	< 2	3	19	0.02	< 10	< 10	23	< 10	28
H572962	299	229	0.03	12	500	8	< 2	4	22	0.03	< 10	< 10	40	< 10	32
H572963	299	229	0.02	13	760	12	< 2	4	19	0.04	< 10	< 10	40	< 10	46
H572964	299	229	0.06	12	530	16	< 2	5	20	0.06	< 10	< 10	57	< 10	34
H572965	299	229	0.04	12	530	12	< 2	5	18	0.07	< 10	< 10	55	< 10	36
H572966	299	229	0.02	13	520	6	2	4	25	0.05	< 10	< 10	39	< 10	38
H572967	299	229	0.01	13	410	8	< 2	4	17	0.03	< 10	< 10	34	< 10	32
H572968	299	229	0.01	10	480	10	2	6	21	0.06	< 10	< 10	45	< 10	36
H572969	299	229	0.03	11	500	10	< 2	3	26	0.03	< 10	< 10	33	< 10	32
H572970	299	229	0.01	12	510	6	< 2	4	21	0.03	< 10	< 10	35	< 10	32
H572971	299	229	0.04	6	640	6	< 2	2	37	< 0.01	< 10	< 10	16	< 10	20
H572972	299	229	0.04	3	680	52	16	1	45	< 0.01	< 10	< 10	12	< 10	122
H572973	299	229	0.01	9	530	16	4	2	25	< 0.01	< 10	< 10	17	< 10	54
H572974	299	229	0.01	5	630	10	2	1	32	< 0.01	< 10	< 10	10	< 10	32
H572975	299	229	0.01	4	590	6	2	1	33	< 0.01	< 10	< 10	10	< 10	18
H572976	299	229	0.02	3	570	4	< 2	1	33	< 0.01	< 10	< 10	11	< 10	16
H572977	299	229	0.02	2	610	4	< 2	1	31	< 0.01	< 10	< 10	12	< 10	12
H572978	299	229	0.02	5	620	4	2	1	37	< 0.01	10	< 10	10	< 10	12
H572979	299	229	0.13	4	700	8	< 2	2	66	< 0.01	10	< 10	23	< 10	24
H572980	299	229	0.08	5	720	66	< 2	3	41	0.01	10	< 10	27	< 10	244
H572981	299	229	0.08	5	740	12	< 2	2	43	< 0.01	< 10	< 10	23	< 10	24
H572982	299	229	0.07	3	660	6	< 2	2	40	< 0.01	10	< 10	16	< 10	14
H572983	299	229	0.06	3	670	10	< 2	2	51	< 0.01	< 10	< 10	19	< 10	18
H572984	299	229	0.01	3	680	14	2	2	26	< 0.01	10	< 10	12	< 10	14
H572985	299	229	0.01	3	660	6	2	1	27	< 0.01	10	< 10	9	< 10	16
H572986	299	229	0.07	6	730	10	< 2	3	32	0.01	10	< 10	26	< 10	16
H572987	299	229	0.07	10	750	6	< 2	3	28	0.04	10	< 10	39	< 10	22
H572988	299	229	0.10	2	700	8	< 2	3	51	0.01	10	< 10	26	< 10	16
H572989	299	229	0.07	8	670	6	< 2	3	34	0.02	10	< 10	31	< 10	20
H572990	299	229	0.09	4	700	6	< 2	3	33	0.04	< 10	< 10	32	< 10	22
H572991	299	229	0.07	10	640	10	< 2	7	25	0.09	< 10	< 10	60	< 10	28
H572992	299	229	0.07	10	450	8	< 2	4	26	0.06	10	< 10	38	< 10	22
H572993	299	229	0.09	9	740	6	< 2	5	34	0.08	10	< 10	49	< 10	24
H572994	299	229	0.04	11	620	8	< 2	4	20	0.04	10	< 10	48	< 10	24
H572995	299	229	0.04	11	680	6	< 2	5	19	0.07	10	< 10	49	< 10	28
H572996	299	229	0.04	11	330	8	< 2	3	26	0.02	< 10	< 10	37	10	26
H572997	299	229	0.03	10	630	6	2	3	24	0.04	< 10	< 10	36	< 10	22
H572998	299	229	0.02	13	530	24	22	3	22	0.01	< 10	< 10	27	< 10	44
H572999	299	229	0.03	12	660	6	2	3	24	0.04	< 10	< 10	34	< 10	26

CERTIFICATION: Ivan Bichler

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WHITEHORSE, YT
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Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : :3-A
Total Pages :4
Certificate Date: 05-JUL-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H573000	299	229	7.4	1.23	172	60	< 0.5	8	1.22	7.5	22	129	1655	5.29	10	< 1	0.66	20	0.91	815	262
H573001	299	229	8.0	0.85	258	40	< 0.5	< 2	1.51	33.0	22	137	1580	5.28	< 10	< 1	0.44	10	0.74	2960	203
H573002	299	229	1.8	1.43	12	110	< 0.5	< 2	0.89	0.5	29	159	2200	6.85	10	< 1	0.72	30	1.03	285	650
H573003	299	229	5.4	1.73	2	30	< 0.5	< 2	1.33	0.5	30	116	9320	8.17	10	< 1	0.85	40	1.26	175	602
H573004	299	229	1.8	1.61	4	120	< 0.5	< 2	0.93	< 0.5	17	130	1880	4.60	10	< 1	0.84	30	1.14	190	205
H573005	299	229	1.2	0.97	4	70	< 0.5	< 2	1.28	< 0.5	21	43	1330	4.26	< 10	< 1	0.55	20	0.95	170	280
H573006	299	229	1.0	1.41	4	90	< 0.5	< 2	1.33	< 0.5	13	119	959	3.14	< 10	< 1	0.68	20	0.97	145	156
H573007	299	229	1.2	1.49	4	130	< 0.5	< 2	1.15	< 0.5	14	130	1310	3.85	< 10	< 1	0.74	20	0.92	230	358
H573008	299	229	1.8	1.14	6	120	< 0.5	< 2	1.74	1.5	16	107	1475	3.51	< 10	< 1	0.54	20	1.00	655	450
H573009	299	229	2.6	0.74	6	80	< 0.5	< 2	0.90	< 0.5	18	99	3190	3.97	< 10	< 1	0.36	10	0.58	125	635
H573010	299	229	1.8	1.05	16	40	< 0.5	4	0.74	< 0.5	35	227	2170	5.63	< 10	< 1	0.58	10	0.57	85	566
H573011	299	229	2.4	0.75	< 2	60	< 0.5	< 2	0.71	< 0.5	26	39	3250	4.72	< 10	< 1	0.45	10	0.92	145	492
H573012	299	229	2.4	1.15	14	60	< 0.5	2	0.90	< 0.5	22	138	1730	4.97	< 10	< 1	0.72	20	0.97	235	173
H573013	299	229	1.0	1.84	< 2	90	< 0.5	< 2	0.88	< 0.5	16	78	1505	5.30	10	< 1	0.95	20	1.55	245	191
H573014	299	229	1.2	1.46	4	90	< 0.5	< 2	0.91	< 0.5	18	125	1625	5.24	10	< 1	0.72	10	1.24	145	131
H573015	299	229	1.2	1.48	< 2	70	< 0.5	< 2	1.10	< 0.5	19	129	1440	4.59	10	< 1	0.72	20	1.28	155	177
H573016	299	229	1.2	0.87	16	110	< 0.5	< 2	1.45	< 0.5	14	118	946	3.11	< 10	< 1	0.44	20	0.84	290	152
H573017	299	229	0.8	0.88	8	90	< 0.5	< 2	0.97	< 0.5	17	132	1105	3.67	< 10	< 1	0.45	10	0.69	130	249
H573018	299	229	1.4	0.66	< 2	60	< 0.5	2	0.93	< 0.5	24	80	1765	4.51	< 10	< 1	0.35	20	0.58	130	345
H573019	299	229	0.6	1.25	4	70	< 0.5	< 2	0.78	< 0.5	14	75	844	3.34	10	< 1	0.60	20	1.13	155	118
H573020	299	229	0.6	1.04	< 2	90	< 0.5	< 2	0.65	< 0.5	15	108	610	3.50	< 10	< 1	0.57	20	0.98	205	126
H573021	299	229	0.6	0.56	6	50	< 0.5	< 2	1.26	< 0.5	16	42	821	3.91	< 10	< 1	0.27	10	0.77	260	161
H573022	299	229	0.6	0.61	12	40	< 0.5	4	1.38	< 0.5	10	86	695	2.69	< 10	< 1	0.29	10	0.61	460	156
H573023	299	229	0.2	1.14	6	250	0.5	< 2	1.53	< 0.5	15	116	342	1.95	< 10	< 1	0.52	30	0.75	245	86
H573024	299	229	0.4	0.97	12	70	< 0.5	< 2	1.67	< 0.5	35	90	579	3.62	< 10	< 1	0.44	20	0.89	240	141
H573025	299	229	1.2	0.98	18	60	< 0.5	4	1.74	< 0.5	20	120	1135	3.95	< 10	< 1	0.44	10	0.78	515	237
H573026	299	229	0.4	0.92	4	100	< 0.5	< 2	1.61	< 0.5	17	68	868	3.00	< 10	< 1	0.46	20	0.87	235	143
H573027	299	229	0.6	0.60	2	100	< 0.5	< 2	2.12	< 0.5	15	58	869	2.67	< 10	< 1	0.24	10	0.58	220	111
H573028	299	229	0.6	1.36	12	160	< 0.5	2	1.82	< 0.5	12	106	724	2.82	< 10	< 1	0.61	20	0.90	225	143
H573029	299	229	0.4	1.01	4	200	< 0.5	< 2	1.47	< 0.5	10	99	634	2.34	< 10	< 1	0.44	20	0.76	175	129
H573030	299	229	0.2	1.07	16	70	< 0.5	< 2	1.64	< 0.5	10	103	360	2.42	< 10	< 1	0.41	20	0.83	230	58
H573031	299	229	0.4	0.57	8	20	< 0.5	< 2	1.58	< 0.5	9	69	494	2.19	< 10	< 1	0.16	10	0.68	260	82
H573032	299	229	1.8	1.05	50	30	< 0.5	< 2	2.39	< 0.5	11	96	805	3.63	< 10	< 1	0.28	10	0.92	715	124
H573033	299	229	0.8	1.59	16	70	< 0.5	< 2	1.69	< 0.5	13	93	724	3.89	10	< 1	0.64	20	1.27	370	121
H573034	299	229	0.6	1.38	8	150	< 0.5	< 2	1.32	< 0.5	12	100	738	3.17	< 10	< 1	0.60	20	1.05	155	93
H573035	299	229	0.4	1.11	< 2	110	< 0.5	< 2	1.51	< 0.5	10	111	505	2.91	< 10	< 1	0.44	30	0.92	155	112
H573036	299	229	0.4	1.07	6	70	< 0.5	< 2	1.31	< 0.5	14	101	637	3.66	< 10	< 1	0.43	20	0.87	150	137
H573037	299	229	0.2	1.67	2	80	< 0.5	< 2	1.70	< 0.5	13	105	495	4.32	10	< 1	0.67	30	1.23	190	219
H573038	299	229	1.6	1.08	30	70	< 0.5	< 2	1.19	< 0.5	14	118	671	4.74	10	< 1	0.51	20	0.98	340	160
H573039	299	229	0.6	1.27	6	90	< 0.5	< 2	1.03	< 0.5	11	76	639	3.28	10	< 1	0.62	20	1.14	140	125

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H573000	299	229	0.02	14	550	64	40	4	27	0.02	< 10	< 10	29	< 10	316
H573001	299	229	0.01	14	540	604	36	2	19	< 0.01	< 10	< 10	21	< 10	1470
H573002	299	229	0.05	16	420	14	2	4	24	0.04	10	< 10	45	< 10	52
H573003	299	229	0.02	16	600	14	2	4	26	0.05	10	< 10	44	70	60
H573004	299	229	0.03	12	520	12	2	4	26	0.06	10	< 10	43	< 10	38
H573005	299	229	0.02	14	750	20	< 2	3	19	0.05	10	< 10	31	< 10	36
H573006	299	229	0.05	13	550	10	< 2	3	28	0.04	< 10	< 10	28	< 10	20
H573007	299	229	0.04	13	550	8	2	2	32	0.02	10	< 10	22	10	26
H573008	299	229	0.02	11	660	36	2	2	44	0.01	10	< 10	16	< 10	104
H573009	299	229	0.02	14	530	6	4	3	24	< 0.01	< 10	< 10	29	< 10	28
H573010	299	229	0.02	17	460	6	< 2	2	20	0.01	< 10	< 10	16	< 10	22
H573011	299	229	0.01	15	440	8	< 2	3	18	0.03	< 10	< 10	25	< 10	30
H573012	299	229	0.03	13	380	22	< 2	5	28	0.03	< 10	< 10	37	< 10	30
H573013	299	229	0.03	11	520	8	< 2	7	24	0.08	10	< 10	57	< 10	32
H573014	299	229	0.03	15	480	8	< 2	5	62	0.05	< 10	< 10	58	< 10	28
H573015	299	229	0.03	14	490	8	2	4	25	0.06	< 10	< 10	50	< 10	26
H573016	299	229	0.03	13	500	16	2	2	50	0.01	< 10	< 10	19	< 10	30
H573017	299	229	0.03	13	470	6	< 2	1	30	< 0.01	< 10	< 10	17	< 10	22
H573018	299	229	0.02	14	410	10	2	2	19	< 0.01	10	< 10	33	< 10	22
H573019	299	229	0.02	11	600	10	< 2	3	17	0.06	< 10	< 10	35	< 10	22
H573020	299	229	0.03	13	480	8	< 2	4	21	0.04	10	< 10	44	< 10	26
H573021	299	229	0.01	13	490	8	2	2	28	0.01	< 10	< 10	19	< 10	22
H573022	299	229	0.01	8	440	8	4	1	19	< 0.01	< 10	< 10	9	< 10	16
H573023	299	229	0.02	7	520	8	2	2	73	0.02	10	< 10	19	< 10	20
H573024	299	229	0.01	10	460	4	< 2	2	41	0.01	< 10	< 10	17	< 10	20
H573025	299	229	0.01	15	480	8	4	1	45	< 0.01	< 10	< 10	12	< 10	24
H573026	299	229	0.02	13	650	8	2	3	32	0.02	< 10	< 10	23	< 10	22
H573027	299	229	0.01	11	700	4	2	2	37	< 0.01	< 10	< 10	11	< 10	12
H573028	299	229	0.03	13	770	10	2	3	68	0.03	10	< 10	27	< 10	20
H573029	299	229	0.02	12	560	6	2	2	131	0.01	< 10	< 10	26	< 10	16
H573030	299	229	0.02	9	650	4	2	3	38	0.01	< 10	< 10	24	< 10	18
H573031	299	229	0.01	8	620	6	4	1	20	< 0.01	< 10	< 10	18	< 10	14
H573032	299	229	0.01	13	590	34	10	3	25	< 0.01	< 10	< 10	24	< 10	38
H573033	299	229	0.01	13	630	8	8	5	34	0.05	< 10	< 10	35	< 10	28
H573034	299	229	0.03	12	650	12	6	3	46	0.04	< 10	< 10	34	< 10	22
H573035	299	229	0.02	11	540	10	4	3	41	0.02	10	< 10	33	< 10	20
H573036	299	229	0.02	12	520	10	2	3	35	0.02	< 10	< 10	32	< 10	20
H573037	299	229	0.01	13	630	8	4	7	63	0.05	10	< 10	44	< 10	22
H573038	299	229	0.02	11	500	16	10	5	33	0.04	< 10	< 10	42	< 10	32
H573039	299	229	0.02	13	670	12	< 2	6	32	0.08	< 10	< 10	55	< 10	20

CERTIFICATION: Stewart Bichler

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H573040	299	229	0.6	1.09	4	40	< 0.5	< 2	1.11	< 0.5	18	148	619	5.90	10	< 1	0.39	10	0.82	120	112
H573041	299	229	0.8	1.16	2	70	< 0.5	< 2	1.20	< 0.5	17	140	966	4.39	10	< 1	0.56	20	0.90	130	164
H573042	299	229	0.8	1.48	4	80	< 0.5	< 2	1.21	< 0.5	13	210	750	4.95	10	< 1	0.64	20	0.97	130	169
H573043	299	229	0.6	1.42	28	110	< 0.5	< 2	1.32	< 0.5	13	168	678	3.90	10	< 1	0.42	20	0.85	230	175
H573044	299	229	0.6	0.69	16	10	< 0.5	< 2	1.05	< 0.5	13	147	591	3.18	< 10	< 1	0.14	10	0.38	315	171
H573045	299	229	1.2	0.34	16	10	< 0.5	2	2.13	< 0.5	14	61	1270	4.42	< 10	< 1	0.13	20	0.64	270	275
H573046	299	229	1.0	0.43	24	10	< 0.5	2	2.83	< 0.5	10	79	711	4.52	< 10	< 1	0.14	10	0.83	410	160
H573047	299	229	0.6	1.20	4	50	< 0.5	< 2	1.30	< 0.5	13	108	466	3.85	10	< 1	0.45	20	0.79	180	199
H573048	299	229	0.6	1.15	6	110	< 0.5	< 2	1.28	< 0.5	11	94	543	5.64	10	< 1	0.40	10	0.78	120	138
H573049	299	229	0.4	1.34	6	140	< 0.5	< 2	1.54	< 0.5	7	97	316	4.04	10	< 1	0.64	20	1.02	130	153
H573050	299	229	0.8	0.90	< 2	50	< 0.5	< 2	1.33	< 0.5	15	76	763	4.89	10	< 1	0.35	10	0.76	100	164
H573051	299	229	0.4	1.00	< 2	50	< 0.5	< 2	1.28	< 0.5	10	131	412	9.28	10	< 1	0.39	10	0.69	155	85
H573052	299	229	1.6	1.26	8	70	< 0.5	< 2	1.18	< 0.5	17	87	1505	3.77	10	< 1	0.65	20	1.06	120	152
H573053	299	229	0.8	1.54	< 2	90	< 0.5	< 2	0.78	< 0.5	13	138	709	3.76	10	< 1	0.77	20	1.16	140	216
H573054	299	229	1.4	0.99	2	60	< 0.5	< 2	0.69	< 0.5	15	57	1515	4.33	10	< 1	0.49	20	0.87	110	203
H573055	299	229	0.6	1.26	< 2	60	< 0.5	< 2	0.64	< 0.5	11	63	647	4.05	10	< 1	0.64	10	1.11	135	179
H573056	299	229	0.8	1.18	4	80	< 0.5	< 2	0.81	< 0.5	15	57	608	4.57	10	< 1	0.62	20	1.02	145	186
H573057	299	229	1.0	1.39	2	100	< 0.5	< 2	0.60	< 0.5	13	143	991	5.39	10	< 1	0.74	20	1.06	210	174
H573058	299	229	0.8	1.70	6	110	< 0.5	< 2	0.86	< 0.5	22	140	893	4.87	10	< 1	0.92	20	1.31	170	144
H573059	299	229	0.4	0.93	6	40	< 0.5	< 2	1.66	< 0.5	7	59	363	3.78	10	< 1	0.47	10	0.83	110	148
H573060	299	229	1.0	1.32	8	80	< 0.5	< 2	1.54	< 0.5	11	154	941	4.99	10	< 1	0.72	20	0.97	140	208
H573061	299	229	0.6	1.16	4	60	< 0.5	4	0.94	< 0.5	15	70	808	5.82	10	< 1	0.60	20	1.00	135	59
H573062	299	229	0.2	1.26	< 2	80	< 0.5	< 2	1.22	< 0.5	12	128	301	5.27	10	< 1	0.63	10	1.05	130	64
H573063	299	229	0.4	1.28	6	40	< 0.5	< 2	1.68	< 0.5	7	92	372	2.84	10	< 1	0.33	20	0.98	100	48
H573064	299	229	0.4	1.42	< 2	80	< 0.5	< 2	1.35	< 0.5	17	114	340	5.03	10	< 1	0.80	20	1.27	135	30
H573065	299	229	0.4	1.20	4	60	< 0.5	< 2	1.57	< 0.5	12	75	364	5.02	10	< 1	0.65	10	1.09	115	32
H573066	299	229	0.4	1.29	< 2	70	< 0.5	< 2	1.54	< 0.5	11	94	407	3.96	10	< 1	0.70	10	1.18	125	36
A826	299	229	1.0	1.56	< 2	90	< 0.5	< 2	0.20	< 0.5	27	63	2030	5.49	< 10	< 1	0.75	10	0.91	165	165
A827	299	229	1.6	1.64	8	90	< 0.5	< 2	0.45	< 0.5	30	127	1435	5.91	10	< 1	0.76	20	0.87	345	127
A828	299	229	0.2	1.05	12	180	< 0.5	2	2.16	< 0.5	7	83	200	1.94	< 10	< 1	0.42	20	0.63	185	51
A829	299	229	1.4	1.50	< 2	120	< 0.5	< 2	1.27	< 0.5	18	138	1525	4.61	10	< 1	0.77	20	1.02	195	211
A830	299	229	0.8	0.74	6	70	< 0.5	< 2	1.05	< 0.5	17	77	1275	3.61	< 10	< 1	0.43	10	0.87	140	271
A831	299	229	0.4	1.85	4	90	< 0.5	< 2	1.26	< 0.5	13	133	541	3.98	10	< 1	0.67	30	1.11	175	269
A832	299	229	0.6	1.48	< 2	130	< 0.5	< 2	0.61	< 0.5	12	169	669	4.74	10	< 1	0.84	20	1.09	180	136

CERTIFICATION: Ivan Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :4
Certificate Date: 05-JUL-93
Invoice No. :19316258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H573040	299	229	0.03	15	390	8	< 2	5	47	0.03	< 10	< 10	64	< 10	20
H573041	299	229	0.04	13	430	12	< 2	6	41	0.06	< 10	< 10	57	< 10	22
H573042	299	229	0.06	13	440	10	2	6	35	0.06	< 10	< 10	57	< 10	22
H573043	299	229	0.02	12	540	6	8	6	47	0.02	10	< 10	43	< 10	28
H573044	299	229	< 0.01	11	530	6	8	4	15	< 0.01	< 10	< 10	33	< 10	28
H573045	299	229	< 0.01	9	450	12	12	3	19	< 0.01	< 10	< 10	23	< 10	26
H573046	299	229	< 0.01	9	510	14	16	3	21	< 0.01	< 10	< 10	23	< 10	26
H573047	299	229	0.01	12	610	6	2	6	45	0.02	< 10	< 10	48	< 10	18
H573048	299	229	0.01	13	400	10	2	4	258	0.03	< 10	< 10	62	< 10	22
H573049	299	229	0.02	12	550	8	< 2	6	156	0.07	< 10	< 10	53	< 10	20
H573050	299	229	0.02	10	390	8	2	4	102	0.03	< 10	< 10	47	< 10	20
H573051	299	229	0.07	13	260	16	< 2	6	89	0.04	< 10	< 10	81	< 10	26
H573052	299	229	0.03	15	600	10	2	6	42	0.08	< 10	< 10	61	< 10	24
H573053	299	229	0.06	13	570	6	< 2	8	25	0.09	< 10	< 10	74	< 10	24
H573054	299	229	0.02	13	530	4	< 2	5	16	0.07	< 10	< 10	58	< 10	24
H573055	299	229	0.02	11	370	4	< 2	8	16	0.09	< 10	< 10	64	< 10	22
H573056	299	229	0.03	12	770	6	< 2	7	21	0.09	< 10	< 10	61	< 10	26
H573057	299	229	0.05	15	510	8	< 2	7	23	0.10	10	< 10	68	< 10	32
H573058	299	229	0.07	16	610	6	< 2	9	27	0.13	10	< 10	69	< 10	30
H573059	299	229	0.01	9	390	8	< 2	4	80	0.06	< 10	< 10	44	< 10	18
H573060	299	229	0.04	14	570	6	< 2	5	85	0.08	< 10	< 10	49	< 10	24
H573061	299	229	0.02	14	500	10	< 2	7	27	0.08	< 10	< 10	59	< 10	26
H573062	299	229	0.04	12	490	8	< 2	7	86	0.09	< 10	< 10	69	< 10	20
H573063	299	229	0.07	8	610	6	2	3	58	0.06	< 10	< 10	39	< 10	18
H573064	299	229	0.03	14	390	8	< 2	10	87	0.11	< 10	< 10	84	< 10	22
H573065	299	229	0.02	13	440	6	< 2	6	59	0.10	< 10	< 10	66	< 10	20
H573066	299	229	0.03	12	590	8	< 2	5	50	0.11	< 10	< 10	59	< 10	20
A826	299	229	0.01	15	830	6	< 2	4	6	0.06	< 10	< 10	42	< 10	54
A827	299	229	0.03	14	430	14	< 2	4	17	0.06	< 10	< 10	33	< 10	58
A828	299	229	0.01	4	660	6	2	1	29	< 0.01	< 10	< 10	8	< 10	14
A829	299	229	0.03	13	1770	4	2	4	23	0.05	10	< 10	39	< 10	26
A830	299	229	0.02	15	590	6	< 2	2	25	0.02	< 10	< 10	20	< 10	24
A831	299	229	0.02	12	590	8	2	6	153	0.06	10	< 10	45	< 10	22
A832	299	229	0.07	14	560	8	< 2	7	28	0.11	10	< 10	64	< 10	28

CERTIFICATION: David Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-JUL-93
Invoice No. : 19316257
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H572920	208 274	0.02	0.018	0.14	6720
H572921	208 273	0.02	0.009	0.03	12800
H572922	208 276	0.03	0.013	0.07	10600
H572923	208 273	0.01	0.010	0.14	14220
H572924	208 276	0.01	0.012	0.03	11540
H572925	208 273	0.03	0.009	0.07	12420
H572926	208 276	0.01	0.020	0.10	9180
H572927	208 273	0.01	0.012	0.14	12080
H572928	208 274	0.01	0.009	0.34	6700
H572929	208 274	0.01	0.013	0.07	6500
H572930	208 276	0.02	0.009	0.10	7500
H572931	208 276	0.02	0.019	0.10	9540
H572932	208 276	0.02	0.025	0.10	9140
H572933	208 276	0.02	0.015	0.07	10840
H572934	208 276	0.06	0.017	0.24	11620
H572935	208 273	0.18	0.013	2.20	12700
H572936	208 276	0.45	0.018	0.10	11160
H572937	208 276	0.19	0.026	0.07	8060
H572938	208 273	0.19	0.014	0.03	11840
H572939	208 276	0.24	0.009	0.14	10640
H572940	208 276	0.30	0.015	0.10	7760
H572941	208 273	0.17	0.014	0.03	11940
H572942	208 274	0.22	0.044	0.10	6740
H572943	208 276	0.09	0.008	0.07	11060
H572944	208 276	0.21	0.012	0.10	8940
H572945	208 273	0.10	0.020	0.07	13980
H572946	208 273	0.13	0.011	0.07	13620
H572947	208 273	0.15	0.016	0.10	14320
H572948	208 273	0.10	0.020	0.10	15820
H572949	208 273	0.07	0.016	0.10	13560
H572950	208 273	0.11	0.018	0.10	12620
H572951	208 273	0.22	0.022	0.17	13240
H572952	208 276	0.11	0.010	0.07	9640
H572953	208 273	0.09	0.013	0.10	12800
H572954	208 274	0.15	0.018	0.14	5060
H572955	208 273	0.09	0.014	0.03	14440
H572956	208 276	0.13	0.022	0.07	9340
H572957	208 276	0.15	0.023	0.07	11740
H572958	208 273	0.12	0.012	0.10	13060
H572959	208 276	0.20	0.016	0.24	11140

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Invoice No. :19316257
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CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H572960	208	273	0.22	0.026	0.49	13840						
H572961	208	273	0.12	0.017	0.34	12740						
H572962	208	276	0.16	0.018	0.14	9060						
H572963	208	270	0.28	0.019	0.17	17260						
H572964	208	273	0.20	0.014	0.17	13220						
H572965	208	276	0.17	0.026	0.10	9960						
H572966	208	276	0.13	0.020	0.10	10240						
H572967	208	276	0.13	0.019	0.14	11580						
H572968	208	273	0.15	0.041	0.10	12680						
H572969	208	270	0.10	0.019	0.07	17160						
H572970	208	273	0.10	0.024	0.14	13160						
H572971	208	273	0.07	0.012	0.03	12340						
H572972	208	276	0.05	0.003	0.10	11460						
H572973	208	273	0.15	0.016	0.10	13840						
H572974	208	273	0.09	0.012	0.07	13500						
H572975	208	273	0.05	0.009	0.03	14180						
H572976	208	273	0.04	0.009	0.07	15760						
H572977	208	276	0.02	0.009	< 0.03	8520						
H572978	208	273	0.04	0.011	< 0.03	15660						
H572979	208	273	0.02	0.009	0.03	12440						
H572980	208	276	0.02	0.006	< 0.03	9640						
H572981	208	276	0.02	0.004	< 0.03	10740						
H572982	208	276	0.02	0.006	< 0.03	11060						
H572983	208	273	0.02	0.006	< 0.03	13520						
H572984	208	273	0.03	0.006	< 0.03	12860						
H572985	208	273	0.04	0.009	0.03	13120						
H572986	208	276	0.06	0.012	0.07	7780						
H572987	208	276	0.08	0.030	0.07	11640						
H572988	208	273	0.01	0.006	0.03	11880						
H572989	208	276	0.07	0.031	0.07	10040						
H572990	208	276	0.03	0.007	< 0.03	11100						
H572991	208	273	0.09	0.033	0.07	13660						
H572992	208	273	0.09	0.076	0.03	13880						
H572993	208	273	0.07	0.032	0.07	13760						
H572994	208	270	0.13	0.061	0.14	17320						
H572995	208	273	0.14	0.060	0.14	12880						
H572996	208	274	0.22	0.039	0.27	5200						
H572997	208	273	0.14	0.040	0.24	13280						
H572998	208	274	0.15	0.056	0.51	7040						
H572999	208	273	0.15	0.061	0.24	12920						

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
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Certificate Date: 05-JUL-93
Invoice No. :19316257
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CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H573000	208 273	0.17	0.044	0.41	15680
H573001	208 270	0.16	0.036	0.58	18960
H573002	208 276	0.23	0.112	0.34	10780
H573003	208 273	0.87	0.107	0.89	15240
H573004	208 273	0.19	0.036	0.69	15280
H573005	208 273	0.14	0.051	0.17	14520
H573006	208 273	0.10	0.030	0.17	14500
H573007	208 273	0.14	0.063	0.24	12300
H573008	208 273	0.16	0.078	0.31	12180
H573009	208 273	0.31	0.104	0.34	13280
H573010	208 276	0.21	0.094	0.10	9740
H573011	208 273	0.32	0.086	0.10	16040
H573012	208 273	0.17	0.032	0.14	12500
H573013	208 274	0.16	0.036	0.24	5960
H573014	208 273	0.16	0.024	0.14	14140
H573015	208 273	0.14	0.030	0.14	12240
H573016	208 273	0.09	0.026	0.10	12180
H573017	208 273	0.11	0.042	0.17	11940
H573018	208 273	0.17	0.061	0.21	12180
H573019	208 273	0.09	0.022	0.14	11940
H573020	208 276	0.06	0.022	0.10	8020
H573021	208 273	0.09	0.028	0.07	12440
H573022	208 276	0.07	0.032	0.07	11120
H573023	208 274	0.04	0.016	0.10	5860
H573024	208 273	0.06	0.025	0.10	12760
H573025	208 276	0.12	0.043	0.07	11720
H573026	208 276	0.09	0.023	0.07	11480
H573027	208 273	0.09	0.022	0.10	12360
H573028	208 273	0.07	0.027	0.10	12580
H573029	208 273	0.07	0.024	0.14	12540
H573030	208 276	0.03	0.010	0.10	11280
H573031	208 273	0.05	0.015	0.07	12660
H573032	208 276	0.08	0.023	0.14	9460
H573033	208 276	0.07	0.021	0.10	10440
H573034	208 273	0.07	0.018	0.07	14860
H573035	208 273	0.05	0.020	0.07	13780
H573036	208 273	0.06	0.025	0.07	12600
H573037	208 276	0.05	0.040	0.10	10280
H573038	208 276	0.07	0.029	0.10	7280
H573039	208 273	0.06	0.020	0.14	12100

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CERTIFICATE OF ANALYSIS A9316257

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H573040	208	276	0.06	0.021	< 0.03	11520
H573041	208	273	0.10	0.030	0.14	12120
H573042	208	273	0.08	0.030	0.07	12720
H573043	208	276	0.07	0.029	0.03	10940
H573044	208	276	0.06	0.028	0.03	11280
H573045	208	273	0.13	0.045	0.03	12380
H573046	208	273	0.08	0.030	0.03	12160
H573047	208	276	0.05	0.033	< 0.03	11660
H573048	208	273	0.06	0.025	0.07	12920
H573049	208	276	0.03	0.027	< 0.03	11760
H573050	208	273	0.08	0.029	0.07	12280
H573051	208	276	0.04	0.016	0.03	11320
H573052	208	276	0.15	0.030	0.14	10020
H573053	208	276	0.07	0.038	0.07	9380
H573054	208	276	0.16	0.037	0.10	8740
H573055	208	274	0.06	0.031	0.03	6820
H573056	208	276	0.06	0.032	0.07	10520
H573057	208	273	0.09	0.028	0.07	11860
H573058	208	273	0.09	0.029	0.03	13420
H573059	208	273	0.04	0.027	< 0.03	13820
H573060	208	276	0.10	0.037	0.03	7340
H573061	208	276	0.08	0.012	< 0.03	11260
H573062	208	273	0.03	0.012	0.07	14460
H573063	208	273	0.04	0.009	0.07	14340
H573064	208	273	0.03	0.006	< 0.03	13960
H573065	208	273	0.04	0.006	< 0.03	13920
H573066	208	273	0.04	0.006	< 0.03	13020
A826	208	274	0.20	0.027	0.10	4540
A827	208	274	0.14	0.024	0.17	4880
A828	208	274	0.02	0.009	< 0.03	5940
A829	208	274	0.15	0.035	0.21	6340
A830	208	274	0.13	0.044	0.10	6720
A831	208	274	0.05	0.043	< 0.03	4140
A832	208	274	0.07	0.024	< 0.03	3960

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Project : CASINO-162
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Page 1 : 1-A
Total Pages : 4
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CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572920	299	229	1.4	1.02	42	400	< 0.5	2	0.02	< 0.5	1	139	217	5.27	< 10	< 1	0.87	20	0.14	20	95
H572921	299	229	0.8	0.89	62	330	< 0.5	< 2	0.02	< 0.5	1	167	217	6.60	< 10	< 1	0.89	20	0.12	20	49
H572922	299	229	1.0	0.95	36	260	< 0.5	< 2	0.01	< 0.5	2	144	232	6.15	10	< 1	0.92	30	0.15	25	74
H572923	299	229	0.8	0.69	62	190	< 0.5	< 2	< 0.01	< 0.5	1	170	95	5.32	< 10	< 1	1.03	10	0.06	15	60
H572924	299	229	0.6	0.61	26	230	< 0.5	< 2	< 0.01	< 0.5	1	142	58	3.05	< 10	< 1	0.79	10	0.07	15	67
H572925	299	229	0.8	1.09	36	300	< 0.5	< 2	0.01	< 0.5	6	141	247	6.05	< 10	< 1	0.80	10	0.23	85	49
H572926	299	229	0.6	0.79	16	200	< 0.5	< 2	< 0.01	< 0.5	2	85	114	4.50	< 10	< 1	1.05	10	0.10	20	119
H572927	299	229	1.2	0.69	42	150	< 0.5	< 2	0.01	< 0.5	3	112	84	4.78	< 10	< 1	0.98	10	0.06	15	61
H572928	299	229	1.6	0.86	26	170	< 0.5	4	< 0.01	< 0.5	2	88	101	5.46	< 10	< 1	1.05	10	0.08	15	48
H572929	299	229	0.8	0.97	14	120	< 0.5	< 2	< 0.01	< 0.5	4	105	125	7.64	10	< 1	1.30	10	0.09	30	79
H572930	299	229	0.8	1.04	12	160	< 0.5	< 2	0.01	< 0.5	3	106	202	7.66	< 10	< 1	1.05	10	0.15	30	46
H572931	299	229	0.8	1.27	2	240	< 0.5	< 2	0.01	< 0.5	3	146	219	4.82	< 10	< 1	1.07	10	0.20	30	114
H572932	299	229	1.4	1.41	14	230	< 0.5	< 2	0.01	< 0.5	3	106	230	6.34	10	< 1	1.21	20	0.27	45	130
H572933	299	229	0.8	1.03	18	170	< 0.5	2	< 0.01	< 0.5	6	217	204	3.69	< 10	< 1	0.84	10	0.11	20	80
H572934	299	229	0.6	1.67	46	160	< 0.5	< 2	0.01	< 0.5	15	179	588	3.76	< 10	< 1	0.74	10	0.25	55	103
H572935	299	229	0.6	1.63	4	160	< 0.5	< 2	0.01	< 0.5	15	193	1780	4.26	< 10	< 1	0.75	10	0.38	65	71
H572936	299	229	0.8	1.56	20	50	< 0.5	< 2	0.06	< 0.5	42	144	4610	5.43	< 10	< 1	0.70	10	0.33	90	104
H572937	299	229	0.6	1.73	8	160	< 0.5	< 2	0.18	< 0.5	21	177	1885	4.72	10	< 1	0.89	10	0.83	210	155
H572938	299	229	0.4	1.57	12	130	< 0.5	< 2	0.13	0.5	25	120	1820	5.76	< 10	< 1	0.68	10	0.76	435	62
H572939	299	229	0.6	1.94	8	150	< 0.5	< 2	0.11	< 0.5	26	157	2410	5.61	10	< 1	0.82	10	0.93	225	48
H572940	299	229	1.2	1.84	12	60	0.5	< 2	0.07	< 0.5	34	101	3030	5.01	< 10	< 1	0.65	10	0.43	275	88
H572941	299	229	1.2	1.45	4	90	< 0.5	< 2	0.13	1.0	35	123	1690	5.86	< 10	< 1	0.69	10	0.61	405	76
H572942	299	229	1.2	1.62	8	80	< 0.5	< 2	0.16	1.0	40	86	2300	6.56	< 10	< 1	0.78	20	0.70	445	266
H572943	299	229	0.8	1.84	12	90	< 0.5	< 2	0.16	< 0.5	35	107	856	6.56	10	< 1	0.76	10	1.08	335	37
H572944	299	229	0.8	1.99	12	110	< 0.5	< 2	0.11	0.5	28	93	2310	6.77	10	< 1	0.77	10	0.95	220	57
H572945	299	229	0.8	1.76	2	130	< 0.5	< 2	0.13	< 0.5	24	132	1020	7.83	10	< 1	0.79	10	0.98	235	116
H572946	299	229	0.6	1.78	18	140	< 0.5	< 2	0.15	< 0.5	25	104	1220	6.21	10	< 1	0.74	10	0.87	250	62
H572947	299	229	1.4	1.86	16	130	< 0.5	< 2	0.16	< 0.5	28	141	1560	6.43	10	< 1	0.80	10	0.98	200	93
H572948	299	229	0.6	1.62	12	90	< 0.5	< 2	0.13	0.5	24	94	988	7.85	10	< 1	0.69	10	1.01	315	121
H572949	299	229	0.4	1.77	4	90	< 0.5	< 2	0.17	0.5	21	99	671	6.85	10	< 1	0.72	10	1.10	320	90
H572950	299	229	0.8	1.23	14	50	< 0.5	< 2	0.38	< 0.5	38	79	1090	6.97	< 10	< 1	0.57	10	0.76	505	106
H572951	299	229	1.4	0.99	26	60	< 0.5	< 2	0.19	0.5	31	75	2140	7.64	< 10	< 1	0.41	10	0.53	675	131
H572952	299	229	0.6	1.42	6	90	< 0.5	< 2	0.34	0.5	28	71	1125	6.09	< 10	< 1	0.58	10	0.61	525	51
H572953	299	229	0.8	1.52	8	130	< 0.5	< 2	0.61	< 0.5	25	94	883	5.75	10	< 1	0.60	20	0.81	550	74
H572954	299	229	1.2	1.44	26	90	< 0.5	< 2	0.46	0.5	31	60	1580	5.75	< 10	< 1	0.38	10	0.51	1130	109
H572955	299	229	0.8	1.94	6	100	< 0.5	< 2	0.50	< 0.5	19	102	916	6.61	10	< 1	0.70	20	0.96	380	80
H572956	299	229	1.8	1.30	14	70	< 0.5	< 2	0.53	< 0.5	31	71	1380	6.18	< 10	< 1	0.54	20	0.59	500	123
H572957	299	229	1.2	1.40	6	80	< 0.5	< 2	0.42	< 0.5	32	88	1510	6.02	10	< 1	0.63	20	0.77	350	126
H572958	299	229	1.4	1.08	12	80	< 0.5	< 2	0.51	< 0.5	24	83	1335	5.32	< 10	< 1	0.52	20	0.81	285	72
H572959	299	229	3.4	0.81	< 2	90	< 0.5	< 2	0.65	< 0.5	28	119	2040	5.50	< 10	< 1	0.33	20	0.48	175	86

CERTIFICATION: Hart Bichler

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :1-B
Total Pages :4
Certificate Date: 05-JUL-93
Invoice No. :19316258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572920	299	229	0.02	3	810	28	< 2	1	30	0.01	< 10	< 10	17	< 10	18
H572921	299	229	0.03	4	1220	28	2	1	43	0.02	< 10	< 10	24	< 10	20
H572922	299	229	0.03	3	2810	48	< 2	2	48	0.01	< 10	< 10	19	< 10	24
H572923	299	229	0.04	2	650	22	< 2	1	27	< 0.01	< 10	< 10	12	< 10	14
H572924	299	229	0.02	3	490	12	< 2	2	22	0.01	< 10	< 10	14	< 10	16
H572925	299	229	0.03	6	860	16	< 2	6	47	0.01	< 10	< 10	50	< 10	68
H572926	299	229	0.03	2	890	12	< 2	3	27	0.01	< 10	< 10	18	< 10	26
H572927	299	229	0.03	2	660	14	4	1	35	< 0.01	< 10	< 10	12	< 10	18
H572928	299	229	0.04	1	520	20	< 2	1	17	< 0.01	< 10	< 10	16	< 10	24
H572929	299	229	0.04	3	610	12	< 2	3	20	0.02	< 10	< 10	31	< 10	40
H572930	299	229	0.03	5	600	22	< 2	3	25	0.01	< 10	< 10	38	< 10	42
H572931	299	229	0.03	4	640	8	< 2	2	21	0.02	10	< 10	26	< 10	32
H572932	299	229	0.03	6	540	12	< 2	3	23	0.03	10	< 10	37	< 10	42
H572933	299	229	0.03	4	320	8	< 2	1	20	< 0.01	< 10	< 10	15	< 10	18
H572934	299	229	0.03	11	380	8	< 2	3	13	0.01	< 10	< 10	35	< 10	32
H572935	299	229	0.04	10	310	8	< 2	2	14	0.02	< 10	< 10	28	< 10	42
H572936	299	229	0.02	19	260	8	< 2	2	8	0.02	< 10	< 10	23	< 10	52
H572937	299	229	0.02	14	790	12	< 2	4	10	0.05	< 10	< 10	40	< 10	52
H572938	299	229	0.02	14	460	10	< 2	3	10	0.04	< 10	< 10	33	< 10	64
H572939	299	229	0.03	15	460	8	< 2	3	9	0.05	< 10	< 10	42	< 10	58
H572940	299	229	0.01	23	300	12	< 2	2	8	0.02	< 10	< 10	23	< 10	78
H572941	299	229	0.01	16	430	8	< 2	2	8	0.02	< 10	< 10	23	< 10	76
H572942	299	229	0.02	14	550	10	< 2	4	9	0.02	10	< 10	36	< 10	86
H572943	299	229	0.03	15	550	8	< 2	4	7	0.04	< 10	< 10	43	< 10	60
H572944	299	229	0.03	16	470	14	< 2	3	7	0.04	< 10	< 10	46	< 10	60
H572945	299	229	0.03	15	460	6	< 2	3	8	0.05	< 10	< 10	49	< 10	48
H572946	299	229	0.03	14	600	10	< 2	2	8	0.04	< 10	< 10	30	< 10	48
H572947	299	229	0.03	16	710	12	2	6	9	0.06	< 10	< 10	55	< 10	46
H572948	299	229	0.03	12	430	14	< 2	3	8	0.05	< 10	< 10	34	< 10	64
H572949	299	229	0.03	11	560	14	< 2	3	8	0.04	< 10	< 10	27	< 10	60
H572950	299	229	0.02	12	940	12	< 2	2	12	0.02	< 10	< 10	18	< 10	56
H572951	299	229	0.01	17	590	16	< 2	2	8	0.01	< 10	< 10	20	< 10	76
H572952	299	229	0.01	13	540	14	< 2	2	11	0.02	< 10	< 10	19	< 10	80
H572953	299	229	0.01	13	530	20	2	3	18	0.02	10	< 10	25	< 10	56
H572954	299	229	0.01	17	710	12	2	3	18	< 0.01	10	< 10	30	< 10	98
H572955	299	229	0.02	14	760	10	< 2	4	23	0.04	< 10	< 10	35	< 10	56
H572956	299	229	0.01	14	460	12	< 2	3	14	0.02	< 10	< 10	25	< 10	64
H572957	299	229	0.02	14	410	10	< 2	3	16	0.04	< 10	< 10	27	< 10	64
H572958	299	229	0.02	13	550	6	< 2	3	16	0.03	< 10	< 10	33	< 10	40
H572959	299	229	0.02	14	460	14	< 2	2	19	< 0.01	< 10	< 10	36	< 10	28

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-JUL-93
Invoice No. : I9316258
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H572960	299	229	2.0	0.91	< 2	40	< 0.5	< 2	0.62	< 0.5	29	90	2260	5.62	< 10	< 1	0.40	20	0.49	145	135
H572961	299	229	1.4	1.41	4	40	< 0.5	< 2	0.95	< 0.5	57	74	1190	6.09	10	< 1	0.50	20	0.74	175	93
H572962	299	229	1.4	1.34	10	100	< 0.5	< 2	0.89	< 0.5	17	104	1505	5.51	10	< 1	0.53	20	0.97	275	96
H572963	299	229	2.4	1.20	10	80	< 0.5	< 2	0.79	< 0.5	21	73	2750	5.92	10	< 1	0.59	20	0.88	310	104
H572964	299	229	1.8	1.10	< 2	80	< 0.5	< 2	0.66	< 0.5	21	100	2000	6.08	10	< 1	0.62	10	0.89	190	78
H572965	299	229	1.4	1.27	2	130	< 0.5	< 2	0.58	< 0.5	20	67	1695	5.85	10	< 1	0.72	20	0.97	205	146
H572966	299	229	1.4	1.50	10	130	< 0.5	< 2	0.82	< 0.5	19	78	1270	5.39	10	< 1	0.66	20	0.97	270	85
H572967	299	229	1.6	1.15	8	50	< 0.5	< 2	0.76	< 0.5	22	84	1270	5.47	< 10	< 1	0.52	10	0.70	235	100
H572968	299	229	1.4	1.80	4	80	< 0.5	< 2	1.02	< 0.5	18	104	1395	5.24	10	< 1	0.74	20	1.10	210	226
H572969	299	229	1.0	1.25	8	60	< 0.5	< 2	1.07	< 0.5	18	94	1030	5.38	10	< 1	0.61	20	0.94	205	102
H572970	299	229	1.0	0.80	8	40	< 0.5	< 2	0.94	< 0.5	19	63	979	5.75	< 10	< 1	0.42	20	0.89	190	131
H572971	299	229	0.6	0.80	6	80	< 0.5	< 2	1.58	< 0.5	10	53	670	3.17	< 10	< 1	0.41	20	0.67	180	66
H572972	299	229	4.2	1.00	68	150	0.5	4	1.91	3.5	7	56	436	2.22	< 10	< 1	0.44	20	0.51	445	9
H572973	299	229	1.6	0.87	84	40	< 0.5	10	1.17	0.5	13	77	1420	4.86	< 10	< 1	0.45	20	0.65	475	88
H572974	299	229	0.8	1.05	12	90	< 0.5	6	1.67	< 0.5	8	59	842	2.84	< 10	< 1	0.42	20	0.65	255	65
H572975	299	229	0.4	1.06	10	80	< 0.5	2	1.79	< 0.5	9	71	488	2.52	< 10	< 1	0.50	20	0.58	195	51
H572976	299	229	0.2	1.74	6	140	0.5	2	1.97	< 0.5	7	93	366	2.03	< 10	< 1	0.74	20	0.61	180	55
H572977	299	229	0.2	2.24	12	170	0.5	2	1.92	< 0.5	7	60	149	1.83	< 10	< 1	0.79	20	0.60	220	52
H572978	299	229	0.4	1.33	12	140	0.5	2	2.00	< 0.5	7	76	323	1.93	< 10	< 1	0.49	20	0.63	175	46
H572979	299	229	0.2	1.53	4	140	0.5	2	1.69	< 0.5	4	70	186	1.94	10	< 1	0.38	30	0.57	145	46
H572980	299	229	0.4	1.15	< 2	50	< 0.5	< 2	1.19	1.0	8	45	163	2.28	10	< 1	0.20	30	0.69	150	37
H572981	299	229	0.2	1.26	4	30	< 0.5	< 2	1.43	< 0.5	8	53	200	2.35	10	< 1	0.20	30	0.69	140	24
H572982	299	229	0.2	1.13	< 2	50	< 0.5	2	1.66	< 0.5	8	45	176	2.34	10	< 1	0.26	30	0.57	100	26
H572983	299	229	0.2	1.18	< 2	70	0.5	< 2	2.34	< 0.5	4	46	217	1.82	10	< 1	0.20	30	0.59	140	31
H572984	299	229	0.2	0.90	8	20	0.5	< 2	1.37	< 0.5	7	24	301	1.92	< 10	< 1	0.13	30	0.41	165	29
H572985	299	229	0.4	1.12	22	70	0.5	< 2	1.89	< 0.5	10	47	407	2.29	< 10	< 1	0.34	20	0.66	230	49
H572986	299	229	0.4	1.26	2	70	< 0.5	2	1.40	< 0.5	13	56	577	2.72	10	< 1	0.44	30	0.70	135	67
H572987	299	229	0.6	1.62	< 2	70	< 0.5	< 2	1.13	< 0.5	25	92	782	3.70	10	< 1	0.65	30	1.01	150	174
H572988	299	229	< 0.2	1.34	2	70	< 0.5	< 2	1.44	< 0.5	6	71	112	2.37	10	< 1	0.26	30	0.59	140	18
H572989	299	229	0.6	1.30	< 2	50	< 0.5	2	1.20	< 0.5	10	72	659	2.68	10	< 1	0.43	30	0.68	130	170
H572990	299	229	0.4	1.35	< 2	60	< 0.5	< 2	0.79	< 0.5	8	66	312	2.41	10	< 1	0.41	20	0.79	140	37
H572991	299	229	0.6	1.94	8	100	< 0.5	< 2	0.75	< 0.5	15	106	911	4.71	10	< 1	0.92	20	1.32	165	196
H572992	299	229	0.6	1.54	4	80	< 0.5	< 2	0.74	< 0.5	16	131	817	3.60	10	< 1	0.68	30	0.99	125	440
H572993	299	229	0.6	1.74	< 2	100	< 0.5	< 2	0.73	< 0.5	11	76	608	3.57	10	< 1	0.74	20	1.06	150	179
H572994	299	229	1.2	1.39	< 2	90	< 0.5	< 2	0.68	< 0.5	20	122	1155	5.28	10	< 1	0.58	20	0.88	130	304
H572995	299	229	1.2	1.51	6	90	< 0.5	< 2	0.63	< 0.5	25	85	1300	4.80	10	< 1	0.83	20	1.19	165	312
H572996	299	229	1.6	1.42	< 2	70	< 0.5	2	0.84	< 0.5	22	106	2040	5.00	10	< 1	0.64	20	0.82	130	194
H572997	299	229	1.0	1.25	4	100	< 0.5	< 2	1.41	< 0.5	15	117	1330	4.13	10	< 1	0.69	20	0.93	175	210
H572998	299	229	9.4	1.11	138	70	< 0.5	4	1.36	0.5	19	129	1385	5.26	< 10	< 1	0.58	10	0.92	825	281
H572999	299	229	1.2	1.28	24	110	0.5	< 2	0.97	< 0.5	24	115	1430	4.90	10	< 1	0.74	20	0.87	300	340

CERTIFICATION: Stewart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H572960	299	229	0.03	12	520	6	< 2	2	21	< 0.01	< 10	< 10	41	< 10	28
H572961	299	229	0.01	13	660	6	< 2	3	19	0.02	< 10	< 10	23	< 10	28
H572962	299	229	0.03	12	500	8	< 2	4	22	0.03	< 10	< 10	40	< 10	32
H572963	299	229	0.02	13	760	12	< 2	4	19	0.04	< 10	< 10	40	< 10	46
H572964	299	229	0.06	12	530	16	< 2	5	20	0.06	< 10	< 10	57	< 10	34
H572965	299	229	0.04	12	530	12	< 2	5	18	0.07	< 10	< 10	55	< 10	36
H572966	299	229	0.02	13	520	6	2	4	25	0.05	< 10	< 10	39	< 10	38
H572967	299	229	0.01	13	410	8	< 2	4	17	0.03	< 10	< 10	34	< 10	32
H572968	299	229	0.01	10	480	10	2	6	21	0.06	< 10	< 10	45	< 10	36
H572969	299	229	0.03	11	500	10	< 2	3	26	0.03	< 10	< 10	33	< 10	32
H572970	299	229	0.01	12	510	6	< 2	4	21	0.03	< 10	< 10	35	< 10	32
H572971	299	229	0.04	6	640	6	< 2	2	37	< 0.01	< 10	< 10	16	< 10	20
H572972	299	229	0.04	3	680	52	16	1	45	< 0.01	< 10	< 10	12	< 10	122
H572973	299	229	0.01	9	530	16	4	2	25	< 0.01	< 10	< 10	17	< 10	54
H572974	299	229	0.01	5	630	10	2	1	32	< 0.01	< 10	< 10	10	< 10	32
H572975	299	229	0.01	4	590	6	2	1	33	< 0.01	< 10	< 10	10	< 10	18
H572976	299	229	0.02	3	570	4	< 2	1	33	< 0.01	< 10	< 10	11	< 10	16
H572977	299	229	0.02	2	610	4	< 2	1	31	< 0.01	< 10	< 10	12	< 10	12
H572978	299	229	0.02	5	620	4	2	1	37	< 0.01	10	< 10	10	< 10	12
H572979	299	229	0.13	4	700	8	< 2	2	66	< 0.01	10	< 10	23	< 10	24
H572980	299	229	0.08	5	720	66	< 2	3	41	0.01	10	< 10	27	< 10	244
H572981	299	229	0.08	5	740	12	< 2	2	43	< 0.01	< 10	< 10	23	< 10	24
H572982	299	229	0.07	3	660	6	< 2	2	40	< 0.01	10	< 10	16	< 10	14
H572983	299	229	0.06	3	670	10	< 2	2	51	< 0.01	< 10	< 10	19	< 10	18
H572984	299	229	0.01	3	680	14	2	2	26	< 0.01	10	< 10	12	< 10	14
H572985	299	229	0.01	3	660	6	2	1	27	< 0.01	10	< 10	9	< 10	16
H572986	299	229	0.07	6	730	10	< 2	3	32	0.01	10	< 10	26	< 10	16
H572987	299	229	0.07	10	750	6	< 2	3	28	0.04	10	< 10	39	< 10	22
H572988	299	229	0.10	2	700	8	< 2	3	51	0.01	10	< 10	26	< 10	16
H572989	299	229	0.07	8	670	6	< 2	3	34	0.02	10	< 10	31	< 10	20
H572990	299	229	0.09	4	700	6	< 2	3	33	0.04	< 10	< 10	32	< 10	22
H572991	299	229	0.07	10	640	10	< 2	7	25	0.09	< 10	< 10	60	< 10	28
H572992	299	229	0.07	10	450	8	< 2	4	26	0.06	10	< 10	38	< 10	22
H572993	299	229	0.09	9	740	6	< 2	5	34	0.08	10	< 10	49	< 10	24
H572994	299	229	0.04	11	620	8	< 2	4	20	0.04	10	< 10	48	< 10	24
H572995	299	229	0.04	11	680	6	< 2	5	19	0.07	10	< 10	49	< 10	28
H572996	299	229	0.04	11	330	8	< 2	3	26	0.02	< 10	< 10	37	10	26
H572997	299	229	0.03	10	630	6	2	3	24	0.04	< 10	< 10	36	< 10	22
H572998	299	229	0.02	13	530	24	22	3	22	0.01	< 10	< 10	27	< 10	44
H572999	299	229	0.03	12	660	6	2	3	24	0.04	< 10	< 10	34	< 10	26

CERTIFICATION: Ian Bichler

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page r :3-A
Total Pa :4
Certificate Date: 05-JUL-93
Invoice No. :19316258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H573000	299	229	7.4	1.23	172	60	< 0.5	8	1.22	7.5	22	129	1655	5.29	10	< 1	0.66	20	0.91	815	262
H573001	299	229	8.0	0.85	258	40	< 0.5	< 2	1.51	33.0	22	137	1580	5.28	< 10	< 1	0.44	10	0.74	2960	203
H573002	299	229	1.8	1.43	12	110	< 0.5	< 2	0.89	0.5	29	159	2200	6.85	10	< 1	0.72	30	1.03	285	650
H573003	299	229	5.4	1.73	2	30	< 0.5	< 2	1.33	0.5	30	116	9320	8.17	10	< 1	0.85	40	1.26	175	602
H573004	299	229	1.8	1.61	4	120	< 0.5	< 2	0.93	< 0.5	17	130	1880	4.60	10	< 1	0.84	30	1.14	190	205
H573005	299	229	1.2	0.97	4	70	< 0.5	< 2	1.28	< 0.5	21	43	1330	4.26	< 10	< 1	0.55	20	0.95	170	280
H573006	299	229	1.0	1.41	4	90	< 0.5	< 2	1.33	< 0.5	13	119	959	3.14	< 10	< 1	0.68	20	0.97	145	156
H573007	299	229	1.2	1.49	4	130	< 0.5	< 2	1.15	< 0.5	14	130	1310	3.85	< 10	< 1	0.74	20	0.92	230	358
H573008	299	229	1.8	1.14	6	120	< 0.5	< 2	1.74	1.5	16	107	1475	3.51	< 10	< 1	0.54	20	1.00	655	450
H573009	299	229	2.6	0.74	6	80	< 0.5	< 2	0.90	< 0.5	18	99	3190	3.97	< 10	< 1	0.36	10	0.58	125	635
H573010	299	229	1.8	1.05	16	40	< 0.5	4	0.74	< 0.5	35	227	2170	5.63	< 10	< 1	0.58	10	0.57	85	566
H573011	299	229	2.4	0.75	< 2	60	< 0.5	< 2	0.71	< 0.5	26	39	3250	4.72	< 10	< 1	0.45	10	0.92	145	492
H573012	299	229	2.4	1.15	14	60	< 0.5	2	0.90	< 0.5	22	138	1730	4.97	< 10	< 1	0.72	20	0.97	235	173
H573013	299	229	1.0	1.84	< 2	90	< 0.5	< 2	0.88	< 0.5	16	78	1505	5.30	10	< 1	0.95	20	1.55	245	191
H573014	299	229	1.2	1.46	4	90	< 0.5	< 2	0.91	< 0.5	18	125	1625	5.24	10	< 1	0.72	10	1.24	145	131
H573015	299	229	1.2	1.48	< 2	70	< 0.5	< 2	1.10	< 0.5	19	129	1440	4.59	10	< 1	0.72	20	1.28	155	177
H573016	299	229	1.2	0.87	16	110	< 0.5	< 2	1.45	< 0.5	14	118	946	3.11	< 10	< 1	0.44	20	0.84	290	152
H573017	299	229	0.8	0.88	8	90	< 0.5	< 2	0.97	< 0.5	17	132	1105	3.67	< 10	< 1	0.45	10	0.69	130	249
H573018	299	229	1.4	0.66	< 2	60	< 0.5	2	0.93	< 0.5	24	80	1765	4.51	< 10	< 1	0.35	20	0.58	130	345
H573019	299	229	0.6	1.25	4	70	< 0.5	< 2	0.78	< 0.5	14	75	844	3.34	10	< 1	0.60	20	1.13	155	118
H573020	299	229	0.6	1.04	< 2	90	< 0.5	< 2	0.65	< 0.5	15	108	610	3.50	< 10	< 1	0.57	20	0.98	205	126
H573021	299	229	0.6	0.56	6	50	< 0.5	< 2	1.26	< 0.5	16	42	821	3.91	< 10	< 1	0.27	10	0.77	260	161
H573022	299	229	0.6	0.61	12	40	< 0.5	4	1.38	< 0.5	10	86	695	2.69	< 10	< 1	0.29	10	0.61	460	156
H573023	299	229	0.2	1.14	6	250	0.5	< 2	1.53	< 0.5	15	116	342	1.95	< 10	< 1	0.52	30	0.75	245	86
H573024	299	229	0.4	0.97	12	70	< 0.5	< 2	1.67	< 0.5	35	90	579	3.62	< 10	< 1	0.44	20	0.89	240	141
H573025	299	229	1.2	0.98	18	60	< 0.5	4	1.74	< 0.5	20	120	1135	3.95	< 10	< 1	0.44	10	0.78	515	237
H573026	299	229	0.4	0.92	4	100	< 0.5	< 2	1.61	< 0.5	17	68	868	3.00	< 10	< 1	0.46	20	0.87	235	143
H573027	299	229	0.6	0.60	2	100	< 0.5	< 2	2.12	< 0.5	15	58	869	2.67	< 10	< 1	0.24	10	0.58	220	111
H573028	299	229	0.6	1.36	12	160	< 0.5	2	1.82	< 0.5	12	106	724	2.82	< 10	< 1	0.61	20	0.90	225	143
H573029	299	229	0.4	1.01	4	200	< 0.5	< 2	1.47	< 0.5	10	99	634	2.34	< 10	< 1	0.44	20	0.76	175	129
H573030	299	229	0.2	1.07	16	70	< 0.5	< 2	1.64	< 0.5	10	103	360	2.42	< 10	< 1	0.41	20	0.83	230	58
H573031	299	229	0.4	0.57	8	20	< 0.5	< 2	1.58	< 0.5	9	69	494	2.19	< 10	< 1	0.16	10	0.68	260	82
H573032	299	229	1.8	1.05	50	30	< 0.5	< 2	2.39	< 0.5	11	96	805	3.63	< 10	< 1	0.28	10	0.92	715	124
H573033	299	229	0.8	1.59	16	70	< 0.5	< 2	1.69	< 0.5	13	93	724	3.89	10	< 1	0.64	20	1.27	370	121
H573034	299	229	0.6	1.38	8	150	< 0.5	< 2	1.32	< 0.5	12	100	738	3.17	< 10	< 1	0.60	20	1.05	155	93
H573035	299	229	0.4	1.11	< 2	110	< 0.5	< 2	1.51	< 0.5	10	111	505	2.91	< 10	< 1	0.44	30	0.92	155	112
H573036	299	229	0.4	1.07	6	70	< 0.5	< 2	1.31	< 0.5	14	101	637	3.66	< 10	< 1	0.43	20	0.87	150	137
H573037	299	229	0.2	1.67	2	80	< 0.5	< 2	1.70	< 0.5	13	105	495	4.32	10	< 1	0.67	30	1.23	190	219
H573038	299	229	1.6	1.08	30	70	< 0.5	< 2	1.19	< 0.5	14	118	671	4.74	10	< 1	0.51	20	0.98	340	160
H573039	299	229	0.6	1.27	6	90	< 0.5	< 2	1.03	< 0.5	11	76	639	3.28	10	< 1	0.62	20	1.14	140	125

CERTIFICATION: Ian Bichler

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WHITEHORSE, YT
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Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-JUL-93
Invoice No. :I9316258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H573000	299	229	0.02	14	550	64	40	4	27	0.02	< 10	< 10	29	< 10	316
H573001	299	229	0.01	14	540	604	36	2	19	< 0.01	< 10	< 10	21	< 10	1470
H573002	299	229	0.05	16	420	14	2	4	24	0.04	10	< 10	45	< 10	52
H573003	299	229	0.02	16	600	14	2	4	26	0.05	10	< 10	44	70	60
H573004	299	229	0.03	12	520	12	2	4	26	0.06	10	< 10	43	< 10	38
H573005	299	229	0.02	14	750	20	< 2	3	19	0.05	10	< 10	31	< 10	36
H573006	299	229	0.05	13	550	10	< 2	3	28	0.04	< 10	< 10	28	< 10	20
H573007	299	229	0.04	13	550	8	2	2	32	0.02	10	< 10	22	10	26
H573008	299	229	0.02	11	660	36	2	2	44	0.01	10	< 10	16	< 10	104
H573009	299	229	0.02	14	530	6	4	3	24	< 0.01	< 10	< 10	29	< 10	28
H573010	299	229	0.02	17	460	6	< 2	2	20	0.01	< 10	< 10	16	< 10	22
H573011	299	229	0.01	15	440	8	< 2	3	18	0.03	< 10	< 10	25	< 10	30
H573012	299	229	0.03	13	380	22	< 2	5	28	0.03	< 10	< 10	37	< 10	30
H573013	299	229	0.03	11	520	8	< 2	7	24	0.08	10	< 10	57	< 10	32
H573014	299	229	0.03	15	480	8	< 2	5	62	0.05	< 10	< 10	58	< 10	28
H573015	299	229	0.03	14	490	8	2	4	25	0.06	< 10	< 10	50	< 10	26
H573016	299	229	0.03	13	500	16	2	2	50	0.01	< 10	< 10	19	< 10	30
H573017	299	229	0.03	13	470	6	< 2	1	30	< 0.01	< 10	< 10	17	< 10	22
H573018	299	229	0.02	14	410	10	2	2	19	< 0.01	10	< 10	33	< 10	22
H573019	299	229	0.02	11	600	10	< 2	3	17	0.06	< 10	< 10	35	< 10	22
H573020	299	229	0.03	13	480	8	< 2	4	21	0.04	10	< 10	44	< 10	26
H573021	299	229	0.01	13	490	8	2	2	28	0.01	< 10	< 10	19	< 10	22
H573022	299	229	0.01	8	440	8	4	1	19	< 0.01	< 10	< 10	9	< 10	16
H573023	299	229	0.02	7	520	8	2	2	73	0.02	10	< 10	19	< 10	20
H573024	299	229	0.01	10	460	4	< 2	2	41	0.01	< 10	< 10	17	< 10	20
H573025	299	229	0.01	15	480	8	4	1	45	< 0.01	< 10	< 10	12	< 10	24
H573026	299	229	0.02	13	650	8	2	3	32	0.02	< 10	< 10	23	< 10	22
H573027	299	229	0.01	11	700	4	2	2	37	< 0.01	< 10	< 10	11	< 10	12
H573028	299	229	0.03	13	770	10	2	3	68	0.03	10	< 10	27	< 10	20
H573029	299	229	0.02	12	560	6	2	2	131	0.01	< 10	< 10	26	< 10	16
H573030	299	229	0.02	9	650	4	2	3	38	0.01	< 10	< 10	24	< 10	18
H573031	299	229	0.01	8	620	6	4	1	20	< 0.01	< 10	< 10	18	< 10	14
H573032	299	229	0.01	13	590	34	10	3	25	< 0.01	< 10	< 10	24	< 10	38
H573033	299	229	0.01	13	630	8	8	5	34	0.05	< 10	< 10	35	< 10	28
H573034	299	229	0.03	12	650	12	6	3	46	0.04	< 10	< 10	34	< 10	22
H573035	299	229	0.02	11	540	10	4	3	41	0.02	10	< 10	33	< 10	20
H573036	299	229	0.02	12	520	10	2	3	35	0.02	< 10	< 10	32	< 10	20
H573037	299	229	0.01	13	630	8	4	7	63	0.05	10	< 10	44	< 10	22
H573038	299	229	0.02	11	500	16	10	5	33	0.04	< 10	< 10	42	< 10	32
H573039	299	229	0.02	13	670	12	< 2	6	32	0.08	< 10	< 10	55	< 10	20

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H573040	299	229	0.6	1.09	4	40	< 0.5	< 2	1.11	< 0.5	18	148	619	5.90	10	< 1	0.39	10	0.82	120	112
H573041	299	229	0.8	1.16	2	70	< 0.5	< 2	1.20	< 0.5	17	140	966	4.39	10	< 1	0.56	20	0.90	130	164
H573042	299	229	0.8	1.48	4	80	< 0.5	< 2	1.21	< 0.5	13	210	750	4.95	10	< 1	0.64	20	0.97	130	169
H573043	299	229	0.6	1.42	28	110	< 0.5	< 2	1.32	< 0.5	13	168	678	3.90	10	< 1	0.42	20	0.85	230	175
H573044	299	229	0.6	0.69	16	10	< 0.5	< 2	1.05	< 0.5	13	147	591	3.18	< 10	< 1	0.14	10	0.38	315	171
H573045	299	229	1.2	0.34	16	10	< 0.5	2	2.13	< 0.5	14	61	1270	4.42	< 10	< 1	0.13	20	0.64	270	275
H573046	299	229	1.0	0.43	24	10	< 0.5	2	2.83	< 0.5	10	79	711	4.52	< 10	< 1	0.14	10	0.83	410	160
H573047	299	229	0.6	1.20	4	50	< 0.5	< 2	1.30	< 0.5	13	108	466	3.85	10	< 1	0.45	20	0.79	180	199
H573048	299	229	0.6	1.15	6	110	< 0.5	< 2	1.28	< 0.5	11	94	543	5.64	10	< 1	0.40	10	0.78	120	138
H573049	299	229	0.4	1.34	6	140	< 0.5	< 2	1.54	< 0.5	7	97	316	4.04	10	< 1	0.64	20	1.02	130	153
H573050	299	229	0.8	0.90	< 2	50	< 0.5	< 2	1.33	< 0.5	15	76	763	4.89	10	< 1	0.35	10	0.76	100	164
H573051	299	229	0.4	1.00	< 2	50	< 0.5	< 2	1.28	< 0.5	10	131	412	9.28	10	< 1	0.39	10	0.69	155	85
H573052	299	229	1.6	1.26	8	70	< 0.5	< 2	1.18	< 0.5	17	87	1505	3.77	10	< 1	0.65	20	1.06	120	152
H573053	299	229	0.8	1.54	< 2	90	< 0.5	< 2	0.78	< 0.5	13	138	709	3.76	10	< 1	0.77	20	1.16	140	216
H573054	299	229	1.4	0.99	2	60	< 0.5	< 2	0.69	< 0.5	15	57	1515	4.33	10	< 1	0.49	20	0.87	110	203
H573055	299	229	0.6	1.26	< 2	60	< 0.5	< 2	0.64	< 0.5	11	63	647	4.05	10	< 1	0.64	10	1.11	135	179
H573056	299	229	0.8	1.18	4	80	< 0.5	< 2	0.81	< 0.5	15	57	608	4.57	10	< 1	0.62	20	1.02	145	186
H573057	299	229	1.0	1.39	2	100	< 0.5	< 2	0.60	< 0.5	13	143	991	5.39	10	< 1	0.74	20	1.06	210	174
H573058	299	229	0.8	1.70	6	110	< 0.5	< 2	0.86	< 0.5	22	140	893	4.87	10	< 1	0.92	20	1.31	170	144
H573059	299	229	0.4	0.93	6	40	< 0.5	< 2	1.66	< 0.5	7	59	363	3.78	10	< 1	0.47	10	0.83	110	148
H573060	299	229	1.0	1.32	8	80	< 0.5	< 2	1.54	< 0.5	11	154	941	4.99	10	< 1	0.72	20	0.97	140	208
H573061	299	229	0.6	1.16	4	60	< 0.5	4	0.94	< 0.5	15	70	808	5.82	10	< 1	0.60	20	1.00	135	59
H573062	299	229	0.2	1.26	< 2	80	< 0.5	< 2	1.22	< 0.5	12	128	301	5.27	10	< 1	0.63	10	1.05	130	64
H573063	299	229	0.4	1.28	6	40	< 0.5	< 2	1.68	< 0.5	7	92	372	2.84	10	< 1	0.33	20	0.98	100	48
H573064	299	229	0.4	1.42	< 2	80	< 0.5	< 2	1.35	< 0.5	17	114	340	5.03	10	< 1	0.80	20	1.27	135	30
H573065	299	229	0.4	1.20	4	60	< 0.5	< 2	1.57	< 0.5	12	75	364	5.02	10	< 1	0.65	10	1.09	115	32
H573066	299	229	0.4	1.29	< 2	70	< 0.5	< 2	1.54	< 0.5	11	94	407	3.96	10	< 1	0.70	10	1.18	125	36
A826	299	229	1.0	1.56	< 2	90	< 0.5	< 2	0.20	< 0.5	27	63	2030	5.49	< 10	< 1	0.75	10	0.91	165	165
A827	299	229	1.6	1.64	8	90	< 0.5	< 2	0.45	< 0.5	30	127	1435	5.91	10	< 1	0.76	20	0.87	345	127
A828	299	229	0.2	1.05	12	180	< 0.5	2	2.16	< 0.5	7	83	200	1.94	< 10	< 1	0.42	20	0.63	185	51
A829	299	229	1.4	1.50	< 2	120	< 0.5	< 2	1.27	< 0.5	18	138	1525	4.61	10	< 1	0.77	20	1.02	195	211
A830	299	229	0.8	0.74	6	70	< 0.5	< 2	1.05	< 0.5	17	77	1275	3.61	< 10	< 1	0.43	10	0.87	140	271
A831	299	229	0.4	1.85	4	90	< 0.5	< 2	1.26	< 0.5	13	133	541	3.98	10	< 1	0.67	30	1.11	175	269
A832	299	229	0.6	1.48	< 2	130	< 0.5	< 2	0.61	< 0.5	12	169	669	4.74	10	< 1	0.84	20	1.09	180	136

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-162
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-JUL-93
Invoice No. : 19316258
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316258

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H573040	299	229	0.03	15	390	8	< 2	5	47	0.03	< 10	< 10	64	< 10	20
H573041	299	229	0.04	13	430	12	< 2	6	41	0.06	< 10	< 10	57	< 10	22
H573042	299	229	0.06	13	440	10	2	6	35	0.06	< 10	< 10	57	< 10	22
H573043	299	229	0.02	12	540	6	8	6	47	0.02	10	< 10	43	< 10	28
H573044	299	229	< 0.01	11	530	6	8	4	15	< 0.01	< 10	< 10	33	< 10	28
H573045	299	229	< 0.01	9	450	12	12	3	19	< 0.01	< 10	< 10	23	< 10	26
H573046	299	229	< 0.01	9	510	14	16	3	21	< 0.01	< 10	< 10	23	< 10	26
H573047	299	229	0.01	12	610	6	2	6	45	0.02	< 10	< 10	48	< 10	18
H573048	299	229	0.01	13	400	10	2	4	258	0.03	< 10	< 10	62	< 10	22
H573049	299	229	0.02	12	550	8	< 2	6	156	0.07	< 10	< 10	53	< 10	20
H573050	299	229	0.02	10	390	8	2	4	102	0.03	< 10	< 10	47	< 10	20
H573051	299	229	0.07	13	260	16	< 2	6	89	0.04	< 10	< 10	81	< 10	26
H573052	299	229	0.03	15	600	10	2	6	42	0.08	< 10	< 10	61	< 10	24
H573053	299	229	0.06	13	570	6	< 2	8	25	0.09	< 10	< 10	74	< 10	24
H573054	299	229	0.02	13	530	4	< 2	5	16	0.07	< 10	< 10	58	< 10	24
H573055	299	229	0.02	11	370	4	< 2	8	16	0.09	< 10	< 10	64	< 10	22
H573056	299	229	0.03	12	770	6	< 2	7	21	0.09	< 10	< 10	61	< 10	26
H573057	299	229	0.05	15	510	8	< 2	7	23	0.10	10	< 10	68	< 10	32
H573058	299	229	0.07	16	610	6	< 2	9	27	0.13	10	< 10	69	< 10	30
H573059	299	229	0.01	9	390	8	< 2	4	80	0.06	< 10	< 10	44	< 10	18
H573060	299	229	0.04	14	570	6	< 2	5	85	0.08	< 10	< 10	49	< 10	24
H573061	299	229	0.02	14	500	10	< 2	7	27	0.08	< 10	< 10	59	< 10	26
H573062	299	229	0.04	12	490	8	< 2	7	86	0.09	< 10	< 10	69	< 10	20
H573063	299	229	0.07	8	610	6	2	3	58	0.06	< 10	< 10	39	< 10	18
H573064	299	229	0.03	14	390	8	< 2	10	87	0.11	< 10	< 10	84	< 10	22
H573065	299	229	0.02	13	440	6	< 2	6	59	0.10	< 10	< 10	66	< 10	20
H573066	299	229	0.03	12	590	8	< 2	5	50	0.11	< 10	< 10	59	< 10	20
A826	299	229	0.01	15	830	6	< 2	4	6	0.06	< 10	< 10	42	< 10	54
A827	299	229	0.03	14	430	14	< 2	4	17	0.06	< 10	< 10	33	< 10	58
A828	299	229	0.01	4	660	6	2	1	29	< 0.01	< 10	< 10	8	< 10	14
A829	299	229	0.03	13	1770	4	2	4	23	0.05	10	< 10	39	< 10	26
A830	299	229	0.02	15	590	6	< 2	2	25	0.02	< 10	< 10	20	< 10	24
A831	299	229	0.02	12	590	8	2	6	153	0.06	10	< 10	45	< 10	22
A832	299	229	0.07	14	560	8	< 2	7	28	0.11	10	< 10	64	< 10	28

CERTIFICATION: David Bichler

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WHITEHORSE, YT
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Project : CASINO 93/163
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N :1
Total Pag :3
Certificate Date: 29-JUN-93
Invoice No. :I9316028
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316028

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t RUSH	Weight grams						
H568697	258	293	< 0.01	0.005	0.10	9020						
H568698	258	293	< 0.01	0.005	0.21	10020						
H568699	258	293	< 0.01	0.005	0.14	10460						
H568700	258	293	< 0.01	0.006	0.14	10420						
H568701	258	293	0.01	0.008	0.10	10460						
H568702	258	293	< 0.01	0.006	0.10	11060						
H568703	258	293	< 0.01	0.006	0.17	11280						
H568704	258	293	< 0.01	0.007	0.10	11220						
H568705	258	293	< 0.01	0.006	0.21	10920						
H568706	258	293	< 0.01	0.007	0.17	11460						
H568707	258	293	< 0.01	0.008	0.21	10820						
H568708	258	293	< 0.01	0.006	0.17	11120						
H568709	258	273	< 0.01	0.007	0.14	12020						
H568710	258	293	< 0.01	0.006	0.17	11480						
H568711	258	293	0.01	0.006	0.14	11260						
H568712	258	273	0.01	0.008	0.07	11920						
H568713	258	273	< 0.01	0.007	0.10	12200						
H568714	258	293	< 0.01	0.009	0.17	11700						
H568715	258	293	< 0.01	0.008	0.10	11400						
H568716	258	293	< 0.01	0.008	0.07	11240						
H568717	258	293	< 0.01	0.006	0.21	10720						
H568718	258	293	< 0.01	0.009	0.24	10100						
H568719	258	273	< 0.01	0.005	0.14	12200						
H568720	258	293	< 0.01	0.009	0.62	11500						
H568721	258	293	< 0.01	0.009	0.24	10140						
H568722	258	293	0.01	0.008	0.07	10900						
H568723	258	273	< 0.01	0.006	0.10	11840						
H568724	258	293	< 0.01	0.008	0.21	9500						
H568725	258	293	< 0.01	0.008	0.07	10500						
H568726	258	273	0.06	0.004	0.10	12380						
H568727	258	273	0.05	0.005	0.10	12420						
H568728	258	273	0.08	0.011	0.10	13260						
H568729	258	273	0.03	0.005	0.07	13860						
H568730	258	293	0.12	0.010	0.07	11380						
H568731	258	273	0.24	0.011	< 0.03	12340						
H568732	258	273	0.07	0.004	0.07	13040						
H568733	258	293	0.05	0.007	0.10	11100						
H568734	258	273	0.07	0.015	0.07	12900						
H568735	258	273	0.08	0.009	0.07	12640						
H568736	258	293	0.09	0.008	0.07	11000						

CERTIFICATION: _____

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 93/163
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-JUN-93
Invoice No. : I9316028
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316028

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t RUSH	Weight grams						
H568737	258	273	0.08	0.020	< 0.03	11950						
H568738	258	273	0.11	0.004	0.21	13140						
H568739	258	293	0.09	0.005	0.07	10840						
H568740	258	273	0.05	0.008	0.07	12680						
H568741	258	293	0.06	0.007	0.07	10920						
H568742	258	273	0.01	0.006	0.07	14220						
H568743	258	273	0.01	0.009	0.03	12540						
H568744	258	273	0.07	0.007	0.07	12480						
H568745	258	273	0.02	0.003	0.07	13300						
H568746	258	293	0.18	0.006	0.48	11580						
H568747	258	273	0.06	0.012	0.07	12700						
H568748	258	273	0.03	0.003	0.10	12150						
H568749	258	273	0.01	0.004	0.03	13860						
H568750	258	273	0.25	0.003	< 0.03	12760						
H568751	258	273	0.02	0.004	0.07	12450						
H568752	258	273	0.06	0.003	0.10	13340						
H568753	258	273	0.05	0.005	0.07	13540						
H568754	258	273	0.05	0.006	0.07	12960						
H568755	258	273	0.14	0.006	0.17	13480						
H568756	258	273	0.09	0.004	0.14	13930						
H568757	258	273	0.09	0.006	0.07	13100						
H568758	258	273	0.08	0.006	0.14	13260						
H568759	258	273	0.04	0.003	0.17	13880						
H568760	258	273	0.10	0.014	0.21	13700						
H568761	258	273	0.11	0.010	0.21	13090						
H568762	258	273	0.12	0.010	0.31	12450						
H568763	258	273	0.06	0.005	0.14	13300						
H568764	258	273	0.04	0.003	0.07	13080						
H568765	258	273	0.02	0.003	< 0.03	12900						
H568766	258	273	0.02	0.004	< 0.03	13200						
H568767	258	273	0.03	0.017	0.14	12680						
H568768	258	273	0.02	0.012	0.07	12840						
H568769	258	273	0.11	0.037	0.14	13720						
H568770	258	273	0.01	0.006	0.14	12060						
H568771	258	273	0.01	0.002	0.14	13080						
H568772	258	273	0.01	0.004	0.03	12720						
H568773	258	273	0.01	0.004	0.10	13720						
H568774	258	273	0.03	0.005	0.10	12300						
H568775	258	273	0.03	0.002	0.14	13160						
H568776	258	273	0.03	0.003	0.17	13000						

CERTIFICATION: A Smythe

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Project : CASINO 93/163
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pa. :3
Certificate Date: 29-JUN-93
Invoice No. : I9316028
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316028

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t RUSH	Weight grams						
H568777	258	292	0.03	0.001	0.21	12260						
H568778	258	292	0.05	0.003	0.24	12200						
H568779	258	292	0.05	0.012	0.17	12760						
H568780	258	292	0.05	0.002	0.14	14480						
H568781	258	292	0.03	0.002	0.10	13640						
H568782	258	292	0.03	0.001	0.27	12420						
H568783	258	292	0.02	0.001	0.17	13420						
H568784	258	292	0.02	0.001	0.31	12780						
H568785	258	292	0.05	0.001	0.31	13420						
H568786	258	292	0.04	0.001	0.21	12500						
H568787	258	292	0.03	0.001	0.10	13000						
H568788	258	292	0.06	0.002	0.03	13660						
H568789	258	292	0.03	0.002	0.03	13460						
H568790	258	292	0.06	0.001	0.07	13200						
H568791	258	292	0.02	0.002	0.03	13720						
H568792	258	292	0.04	0.007	0.10	13960						
H568793	258	292	0.04	0.007	0.07	14160						
H568794	258	292	0.03	0.002	0.10	13680						
H568795	258	292	0.02	0.001	0.07	13760						
H568796	258	292	0.02	0.001	< 0.03	12460						
H568797	258	292	0.03	0.002	0.03	12720						
H568798	258	292	0.04	0.003	0.07	12160						
H568799	258	292	0.05	0.002	0.03	17260						
801	258	292	< 0.01	0.006	0.17	5840						
802	258	292	0.07	0.019	0.07	5940						
803	258	292	0.09	0.006	0.10	7020						
804	258	292	0.03	0.001	0.21	7100						
805	258	292	0.03	0.003	0.07	6680						

CERTIFICATION: A Chatterton

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 93/163
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu. :1-A
Total Pag :3
Certificate Date: 29-JUN-93
Invoice No. :I9316029
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316029

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#568697	299	229	3.2	0.44	24	180	< 0.5	12	0.03	< 0.5	< 1	77	19	4.19	< 10	< 1	1.06	< 10	0.03	5	31
#568698	299	229	2.2	0.39	32	160	< 0.5	8	0.02	< 0.5	< 1	69	18	4.28	< 10	< 1	1.06	10	0.03	5	33
#568699	299	229	1.2	0.41	30	160	< 0.5	< 2	0.02	< 0.5	< 1	65	18	3.40	< 10	< 1	0.88	< 10	0.02	5	33
#568700	299	229	2.6	0.21	34	130	< 0.5	6	0.02	< 0.5	< 1	49	34	3.82	< 10	< 1	0.84	< 10	0.01	5	36
#568701	299	229	2.6	0.48	38	120	< 0.5	18	0.02	< 0.5	< 1	72	45	4.34	< 10	< 1	1.10	< 10	0.03	10	43
#568702	299	229	3.6	0.53	32	120	< 0.5	8	0.01	< 0.5	< 1	123	30	4.45	< 10	< 1	1.14	< 10	0.03	10	35
#568703	299	229	1.8	0.24	28	150	< 0.5	14	0.01	< 0.5	< 1	62	29	3.74	< 10	< 1	0.85	10	0.01	5	32
#568704	299	229	1.4	0.24	34	100	< 0.5	< 2	0.01	< 0.5	1	55	29	4.99	< 10	< 1	1.06	10	0.01	5	38
#568705	299	229	2.0	0.22	30	130	< 0.5	6	0.01	< 0.5	< 1	75	23	4.18	< 10	< 1	0.89	10	0.01	5	36
#568706	299	229	4.2	0.31	36	120	< 0.5	16	0.02	< 0.5	1	72	35	4.74	< 10	< 1	1.07	< 10	0.02	5	44
#568707	299	229	4.8	0.34	28	130	< 0.5	10	0.01	< 0.5	< 1	54	29	4.38	< 10	< 1	1.04	20	0.02	5	47
#568708	299	229	3.2	0.41	32	150	< 0.5	< 2	0.01	< 0.5	< 1	91	37	4.71	< 10	< 1	1.08	20	0.03	5	37
#568709	299	229	2.4	0.32	36	140	< 0.5	2	0.01	< 0.5	1	67	28	4.19	< 10	< 1	0.95	10	0.02	5	44
#568710	299	229	2.2	0.34	26	110	< 0.5	2	0.01	< 0.5	< 1	98	24	3.76	< 10	< 1	0.85	10	0.02	5	33
#568711	299	229	1.2	0.56	24	140	< 0.5	2	0.01	< 0.5	< 1	74	65	4.19	< 10	< 1	1.06	20	0.04	5	37
#568712	299	229	1.8	0.64	56	100	< 0.5	< 2	0.01	< 0.5	1	85	67	4.52	< 10	< 1	1.21	20	0.05	10	48
#568713	299	229	1.8	0.49	34	110	< 0.5	2	0.01	< 0.5	< 1	87	26	4.21	< 10	< 1	1.06	20	0.04	5	37
#568714	299	229	1.8	0.47	42	110	< 0.5	< 2	0.01	< 0.5	< 1	88	36	4.83	< 10	< 1	1.16	20	0.04	10	49
#568715	299	229	1.8	0.58	38	230	< 0.5	4	0.01	< 0.5	< 1	90	22	2.66	< 10	< 1	0.72	30	0.06	10	46
#568716	299	229	1.4	0.53	36	140	< 0.5	2	0.01	< 0.5	< 1	118	20	3.74	< 10	< 1	0.92	10	0.04	10	46
#568717	299	229	1.4	0.53	26	150	< 0.5	< 2	0.01	< 0.5	1	110	14	2.62	< 10	< 1	0.76	< 10	0.04	5	32
#568718	299	229	1.8	0.62	44	140	< 0.5	6	0.01	< 0.5	1	145	18	2.86	< 10	< 1	0.76	20	0.05	10	57
#568719	299	229	1.4	0.72	8	350	< 0.5	6	0.01	< 0.5	< 1	115	44	1.38	< 10	< 1	0.60	30	0.07	15	30
#568720	299	229	1.8	0.61	26	240	< 0.5	4	0.01	< 0.5	1	143	21	1.90	< 10	< 1	0.57	20	0.06	15	50
#568721	299	229	1.2	0.69	26	90	< 0.5	< 2	0.01	< 0.5	7	199	24	2.19	< 10	< 1	0.43	10	0.07	15	53
#568722	299	229	1.6	0.71	16	80	< 0.5	10	0.01	< 0.5	6	130	63	2.29	< 10	< 1	0.44	20	0.07	15	46
#568723	299	229	3.0	0.79	14	150	< 0.5	10	0.01	< 0.5	2	124	21	1.84	< 10	< 1	0.55	20	0.08	15	45
#568724	299	229	2.8	0.70	24	250	< 0.5	12	0.02	< 0.5	2	135	21	2.22	< 10	< 1	0.53	30	0.08	15	51
#568725	299	229	2.4	0.46	14	130	< 0.5	6	0.01	< 0.5	2	113	31	0.99	< 10	< 1	0.30	30	0.04	10	49
#568726	299	229	1.4	0.43	34	20	< 0.5	< 2	0.32	< 0.5	15	121	567	4.57	< 10	< 1	0.27	10	0.07	165	24
#568727	299	229	1.0	0.53	26	20	< 0.5	< 2	0.89	< 0.5	19	118	504	4.52	< 10	< 1	0.30	10	0.15	215	30
#568728	299	229	1.2	0.51	26	20	< 0.5	< 2	0.19	< 0.5	17	101	766	4.96	< 10	< 1	0.32	20	0.07	165	67
#568729	299	229	0.6	0.42	34	30	< 0.5	2	0.10	< 0.5	16	94	252	5.20	< 10	< 1	0.24	20	0.04	65	31
#568730	299	229	1.4	0.63	44	30	< 0.5	2	0.04	< 0.5	13	124	1235	5.36	< 10	< 1	0.34	20	0.04	10	65
#568731	299	229	1.2	0.39	40	30	< 0.5	< 2	0.11	1.0	14	65	2530	4.71	< 10	< 1	0.18	30	0.03	200	72
#568732	299	229	1.4	0.81	24	30	< 0.5	2	0.14	1.0	16	95	692	5.09	< 10	< 1	0.36	10	0.07	255	24
#568733	299	229	1.6	0.66	26	20	< 0.5	< 2	0.06	< 0.5	16	108	492	5.67	< 10	< 1	0.36	10	0.06	35	44
#568734	299	229	1.4	0.68	28	30	< 0.5	< 2	0.26	< 0.5	12	119	738	4.27	< 10	< 1	0.34	10	0.12	110	89
#568735	299	229	0.8	0.59	14	30	< 0.5	< 2	0.03	< 0.5	7	96	782	3.25	< 10	< 1	0.31	10	0.05	10	57
#568736	299	229	2.0	0.70	26	30	< 0.5	< 2	0.12	1.0	13	70	926	4.13	< 10	< 1	0.33	10	0.06	195	42

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 93/163
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-JUN-93
Invoice No. :I9316029
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316029

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568697	299	229	0.01	< 1	380	74	2	< 1	17	< 0.01	< 10	< 10	7	< 10	2
H568698	299	229	0.01	< 1	390	52	< 2	< 1	20	< 0.01	< 10	< 10	7	< 10	2
H568699	299	229	0.01	< 1	310	36	< 2	< 1	16	< 0.01	< 10	< 10	5	< 10	2
H568700	299	229	0.01	< 1	320	72	2	< 1	19	< 0.01	< 10	< 10	4	< 10	2
H568701	299	229	0.01	< 1	360	42	< 2	< 1	17	< 0.01	< 10	< 10	7	< 10	2
H568702	299	229	0.01	< 1	340	62	< 2	< 1	15	< 0.01	< 10	< 10	8	< 10	2
H568703	299	229	0.01	< 1	340	36	< 2	< 1	19	< 0.01	< 10	< 10	4	< 10	2
H568704	299	229	0.01	< 1	420	22	< 2	< 1	13	< 0.01	< 10	< 10	8	< 10	2
H568705	299	229	0.01	< 1	340	38	< 2	< 1	16	< 0.01	< 10	< 10	5	< 10	4
H568706	299	229	0.01	< 1	370	126	2	< 1	17	< 0.01	< 10	< 10	7	< 10	2
H568707	299	229	0.01	< 1	360	70	< 2	< 1	14	< 0.01	< 10	< 10	6	< 10	< 2
H568708	299	229	0.01	< 1	440	72	< 2	< 1	20	< 0.01	< 10	< 10	6	< 10	< 2
H568709	299	229	0.01	< 1	450	56	2	1	25	< 0.01	< 10	< 10	5	< 10	< 2
H568710	299	229	0.01	< 1	310	92	< 2	< 1	21	< 0.01	< 10	< 10	5	< 10	2
H568711	299	229	0.02	< 1	490	28	2	< 1	27	< 0.01	< 10	< 10	7	< 10	2
H568712	299	229	0.01	< 1	660	26	2	1	28	< 0.01	< 10	< 10	11	< 10	2
H568713	299	229	0.02	< 1	370	42	< 2	1	20	< 0.01	< 10	< 10	8	< 10	2
H568714	299	229	0.02	< 1	420	68	< 2	1	32	< 0.01	< 10	< 10	9	< 10	2
H568715	299	229	0.01	< 1	500	32	2	1	17	< 0.01	< 10	< 10	8	< 10	4
H568716	299	229	0.02	1	400	32	< 2	< 1	24	< 0.01	< 10	< 10	9	< 10	6
H568717	299	229	0.01	< 1	280	56	2	< 1	24	< 0.01	< 10	< 10	6	< 10	2
H568718	299	229	0.02	2	620	68	< 2	1	72	< 0.01	< 10	< 10	10	< 10	2
H568719	299	229	0.01	< 1	200	24	2	< 1	25	< 0.01	< 10	< 10	6	< 10	6
H568720	299	229	0.01	< 1	140	60	< 2	< 1	15	< 0.01	< 10	< 10	4	< 10	6
H568721	299	229	0.01	5	80	14	< 2	< 1	10	< 0.01	< 10	< 10	6	< 10	2
H568722	299	229	< 0.01	3	90	24	< 2	< 1	22	< 0.01	< 10	< 10	5	< 10	4
H568723	299	229	0.01	1	250	74	< 2	< 1	52	< 0.01	< 10	< 10	6	< 10	4
H568724	299	229	0.01	2	340	70	2	1	58	< 0.01	< 10	< 10	7	< 10	4
H568725	299	229	< 0.01	2	110	28	2	< 1	24	< 0.01	< 10	< 10	3	< 10	6
H568726	299	229	< 0.01	7	380	12	2	1	12	< 0.01	< 10	< 10	3	< 10	28
H568727	299	229	< 0.01	9	540	12	2	< 1	21	< 0.01	< 10	< 10	4	< 10	42
H568728	299	229	< 0.01	8	590	10	< 2	1	33	< 0.01	< 10	< 10	4	< 10	44
H568729	299	229	< 0.01	8	410	10	2	2	11	< 0.01	< 10	< 10	3	< 10	20
H568730	299	229	< 0.01	6	730	26	< 2	6	45	< 0.01	< 10	< 10	4	< 10	6
H568731	299	229	< 0.01	8	470	2	4	1	9	< 0.01	< 10	< 10	3	< 10	96
H568732	299	229	0.01	12	830	36	< 2	3	42	< 0.01	< 10	< 10	7	< 10	86
H568733	299	229	< 0.01	8	340	18	2	2	16	< 0.01	< 10	< 10	4	< 10	28
H568734	299	229	< 0.01	11	520	22	< 2	2	13	< 0.01	< 10	< 10	6	< 10	28
H568735	299	229	< 0.01	4	260	18	< 2	2	14	< 0.01	< 10	< 10	3	< 10	16
H568736	299	229	< 0.01	11	730	28	2	5	27	< 0.01	< 10	< 10	5	< 10	108

CERTIFICATION: Ivan Bichler

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Certificate Date: 29-JUN-93
Invoice No. : I9316029
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316029

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R568737	299	229	2.6	0.90	14	40	< 0.5	8	0.38	0.5	14	159	704	4.26	< 10	< 1	0.45	10	0.17	380	113
R568738	299	229	2.6	0.79	20	30	< 0.5	< 2	0.40	1.0	11	96	1035	4.65	< 10	< 1	0.40	< 10	0.17	195	21
R568739	299	229	0.6	0.86	34	30	< 0.5	< 2	0.09	< 0.5	12	146	907	4.96	< 10	< 1	0.35	10	0.05	30	29
R568740	299	229	0.2	0.74	24	30	< 0.5	2	0.11	< 0.5	13	170	508	5.30	< 10	< 1	0.35	20	0.04	85	41
R568741	299	229	0.6	0.91	44	30	< 0.5	< 2	0.10	< 0.5	11	147	626	4.99	< 10	< 1	0.34	10	0.04	35	42
R568742	299	229	0.2	0.58	30	20	< 0.5	< 2	0.97	< 0.5	15	157	67	4.87	< 10	< 1	0.35	10	0.18	150	36
R568743	299	229	0.4	0.75	32	30	< 0.5	< 2	0.99	< 0.5	16	183	124	4.36	< 10	1	0.40	10	0.22	210	54
R568744	299	229	0.2	1.22	42	40	< 0.5	< 2	0.32	< 0.5	17	149	784	4.77	< 10	< 1	0.39	20	0.09	225	33
R568745	299	229	0.2	0.77	28	20	< 0.5	< 2	0.43	< 0.5	18	126	209	4.93	< 10	< 1	0.38	10	0.13	180	23
R568746	299	229	4.6	1.18	40	30	< 0.5	12	0.29	< 0.5	12	105	1935	4.92	< 10	< 1	0.43	< 10	0.11	135	45
R568747	299	229	0.6	0.98	34	20	< 0.5	4	0.40	< 0.5	18	98	634	5.41	< 10	< 1	0.44	< 10	0.13	300	69
R568748	299	229	0.4	0.81	36	20	< 0.5	< 2	0.71	< 0.5	14	111	316	5.29	< 10	< 1	0.41	< 10	0.18	160	22
R568749	299	229	< 0.2	0.82	30	30	< 0.5	< 2	1.01	< 0.5	13	144	124	4.48	< 10	< 1	0.44	< 10	0.21	220	21
R568750	299	229	0.2	1.10	30	20	< 0.5	< 2	0.46	< 0.5	24	170	2690	5.81	< 10	< 1	0.44	< 10	0.15	190	15
R568751	299	229	0.6	0.87	28	20	< 0.5	< 2	0.93	< 0.5	13	126	248	4.87	< 10	< 1	0.45	< 10	0.28	255	21
R568752	299	229	2.4	0.99	72	40	< 0.5	4	0.24	< 0.5	15	129	570	4.74	< 10	< 1	0.46	< 10	0.13	165	14
R568753	299	229	1.4	0.76	70	30	< 0.5	< 2	1.00	< 0.5	12	145	461	4.29	< 10	2	0.41	< 10	0.25	185	25
R568754	299	229	1.6	1.06	52	60	< 0.5	6	0.77	0.5	11	127	507	3.60	< 10	< 1	0.46	< 10	0.22	270	33
R568755	299	229	3.0	0.76	66	20	< 0.5	8	0.88	1.0	11	112	1290	4.46	< 10	< 1	0.43	< 10	0.30	215	28
R568756	299	229	2.0	0.80	60	40	< 0.5	< 2	0.88	< 0.5	14	96	837	4.35	< 10	< 1	0.40	< 10	0.29	240	21
R568757	299	229	4.8	0.87	72	40	< 0.5	20	0.87	1.0	12	71	904	4.72	< 10	< 1	0.49	< 10	0.36	250	32
R568758	299	229	4.0	0.87	52	30	< 0.5	4	0.55	< 0.5	13	73	776	4.95	< 10	2	0.51	< 10	0.32	255	27
R568759	299	229	0.8	0.67	70	10	< 0.5	< 2	0.32	< 0.5	11	110	384	5.75	< 10	< 1	0.38	< 10	0.16	120	19
R568760	299	229	4.0	0.72	828	20	< 0.5	8	0.79	0.5	12	92	1010	4.97	< 10	< 1	0.40	< 10	0.35	290	71
R568761	299	229	3.8	1.02	238	30	< 0.5	14	0.29	< 0.5	17	97	1150	4.73	< 10	< 1	0.49	< 10	0.19	185	58
R568762	299	229	2.8	0.98	86	20	< 0.5	< 2	0.43	< 0.5	15	146	1235	5.45	< 10	< 1	0.51	< 10	0.24	175	62
R568763	299	229	2.2	0.92	198	30	< 0.5	8	0.89	< 0.5	13	97	661	4.20	< 10	< 1	0.50	< 10	0.36	230	23
R568764	299	229	1.8	0.78	274	60	< 0.5	6	1.75	< 0.5	10	119	416	3.87	< 10	< 1	0.45	< 10	0.52	235	15
R568765	299	229	0.4	0.85	56	50	< 0.5	< 2	1.53	< 0.5	8	116	165	3.70	< 10	1	0.47	< 10	0.46	210	14
R568766	299	229	1.0	0.54	104	60	< 0.5	8	1.42	< 0.5	7	93	193	3.60	< 10	< 1	0.35	< 10	0.42	220	21
R568767	299	229	1.6	0.50	138	60	< 0.5	< 2	1.36	0.5	12	93	282	3.79	< 10	< 1	0.33	< 10	0.42	275	100
R568768	299	229	1.4	0.62	46	80	< 0.5	< 2	1.54	< 0.5	9	90	243	3.81	< 10	< 1	0.38	< 10	0.51	320	67
R568769	299	229	4.2	0.61	54	30	< 0.5	< 2	1.61	< 0.5	12	140	1095	5.39	< 10	< 1	0.37	< 10	0.49	260	215
R568770	299	229	0.6	0.75	162	70	< 0.5	< 2	1.67	< 0.5	9	119	141	3.92	< 10	< 1	0.43	< 10	0.52	195	33
R568771	299	229	1.2	0.66	44	30	< 0.5	4	1.55	< 0.5	11	139	147	4.50	< 10	< 1	0.38	< 10	0.34	175	9
R568772	299	229	0.6	0.55	146	60	< 0.5	< 2	1.48	< 0.5	8	91	81	3.77	< 10	< 1	0.35	< 10	0.36	180	24
R568773	299	229	0.4	0.57	406	60	< 0.5	< 2	1.62	< 0.5	9	105	85	3.77	< 10	< 1	0.34	< 10	0.44	170	16
R568774	299	229	0.6	0.71	74	40	< 0.5	4	1.31	< 0.5	10	110	277	4.52	< 10	< 1	0.37	< 10	0.48	185	23
R568775	299	229	1.6	0.70	80	60	< 0.5	< 2	1.59	< 0.5	9	136	306	3.80	< 10	< 1	0.38	< 10	0.39	155	13
R568776	299	229	0.8	0.59	38	70	< 0.5	4	1.62	< 0.5	10	112	321	4.04	< 10	< 1	0.33	< 10	0.40	150	15

CERTIFICATION: Hart Bichler

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Certificate Date: 29-JUN-93
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H568737	299	229	0.01	9	640	28	2	1	13	< 0.01	< 10	< 10	8	< 10	74
H568738	299	229	< 0.01	9	710	30	2	2	47	< 0.01	< 10	< 10	6	< 10	100
H568739	299	229	< 0.01	12	750	12	2	4	69	< 0.01	< 10	< 10	6	< 10	18
H568740	299	229	< 0.01	9	620	16	< 2	4	32	< 0.01	< 10	< 10	6	< 10	24
H568741	299	229	0.01	10	640	16	< 2	4	32	< 0.01	< 10	< 10	6	< 10	16
H568742	299	229	0.01	7	560	14	2	1	29	< 0.01	< 10	< 10	6	< 10	6
H568743	299	229	0.01	9	540	< 2	< 2	1	31	< 0.01	< 10	< 10	7	10	18
H568744	299	229	0.01	11	1050	10	2	3	96	< 0.01	< 10	< 10	10	< 10	104
H568745	299	229	0.01	8	610	6	2	1	24	< 0.01	< 10	< 10	6	< 10	24
H568746	299	229	0.01	10	720	22	< 2	1	13	< 0.01	< 10	< 10	9	< 10	32
H568747	299	229	0.01	9	770	2	2	1	25	< 0.01	< 10	< 10	7	< 10	52
H568748	299	229	0.01	6	730	4	4	1	36	< 0.01	< 10	< 10	5	< 10	14
H568749	299	229	0.01	6	650	4	< 2	1	32	< 0.01	< 10	< 10	7	10	20
H568750	299	229	0.01	11	650	< 2	2	1	20	< 0.01	< 10	< 10	8	< 10	32
H568751	299	229	0.01	8	670	6	2	1	25	< 0.01	< 10	< 10	7	10	30
H568752	299	229	0.01	8	600	10	2	1	13	< 0.01	< 10	< 10	7	< 10	34
H568753	299	229	0.01	9	580	10	2	1	30	< 0.01	< 10	< 10	8	< 10	20
H568754	299	229	0.01	8	710	26	< 2	1	30	< 0.01	< 10	< 10	9	< 10	58
H568755	299	229	0.01	7	560	24	< 2	1	36	< 0.01	< 10	< 10	8	10	66
H568756	299	229	0.01	9	770	10	2	1	49	< 0.01	< 10	< 10	7	< 10	38
H568757	299	229	0.01	9	760	34	2	1	58	< 0.01	< 10	< 10	7	< 10	66
H568758	299	229	0.01	9	670	20	< 2	1	42	< 0.01	< 10	< 10	7	< 10	50
H568759	299	229	0.01	11	580	< 2	< 2	1	22	< 0.01	< 10	< 10	5	< 10	20
H568760	299	229	0.01	7	610	36	2	1	38	< 0.01	< 10	< 10	7	< 10	82
H568761	299	229	0.01	6	660	10	< 2	1	24	< 0.01	< 10	< 10	8	< 10	50
H568762	299	229	0.01	9	660	8	2	1	54	< 0.01	< 10	< 10	9	< 10	26
H568763	299	229	0.01	6	680	8	2	1	44	< 0.01	< 10	< 10	9	< 10	38
H568764	299	229	0.01	6	700	6	4	1	89	< 0.01	< 10	< 10	11	10	22
H568765	299	229	0.01	7	750	< 2	4	1	84	< 0.01	< 10	< 10	10	10	14
H568766	299	229	0.01	4	670	8	4	1	69	< 0.01	< 10	< 10	8	< 10	16
H568767	299	229	0.01	4	630	12	4	1	66	< 0.01	< 10	< 10	9	< 10	46
H568768	299	229	0.01	7	800	2	2	1	71	< 0.01	< 10	< 10	11	< 10	38
H568769	299	229	0.01	7	570	4	4	1	82	< 0.01	< 10	< 10	11	10	18
H568770	299	229	0.01	5	680	2	< 2	1	92	< 0.01	< 10	< 10	11	< 10	24
H568771	299	229	0.01	7	680	4	2	1	74	< 0.01	< 10	< 10	10	< 10	12
H568772	299	229	0.01	6	670	4	2	1	69	< 0.01	< 10	< 10	8	< 10	24
H568773	299	229	0.01	6	650	8	2	1	85	< 0.01	< 10	< 10	9	< 10	14
H568774	299	229	0.01	6	660	< 2	2	1	111	< 0.01	< 10	< 10	11	< 10	16
H568775	299	229	0.01	8	660	4	2	1	110	< 0.01	< 10	< 10	9	< 10	12
H568776	299	229	0.01	6	650	4	4	1	137	< 0.01	< 10	< 10	9	< 10	30

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H568777	299	229	1.6	0.48	26	40	< 0.5	12	1.58	< 0.5	8	43	223	3.93	< 10	< 1	0.28	< 10	0.39	155	7
H568778	299	229	1.2	0.49	36	30	< 0.5	16	1.55	< 0.5	8	47	498	3.88	< 10	< 1	0.29	< 10	0.43	150	14
H568779	299	229	1.4	0.48	38	40	< 0.5	12	1.68	< 0.5	7	37	485	3.83	< 10	< 1	0.28	< 10	0.42	135	80
H568780	299	229	1.2	0.51	24	40	< 0.5	10	1.57	< 0.5	7	51	544	3.70	< 10	< 1	0.31	< 10	0.39	120	9
H568781	299	229	1.0	0.50	26	40	< 0.5	6	2.20	< 0.5	4	34	314	3.56	< 10	< 1	0.29	< 10	0.47	165	9
H568782	299	229	0.4	0.54	34	70	< 0.5	10	1.71	< 0.5	4	56	300	3.59	< 10	< 1	0.36	< 10	0.48	170	9
H568783	299	229	0.2	0.54	32	50	< 0.5	12	2.44	< 0.5	4	44	191	3.38	< 10	< 1	0.32	< 10	0.57	185	5
H568784	299	229	< 0.2	0.67	24	70	< 0.5	8	2.75	< 0.5	6	52	198	3.75	< 10	< 1	0.34	< 10	0.71	185	7
H568785	299	229	1.0	0.63	30	80	< 0.5	24	1.91	< 0.5	4	43	502	3.48	< 10	< 1	0.39	< 10	0.46	130	6
H568786	299	229	0.8	0.67	26	80	< 0.5	20	1.93	< 0.5	6	54	369	3.72	< 10	< 1	0.41	< 10	0.53	155	4
H568787	299	229	0.8	0.53	24	70	< 0.5	12	1.86	< 0.5	6	39	354	3.38	< 10	< 1	0.33	< 10	0.45	150	8
H568788	299	229	1.0	0.78	38	60	< 0.5	22	1.38	< 0.5	9	51	609	4.08	< 10	< 1	0.39	< 10	0.47	135	10
H568789	299	229	0.6	0.61	30	30	< 0.5	10	1.53	< 0.5	8	40	243	4.50	< 10	< 1	0.32	< 10	0.42	120	10
H568790	299	229	1.2	0.64	20	20	< 0.5	12	1.24	< 0.5	8	63	544	4.12	< 10	< 1	0.34	< 10	0.38	105	8
H568791	299	229	0.6	0.59	50	40	< 0.5	14	1.65	< 0.5	7	45	186	3.61	< 10	< 1	0.32	< 10	0.48	130	10
H568792	299	229	1.2	0.54	32	60	< 0.5	14	1.99	< 0.5	4	44	366	3.29	< 10	< 1	0.31	< 10	0.57	150	40
H568793	299	229	0.6	0.55	30	70	< 0.5	16	1.96	< 0.5	5	40	395	3.55	< 10	< 1	0.34	< 10	0.56	140	42
H568794	299	229	0.6	0.53	62	70	< 0.5	16	2.21	< 0.5	8	45	369	3.41	< 10	< 1	0.33	< 10	0.52	150	8
H568795	299	229	0.2	0.44	28	80	< 0.5	10	3.13	< 0.5	4	26	158	2.74	< 10	< 1	0.26	< 10	0.54	145	6
H568796	299	229	0.2	0.55	18	30	< 0.5	14	2.13	< 0.5	6	45	226	3.24	< 10	< 1	0.28	< 10	0.41	110	6
H568797	299	229	0.6	0.52	50	20	< 0.5	14	1.80	< 0.5	7	46	266	4.67	< 10	< 1	0.31	< 10	0.39	115	12
H568798	299	229	0.8	0.53	28	40	< 0.5	14	1.74	< 0.5	8	48	419	3.79	< 10	< 1	0.30	< 10	0.40	120	10
H568799	299	229	0.8	0.52	54	30	< 0.5	30	1.93	< 0.5	8	35	497	3.62	< 10	< 1	0.30	< 10	0.46	135	10
801	299	229	1.0	0.39	28	220	< 0.5	2	0.01	< 0.5	< 1	80	25	2.69	< 10	< 1	0.68	10	0.04	5	36
802	299	229	2.6	0.54	8	60	< 0.5	8	0.41	< 0.5	13	39	710	4.08	< 10	< 1	0.29	< 10	0.16	370	103
803	299	229	3.8	0.67	90	40	< 0.5	20	0.86	1.0	12	67	985	4.83	< 10	< 1	0.39	< 10	0.36	245	30
804	299	229	0.6	0.72	38	70	< 0.5	8	1.68	< 0.5	8	72	279	4.08	< 10	< 1	0.40	< 10	0.44	160	6
805	299	229	0.6	0.64	52	20	< 0.5	12	1.80	< 0.5	7	48	310	4.69	< 10	< 1	0.35	< 10	0.43	115	18

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93/163
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-JUN-93
Invoice No. :19316029
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316029

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R568777	299	229	0.01	6	660	70	2	1	157	< 0.01	< 10	< 10	5	< 10	16
R568778	299	229	0.01	6	590	14	< 2	1	144	< 0.01	< 10	< 10	6	< 10	20
R568779	299	229	0.01	5	650	32	2	1	119	< 0.01	< 10	< 10	3	< 10	20
R568780	299	229	0.01	4	620	16	< 2	1	82	< 0.01	< 10	< 10	4	< 10	16
R568781	299	229	0.01	3	660	32	< 2	1	92	< 0.01	< 10	< 10	4	< 10	16
R568782	299	229	0.01	2	680	8	< 2	1	90	< 0.01	< 10	< 10	4	< 10	16
R568783	299	229	0.01	2	750	18	< 2	1	122	< 0.01	< 10	< 10	6	< 10	18
R568784	299	229	0.01	3	740	8	< 2	1	163	< 0.01	< 10	< 10	8	< 10	18
R568785	299	229	0.01	2	690	12	2	1	108	< 0.01	< 10	< 10	5	< 10	16
R568786	299	229	0.01	2	700	8	< 2	1	91	< 0.01	< 10	< 10	6	< 10	16
R568787	299	229	0.01	3	730	28	< 2	1	85	< 0.01	< 10	< 10	4	< 10	18
R568788	299	229	0.01	10	760	4	< 2	1	77	< 0.01	< 10	< 10	8	< 10	26
R568789	299	229	0.01	10	700	12	< 2	1	84	< 0.01	< 10	< 10	8	< 10	14
R568790	299	229	0.01	11	680	6	< 2	1	84	< 0.01	< 10	< 10	6	< 10	18
R568791	299	229	0.01	8	680	8	< 2	1	80	< 0.01	< 10	< 10	7	< 10	12
R568792	299	229	0.01	3	630	10	< 2	1	90	< 0.01	< 10	< 10	6	< 10	22
R568793	299	229	0.01	3	650	12	< 2	1	109	< 0.01	< 10	< 10	5	< 10	18
R568794	299	229	0.01	11	820	12	< 2	1	103	< 0.01	< 10	< 10	7	< 10	16
R568795	299	229	0.01	3	730	16	< 2	1	171	< 0.01	< 10	< 10	4	< 10	8
R568796	299	229	0.01	6	700	8	< 2	1	123	< 0.01	< 10	< 10	4	< 10	12
R568797	299	229	0.01	9	690	12	2	1	81	< 0.01	< 10	< 10	6	< 10	18
R568798	299	229	0.01	11	760	6	< 2	1	74	< 0.01	< 10	< 10	4	< 10	14
R568799	299	229	0.01	11	780	14	< 2	1	90	< 0.01	< 10	< 10	4	< 10	14
801	299	229	0.01	< 1	410	52	< 2	1	19	< 0.01	< 10	< 10	3	< 10	4
802	299	229	< 0.01	6	570	28	< 2	1	14	< 0.01	< 10	< 10	2	< 10	74
803	299	229	0.01	9	690	32	< 2	1	57	< 0.01	< 10	< 10	3	< 10	70
804	299	229	0.01	6	720	4	< 2	1	163	< 0.01	< 10	< 10	7	< 10	14
805	299	229	0.01	8	690	12	< 2	1	84	< 0.01	< 10	< 10	7	< 10	18

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :I9317163
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317163

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574501 H	208 273	0.13	0.053	0.72	13680
574502 H	208 276	0.47	0.050	0.82	10940
574503 H	208 276	0.29	0.053	0.41	8040
574504 H	208 276	0.26	0.034	0.34	11320
574505 H	208 274	0.21	0.040	0.75	6200
574506 H	208 276	1.01	0.049	0.79	11180
574507 H	208 276	0.13	0.108	0.58	11360
574508 H	208 276	0.11	0.076	0.79	11160
574509 H	208 276	0.33	0.062	0.79	10800
574510 H	208 273	0.87	0.039	0.86	13000
574511 H	208 276	0.46	0.055	1.23	11580
574512 H	208 273	0.84	0.068	0.86	12020
574513 H	208 273	0.60	0.042	0.99	12220
574514 H	208 276	0.42	0.042	0.62	10560
574515 H	208 276	0.29	0.075	0.75	11460
574516 H	208 276	0.07	0.048	0.38	8180
574517 H	208 274	0.08	0.065	0.34	5600
574518 H	208 276	0.08	0.054	0.38	9560
574519 H	208 276	0.07	0.042	0.24	11000
574520 H	208 276	0.05	0.044	0.45	7620
574521 H	208 276	0.06	0.046	0.17	10900
574522 H	208 273	0.05	0.051	0.58	14600
574523 H	208 276	0.05	0.069	0.58	8420
574524 H	208 276	0.04	0.056	0.62	8240
574525 H	208 274	0.06	0.086	0.58	5100
574526 H	208 276	0.11	0.063	0.58	7640
574527 H	208 274	0.07	0.052	0.51	5440
574528 H	208 276	0.08	0.104	0.58	8740
574529 H	208 273	0.11	0.109	0.41	12300
574530 H	208 273	0.35	0.057	0.69	14660
574531 H	208 276	0.46	0.097	0.86	10840
574532 H	208 276	0.33	0.035	0.45	11760
574533 H	208 273	0.25	0.036	0.27	11960
574534 H	208 276	0.33	0.032	0.51	8520
574535 H	208 276	0.09	0.030	0.21	11660
574536 H	208 276	0.13	0.042	0.17	11800
574537 H	208 276	0.35	0.066	0.38	11620
574538 H	208 273	0.38	0.049	0.45	11980
574539 H	208 273	0.33	0.045	0.38	11940
574540 H	208 273	0.34	0.018	0.21	11940

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9317163

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574541 H	208 276	0.46	0.054	0.41	11540
574542 H	208 276	0.36	0.040	0.27	10400
574543 H	208 276	0.43	0.031	0.24	8840
574544 H	208 274	0.54	0.059	0.21	7020
574545 H	208 276	0.40	0.024	0.21	9640
574546 H	208 276	0.41	0.025	0.21	10320
574547 H	208 276	0.46	0.056	0.24	7840
574548 H	208 276	0.53	0.101	0.31	9940
574549 H	208 276	0.27	0.051	0.27	10200
574550 H	208 274	0.38	0.027	0.41	6640
574551 H	208 276	0.33	0.030	0.41	9740
574552 H	208 276	0.28	0.065	0.38	10880
574553 H	208 276	0.38	0.031	0.27	8780
574554 H	208 274	0.40	0.110	0.14	6220
574555 H	208 276	0.35	0.047	0.24	11480
574556 H	208 274	0.31	0.061	0.24	5540
574557 H	208 276	0.44	0.100	0.31	9860
574558 H	208 276	0.48	0.160	0.41	9680
574559 H	208 276	0.27	0.032	0.34	11580
574560 H	208 276	0.53	0.059	0.31	10060
574561 H	208 276	0.31	0.047	0.21	8500
574562 H	208 274	0.26	0.042	0.21	6940
574563 H	208 276	0.32	0.113	0.24	11620
574564 H	208 274	0.31	0.051	0.24	7100
574565 H	208 274	0.26	0.071	0.41	6740
574566 H	208 274	0.35	0.029	0.34	6760
574567 H	208 273	0.40	0.036	0.45	12700
574568 H	208 276	0.41	0.040	0.58	8240
574569 H	208 276	0.32	0.039	0.27	10860
574570 H	208 274	0.37	0.059	0.24	4600
574571 H	208 273	0.25	0.032	0.24	12960
574572 H	208 273	0.36	0.185	0.24	12380
574573 H	208 273	0.14	0.051	0.14	12880
574574 H	208 276	0.22	0.043	0.24	7520
574575 H	208 273	0.22	0.054	0.17	11820
574576 H	208 273	0.42	0.077	0.48	12280
574577 H	208 273	0.22	0.044	0.27	13160
574578 H	208 273	0.30	0.051	0.38	14360
574579 H	208 273	0.42	0.068	0.34	13280
574580 H	208 273	0.27	0.033	0.34	14400

CERTIFICATION:

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Certificate Date: 20-JUL-93
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CERTIFICATE OF ANALYSIS A9317163

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
574581 H	208	273	0.51	0.057	0.69	12320						
574582 H	208	276	0.22	0.078	0.24	9620						
574583 H	208	276	0.26	0.089	0.17	9660						
574584 H	208	273	0.17	0.030	0.10	13260						
574585 H	208	273	0.22	0.041	0.24	16000						
574586 H	208	273	0.31	0.041	0.38	13360						
574587 H	208	274	0.47	0.038	0.41	6420						
574588 H	208	273	0.36	0.041	0.45	12560						
574589 H	208	273	0.42	0.042	0.58	16000						
574590 H	208	274	0.38	0.033	0.75	7180						
574591 H	208	273	0.45	0.033	0.55	12680						
574592 H	208	273	0.42	0.053	0.55	12700						
574593 H	208	276	0.29	0.069	0.34	9240						
574594 H	208	273	0.32	0.044	0.48	12800						
574595 H	208	273	0.30	0.014	0.45	12980						
574596 H	208	273	0.30	0.155	0.45	12940						
574597 H	208	273	0.29	0.160	0.48	13500						
574598 H	208	273	0.28	0.129	0.34	12800						
574599 H	208	273	0.31	0.104	0.45	12560						
574600 H	208	273	0.27	0.106	0.38	13000						
574601 H	208	273	0.22	0.253	0.45	13580						
574602 H	208	273	0.13	0.046	0.17	12840						
574603 H	208	273	0.22	0.046	0.34	13040						
574604 H	208	273	0.21	0.050	0.24	12540						
574605 H	208	273	0.35	0.051	0.38	12020						
574606 H	208	273	0.27	0.038	0.38	13640						
574607 H	208	273	0.21	0.013	0.31	12960						
574608 H	208	273	0.28	0.035	0.31	13540						
574609 H	208	273	0.25	0.033	0.21	14640						
574610 H	208	273	0.23	0.027	0.75	13500						
574611 H	208	273	0.30	0.074	0.51	12660						
574612 H	208	276	0.25	0.095	0.34	11480						
574613 H	208	273	0.20	0.136	0.31	12840						
574614 H	208	273	0.19	0.187	0.34	13000						
574615 H	208	273	0.20	0.110	0.24	12540						
574616 H	208	273	0.26	0.093	0.31	12040						
574617 H	208	273	0.22	0.213	0.27	12960						
574618 H	208	273	0.26	0.036	0.38	13780						
574619 H	208	273	0.21	0.089	0.21	12900						
574620 H	208	273	0.20	0.078	0.21	12740						

CERTIFICATION: Mark Vont

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Project : CASINO 164
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CERTIFICATE OF ANALYSIS A9317163

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
574621 H	208	273	0.26	0.076	0.24	13240						
574622 H	208	273	0.37	0.093	0.51	12580						
574623 H	208	273	0.32	0.068	0.38	13220						
574624 H	208	273	0.18	0.103	0.27	12720						
574625 H	208	273	0.17	0.112	0.14	12640						
574626 H	208	273	0.18	0.052	0.17	12240						
574627 H	208	276	0.10	0.042	0.14	11680						
574628 H	208	273	0.29	0.069	0.45	13580						
574629 H	208	273	0.19	0.029	0.21	12200						
574630 H	208	273	0.26	0.077	0.38	12500						
574631 H	208	273	0.21	0.061	0.27	12660						
574632 H	208	273	0.28	0.060	0.38	11940						
574633 H	208	273	0.29	0.065	0.38	12840						
574634 H	208	273	0.29	0.071	0.41	12680						
574635 H	208	273	0.37	0.048	0.41	12460						
574636 H	208	273	0.40	0.072	0.58	12920						
574637 H	208	273	0.22	0.079	0.27	13020						
574638 H	208	276	0.24	0.052	0.17	11500						
574639 H	208	273	0.31	0.050	0.27	12600						
574640 H	208	276	0.28	0.371	0.31	11700						
574641 H	208	273	0.31	0.140	0.34	12120						
574642 H	208	273	0.35	0.072	0.45	13020						
574643 H	208	273	0.32	0.045	0.31	13360						
574644 H	208	273	0.32	0.158	0.38	14120						
574645 H	208	273	0.25	0.087	0.27	13440						
574646 H	208	273	0.26	0.081	0.24	12480						
574647 H	208	273	0.26	0.126	0.31	13460						
574648 H	208	273	0.32	0.090	0.34	12660						
574649 H	208	273	0.40	0.084	0.48	12560						
574650 H	208	273	0.23	0.074	0.27	12520						
574651 H	208	273	0.33	0.089	0.34	13120						
574652 H	208	273	0.30	0.047	0.31	12620						
574653 H	208	273	0.31	0.046	0.38	13280						
574654 H	208	273	0.22	0.021	0.21	12720						
574655 H	208	273	0.15	0.023	0.10	12860						
574656 H	208	276	0.25	0.063	0.21	11480						
574657 H	208	273	0.23	0.085	0.21	12100						
574658 H	208	276	0.24	0.057	0.24	11420						
574659 H	208	276	0.32	0.058	0.34	11360						
574660 H	208	276	0.16	0.051	0.17	11740						

CERTIFICATION:

Chemex Labs Ltd.

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :I9317163
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317163

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
574661 H	208	276	0.19	0.037	0.21	11760						
574662 H	208	276	0.27	0.047	0.17	11620						
574663 H	208	276	0.26	0.061	0.34	11520						
574664 H	208	276	0.28	0.050	0.34	11740						
574665 H	208	276	0.32	0.085	0.45	11320						
574666 H	208	276	0.22	0.055	0.14	10820						
574667 H	208	273	0.30	0.046	0.31	12290						
574668 H	208	273	0.27	0.034	0.27	13260						
574669 H	208	276	0.24	0.031	0.21	11120						
574670 H	208	273	0.29	0.057	0.31	12220						
574671 H	208	273	0.27	0.034	0.24	12140						
574672 H	208	273	0.27	0.041	0.27	12220						
574673 H	208	276	0.23	0.100	0.21	10680						
574674 H	208	276	0.12	0.097	0.14	10940						
574675 H	208	276	0.24	0.064	0.41	10720						
574676 H	208	276	0.25	0.116	0.27	10600						
574677 H	208	273	0.32	0.084	0.27	12420						
574678 H	208	273	0.28	0.057	0.17	12960						
574679 H	208	273	0.29	0.113	0.38	12480						
574680 H	208	273	0.20	0.095	0.21	13080						
574681 H	208	276	0.16	0.129	0.17	10060						
574682 H	208	276	0.28	0.074	0.24	10500						
574683 H	208	273	0.29	0.041	0.34	12120						
574684 H	208	276	0.18	0.068	0.31	11740						
574685 H	208	273	0.27	0.080	0.27	12000						
574686 H	208	276	0.30	0.061	0.31	11660						
574687 H	208	273	0.23	0.079	0.24	12580						
574688 H	208	273	0.26	0.045	0.24	12800						
574689 H	208	273	0.21	0.064	0.17	13060						
574690 H	208	273	0.19	0.060	0.24	13180						
574691 H	208	273	0.21	0.082	0.27	13420						
574692 H	208	273	0.21	0.089	0.38	12420						
574693 H	208	273	0.56	0.057	0.34	12060						
574694 H	208	276	0.35	0.048	0.38	11540						
574695 H	208	273	0.14	0.094	0.14	13520						
574696 H	208	273	0.21	0.065	0.27	12720						
574697 H	208	273	0.21	0.122	0.24	13260						
574698 H	208	273	0.18	0.066	0.27	12480						
574699 H	208	273	0.21	0.099	0.27	12600						
574700 H	208	273	0.20	0.177	0.24	12300						

CERTIFICATION: Mark Vont

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574701 H	208 276	0.42	0.101	0.41	11780
574702 H	208 273	0.23	0.063	0.31	13240
574703 H	208 273	0.26	0.089	0.41	13220
574704 H	208 273	0.29	0.067	0.45	13020
574705 H	208 273	0.22	0.133	0.27	12460
574706 H	208 273	0.28	0.076	0.41	12860
574707 H	208 276	0.15	0.092	0.24	11540
574708 H	208 276	0.21	0.078	0.24	8840
574709 H	208 273	0.21	0.081	0.24	13340
574710 H	208 273	0.22	0.062	0.21	13500
574711 H	208 273	0.38	0.062	0.31	12500
574712 H	208 273	0.38	0.031	0.79	13460
574713 H	208 273	0.34	0.046	0.38	13240
574714 H	208 273	0.29	0.051	0.34	12860
574715 H	208 273	0.42	0.047	0.75	12360
574716 H	208 273	0.50	0.039	0.45	12340
574717 H	208 273	0.47	0.050	0.72	13220
574718 H	208 273	0.44	0.047	0.65	12140
574719 H	208 273	0.65	0.036	0.51	12900
574720 H	208 273	0.50	0.059	0.45	12340
574721 H	208 273	0.53	0.036	0.48	12660
574722 H	208 273	0.64	0.122	0.62	12580
574723 H	208 273	0.46	0.087	0.55	12380
574724 H	208 276	0.41	0.150	0.41	11320
574725 H	208 273	0.42	0.057	0.38	11840
574726 H	208 273	0.34	0.047	0.31	12540
574727 H	208 273	0.44	0.035	0.48	12560
574728 H	208 273	0.41	0.024	0.27	12820
574729 H	208 276	0.39	0.033	0.38	9760
574730 H	208 276	0.39	0.047	0.41	11540
574731 H	208 276	0.38	0.044	0.51	8920
574732 H	208 276	0.39	0.033	0.48	8440
574733 H	208 276	0.52	0.061	0.41	11200
574734 H	208 273	0.52	0.034	0.45	12900
574735 H	208 273	0.45	0.096	0.41	13260
574736 H	208 276	0.36	0.127	0.24	9220
574737 H	208 274	0.29	0.042	0.21	5960
574738 H	208 274	0.35	0.033	0.38	6780
574739 H	208 274	0.49	0.041	0.45	6540
574740 H	208 274	0.37	0.046	0.21	7160

CERTIFICATION: Thanh Vinh

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
574741 H	208	276	0.14	0.017	0.21	7560						
574742 H	208	276	0.25	0.016	0.21	7540						
574743 H	208	274	0.37	0.038	0.34	7260						
574744 H	208	274	0.40	0.042	0.72	7020						
574745 H	208	274	0.28	0.062	0.34	6780						
574746 H	208	274	2.01	0.146	1.99	6740						
574747 H	208	274	2.78	0.509	2.54	7180						
574748 H	208	274	0.47	0.099	0.62	6320						
574749 H	208	274	0.40	0.049	0.34	6700						
574750 H	208	274	0.26	0.042	0.17	5740						
574751 H	208	276	0.27	0.086	0.21	7480						
574752 H	208	274	0.35	0.039	0.24	6080						
574753 H	208	274	0.28	0.104	0.21	6320						
574754 H	208	276	0.33	0.027	0.38	7460						
574755 H	208	274	0.34	0.019	0.34	6940						
574756 H	208	274	0.30	0.080	0.31	6740						
574757 H	208	274	0.30	0.036	0.31	6720						
574758 H	208	274	0.48	0.030	0.55	7180						
574759 H	208	274	0.21	0.040	0.34	7160						
574760 H	208	274	0.25	0.037	0.31	6920						
574761 H	208	274	0.40	0.021	0.45	6840						
574762 H	208	274	0.47	0.055	0.58	7040						
574763 H	208	276	0.41	0.025	0.38	7340						
574764 H	208	274	0.25	0.050	0.31	6620						
573153 A	208	274	0.06	0.055	0.41	3840						
573154 A	208	274	0.41	0.024	0.45	6180						
573155 A	208	274	0.63	0.066	0.31	6220						
573156 A	208	274	0.26	0.028	0.27	5740						
573157 A	208	274	0.28	0.122	0.24	6220						
573158 A	208	274	0.20	0.070	0.21	6060						
573159 A	208	274	0.30	0.160	0.38	6000						
573160 A	208	274	0.16	0.076	0.21	6220						
573161 A	208	274	0.22	0.102	0.17	5480						
573162 A	208	274	0.21	0.177	0.24	6260						
573163 A	208	274	0.66	0.046	0.69	5120						
573164 A	208	274	0.35	0.048	0.31	3740						
573165 A	208	274	0.28	0.060	0.27	3940						

CERTIFICATION: Mark Vonk

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 164
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Page Number :1-A
Total Pages :7
Certificate Date: 20-JUL-93
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CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574501 H	299	229	2.0	0.58	58	120	< 0.5	2	0.02	< 0.5	3	62	1290	1.57	< 10	< 1	0.45	30	0.04	20	323
574502 H	299	229	2.6	0.66	24	160	< 0.5	8	0.03	< 0.5	7	56	4750	1.72	< 10	< 1	0.52	40	0.04	10	306
574503 H	299	229	1.2	0.64	28	200	< 0.5	< 2	0.02	< 0.5	9	68	2930	1.75	< 10	< 1	0.45	40	0.04	10	329
574504 H	299	229	1.0	0.58	14	200	< 0.5	< 2	0.01	< 0.5	12	50	2360	1.16	< 10	< 1	0.40	30	0.03	10	195
574505 H	299	229	1.6	0.46	12	110	< 0.5	12	0.01	< 0.5	14	59	2070	2.05	< 10	< 1	0.43	30	0.03	20	224
574506 H	299	229	2.6	0.74	70	100	< 0.5	24	0.01	< 0.5	38	54	9450	1.98	< 10	< 1	0.39	30	0.07	10	282
574507 H	299	229	2.0	0.45	36	170	< 0.5	2	0.01	< 0.5	8	45	1225	1.53	< 10	< 1	0.36	30	0.03	10	611
574508 H	299	229	2.4	0.59	40	130	< 0.5	< 2	0.01	< 0.5	10	59	1060	1.45	< 10	< 1	0.35	30	0.04	10	459
574509 H	299	229	2.8	0.81	42	120	< 0.5	10	0.02	< 0.5	11	59	3320	1.98	< 10	< 1	0.49	30	0.04	10	380
574510 H	299	229	2.8	0.97	42	100	< 0.5	16	0.03	< 0.5	18	52	8490	1.80	< 10	< 1	0.37	20	0.04	15	224
574511 H	299	229	3.4	0.74	22	90	< 0.5	6	0.02	< 0.5	12	70	4610	1.91	< 10	< 1	0.46	30	0.04	10	326
574512 H	299	229	4.4	0.90	24	130	< 0.5	6	0.02	< 0.5	14	59	7980	1.65	< 10	< 1	0.44	30	0.04	15	424
574513 H	299	229	3.4	1.03	36	90	< 0.5	20	0.04	< 0.5	12	86	6190	1.91	< 10	< 1	0.46	20	0.05	15	283
574514 H	299	229	2.8	0.68	32	100	< 0.5	8	0.03	< 0.5	9	62	4590	1.41	< 10	< 1	0.42	30	0.03	15	295
574515 H	299	229	2.8	0.72	64	100	< 0.5	2	0.03	< 0.5	7	85	2630	1.34	< 10	< 1	0.43	30	0.03	10	436
574516 H	299	229	6.0	0.61	512	160	< 0.5	32	0.01	0.5	6	83	669	2.05	< 10	< 1	0.58	30	0.04	15	291
574517 H	299	229	3.2	0.61	328	160	< 0.5	24	0.02	< 0.5	8	94	747	1.32	< 10	< 1	0.45	40	0.04	15	393
574518 H	299	229	2.6	0.60	78	120	< 0.5	< 2	0.02	< 0.5	5	76	740	1.31	< 10	< 1	0.39	40	0.04	15	324
574519 H	299	229	2.4	0.73	24	90	< 0.5	< 2	0.02	< 0.5	4	90	697	0.97	< 10	< 1	0.34	50	0.04	15	282
574520 H	299	229	1.8	0.50	30	100	< 0.5	< 2	0.01	< 0.5	3	77	543	1.01	< 10	< 1	0.34	10	0.03	10	313
574521 H	299	229	1.4	0.54	26	90	< 0.5	4	0.01	< 0.5	3	117	523	1.01	< 10	< 1	0.31	40	0.03	15	285
574522 H	299	229	1.8	0.52	26	260	< 0.5	2	0.01	< 0.5	2	88	487	1.27	< 10	< 1	0.39	20	0.04	10	320
574523 H	299	229	2.0	0.49	18	480	< 0.5	2	0.01	< 0.5	2	116	441	1.61	< 10	< 1	0.35	30	0.03	10	422
574524 H	299	229	2.0	0.62	14	300	< 0.5	< 2	0.01	< 0.5	1	101	340	0.96	< 10	< 1	0.34	20	0.04	10	355
574525 H	299	229	1.6	0.62	26	150	0.5	< 2	0.01	< 0.5	1	113	596	2.63	< 10	< 1	0.42	30	0.04	10	524
574526 H	299	229	3.8	0.53	26	110	< 0.5	< 2	0.01	< 0.5	2	88	1035	1.14	< 10	< 1	0.36	30	0.03	10	410
574527 H	299	229	2.8	0.48	20	340	< 0.5	< 2	0.01	< 0.5	2	109	687	1.24	< 10	< 1	0.34	40	0.03	10	335
574528 H	299	229	3.4	0.60	20	70	< 0.5	4	0.02	< 0.5	2	104	747	1.28	< 10	< 1	0.31	60	0.03	10	680
574529 H	299	229	1.4	0.56	28	130	< 0.5	2	0.01	< 0.5	2	129	1075	1.36	< 10	< 1	0.33	40	0.03	10	692
574530 H	299	229	1.6	0.52	16	210	< 0.5	4	0.01	< 0.5	9	90	3410	1.18	< 10	< 1	0.28	10	0.02	10	347
574531 H	299	229	1.8	0.52	22	130	< 0.5	2	0.01	< 0.5	13	98	4600	2.35	< 10	< 1	0.28	10	0.02	10	579
574532 H	299	229	1.2	0.55	16	130	< 0.5	6	0.01	< 0.5	12	71	3170	1.09	< 10	< 1	0.22	40	0.03	10	231
574533 H	299	229	0.8	0.96	28	170	< 0.5	< 2	0.04	< 0.5	8	101	2370	1.20	< 10	1	0.35	30	0.19	20	222
574534 H	299	229	4.4	0.69	30	60	< 0.5	42	0.01	< 0.5	8	77	3280	1.62	< 10	< 1	0.21	30	0.04	15	214
574535 H	299	229	1.4	0.58	16	60	< 0.5	4	0.01	< 0.5	3	110	844	1.03	< 10	< 1	0.20	40	0.02	15	185
574536 H	299	229	1.6	0.66	334	170	< 0.5	2	0.03	< 0.5	4	87	1225	1.39	< 10	< 1	0.23	50	0.03	10	261
574537 H	299	229	1.6	0.61	14	230	< 0.5	2	0.02	< 0.5	6	101	3090	0.84	< 10	< 1	0.19	30	0.03	10	390
574538 H	299	229	1.6	0.65	18	130	< 0.5	10	0.02	< 0.5	10	82	3700	0.91	< 10	< 1	0.19	20	0.02	10	308
574539 H	299	229	1.2	0.73	14	160	< 0.5	4	0.02	< 0.5	12	97	3230	1.15	< 10	< 1	0.27	30	0.04	10	291
574540 H	299	229	0.8	0.65	6	130	< 0.5	< 2	0.03	< 0.5	14	80	3370	1.26	< 10	< 1	0.24	20	0.04	40	109

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574501 H	299	229	0.02	3	250	28	4	1	13	< 0.01	< 10	< 10	10	< 10	14
574502 H	299	229	0.02	2	270	58	4	1	14	< 0.01	< 10	< 10	9	< 10	14
574503 H	299	229	0.01	1	320	20	2	1	11	< 0.01	< 10	< 10	10	< 10	18
574504 H	299	229	0.02	3	190	14	2	1	10	< 0.01	< 10	< 10	7	< 10	10
574505 H	299	229	0.01	3	210	16	4	1	9	< 0.01	< 10	< 10	11	< 10	44
574506 H	299	229	0.02	4	280	26	6	1	14	< 0.01	< 10	< 10	11	< 10	18
574507 H	299	229	0.01	2	320	40	6	1	13	< 0.01	< 10	< 10	11	< 10	12
574508 H	299	229	0.01	4	400	44	8	1	26	< 0.01	< 10	< 10	15	< 10	10
574509 H	299	229	0.02	3	360	22	8	1	16	< 0.01	< 10	< 10	16	< 10	14
574510 H	299	229	0.02	6	250	6	12	1	9	< 0.01	< 10	< 10	14	< 10	22
574511 H	299	229	0.02	3	300	12	4	1	14	< 0.01	< 10	< 10	11	< 10	12
574512 H	299	229	0.02	6	320	22	8	1	16	< 0.01	< 10	< 10	13	< 10	14
574513 H	299	229	0.02	6	310	24	4	2	20	< 0.01	< 10	< 10	19	< 10	26
574514 H	299	229	0.02	3	390	48	10	1	30	< 0.01	< 10	< 10	10	< 10	12
574515 H	299	229	0.01	3	470	40	12	1	41	< 0.01	< 10	< 10	11	< 10	8
574516 H	299	229	0.01	4	620	126	48	1	83	< 0.01	< 10	20	5	< 10	14
574517 H	299	229	0.01	2	610	82	14	2	58	< 0.01	< 10	10	6	< 10	14
574518 H	299	229	0.01	3	540	50	12	1	48	< 0.01	< 10	10	8	< 10	14
574519 H	299	229	0.01	4	490	62	6	1	39	< 0.01	< 10	< 10	9	< 10	12
574520 H	299	229	0.01	2	250	54	6	< 1	20	< 0.01	< 10	< 10	6	< 10	12
574521 H	299	229	0.01	2	390	98	4	1	60	< 0.01	< 10	< 10	6	< 10	10
574522 H	299	229	0.01	3	340	30	< 2	1	54	< 0.01	< 10	< 10	8	< 10	8
574523 H	299	229	0.01	5	380	34	4	1	58	< 0.01	< 10	< 10	10	20	10
574524 H	299	229	0.01	3	250	20	6	1	41	< 0.01	< 10	< 10	9	< 10	6
574525 H	299	229	0.01	2	540	34	8	1	79	< 0.01	< 10	< 10	18	< 10	6
574526 H	299	229	0.01	1	230	50	6	1	30	< 0.01	< 10	10	9	< 10	6
574527 H	299	229	0.01	2	300	40	6	1	27	< 0.01	< 10	< 10	12	< 10	6
574528 H	299	229	0.01	2	460	58	8	1	121	< 0.01	< 10	< 10	12	< 10	6
574529 H	299	229	0.01	2	420	30	10	1	111	< 0.01	< 10	< 10	9	< 10	8
574530 H	299	229	0.01	4	230	14	2	1	27	< 0.01	< 10	< 10	6	< 10	14
574531 H	299	229	0.01	6	280	16	6	1	10	< 0.01	< 10	< 10	13	< 10	34
574532 H	299	229	0.01	4	330	26	2	1	45	< 0.01	< 10	< 10	7	< 10	18
574533 H	299	229	0.01	6	550	18	6	3	129	< 0.01	< 10	10	21	< 10	32
574534 H	299	229	0.01	5	350	58	8	2	86	< 0.01	< 10	< 10	13	< 10	20
574535 H	299	229	0.01	3	320	38	2	1	97	< 0.01	< 10	< 10	7	< 10	14
574536 H	299	229	0.01	3	570	66	24	1	224	< 0.01	< 10	< 10	8	< 10	16
574537 H	299	229	0.01	4	400	14	< 2	1	122	< 0.01	< 10	< 10	10	< 10	14
574538 H	299	229	0.01	3	350	16	2	1	66	< 0.01	< 10	< 10	9	< 10	20
574539 H	299	229	0.01	6	220	14	2	1	19	< 0.01	< 10	< 10	10	< 10	36
574540 H	299	229	0.01	6	240	18	< 2	1	22	< 0.01	< 10	< 10	8	< 10	40

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. : I9317164
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574541 H	299	229	1.0	1.44	6	100	0.5	16	0.04	< 0.5	17	165	4970	1.55	10	< 1	0.56	40	0.06	50	357
574542 H	299	229	1.2	1.07	12	80	< 0.5	< 2	0.02	< 0.5	12	183	3620	1.27	< 10	< 1	0.44	30	0.07	15	241
574543 H	299	229	1.4	1.24	52	80	0.5	4	0.04	< 0.5	11	110	4450	1.33	10	< 1	0.40	30	0.04	10	184
574544 H	299	229	1.8	1.27	200	80	0.5	16	0.04	< 0.5	19	173	5950	1.77	< 10	< 1	0.45	30	0.04	15	397
574545 H	299	229	1.6	1.04	2	80	< 0.5	6	0.03	0.5	9	110	4080	1.03	< 10	< 1	0.35	20	0.03	10	132
574546 H	299	229	2.0	1.30	18	190	0.5	10	0.03	< 0.5	13	158	4260	1.33	< 10	< 1	0.48	30	0.06	15	156
574547 H	299	229	2.6	0.99	94	90	< 0.5	< 2	0.04	0.5	12	118	4780	1.37	10	< 1	0.42	40	0.06	15	346
574548 H	299	229	3.2	1.23	90	120	0.5	18	0.05	1.0	13	185	5690	2.05	10	< 1	0.51	40	0.06	15	649
574549 H	299	229	1.0	0.53	6	130	< 0.5	10	0.04	< 0.5	8	94	2860	0.79	< 10	< 1	0.19	30	0.03	10	305
574550 H	299	229	1.2	1.20	8	200	< 0.5	< 2	0.05	< 0.5	14	178	4000	1.09	< 10	< 1	0.54	30	0.06	30	166
574551 H	299	229	1.4	1.04	68	210	< 0.5	6	0.04	< 0.5	9	166	3390	1.18	< 10	< 1	0.50	30	0.06	185	188
574552 H	299	229	1.2	1.16	12	150	< 0.5	< 2	0.04	< 0.5	11	149	2900	0.93	< 10	< 1	0.52	30	0.04	10	432
574553 H	299	229	1.6	1.14	16	180	< 0.5	12	0.05	< 0.5	14	122	4030	1.01	10	< 1	0.42	40	0.04	10	175
574554 H	299	229	1.8	1.21	180	120	0.5	10	0.06	< 0.5	10	158	4180	1.19	10	< 1	0.42	40	0.04	15	744
574555 H	299	229	2.8	1.11	198	120	0.5	2	0.06	0.5	11	122	3880	1.25	10	< 1	0.45	30	0.05	15	297
574556 H	299	229	1.6	1.11	134	120	< 0.5	4	0.04	0.5	10	176	3270	1.13	< 10	< 1	0.45	30	0.05	15	377
574557 H	299	229	2.6	1.05	200	100	< 0.5	10	0.04	0.5	11	127	4670	1.25	10	< 1	0.42	40	0.05	10	642
574558 H	299	229	2.0	1.26	6	140	< 0.5	12	0.06	< 0.5	15	155	5220	1.76	< 10	< 1	0.49	30	0.07	40	1065
574559 H	299	229	1.6	1.09	6	200	< 0.5	20	0.06	0.5	12	143	2870	1.54	< 10	< 1	0.54	30	0.07	140	207
574560 H	299	229	2.8	1.79	416	110	0.5	8	0.08	0.5	10	146	5510	1.44	10	< 1	0.49	40	0.08	15	372
574561 H	299	229	3.4	0.95	220	90	< 0.5	2	0.05	0.5	10	115	3170	1.50	< 10	< 1	0.40	20	0.04	150	300
574562 H	299	229	2.2	0.76	330	90	< 0.5	2	0.06	1.0	13	155	2660	1.84	< 10	< 1	0.39	20	0.04	340	283
574563 H	299	229	2.8	0.84	664	110	< 0.5	18	0.13	0.5	12	133	3270	2.11	< 10	< 1	0.41	30	0.07	395	753
574564 H	299	229	3.2	0.94	304	130	< 0.5	< 2	0.06	1.5	12	155	3150	1.65	< 10	< 1	0.45	30	0.05	265	315
574565 H	299	229	2.8	0.97	204	160	< 0.5	< 2	0.07	1.5	21	150	2650	1.94	10	< 1	0.47	40	0.06	410	469
574566 H	299	229	4.6	1.08	428	110	< 0.5	12	0.11	1.5	24	161	3510	1.92	< 10	< 1	0.49	20	0.08	350	165
574567 H	299	229	2.0	0.55	120	60	< 0.5	6	0.06	1.5	18	73	4170	1.72	< 10	< 1	0.21	30	0.03	160	232
574568 H	299	229	2.6	1.03	118	180	< 0.5	16	0.06	< 0.5	14	163	4220	1.63	10	< 1	0.49	40	0.07	290	248
574569 H	299	229	1.8	0.52	122	180	< 0.5	4	0.24	1.0	12	78	3420	1.17	< 10	< 1	0.22	20	0.12	180	224
574570 H	299	229	1.6	1.01	84	120	< 0.5	8	0.15	0.5	12	169	3800	1.08	< 10	< 1	0.49	30	0.14	75	384
574571 H	299	229	1.0	0.56	8	110	< 0.5	4	0.06	< 0.5	12	87	2500	1.06	< 10	< 1	0.20	20	0.04	90	195
574572 H	299	229	11.0	0.97	190	180	< 0.5	< 2	0.10	3.0	21	184	3480	2.38	< 10	< 1	0.36	30	0.07	570	1150
574573 H	299	229	1.2	0.43	38	190	< 0.5	8	0.19	0.5	13	69	1505	1.14	< 10	< 1	0.15	20	0.08	235	303
574574 H	299	229	1.4	0.74	16	260	< 0.5	14	0.32	< 0.5	9	166	2200	1.16	< 10	< 1	0.38	30	0.17	250	263
574575 H	299	229	1.2	0.76	< 2	230	< 0.5	< 2	0.16	< 0.5	10	157	2210	1.07	< 10	< 1	0.41	30	0.13	165	329
574576 H	299	229	2.0	0.87	14	190	< 0.5	8	0.29	< 0.5	13	145	4350	1.31	< 10	< 1	0.38	20	0.14	170	489
574577 H	299	229	1.4	0.82	10	210	< 0.5	6	0.59	< 0.5	7	147	2150	0.94	< 10	< 1	0.41	20	0.29	205	256
574578 H	299	229	1.6	0.97	16	190	< 0.5	12	0.41	< 0.5	16	157	3110	1.46	< 10	< 1	0.46	20	0.22	155	315
574579 H	299	229	1.8	1.25	14	140	< 0.5	4	0.52	< 0.5	29	132	4350	1.89	< 10	< 1	0.53	30	0.34	290	410
574580 H	299	229	1.2	1.68	16	220	< 0.5	2	0.61	< 0.5	11	150	2670	1.42	10	< 1	0.87	20	0.95	145	183

CERTIFICATION: Hart Bichler

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Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :7
Certificate Date: 20-JUL-93
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CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574541 H	299	229	0.02	8	370	32	6	2	49	< 0.01	< 10	< 10	16	< 10	60
574542 H	299	229	0.02	7	270	18	2	2	45	< 0.01	< 10	< 10	14	< 10	38
574543 H	299	229	0.01	7	630	26	4	1	171	< 0.01	< 10	10	12	< 10	74
574544 H	299	229	0.02	10	520	20	22	1	136	< 0.01	< 10	< 10	12	< 10	84
574545 H	299	229	0.01	6	380	16	2	1	107	< 0.01	< 10	< 10	12	< 10	36
574546 H	299	229	0.02	9	410	12	2	2	81	< 0.01	< 10	< 10	16	< 10	34
574547 H	299	229	0.01	7	290	22	6	2	40	< 0.01	< 10	< 10	16	< 10	70
574548 H	299	229	0.02	7	420	30	20	2	86	< 0.01	< 10	< 10	15	< 10	112
574549 H	299	229	0.01	4	260	< 2	6	2	50	< 0.01	< 10	< 10	10	< 10	24
574550 H	299	229	0.02	8	300	14	4	1	45	< 0.01	< 10	10	11	< 10	36
574551 H	299	229	0.02	6	200	4	14	2	22	< 0.01	< 10	< 10	15	< 10	42
574552 H	299	229	0.02	6	250	6	4	2	35	< 0.01	< 10	< 10	15	< 10	28
574553 H	299	229	0.02	8	380	10	4	1	109	< 0.01	< 10	< 10	11	< 10	26
574554 H	299	229	0.02	10	580	38	28	2	203	< 0.01	< 10	< 10	16	< 10	66
574555 H	299	229	0.02	8	470	150	54	2	156	< 0.01	< 10	< 10	14	< 10	74
574556 H	299	229	0.02	8	270	24	18	1	77	< 0.01	< 10	< 10	12	< 10	62
574557 H	299	229	0.01	7	310	16	30	2	85	< 0.01	< 10	10	12	< 10	52
574558 H	299	229	0.02	7	320	12	16	2	61	< 0.01	< 10	< 10	15	< 10	36
574559 H	299	229	0.02	6	210	4	2	2	23	< 0.01	< 10	< 10	14	< 10	54
574560 H	299	229	0.02	12	720	40	50	2	239	< 0.01	< 10	< 10	17	< 10	112
574561 H	299	229	0.01	6	210	24	68	1	36	< 0.01	< 10	< 10	10	< 10	98
574562 H	299	229	0.01	4	210	24	24	1	18	< 0.01	< 10	< 10	9	< 10	96
574563 H	299	229	0.01	6	330	38	32	1	23	< 0.01	< 10	10	10	< 10	114
574564 H	299	229	0.02	8	230	58	34	2	24	< 0.01	< 10	< 10	13	< 10	112
574565 H	299	229	0.01	8	210	34	34	1	18	< 0.01	< 10	< 10	12	< 10	156
574566 H	299	229	0.02	8	250	30	56	1	22	< 0.01	< 10	< 10	11	< 10	168
574567 H	299	229	0.01	8	240	12	22	1	24	< 0.01	< 10	< 10	7	< 10	64
574568 H	299	229	0.02	8	250	18	10	1	20	< 0.01	< 10	< 10	12	< 10	64
574569 H	299	229	0.01	6	200	14	18	2	14	< 0.01	< 10	< 10	12	< 10	56
574570 H	299	229	0.02	10	230	10	10	3	14	< 0.01	< 10	< 10	22	< 10	52
574571 H	299	229	0.01	6	200	8	< 2	1	8	< 0.01	< 10	10	9	< 10	50
574572 H	299	229	0.02	7	190	122	126	2	15	< 0.01	< 10	< 10	16	< 10	246
574573 H	299	229	0.01	5	180	10	12	1	12	< 0.01	< 10	< 10	7	< 10	68
574574 H	299	229	0.02	6	140	6	2	2	17	< 0.01	< 10	< 10	15	< 10	38
574575 H	299	229	0.02	5	150	10	4	2	13	< 0.01	< 10	< 10	18	< 10	34
574576 H	299	229	0.02	5	230	8	8	2	14	< 0.01	< 10	< 10	17	< 10	36
574577 H	299	229	0.02	6	230	12	4	4	15	< 0.01	< 10	< 10	23	< 10	36
574578 H	299	229	0.02	8	250	20	4	4	16	< 0.01	< 10	< 10	24	< 10	32
574579 H	299	229	0.02	11	500	34	6	5	22	< 0.01	< 10	< 10	33	< 10	54
574580 H	299	229	0.03	8	390	16	4	7	31	0.04	< 10	10	54	< 10	42

CERTIFICATION: Hart Bichler

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Project : CASINO 164
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Page Number :3-A
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CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574581 H	299	229	2.4	0.99	8	160	< 0.5	14	0.27	< 0.5	14	102	5370	1.91	< 10	< 1	0.43	20	0.34	265	352
574582 H	299	229	1.2	0.66	< 2	190	< 0.5	6	0.13	< 0.5	10	70	2330	1.24	< 10	< 1	0.31	20	0.22	140	513
574583 H	299	229	1.2	0.90	8	70	< 0.5	8	0.10	< 0.5	10	98	2730	0.82	< 10	< 1	0.19	20	0.04	20	551
574584 H	299	229	0.6	0.63	6	150	< 0.5	< 2	0.36	< 0.5	14	73	1715	1.00	< 10	< 1	0.31	20	0.34	130	158
574585 H	299	229	1.0	0.61	8	190	< 0.5	2	0.58	< 0.5	11	78	2290	0.99	< 10	< 1	0.37	10	0.39	130	246
574586 H	299	229	1.2	1.22	2	110	< 0.5	8	0.65	0.5	16	66	3210	1.66	< 10	< 1	0.79	10	1.01	260	241
574587 H	299	229	3.0	0.76	22	140	< 0.5	12	0.76	0.5	13	84	4890	1.72	< 10	< 1	0.50	10	0.58	225	206
574588 H	299	229	2.6	0.53	14	130	< 0.5	6	0.43	< 0.5	12	69	3670	1.59	< 10	< 1	0.34	10	0.29	300	233
574589 H	299	229	2.0	0.96	18	190	< 0.5	12	0.60	< 0.5	16	78	4100	1.61	< 10	< 1	0.67	10	0.87	220	209
574590 H	299	229	1.8	0.85	8	140	< 0.5	8	0.54	0.5	17	87	3770	1.64	< 10	< 1	0.55	10	0.74	160	168
574591 H	299	229	3.2	0.82	20	90	< 0.5	16	0.64	< 0.5	15	160	4680	1.89	< 10	< 1	0.36	20	0.36	240	170
574592 H	299	229	3.0	0.85	16	110	< 0.5	16	0.90	< 0.5	14	89	4190	1.82	< 10	< 1	0.43	10	0.70	245	294
574593 H	299	229	1.8	1.25	28	150	< 0.5	12	0.78	< 0.5	14	126	2860	1.71	< 10	< 1	0.70	20	0.94	180	421
574594 H	299	229	1.6	1.38	18	250	< 0.5	6	0.95	< 0.5	13	110	3210	1.63	10	< 1	0.66	40	0.94	315	243
574595 H	299	229	1.6	1.75	38	210	< 0.5	6	0.97	< 0.5	19	103	2890	2.31	10	< 1	0.98	30	1.39	280	66
574596 H	299	229	24.6	0.76	250	140	< 0.5	8	1.20	4.5	9	123	2900	1.47	< 10	< 1	0.41	20	0.76	880	911
574597 H	299	229	19.8	0.78	304	100	< 0.5	6	1.17	1.5	8	97	2800	1.42	< 10	< 1	0.41	20	0.62	805	911
574598 H	299	229	2.2	1.16	16	170	< 0.5	< 2	0.96	< 0.5	10	95	2680	1.79	< 10	< 1	0.70	10	0.86	540	707
574599 H	299	229	10.6	0.54	172	90	< 0.5	18	1.18	2.0	11	90	3200	2.07	< 10	< 1	0.28	10	0.49	630	585
574600 H	299	229	1.8	0.80	2	90	< 0.5	< 2	0.84	< 0.5	8	68	2680	1.31	< 10	< 1	0.51	20	0.77	285	617
574601 H	299	229	1.6	0.51	10	60	< 0.5	< 2	0.94	< 0.5	10	107	2230	1.31	< 10	< 1	0.27	10	0.53	235	1485
574602 H	299	229	0.8	0.47	2	80	< 0.5	< 2	0.70	< 0.5	26	106	1240	1.15	< 10	< 1	0.29	10	0.44	85	233
574603 H	299	229	1.2	0.86	< 2	90	< 0.5	14	1.07	< 0.5	9	124	2140	1.31	< 10	< 1	0.52	10	0.86	175	256
574604 H	299	229	1.6	0.96	4	90	< 0.5	6	0.85	< 0.5	12	93	2200	2.15	< 10	< 1	0.55	10	0.75	175	287
574605 H	299	229	2.0	1.53	12	130	< 0.5	6	1.26	< 0.5	20	78	3600	2.15	< 10	< 1	0.70	20	1.05	270	285
574606 H	299	229	1.4	1.70	38	130	< 0.5	6	1.39	1.0	26	68	2720	3.14	10	< 1	0.61	30	1.24	325	196
574607 H	299	229	1.2	1.82	< 2	140	< 0.5	10	1.31	0.5	18	75	2000	2.67	10	< 1	0.76	20	1.34	230	56
574608 H	299	229	1.4	1.72	6	120	< 0.5	< 2	1.47	< 0.5	23	54	2820	2.76	10	< 1	0.76	20	1.31	230	181
574609 H	299	229	0.8	1.72	12	110	< 0.5	8	1.47	< 0.5	21	87	2480	2.72	10	< 1	0.75	30	1.34	215	158
574610 H	299	229	1.0	1.47	12	110	< 0.5	8	1.73	< 0.5	12	69	2240	1.89	< 10	< 1	0.85	20	1.33	155	134
574611 H	299	229	1.2	1.39	< 2	140	< 0.5	4	1.38	0.5	14	71	2810	2.19	10	< 1	0.66	20	1.21	255	402
574612 H	299	229	1.2	1.07	< 2	110	< 0.5	4	0.63	< 0.5	12	105	2400	1.43	< 10	< 1	0.75	< 10	1.07	130	553
574613 H	299	229	0.8	1.10	< 2	130	< 0.5	8	0.63	< 0.5	8	127	1920	1.29	< 10	< 1	0.74	10	1.02	140	765
574614 H	299	229	1.0	1.10	< 2	100	< 0.5	4	0.67	< 0.5	12	102	1830	1.37	< 10	< 1	0.71	10	1.06	155	1055
574615 H	299	229	1.0	0.95	< 2	90	< 0.5	2	0.60	< 0.5	15	134	2020	1.77	< 10	< 1	0.59	10	0.76	95	612
574616 H	299	229	1.4	0.99	6	130	< 0.5	< 2	0.54	< 0.5	10	98	2620	1.36	< 10	< 1	0.66	10	0.93	100	528
574617 H	299	229	2.0	1.39	4	120	< 0.5	2	0.94	< 0.5	9	176	2230	1.99	< 10	< 1	0.90	10	1.37	125	1215
574618 H	299	229	1.6	1.31	4	180	< 0.5	6	0.81	< 0.5	9	94	2560	1.62	< 10	< 1	0.80	10	1.28	120	184
574619 H	299	229	1.4	0.90	4	110	< 0.5	4	0.52	< 0.5	6	131	2080	0.99	< 10	< 1	0.58	10	0.77	85	543
574620 H	299	229	1.4	0.90	< 2	140	< 0.5	< 2	0.43	< 0.5	7	116	1895	1.00	< 10	< 1	0.60	10	0.77	95	426

CERTIFICATION: Ian A Bickler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :I9317164
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CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574581 H	299	229	0.01	9	530	28	8	4	15	0.01	< 10	10	30	< 10	78
574582 H	299	229	0.01	5	250	2	4	2	13	< 0.01	< 10	< 10	20	< 10	42
574583 H	299	229	0.01	9	390	28	12	2	35	< 0.01	< 10	10	13	< 10	38
574584 H	299	229	0.01	4	320	6	4	4	12	0.01	< 10	10	26	< 10	26
574585 H	299	229	0.01	5	260	6	6	3	15	0.01	< 10	< 10	23	< 10	24
574586 H	299	229	0.02	9	410	6	4	7	15	0.06	< 10	10	61	< 10	60
574587 H	299	229	0.01	7	320	28	4	4	15	0.02	< 10	< 10	34	< 10	56
574588 H	299	229	0.01	6	300	8	6	3	11	< 0.01	< 10	10	18	< 10	44
574589 H	299	229	0.02	8	390	6	4	7	17	0.05	< 10	< 10	54	< 10	40
574590 H	299	229	0.01	10	460	2	2	6	21	0.03	< 10	10	47	< 10	44
574591 H	299	229	0.01	9	490	10	10	6	14	< 0.01	< 10	10	30	< 10	68
574592 H	299	229	0.01	10	420	8	6	7	21	0.02	< 10	10	47	< 10	48
574593 H	299	229	0.02	9	490	8	6	8	29	0.05	< 10	10	56	10	50
574594 H	299	229	0.01	9	600	12	8	10	20	0.04	< 10	10	65	< 10	40
574595 H	299	229	0.02	14	570	8	2	14	17	0.11	< 10	< 10	102	10	38
574596 H	299	229	0.01	8	650	170	128	8	18	0.01	< 10	10	47	< 10	208
574597 H	299	229	0.01	7	350	18	54	5	25	< 0.01	< 10	10	35	< 10	104
574598 H	299	229	0.01	6	660	20	16	8	22	0.05	< 10	10	57	< 10	68
574599 H	299	229	0.01	7	490	134	82	3	36	< 0.01	< 10	10	20	10	146
574600 H	299	229	0.01	8	390	8	6	7	16	0.03	< 10	10	46	< 10	44
574601 H	299	229	0.01	4	290	8	12	5	13	0.01	< 10	10	36	< 10	38
574602 H	299	229	0.01	5	260	2	4	3	15	< 0.01	< 10	< 10	23	< 10	22
574603 H	299	229	0.01	9	310	10	4	4	22	0.02	< 10	10	38	< 10	30
574604 H	299	229	0.01	9	530	2	6	3	19	0.02	< 10	10	34	10	38
574605 H	299	229	0.01	13	1030	8	6	6	33	0.02	< 10	10	46	< 10	50
574606 H	299	229	0.04	21	1150	20	16	5	48	0.03	< 10	< 10	45	10	66
574607 H	299	229	0.05	16	1040	10	4	6	53	0.04	< 10	< 10	54	10	36
574608 H	299	229	0.03	18	1100	6	< 2	4	73	0.04	< 10	< 10	44	10	34
574609 H	299	229	0.07	19	1120	6	4	5	93	0.04	< 10	< 10	52	10	38
574610 H	299	229	0.04	16	890	4	2	5	88	0.07	< 10	10	52	10	28
574611 H	299	229	0.02	13	1070	6	4	6	52	0.04	< 10	< 10	48	10	48
574612 H	299	229	0.02	6	300	12	6	8	17	0.06	< 10	10	70	< 10	16
574613 H	299	229	0.02	7	260	2	6	8	18	0.06	< 10	< 10	67	< 10	16
574614 H	299	229	0.02	8	450	< 2	6	9	20	0.06	< 10	< 10	76	10	18
574615 H	299	229	0.01	8	490	12	6	5	19	0.02	< 10	< 10	45	< 10	12
574616 H	299	229	0.01	8	410	2	4	8	17	0.06	< 10	10	65	< 10	8
574617 H	299	229	0.02	9	460	< 2	10	9	18	0.07	< 10	< 10	81	10	16
574618 H	299	229	0.02	10	420	8	4	7	27	0.05	< 10	< 10	63	< 10	14
574619 H	299	229	0.02	7	260	2	2	4	20	0.03	< 10	10	43	< 10	10
574620 H	299	229	0.02	6	270	2	2	7	18	0.04	< 10	< 10	62	< 10	8

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574621 H	299	229	1.4	1.11	8	160	< 0.5	4	0.67	< 0.5	8	160	2440	1.52	< 10	< 1	0.69	20	0.82	115	424
574622 H	299	229	2.4	1.60	12	110	< 0.5	8	0.89	< 0.5	12	219	3930	2.35	< 10	< 1	0.72	20	0.90	285	574
574623 H	299	229	3.0	1.75	34	170	< 0.5	8	0.94	1.0	12	147	3190	2.03	< 10	< 1	0.87	20	1.22	380	397
574624 H	299	229	1.2	1.85	10	220	< 0.5	4	0.71	< 0.5	6	170	1785	1.45	< 10	< 1	0.69	30	0.87	210	615
574625 H	299	229	0.8	0.90	62	160	< 0.5	< 2	0.91	< 0.5	6	158	1685	0.96	< 10	< 1	0.39	10	0.50	185	679
574626 H	299	229	1.4	1.09	64	300	< 0.5	6	1.99	< 0.5	6	168	1760	1.29	< 10	< 1	0.41	10	1.06	810	278
574627 H	299	229	0.6	1.35	12	120	< 0.5	4	1.37	< 0.5	8	170	1035	1.80	< 10	< 1	0.53	20	1.06	180	221
574628 H	299	229	1.6	1.63	2	240	< 0.5	2	0.75	< 0.5	7	201	2830	1.66	< 10	< 1	0.93	30	1.25	125	389
574629 H	299	229	1.2	1.59	4	260	< 0.5	< 2	0.80	< 0.5	7	175	1895	1.53	10	< 1	0.83	30	1.14	150	152
574630 H	299	229	4.8	1.14	62	130	< 0.5	4	0.93	3.5	9	179	2620	1.42	< 10	< 1	0.51	30	0.68	205	445
574631 H	299	229	1.0	1.47	20	320	< 0.5	< 2	0.70	< 0.5	8	164	2070	1.18	< 10	< 1	0.63	30	0.75	185	349
574632 H	299	229	1.4	1.47	< 2	450	< 0.5	4	0.87	< 0.5	7	160	2890	1.55	10	< 1	0.54	40	0.74	275	362
574633 H	299	229	1.4	1.67	< 2	290	< 0.5	2	0.89	< 0.5	6	194	2920	1.54	< 10	< 1	0.59	30	0.78	170	364
574634 H	299	229	1.6	1.07	18	140	< 0.5	4	0.86	< 0.5	6	152	2870	1.25	< 10	< 1	0.36	30	0.47	165	409
574635 H	299	229	2.2	1.54	14	350	< 0.5	6	1.12	< 0.5	7	172	3830	1.36	10	< 1	0.42	30	0.59	175	270
574636 H	299	229	2.2	1.59	12	330	< 0.5	10	1.01	< 0.5	11	146	4200	1.61	10	< 1	0.50	50	0.69	155	444
574637 H	299	229	1.2	1.54	2	380	< 0.5	2	1.28	< 0.5	4	180	2250	1.42	< 10	< 1	0.49	20	0.79	210	457
574638 H	299	229	1.8	1.85	24	110	< 0.5	6	1.24	< 0.5	12	144	2480	2.30	< 10	< 1	0.41	20	0.59	325	301
574639 H	299	229	1.8	1.98	4	110	< 0.5	6	1.70	< 0.5	12	73	3130	2.40	10	< 1	0.35	20	0.90	350	264
574640 H	299	229	1.8	1.66	< 2	150	< 0.5	< 2	0.76	< 0.5	7	150	2720	1.43	< 10	< 1	0.77	30	0.93	125	2040
574641 H	299	229	2.0	1.26	4	190	< 0.5	6	0.99	< 0.5	5	161	3060	1.32	< 10	< 1	0.63	20	0.91	135	824
574642 H	299	229	1.8	1.81	4	220	< 0.5	< 2	0.95	< 0.5	8	157	3480	1.52	< 10	< 1	0.89	30	1.26	130	389
574643 H	299	229	1.8	1.65	< 2	160	< 0.5	10	0.78	0.5	11	181	3400	1.72	10	< 1	0.95	40	1.23	105	253
574644 H	299	229	1.6	2.01	< 2	190	< 0.5	6	0.96	< 0.5	10	168	3300	1.76	10	< 1	1.04	20	1.39	110	934
574645 H	299	229	1.0	1.91	8	340	< 0.5	2	0.69	< 0.5	5	184	2480	1.33	< 10	< 1	0.99	30	1.16	80	490
574646 H	299	229	1.6	1.53	< 2	390	< 0.5	2	0.85	< 0.5	4	174	2630	1.33	< 10	< 1	0.86	30	1.12	85	456
574647 H	299	229	1.4	2.35	< 2	140	< 0.5	10	0.86	< 0.5	11	77	2730	1.78	10	< 1	1.13	20	1.41	115	730
574648 H	299	229	1.2	2.26	< 2	160	< 0.5	2	0.73	< 0.5	17	76	3220	2.18	10	< 1	1.28	20	1.54	130	507
574649 H	299	229	2.2	2.80	12	80	< 0.5	12	0.93	< 0.5	14	65	4110	2.72	10	< 1	1.40	40	1.80	170	481
574650 H	299	229	1.2	2.61	< 2	150	< 0.5	4	0.57	< 0.5	10	79	2370	2.32	10	< 1	1.56	40	1.76	140	415
574651 H	299	229	2.4	1.47	4	170	< 0.5	4	0.63	< 0.5	11	126	3590	1.83	10	< 1	0.91	20	0.97	120	584
574652 H	299	229	2.4	1.39	18	150	< 0.5	< 2	0.61	< 0.5	11	103	3140	2.17	10	< 1	1.05	20	1.18	155	291
574653 H	299	229	2.0	0.68	4	190	< 0.5	< 2	0.44	< 0.5	8	165	3180	1.01	< 10	< 1	0.48	< 10	0.31	60	305
574654 H	299	229	1.6	0.88	10	290	< 0.5	2	0.65	< 0.5	9	193	2430	1.42	10	< 1	0.62	20	0.61	105	145
574655 H	299	229	1.2	0.72	< 2	220	< 0.5	< 2	0.51	< 0.5	8	160	1620	1.11	< 10	< 1	0.53	10	0.40	85	159
574656 H	299	229	1.8	0.73	4	230	< 0.5	< 2	0.62	< 0.5	6	171	2770	1.02	< 10	< 1	0.51	10	0.33	80	446
574657 H	299	229	1.6	0.81	2	210	< 0.5	< 2	0.66	< 0.5	8	155	2430	1.03	< 10	< 1	0.52	10	0.47	80	587
574658 H	299	229	1.6	0.92	6	210	< 0.5	4	0.53	< 0.5	6	173	2500	0.90	< 10	< 1	0.59	10	0.44	70	377
574659 H	299	229	1.8	0.89	< 2	280	< 0.5	4	0.48	< 0.5	8	167	3280	1.08	< 10	< 1	0.61	10	0.55	70	354
574660 H	299	229	0.8	0.86	10	200	< 0.5	< 2	0.48	< 0.5	7	162	1685	0.80	< 10	< 1	0.58	10	0.51	65	356

CERTIFICATION: Stuart Bichler

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574621 H	299	229	0.02	7	260	4	4	7	20	0.03	< 10	20	53	10	14
574622 H	299	229	0.02	9	490	6	8	8	25	0.03	< 10	10	61	10	18
574623 H	299	229	0.02	10	390	140	22	10	40	0.06	< 10	10	75	10	48
574624 H	299	229	0.02	10	560	< 2	6	10	30	0.03	< 10	< 10	70	10	18
574625 H	299	229	0.02	6	240	4	14	7	21	< 0.01	< 10	10	40	< 10	20
574626 H	299	229	0.02	9	370	2	18	9	27	0.01	< 10	10	53	< 10	26
574627 H	299	229	0.01	21	430	8	4	7	29	0.01	< 10	< 10	45	10	22
574628 H	299	229	0.02	10	400	< 2	6	10	28	0.09	< 10	10	80	10	18
574629 H	299	229	0.02	10	450	< 2	< 2	11	20	0.07	< 10	< 10	83	10	14
574630 H	299	229	0.02	9	440	280	58	9	22	0.01	< 10	10	50	10	136
574631 H	299	229	0.02	8	430	8	8	10	26	0.03	< 10	< 10	64	10	16
574632 H	299	229	0.02	9	410	6	6	11	29	0.03	< 10	< 10	63	10	14
574633 H	299	229	0.02	9	440	8	2	10	29	0.02	< 10	< 10	66	10	12
574634 H	299	229	0.02	8	490	6	6	8	22	< 0.01	< 10	10	39	< 10	12
574635 H	299	229	0.02	10	650	12	8	10	33	< 0.01	< 10	10	51	< 10	16
574636 H	299	229	0.02	9	530	6	6	12	26	0.02	< 10	< 10	67	< 10	16
574637 H	299	229	0.02	9	570	14	8	11	27	0.02	< 10	< 10	60	10	12
574638 H	299	229	0.02	12	730	6	20	7	32	< 0.01	< 10	10	38	20	20
574639 H	299	229	0.01	15	1070	8	10	7	35	0.01	< 10	10	44	20	14
574640 H	299	229	0.02	6	470	12	16	6	23	0.04	< 10	20	59	10	12
574641 H	299	229	0.02	6	390	4	6	9	26	0.04	< 10	< 10	62	10	8
574642 H	299	229	0.02	8	510	< 2	2	11	24	0.08	< 10	< 10	80	10	12
574643 H	299	229	0.03	8	370	8	4	11	51	0.09	< 10	10	83	10	16
574644 H	299	229	0.06	9	470	< 2	8	11	77	0.10	< 10	< 10	83	20	14
574645 H	299	229	0.04	8	390	2	2	10	43	0.08	< 10	10	69	10	14
574646 H	299	229	0.03	8	330	4	4	10	34	0.07	< 10	10	67	10	12
574647 H	299	229	0.03	4	480	4	8	11	30	0.10	< 10	10	82	10	14
574648 H	299	229	0.05	8	410	4	4	13	33	0.12	< 10	10	108	20	20
574649 H	299	229	0.02	6	510	12	8	13	30	0.13	< 10	10	119	20	18
574650 H	299	229	0.03	8	340	4	2	18	20	0.16	< 10	< 10	126	20	18
574651 H	299	229	0.03	10	440	< 2	< 2	10	30	0.07	< 10	< 10	71	< 10	20
574652 H	299	229	0.03	9	340	4	< 2	10	37	0.08	< 10	10	86	< 10	28
574653 H	299	229	0.03	5	210	< 2	< 2	2	22	< 0.01	< 10	< 10	17	< 10	16
574654 H	299	229	0.02	6	300	2	< 2	4	34	0.03	< 10	< 10	30	< 10	22
574655 H	299	229	0.02	4	240	4	< 2	3	23	0.01	< 10	< 10	23	< 10	24
574656 H	299	229	0.03	4	210	14	2	2	24	< 0.01	< 10	< 10	16	< 10	22
574657 H	299	229	0.02	3	310	2	2	3	23	0.01	< 10	< 10	27	< 10	18
574658 H	299	229	0.03	6	290	< 2	< 2	3	28	0.01	< 10	< 10	29	< 10	12
574659 H	299	229	0.02	6	280	6	< 2	4	23	0.03	< 10	< 10	32	< 10	16
574660 H	299	229	0.02	4	280	< 2	2	3	20	0.02	< 10	< 10	27	< 10	10

CERTIFICATION: Ian Bichler

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574661 H	299	229	1.2	0.94	34	370	< 0.5	6	0.50	< 0.5	8	181	1910	1.05	< 10	< 1	0.64	10	0.68	70	216
574662 H	299	229	1.8	0.57	16	130	< 0.5	< 2	0.60	< 0.5	7	136	2860	1.08	< 10	< 1	0.34	20	0.49	80	323
574663 H	299	229	1.8	0.40	4	250	< 0.5	4	0.52	< 0.5	8	63	2770	0.89	< 10	< 1	0.26	10	0.45	80	448
574664 H	299	229	1.6	0.42	8	350	< 0.5	2	0.64	< 0.5	7	61	2940	0.95	< 10	< 1	0.28	< 10	0.57	85	319
574665 H	299	229	1.8	0.46	8	160	< 0.5	10	0.59	< 0.5	6	138	3380	0.95	< 10	< 1	0.26	10	0.39	90	579
574666 H	299	229	1.4	0.30	6	100	< 0.5	< 2	0.74	< 0.5	7	43	2300	0.97	< 10	< 1	0.18	10	0.45	90	392
574667 H	299	229	1.6	0.53	10	150	< 0.5	12	0.62	< 0.5	7	142	3150	1.13	< 10	< 1	0.31	10	0.47	95	292
574668 H	299	229	1.4	0.54	< 2	160	< 0.5	< 2	0.64	< 0.5	6	77	2910	1.08	< 10	< 1	0.38	10	0.65	100	214
574669 H	299	229	1.2	0.92	14	250	< 0.5	< 2	0.51	< 0.5	8	228	2420	1.10	< 10	< 1	0.63	10	0.68	85	191
574670 H	299	229	1.8	0.50	16	120	< 0.5	4	0.63	< 0.5	8	139	2980	1.13	< 10	< 1	0.35	< 10	0.60	75	370
574671 H	299	229	2.0	0.80	6	200	< 0.5	4	0.51	< 0.5	8	195	2950	1.13	< 10	< 1	0.59	< 10	0.63	75	221
574672 H	299	229	1.4	0.63	6	180	< 0.5	< 2	0.50	< 0.5	9	123	2930	1.08	< 10	< 1	0.44	< 10	0.65	65	279
574673 H	299	229	1.8	0.84	< 2	210	< 0.5	< 2	0.58	< 0.5	6	230	2470	1.03	< 10	< 1	0.59	20	0.62	80	664
574674 H	299	229	0.8	0.95	4	240	< 0.5	< 2	0.59	< 0.5	3	277	1245	0.89	< 10	< 1	0.60	20	0.56	80	658
574675 H	299	229	1.6	0.50	8	210	< 0.5	< 2	0.70	< 0.5	5	149	2540	0.88	< 10	< 1	0.33	20	0.58	75	428
574676 H	299	229	1.8	0.77	< 2	210	< 0.5	4	0.77	< 0.5	6	208	2580	0.90	< 10	< 1	0.44	10	0.48	110	769
574677 H	299	229	1.8	0.42	8	280	< 0.5	< 2	0.87	< 0.5	8	160	3340	1.04	< 10	< 1	0.24	< 10	0.50	80	559
574678 H	299	229	2.0	0.79	16	340	< 0.5	2	0.63	< 0.5	5	205	2950	1.03	< 10	< 1	0.56	10	0.51	65	360
574679 H	299	229	1.8	0.46	10	190	< 0.5	< 2	0.54	< 0.5	5	155	2990	0.85	< 10	< 1	0.31	< 10	0.47	65	740
574680 H	299	229	1.4	0.39	8	190	< 0.5	< 2	0.60	< 0.5	6	104	2040	0.93	< 10	< 1	0.26	10	0.47	65	603
574681 H	299	229	1.2	0.42	6	170	< 0.5	6	0.55	< 0.5	6	168	1575	0.88	< 10	< 1	0.30	< 10	0.42	70	805
574682 H	299	229	2.0	0.34	8	130	< 0.5	10	0.68	< 0.5	4	68	2960	0.98	< 10	< 1	0.23	10	0.45	80	498
574683 H	299	229	2.2	0.73	2	300	< 0.5	< 2	0.50	< 0.5	8	165	2930	1.02	< 10	< 1	0.54	10	0.54	65	238
574684 H	299	229	1.0	0.88	12	250	< 0.5	4	0.53	< 0.5	4	180	1850	0.97	< 10	< 1	0.61	10	0.60	60	440
574685 H	299	229	1.2	0.64	8	240	< 0.5	2	0.58	< 0.5	4	152	2850	1.01	< 10	< 1	0.45	< 10	0.59	60	512
574686 H	299	229	1.2	0.67	6	410	< 0.5	6	0.43	< 0.5	6	104	3030	0.92	< 10	< 1	0.50	10	0.63	55	391
574687 H	299	229	1.0	0.52	4	230	< 0.5	2	0.52	< 0.5	6	75	2350	0.87	< 10	< 1	0.38	10	0.57	65	512
574688 H	299	229	1.4	0.62	6	170	< 0.5	< 2	0.45	< 0.5	9	115	2650	1.09	< 10	< 1	0.45	10	0.58	85	271
574689 H	299	229	1.4	0.42	2	150	< 0.5	< 2	0.52	< 0.5	7	105	2100	0.87	< 10	< 1	0.32	< 10	0.48	85	416
574690 H	299	229	1.0	0.59	6	340	< 0.5	2	0.45	< 0.5	5	120	1955	0.85	< 10	< 1	0.43	10	0.55	80	400
574691 H	299	229	1.0	0.55	< 2	140	< 0.5	2	0.62	< 0.5	7	103	2130	1.08	< 10	< 1	0.40	10	0.60	90	525
574692 H	299	229	1.0	0.50	8	190	< 0.5	< 2	0.62	< 0.5	8	104	2130	0.88	< 10	< 1	0.36	< 10	0.53	80	579
574693 H	299	229	3.4	0.37	4	80	< 0.5	6	0.87	1.5	7	123	5880	1.60	< 10	< 1	0.22	< 10	0.47	125	348
574694 H	299	229	2.8	0.27	8	170	< 0.5	4	0.69	0.5	12	86	3560	1.14	< 10	< 1	0.15	10	0.33	110	328
574695 H	299	229	1.2	0.25	6	140	< 0.5	4	1.22	< 0.5	7	115	1355	1.04	< 10	< 1	0.16	< 10	0.57	100	639
574696 H	299	229	1.2	0.41	8	110	< 0.5	6	0.84	< 0.5	6	102	2110	1.11	< 10	< 1	0.26	< 10	0.46	85	389
574697 H	299	229	1.6	0.59	6	150	< 0.5	6	0.70	< 0.5	6	101	2130	1.08	< 10	< 1	0.40	< 10	0.54	85	803
574698 H	299	229	1.2	0.69	6	260	< 0.5	6	0.81	< 0.5	6	111	1835	1.03	< 10	< 1	0.47	10	0.73	125	405
574699 H	299	229	0.8	0.78	< 2	230	< 0.5	< 2	0.73	< 0.5	3	119	2100	0.97	< 10	< 1	0.56	10	0.78	120	633
574700 H	299	229	1.4	0.44	66	100	< 0.5	2	1.65	< 0.5	3	112	2040	1.04	< 10	< 1	0.20	10	0.77	400	1115

CERTIFICATION: Hart Bichler

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :5-B
Total Pages :7
Certificate Date: 20-JUL-93
Invoice No. :I9317164
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574661 H	299	229	0.02	3	330	6	< 2	4	24	0.04	< 10	< 10	37	< 10	14
574662 H	299	229	0.01	7	320	< 2	2	4	18	0.02	< 10	< 10	28	< 10	10
574663 H	299	229	0.01	4	260	2	2	3	18	0.02	< 10	< 10	27	< 10	10
574664 H	299	229	0.01	6	270	< 2	2	3	18	0.02	< 10	< 10	29	< 10	16
574665 H	299	229	0.01	6	270	4	2	3	18	0.01	< 10	< 10	22	< 10	14
574666 H	299	229	0.01	4	250	< 2	2	3	13	0.01	< 10	< 10	23	< 10	14
574667 H	299	229	0.01	7	280	6	< 2	3	19	0.02	< 10	< 10	29	< 10	18
574668 H	299	229	0.01	6	290	4	< 2	4	16	0.04	< 10	< 10	36	< 10	20
574669 H	299	229	0.02	7	290	< 2	< 2	4	22	0.04	< 10	< 10	38	< 10	18
574670 H	299	229	0.01	5	260	4	< 2	3	14	0.03	< 10	< 10	32	< 10	16
574671 H	299	229	0.02	7	240	< 2	< 2	3	19	0.03	< 10	< 10	32	< 10	22
574672 H	299	229	0.01	6	260	2	< 2	3	15	0.04	< 10	< 10	34	< 10	20
574673 H	299	229	0.02	7	300	6	2	3	22	0.03	< 10	< 10	33	< 10	22
574674 H	299	229	0.03	6	300	4	2	3	26	0.02	< 10	< 10	34	< 10	16
574675 H	299	229	0.01	6	270	< 2	2	3	20	0.01	< 10	< 10	29	< 10	16
574676 H	299	229	0.02	5	330	< 2	4	3	26	< 0.01	< 10	< 10	26	< 10	16
574677 H	299	229	0.01	8	330	< 2	4	3	23	< 0.01	< 10	< 10	26	< 10	16
574678 H	299	229	0.03	7	260	18	2	3	24	0.01	< 10	< 10	31	< 10	30
574679 H	299	229	0.01	3	410	6	4	2	17	0.02	< 10	< 10	26	< 10	18
574680 H	299	229	0.01	4	260	8	< 2	3	15	0.01	< 10	< 10	27	< 10	20
574681 H	299	229	0.01	5	220	4	6	2	15	0.01	< 10	< 10	24	< 10	20
574682 H	299	229	0.01	4	270	12	< 2	2	14	< 0.01	< 10	< 10	21	< 10	24
574683 H	299	229	0.02	7	250	8	< 2	3	21	0.03	< 10	< 10	32	< 10	24
574684 H	299	229	0.02	5	340	4	< 2	4	23	0.03	< 10	< 10	38	< 10	18
574685 H	299	229	0.02	7	290	2	4	3	21	0.03	< 10	< 10	36	< 10	22
574686 H	299	229	0.01	6	280	< 2	< 2	4	21	0.05	< 10	< 10	39	< 10	18
574687 H	299	229	0.01	6	260	< 2	2	3	20	0.04	< 10	< 10	34	< 10	18
574688 H	299	229	0.01	6	260	6	2	3	18	0.04	< 10	< 10	34	< 10	26
574689 H	299	229	0.01	6	280	< 2	< 2	3	19	0.02	< 10	< 10	28	< 10	28
574690 H	299	229	0.01	6	220	2	< 2	3	22	0.03	< 10	< 10	37	< 10	24
574691 H	299	229	0.01	5	280	14	2	3	17	0.03	< 10	< 10	35	< 10	26
574692 H	299	229	0.01	3	250	6	2	3	17	0.03	< 10	< 10	30	< 10	22
574693 H	299	229	0.01	7	300	32	2	3	16	< 0.01	< 10	< 10	21	< 10	108
574694 H	299	229	0.01	6	260	2	2	2	15	< 0.01	< 10	< 10	14	< 10	34
574695 H	299	229	0.01	4	430	8	4	3	14	< 0.01	< 10	< 10	22	< 10	26
574696 H	299	229	0.01	6	270	10	2	3	15	< 0.01	< 10	< 10	24	< 10	26
574697 H	299	229	0.02	4	300	< 2	4	3	17	0.02	< 10	10	31	< 10	28
574698 H	299	229	0.01	6	330	4	2	4	20	0.04	< 10	< 10	40	< 10	28
574699 H	299	229	0.02	6	450	4	2	4	20	0.05	< 10	< 10	43	< 10	36
574700 H	299	229	0.01	2	350	28	18	3	16	< 0.01	< 10	< 10	22	< 10	44

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :I9317164
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574701 H	299	229	2.2	0.58	16	320	< 0.5	< 2	0.69	< 0.5	4	141	4280	1.16	< 10	< 1	0.33	10	0.41	110	640
574702 H	299	229	1.8	0.53	12	200	< 0.5	14	0.50	< 0.5	5	126	2300	1.28	< 10	< 1	0.35	10	0.38	90	402
574703 H	299	229	2.2	0.44	18	250	< 0.5	2	0.62	< 0.5	7	93	2670	1.18	< 10	< 1	0.24	10	0.35	115	602
574704 H	299	229	2.8	0.47	18	410	< 0.5	2	0.68	< 0.5	4	114	2830	0.94	< 10	< 1	0.26	10	0.30	130	436
574705 H	299	229	1.6	0.37	16	200	< 0.5	< 2	0.96	< 0.5	3	118	2310	0.87	< 10	< 1	0.20	10	0.44	190	909
574706 H	299	229	1.6	0.44	6	200	< 0.5	< 2	0.56	< 0.5	5	91	2820	0.89	< 10	< 1	0.25	10	0.40	110	511
574707 H	299	229	0.6	0.55	< 2	250	< 0.5	< 2	0.66	< 0.5	2	120	1365	0.78	< 10	< 1	0.31	10	0.49	120	603
574708 H	299	229	2.4	0.48	< 2	170	< 0.5	2	0.90	< 0.5	6	102	2230	1.16	< 10	< 1	0.29	10	0.53	140	525
574709 H	299	229	1.8	0.47	< 2	250	< 0.5	4	0.76	< 0.5	3	119	2060	0.91	< 10	< 1	0.28	10	0.45	130	527
574710 H	299	229	1.6	0.52	< 2	220	< 0.5	< 2	0.99	< 0.5	4	135	2170	0.95	< 10	< 1	0.25	20	0.51	150	383
574711 H	299	229	4.8	0.58	4	210	< 0.5	18	1.32	< 0.5	6	112	3930	1.51	10	< 1	0.27	50	0.71	225	404
574712 H	299	229	3.2	0.91	6	270	< 0.5	2	1.01	< 0.5	9	140	3830	1.46	10	< 1	0.43	60	0.70	180	181
574713 H	299	229	2.2	0.89	2	350	< 0.5	6	1.61	< 0.5	7	120	3480	1.39	10	< 1	0.50	40	0.90	220	284
574714 H	299	229	2.4	0.71	14	170	< 0.5	< 2	1.32	< 0.5	8	98	2960	1.77	10	< 1	0.37	30	0.78	135	321
574715 H	299	229	2.2	0.81	< 2	180	< 0.5	6	1.11	< 0.5	9	102	4130	1.68	< 10	< 1	0.43	30	0.82	130	267
574716 H	299	229	3.2	0.65	16	140	< 0.5	2	1.14	< 0.5	14	124	5220	1.75	< 10	< 1	0.18	30	0.61	160	248
574717 H	299	229	2.8	1.07	4	190	< 0.5	4	1.39	< 0.5	15	113	4870	1.94	10	< 1	0.41	40	0.93	195	307
574718 H	299	229	3.6	0.77	34	70	< 0.5	4	1.09	< 0.5	26	127	4660	2.61	< 10	< 1	0.29	30	0.64	175	287
574719 H	299	229	3.8	0.65	72	210	< 0.5	2	1.34	< 0.5	16	145	6760	1.92	10	< 1	0.17	40	0.62	145	239
574720 H	299	229	2.8	0.44	82	250	< 0.5	< 2	1.55	< 0.5	11	119	5210	1.53	< 10	< 1	0.12	30	0.68	120	373
574721 H	299	229	3.2	0.45	96	200	< 0.5	8	1.58	< 0.5	16	93	5290	1.87	< 10	< 1	0.13	30	0.72	145	202
574722 H	299	229	3.8	0.53	14	170	< 0.5	12	0.98	< 0.5	23	77	6740	2.27	< 10	< 1	0.20	50	0.54	125	781
574723 H	299	229	4.2	0.34	234	290	< 0.5	4	1.83	< 0.5	8	73	4540	1.51	< 10	< 1	0.10	20	0.78	240	503
574724 H	299	229	4.8	0.47	148	70	< 0.5	2	1.13	< 0.5	16	130	4100	2.69	< 10	< 1	0.20	20	0.53	165	902
574725 H	299	229	4.2	0.40	96	250	< 0.5	< 2	1.23	< 0.5	10	87	4160	1.39	< 10	< 1	0.13	20	0.49	170	328
574726 H	299	229	3.8	0.45	110	210	< 0.5	12	1.37	< 0.5	9	99	3230	1.54	< 10	< 1	0.15	20	0.59	165	276
574727 H	299	229	5.0	0.48	24	130	< 0.5	6	1.46	< 0.5	11	83	4530	2.02	< 10	< 1	0.18	20	0.67	135	187
574728 H	299	229	4.2	0.54	14	170	< 0.5	< 2	1.49	< 0.5	18	41	4270	2.00	< 10	< 1	0.26	20	0.83	150	157
574729 H	299	229	2.0	0.48	46	270	< 0.5	2	1.36	< 0.5	13	73	3900	1.54	< 10	< 1	0.15	30	0.62	120	202
574730 H	299	229	1.4	0.68	2	330	< 0.5	< 2	1.20	0.5	11	74	3850	1.33	< 10	< 1	0.35	30	0.78	110	297
574731 H	299	229	1.6	0.38	100	430	< 0.5	4	3.18	< 0.5	9	66	3780	1.63	< 10	< 1	0.08	10	1.41	275	248
574732 H	299	229	3.4	0.51	78	210	< 0.5	20	1.95	< 0.5	14	67	3980	2.07	< 10	< 1	0.12	20	0.90	210	194
574733 H	299	229	3.4	0.56	118	210	< 0.5	< 2	2.16	< 0.5	13	95	5340	1.83	< 10	< 1	0.12	20	0.92	225	355
574734 H	299	229	2.2	0.82	6	210	< 0.5	< 2	1.20	< 0.5	20	63	5320	2.44	< 10	< 1	0.30	30	0.78	135	193
574735 H	299	229	3.8	0.81	12	200	< 0.5	< 2	1.25	< 0.5	16	81	4500	2.02	10	< 1	0.47	30	0.93	165	596
574736 H	299	229	5.2	0.91	28	90	0.5	6	1.30	< 0.5	19	60	3630	2.67	10	< 1	0.46	40	0.87	165	780
574737 H	299	229	3.0	1.01	4	190	0.5	4	0.95	< 0.5	16	43	2820	2.50	< 10	< 1	0.61	20	0.88	240	232
574738 H	299	229	3.8	0.57	40	90	0.5	10	1.51	< 0.5	19	89	3530	2.61	< 10	< 1	0.21	20	0.64	170	194
574739 H	299	229	4.4	0.89	22	250	< 0.5	14	1.45	< 0.5	21	68	5110	2.13	< 10	< 1	0.41	30	0.91	140	239
574740 H	299	229	4.4	0.55	36	90	0.5	12	1.33	< 0.5	23	61	3720	2.90	< 10	< 1	0.26	20	0.62	105	301

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574701 H	299	229	0.01	8	350	6	4	3	24	< 0.01	< 10	< 10	23	< 10	26
574702 H	299	229	0.01	6	310	8	2	3	17	0.01	< 10	< 10	24	< 10	24
574703 H	299	229	0.01	6	320	2	6	3	17	< 0.01	< 10	< 10	18	< 10	38
574704 H	299	229	0.01	4	520	< 2	12	2	20	< 0.01	< 10	< 10	13	< 10	32
574705 H	299	229	0.01	6	250	6	8	2	15	< 0.01	< 10	< 10	17	< 10	32
574706 H	299	229	0.01	7	250	18	4	3	13	0.01	< 10	10	26	< 10	56
574707 H	299	229	0.01	5	230	8	6	3	14	0.01	< 10	< 10	31	< 10	24
574708 H	299	229	0.01	6	380	26	4	3	18	< 0.01	< 10	< 10	26	< 10	36
574709 H	299	229	0.01	6	250	16	4	3	19	< 0.01	< 10	< 10	25	< 10	32
574710 H	299	229	0.01	6	280	12	4	3	19	< 0.01	< 10	< 10	25	< 10	48
574711 H	299	229	0.01	10	450	18	6	7	25	< 0.01	< 10	< 10	44	< 10	68
574712 H	299	229	0.01	11	330	8	6	7	26	0.01	< 10	< 10	47	< 10	50
574713 H	299	229	0.01	9	340	10	2	8	28	0.03	< 10	< 10	61	< 10	42
574714 H	299	229	0.01	10	390	4	4	4	40	0.01	< 10	< 10	32	< 10	38
574715 H	299	229	0.01	9	310	6	2	8	24	0.02	< 10	< 10	47	< 10	28
574716 H	299	229	0.01	11	360	2	2	8	21	< 0.01	< 10	< 10	39	< 10	24
574717 H	299	229	0.01	10	440	8	6	10	20	0.03	< 10	< 10	58	< 10	28
574718 H	299	229	0.01	10	470	10	12	7	20	< 0.01	< 10	10	38	< 10	30
574719 H	299	229	0.01	14	420	8	6	8	20	< 0.01	< 10	< 10	36	< 10	34
574720 H	299	229	0.01	12	360	6	8	7	20	< 0.01	< 10	< 10	35	< 10	38
574721 H	299	229	0.01	8	370	6	10	8	19	< 0.01	< 10	< 10	38	< 10	36
574722 H	299	229	0.01	10	460	6	12	7	15	< 0.01	< 10	< 10	46	< 10	26
574723 H	299	229	< 0.01	14	320	14	90	3	18	< 0.01	< 10	< 10	20	< 10	58
574724 H	299	229	0.01	9	380	20	28	4	17	< 0.01	< 10	< 10	21	< 10	38
574725 H	299	229	0.01	9	350	14	20	5	16	< 0.01	< 10	< 10	24	< 10	34
574726 H	299	229	0.01	9	450	8	26	5	26	< 0.01	< 10	< 10	24	< 10	38
574727 H	299	229	0.01	9	400	4	2	5	23	< 0.01	< 10	< 10	21	< 10	32
574728 H	299	229	0.01	6	450	8	2	8	19	0.02	< 10	< 10	44	< 10	40
574729 H	299	229	0.01	7	350	< 2	6	7	19	< 0.01	< 10	< 10	38	< 10	32
574730 H	299	229	0.01	8	400	< 2	8	8	27	0.03	< 10	< 10	53	< 10	32
574731 H	299	229	0.01	9	330	12	20	8	27	< 0.01	< 10	< 10	39	< 10	28
574732 H	299	229	0.01	10	340	12	20	7	21	< 0.01	< 10	< 10	34	< 10	40
574733 H	299	229	0.01	8	420	6	18	8	21	< 0.01	< 10	< 10	40	< 10	48
574734 H	299	229	0.01	7	430	6	8	10	24	0.02	< 10	< 10	58	< 10	42
574735 H	299	229	0.01	8	480	< 2	10	9	23	0.04	< 10	< 10	60	< 10	50
574736 H	299	229	0.01	8	530	4	8	6	49	0.03	< 10	< 10	47	10	50
574737 H	299	229	0.01	7	490	6	4	8	19	0.04	< 10	< 10	51	< 10	60
574738 H	299	229	0.01	8	450	2	10	7	16	< 0.01	< 10	< 10	32	< 10	52
574739 H	299	229	0.01	9	520	8	2	12	56	0.03	< 10	< 10	66	< 10	30
574740 H	299	229	0.01	6	440	4	4	6	17	< 0.01	< 10	< 10	33	< 10	40

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :19317164
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574741 H	299	229	1.4	1.00	66	90	1.0	14	1.23	< 0.5	15	68	1460	2.86	< 10	< 1	0.35	30	0.53	85	88
574742 H	299	229	2.6	0.52	62	40	0.5	46	1.40	< 0.5	15	119	2720	3.01	< 10	< 1	0.31	< 10	0.67	80	104
574743 H	299	229	4.0	0.36	54	120	< 0.5	12	1.17	< 0.5	15	106	3920	2.00	< 10	< 1	0.17	10	0.53	100	275
574744 H	299	229	3.4	0.39	46	160	< 0.5	2	1.41	< 0.5	12	103	4380	1.67	< 10	< 1	0.14	10	0.57	125	282
574745 H	299	229	1.6	0.36	48	400	< 0.5	6	1.58	< 0.5	7	87	2860	1.14	< 10	< 1	0.11	20	0.66	125	408
574746 H	299	229	15.2	0.24	358	40	< 0.5	24	2.74	0.5	21	121	>10000	2.93	< 10	< 1	0.10	20	1.23	200	930
574747 H	299	229	19.4	0.37	306	20	0.5	30	2.45	< 0.5	28	129	>10000	3.97	< 10	< 1	0.11	20	1.06	175	2970
574748 H	299	229	4.8	0.71	28	170	< 0.5	6	0.85	< 0.5	16	104	5070	1.81	< 10	< 1	0.41	40	0.64	205	572
574749 H	299	229	5.2	0.62	44	60	0.5	38	1.00	< 0.5	25	115	4280	3.80	< 10	< 1	0.31	30	0.65	190	286
574750 H	299	229	2.6	0.26	48	70	< 0.5	16	1.27	< 0.5	21	69	2700	2.97	< 10	< 1	0.19	20	0.57	130	246
574751 H	299	229	2.4	0.42	52	150	< 0.5	4	1.62	< 0.5	13	106	2670	1.87	< 10	< 1	0.24	20	0.79	125	529
574752 H	299	229	3.2	0.37	68	130	< 0.5	8	1.10	< 0.5	14	63	3500	1.96	< 10	< 1	0.26	10	0.66	95	226
574753 H	299	229	2.0	0.25	50	200	< 0.5	2	1.00	< 0.5	8	96	2740	1.11	< 10	< 1	0.16	10	0.45	70	669
574754 H	299	229	3.0	0.26	34	100	< 0.5	10	1.25	< 0.5	14	78	3340	2.21	< 10	< 1	0.15	10	0.58	135	164
574755 H	299	229	2.8	0.84	24	190	0.5	6	0.89	< 0.5	25	116	3560	2.16	< 10	< 1	0.59	20	0.92	120	105
574756 H	299	229	2.2	0.47	10	210	< 0.5	< 2	1.04	< 0.5	12	99	3080	1.63	< 10	< 1	0.31	10	0.67	110	489
574757 H	299	229	2.4	0.94	16	280	< 0.5	14	0.98	< 0.5	13	142	3000	1.68	< 10	< 1	0.63	20	0.98	110	192
574758 H	299	229	3.6	0.68	10	220	< 0.5	6	0.90	< 0.5	17	78	4890	1.99	< 10	< 1	0.48	20	0.84	105	185
574759 H	299	229	1.4	0.48	20	210	< 0.5	2	3.26	< 0.5	11	87	2180	2.20	< 10	< 1	0.26	20	1.48	160	233
574760 H	299	229	2.0	0.35	46	90	0.5	20	3.80	< 0.5	17	86	2440	3.73	< 10	< 1	0.21	20	1.71	275	216
574761 H	299	229	2.4	0.26	44	90	0.5	2	2.77	0.5	19	83	3900	2.54	< 10	< 1	0.12	20	1.07	205	110
574762 H	299	229	2.8	0.33	14	130	< 0.5	8	2.23	< 0.5	14	54	4660	2.04	< 10	< 1	0.19	20	1.00	150	329
574763 H	299	229	2.8	0.69	16	190	< 0.5	< 2	0.90	< 0.5	22	82	4190	2.22	< 10	< 1	0.55	10	0.95	105	150
574764 H	299	229	1.8	0.54	26	210	< 0.5	2	1.20	< 0.5	13	93	2610	1.56	< 10	< 1	0.39	10	0.86	95	304
573153 A	299	229	2.2	0.51	40	110	< 0.5	2	0.02	< 0.5	6	82	649	1.27	< 10	< 1	0.36	20	0.04	15	364
573154 A	299	229	1.2	0.62	6	70	0.5	12	0.04	0.5	22	119	4610	1.55	< 10	< 1	0.24	30	0.04	50	140
573155 A	299	229	3.8	1.19	800	40	1.0	16	0.09	1.0	15	105	6700	1.82	< 10	< 1	0.19	30	0.05	15	411
573156 A	299	229	1.2	1.06	14	230	< 0.5	4	0.52	< 0.5	18	159	2700	1.47	< 10	< 1	0.67	10	0.87	130	159
573157 A	299	229	1.8	0.70	14	90	< 0.5	4	0.69	< 0.5	12	108	2710	1.23	< 10	< 1	0.52	10	0.72	235	728
573158 A	299	229	1.6	0.75	8	170	< 0.5	< 2	0.43	< 0.5	9	92	2060	1.01	< 10	< 1	0.57	10	0.76	95	469
573159 A	299	229	1.6	0.96	8	100	0.5	2	0.71	< 0.5	7	97	2960	1.40	< 10	< 1	0.62	10	0.93	110	950
573160 A	299	229	0.8	0.51	12	120	< 0.5	< 2	0.50	< 0.5	8	99	1600	0.73	< 10	< 1	0.34	10	0.47	60	464
573161 A	299	229	1.4	0.46	2	190	< 0.5	6	0.52	< 0.5	3	114	2160	0.88	< 10	< 1	0.32	10	0.45	60	647
573162 A	299	229	1.2	0.35	28	140	< 0.5	8	1.22	< 0.5	3	137	2080	0.86	< 10	< 1	0.15	20	0.56	245	1025
573163 A	299	229	3.6	0.42	110	190	< 0.5	14	1.80	< 0.5	13	88	6850	1.73	< 10	< 1	0.11	30	0.78	130	257
573164 A	299	229	4.6	0.75	52	80	0.5	6	1.24	< 0.5	24	96	3660	2.83	< 10	< 1	0.35	20	0.63	110	258
573165 A	299	229	1.6	0.31	44	70	0.5	12	2.62	< 0.5	20	58	2750	3.23	< 10	< 1	0.19	20	1.19	195	337

CERTIFICATION: Bert Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 164
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :I9317164
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317164

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574741 H	299	229	0.02	4	740	14	< 2	2	29	< 0.01	< 10	< 10	18	10	22
574742 H	299	229	0.01	7	540	20	4	1	22	< 0.01	< 10	< 10	7	10	18
574743 H	299	229	0.01	7	250	18	2	4	23	< 0.01	< 10	10	17	10	24
574744 H	299	229	0.01	8	380	8	4	6	18	< 0.01	< 10	< 10	27	< 10	24
574745 H	299	229	0.01	7	270	16	6	7	22	< 0.01	< 10	< 10	28	< 10	22
574746 H	299	229	0.01	36	290	10	60	4	20	< 0.01	< 10	< 10	36	< 10	42
574747 H	299	229	0.01	46	300	20	60	4	24	< 0.01	< 10	< 10	43	10	48
574748 H	299	229	0.01	11	270	14	4	8	20	0.02	< 10	< 10	43	< 10	38
574749 H	299	229	0.01	11	340	14	2	6	15	0.01	< 10	< 10	35	< 10	24
574750 H	299	229	0.01	9	340	6	4	3	18	< 0.01	< 10	< 10	15	< 10	16
574751 H	299	229	0.01	8	290	12	8	7	22	0.01	< 10	< 10	33	< 10	22
574752 H	299	229	0.01	7	330	4	2	7	22	0.01	< 10	10	33	< 10	20
574753 H	299	229	0.01	7	190	8	8	6	21	< 0.01	< 10	< 10	21	< 10	16
574754 H	299	229	0.01	9	350	4	4	7	20	< 0.01	< 10	< 10	25	< 10	18
574755 H	299	229	0.01	10	430	4	2	11	22	0.05	< 10	< 10	58	< 10	20
574756 H	299	229	0.01	7	380	10	4	7	24	0.01	< 10	10	38	< 10	20
574757 H	299	229	0.02	9	460	6	< 2	9	30	0.06	< 10	< 10	56	< 10	22
574758 H	299	229	0.01	8	450	12	< 2	9	32	0.04	< 10	10	49	< 10	20
574759 H	299	229	0.01	7	400	< 2	< 2	8	42	0.01	< 10	< 10	43	10	24
574760 H	299	229	0.01	7	370	20	6	7	56	< 0.01	< 10	< 10	32	10	36
574761 H	299	229	0.01	8	350	12	4	7	61	< 0.01	< 10	< 10	34	< 10	34
574762 H	299	229	0.01	9	340	4	4	7	34	0.01	< 10	< 10	40	< 10	26
574763 H	299	229	0.01	10	390	14	2	8	38	0.06	< 10	< 10	52	< 10	20
574764 H	299	229	0.01	10	310	< 2	< 2	8	26	0.03	< 10	< 10	46	< 10	22
573153 A	299	229	0.01	1	350	64	4	1	24	< 0.01	< 10	< 10	7	< 10	14
573154 A	299	229	0.01	7	290	16	< 2	1	15	< 0.01	< 10	< 10	10	< 10	54
573155 A	299	229	0.01	13	770	60	96	2	272	< 0.01	< 10	10	13	< 10	158
573156 A	299	229	0.02	8	360	12	2	6	23	0.04	< 10	10	49	< 10	36
573157 A	299	229	0.01	6	360	14	6	6	12	0.03	< 10	< 10	45	< 10	34
573158 A	299	229	0.03	7	340	6	2	7	16	0.04	< 10	< 10	59	< 10	8
573159 A	299	229	0.01	7	440	16	8	7	16	0.06	< 10	10	59	< 10	12
573160 A	299	229	0.01	2	280	6	2	2	15	0.02	< 10	< 10	23	< 10	8
573161 A	299	229	0.01	4	260	14	4	3	16	0.01	< 10	< 10	26	< 10	20
573162 A	299	229	0.01	4	350	16	8	3	14	< 0.01	< 10	< 10	19	< 10	28
573163 A	299	229	0.01	12	350	16	4	8	21	< 0.01	< 10	< 10	37	< 10	34
573164 A	299	229	0.01	7	430	10	2	6	17	0.01	< 10	10	37	< 10	28
573165 A	299	229	0.01	9	410	24	4	7	39	0.01	< 10	< 10	31	10	30

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-JUL-93
Invoice No. : I9316608
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316608

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
568800H	208 274	< 0.01	0.001	0.07	3160
568801H	208 276	< 0.01	0.001	0.14	9600
568802H	208 276	< 0.01	< 0.001	0.17	9040
568803H	208 276	< 0.01	< 0.001	0.21	10460
568804H	208 276	< 0.01	0.001	0.21	9500
568805H	208 276	< 0.01	0.001	0.27	8700
568806H	208 276	< 0.01	< 0.001	0.27	8080
568807H	208 276	< 0.01	< 0.001	0.17	9340
568808H	208 276	< 0.01	0.001	0.17	10560
568809H	208 276	< 0.01	0.001	0.34	7300
568810H	208 276	< 0.01	0.002	0.34	10400
568811H	208 276	< 0.01	0.001	0.10	9040
568812H	208 274	< 0.01	0.001	0.14	5200
568813H	208 274	< 0.01	0.001	0.31	5620
568814H	208 276	< 0.01	0.001	0.21	9800
568815H	208 276	< 0.01	0.002	0.21	10700
568816H	208 276	< 0.01	0.002	0.21	9360
568817H	208 276	< 0.01	0.003	0.38	9280
568818H	208 276	< 0.01	0.002	0.24	11060
568819H	208 276	< 0.01	0.002	0.41	9580
568820H	208 276	< 0.01	0.001	0.38	11120
568821H	208 276	< 0.01	0.002	0.14	11100
568822H	208 276	< 0.01	0.003	0.38	11260
568823H	208 276	< 0.01	0.007	0.38	10520
568824H	208 276	< 0.01	0.026	0.27	10680
568825H	208 276	< 0.01	0.017	0.27	9720
568826H	208 274	< 0.01	0.010	0.48	6300
568827H	208 276	< 0.01	0.010	1.20	9360
568828H	208 276	< 0.01	0.005	0.34	8500
568829H	208 274	< 0.01	0.006	0.34	6940
568830H	208 276	< 0.01	0.007	0.38	11160
568831H	208 274	< 0.01	0.006	0.31	5640
568832H	208 276	< 0.01	0.006	0.31	7960
568833H	208 276	< 0.01	0.008	0.34	10500
568834H	208 276	< 0.01	0.005	0.27	9700
568835H	208 276	< 0.01	0.004	0.86	11680
568836H	208 273	< 0.01	0.007	0.62	12020
568837H	208 273	< 0.01	0.028	0.41	13600
568838H	208 276	< 0.01	0.015	0.99	10040
568839H	208 273	< 0.01	0.016	0.31	12500

CERTIFICATION: Saidzeinab

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-JUL-93
Invoice No. :19316608
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Account :FC

CERTIFICATE OF ANALYSIS A9316608

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
568840H	208 274	0.02	0.012	0.34	6920
568841H	208 276	0.01	0.004	0.24	8960
568842H	208 276	0.01	0.010	0.31	10880
568843H	208 276	0.01	0.007	0.31	8920
568844H	208 276	0.01	0.009	0.38	10300
568845H	208 273	0.01	0.008	0.27	12580
568846H	208 276	0.01	0.008	0.17	10200
568847H	208 276	0.01	0.009	0.24	9060
568848H	208 276	0.01	0.013	0.31	10140
568849H	208 276	0.04	0.012	0.27	9380
568850H	208 276	0.03	0.011	0.21	9820
568851H	208 276	0.03	0.005	0.21	10760
568852H	208 276	0.06	0.003	0.24	10880
568853H	208 276	0.08	0.006	0.21	9060
568854H	208 276	0.05	0.006	0.21	10040
568855H	208 276	0.14	0.012	0.21	10020
568856H	208 276	0.29	0.005	0.24	9860
568857H	208 276	0.20	0.007	0.24	7540
568858H	208 276	0.31	0.037	0.21	8680
568859H	208 274	0.18	0.005	0.14	6440
568860H	208 276	0.38	0.012	0.34	8140
568861H	208 276	0.28	0.013	0.27	11100
568862H	208 274	0.30	0.006	0.17	6300
568863H	208 276	0.40	0.029	0.38	10780
568864H	208 273	0.22	0.011	0.24	12460
568865H	208 273	0.22	0.010	0.21	12560
568866H	208 276	0.17	0.008	0.14	10820
568867H	208 273	0.21	0.016	0.21	12960
568868H	208 276	0.19	0.009	0.17	10260
568869H	208 276	0.16	0.005	0.31	10900
568870H	208 276	0.28	0.010	0.21	9320
568871H	208 276	0.28	0.030	0.31	11320
568872H	208 276	0.33	0.034	0.24	10540
568873H	208 276	0.31	0.040	0.27	10160
568874H	208 276	0.18	0.010	0.24	10260
568875H	208 273	0.14	0.024	0.17	12940
568876H	208 276	0.19	0.012	0.21	10960
568877H	208 276	0.18	0.004	0.21	11640
568878H	208 276	0.21	0.007	0.27	11600
568879H	208 276	0.18	0.005	0.21	10780

CERTIFICATION: Said Zeinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-JUL-93
Invoice No. :19316608
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316608

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
568880H	208 273	0.21	0.009	0.31	12980
568881H	208 273	0.19	0.021	0.24	12580
568882H	208 273	0.18	0.007	0.27	12520
568883H	208 273	0.13	0.009	0.24	12320
568884H	208 273	0.12	0.002	0.34	12720
568885H	208 276	0.10	0.003	0.10	11340
568886H	208 276	0.21	0.021	0.14	11760
568887H	208 276	0.16	0.004	0.14	10760
568888H	208 273	0.11	0.005	0.14	11960
568889H	208 273	0.07	0.002	0.07	11880
568890H	208 273	0.13	0.004	0.21	12060
568891H	208 276	0.14	0.003	0.14	11220
568892H	208 273	0.10	0.004	0.14	12480
568893H	208 273	0.12	0.004	0.21	13100
568894H	208 273	0.07	0.002	0.10	11950
568895H	208 273	0.09	0.002	0.07	12980
568896H	208 273	0.09	0.005	0.14	12680
568897H	208 273	0.07	0.008	0.07	13560
568898H	208 273	0.11	0.003	0.14	12500
568899H	208 273	0.13	0.005	0.21	12150
568900H	208 273	0.13	0.012	0.17	12740
568901H	208 273	0.10	0.005	0.17	12320
568902H	208 273	0.10	0.006	0.14	12900
568903H	208 273	0.07	0.003	0.10	12980
568904H	208 273	0.11	0.008	0.14	12280
568905H	208 273	0.06	0.007	0.10	15500
568906H	208 273	0.11	0.006	0.14	14100
568907H	208 273	0.10	0.006	0.14	14280
568908H	208 273	0.11	0.007	0.10	13440
568909H	208 273	0.14	0.008	0.17	11900
568910H	208 273	0.26	0.004	0.03	13850
568911H	208 273	0.08	0.005	0.07	13630
568912H	208 273	0.09	0.007	0.10	13540
568913H	208 274	0.11	0.012	0.07	6400
568914H	208 276	0.10	0.017	0.10	10700
568915H	208 273	0.05	0.006	0.07	13640
568916H	208 273	0.09	0.005	0.14	14580
568917H	208 270	0.05	0.003	0.10	19360
568918H	208 273	0.04	0.005	0.03	14450
568919H	208 273	0.06	0.002	0.07	13800

CERTIFICATION: Barb Ziminski

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Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate [illegible]: 10-JUL-93
Invoice No. : I9316608
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CERTIFICATE OF ANALYSIS A9316608

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
568920H	208 273	0.04	0.002	< 0.03	13560
568921H	208 273	0.03	0.004	< 0.03	13250
568922H	208 273	0.03	0.003	< 0.03	12510
568923H	208 273	0.04	0.003	< 0.03	11980
568924H	208 273	0.04	0.001	< 0.03	13540
568925H	208 273	0.03	0.001	0.03	15200
568926H	208 273	0.03	0.001	< 0.03	14360
568927H	208 273	0.04	0.001	0.21	14950
568928H	208 270	0.02	0.001	< 0.03	16820
568929H	208 273	0.02	0.001	0.07	14200
568930H	208 273	0.07	< 0.001	0.07	14260
568931H	208 276	0.01	0.001	0.03	11520
568932H	208 273	0.03	0.002	0.14	12940
568933H	208 276	0.02	< 0.001	< 0.03	10900
568934H	208 276	0.02	< 0.001	< 0.03	11420
568935H	208 276	0.02	0.001	< 0.03	11500
568936H	208 276	0.02	< 0.001	< 0.03	11140
568937H	208 273	0.01	< 0.001	< 0.03	13600
568938H	208 273	0.02	< 0.001	< 0.03	14080
568939H	208 273	0.02	< 0.001	< 0.03	12640
568940H	208 273	0.04	0.001	0.14	13100
568941H	208 273	0.02	< 0.001	0.03	12320
568942H	208 273	0.01	< 0.001	0.07	13790
568943H	208 273	0.02	< 0.001	0.10	12350
568944H	208 273	0.02	< 0.001	0.07	13240
568945H	208 273	0.02	< 0.001	0.14	13320
568946H	208 273	0.01	< 0.001	< 0.03	13410
568947H	208 273	0.01	< 0.001	< 0.03	13280
568948H	208 273	0.02	< 0.001	0.14	13080
568949H	208 273	0.03	0.001	0.07	13560
568950H	208 273	0.07	< 0.001	0.07	13160
568951H	208 273	0.02	< 0.001	0.10	13440
568952H	208 273	0.02	0.002	0.07	13640
568953H	208 273	0.04	< 0.001	0.17	12660
568954H	208 276	0.01	0.001	< 0.03	11420
568955H	208 273	0.01	0.001	< 0.03	13500
806A	208 274	< 0.01	0.001	0.34	6760
807A	208 274	< 0.01	0.016	0.34	5680
808A	208 274	0.18	0.005	0.10	5240
809A	208 274	0.17	0.008	0.24	6880

CERTIFICATION: Saad Zeinab

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9316608

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
810A	208	274	0.15	0.007	0.21	6520						
811A	208	274	0.06	0.003	0.10	6620						
812A	208	274	0.02	0.001	0.07	6440						

CERTIFICATION: Said Zeinab

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 165
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Certificate Date: 11-JUL-93
Invoice No. :I9316609
P.O. Number :
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CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
568800H	299	229	0.2	0.39	2	340	< 0.5	< 2	0.02	< 0.5	< 1	83	19	0.82	< 10	< 1	0.37	20	0.02	10	6
568801H	299	229	0.6	0.41	4	280	< 0.5	< 2	0.01	< 0.5	< 1	76	14	0.80	< 10	1	0.40	10	0.02	5	2
568802H	299	229	1.6	0.42	4	510	< 0.5	< 2	0.01	< 0.5	< 1	90	16	1.17	< 10	< 1	0.46	10	0.02	5	2
568803H	299	229	0.2	0.46	6	360	< 0.5	2	0.01	< 0.5	< 1	87	19	1.82	< 10	< 1	0.58	10	0.02	5	2
568804H	299	229	< 0.2	0.50	6	360	< 0.5	4	0.01	< 0.5	< 1	85	15	2.02	< 10	< 1	0.66	20	0.02	5	3
568805H	299	229	0.6	0.46	6	280	< 0.5	2	0.01	< 0.5	< 1	89	15	1.23	< 10	< 1	0.51	20	0.02	5	2
568806H	299	229	0.4	0.39	26	250	< 0.5	4	0.01	< 0.5	< 1	101	16	2.57	< 10	< 1	0.73	10	0.01	5	7
568807H	299	229	0.4	0.39	12	260	< 0.5	< 2	0.01	< 0.5	< 1	86	14	1.98	< 10	< 1	0.62	20	0.01	5	3
568808H	299	229	< 0.2	0.41	16	180	< 0.5	4	0.01	< 0.5	< 1	112	16	3.07	< 10	< 1	0.77	20	0.01	5	7
568809H	299	229	0.2	0.39	4	360	< 0.5	< 2	0.01	< 0.5	< 1	97	28	1.54	< 10	< 1	0.41	20	0.01	5	6
568810H	299	229	0.6	0.42	8	180	< 0.5	< 2	0.01	< 0.5	< 1	105	22	0.98	< 10	< 1	0.36	20	0.01	5	8
568811H	299	229	0.8	0.57	6	250	< 0.5	< 2	0.01	< 0.5	< 1	104	15	0.41	< 10	< 1	0.39	30	0.02	10	7
568812H	299	229	0.6	0.53	6	640	< 0.5	< 2	0.01	< 0.5	< 1	85	12	0.59	< 10	1	0.41	20	0.03	5	2
568813H	299	229	0.4	0.50	8	370	< 0.5	< 2	< 0.01	< 0.5	< 1	90	18	0.89	< 10	< 1	0.42	20	0.02	5	5
568814H	299	229	1.2	0.57	6	530	< 0.5	2	0.01	< 0.5	< 1	93	18	0.63	< 10	< 1	0.42	20	0.03	10	4
568815H	299	229	0.4	0.55	4	660	< 0.5	2	0.01	< 0.5	< 1	87	13	0.69	< 10	< 1	0.39	20	0.02	5	4
568816H	299	229	0.4	0.52	4	490	< 0.5	4	0.01	< 0.5	< 1	78	12	0.47	< 10	< 1	0.36	30	0.02	5	7
568817H	299	229	1.6	0.48	30	200	< 0.5	< 2	0.01	< 0.5	< 1	76	16	1.78	< 10	< 1	0.51	10	0.02	5	14
568818H	299	229	1.4	0.43	12	180	< 0.5	< 2	0.01	< 0.5	< 1	82	17	1.68	< 10	< 1	0.52	10	0.02	5	9
568819H	299	229	1.2	0.40	8	140	< 0.5	4	0.01	< 0.5	< 1	102	23	2.08	< 10	1	0.59	10	0.01	5	10
568820H	299	229	0.6	0.59	16	120	< 0.5	< 2	0.01	< 0.5	< 1	86	21	2.04	< 10	< 1	0.59	10	0.02	5	10
568821H	299	229	0.6	0.68	12	180	< 0.5	< 2	0.01	< 0.5	< 1	65	16	1.53	< 10	< 1	0.57	10	0.03	5	10
568822H	299	229	1.2	0.64	10	190	< 0.5	< 2	< 0.01	< 0.5	< 1	91	19	1.36	< 10	< 1	0.59	< 10	0.02	5	16
568823H	299	229	0.8	0.59	12	170	< 0.5	< 2	< 0.01	< 0.5	< 1	94	20	1.85	< 10	< 1	0.65	< 10	0.02	5	38
568824H	299	229	1.2	0.63	16	150	< 0.5	< 2	0.01	< 0.5	1	151	17	2.55	< 10	< 1	0.71	10	0.02	10	172
568825H	299	229	2.8	0.66	10	150	< 0.5	< 2	0.01	< 0.5	< 1	117	24	1.83	< 10	< 1	0.62	10	0.02	5	114
568826H	299	229	3.0	0.62	2	160	< 0.5	< 2	0.01	< 0.5	< 1	105	27	2.51	< 10	< 1	0.69	20	0.02	10	65
568827H	299	229	5.8	0.64	4	160	< 0.5	< 2	0.01	< 0.5	< 1	84	26	2.09	< 10	< 1	0.68	10	0.02	10	57
568828H	299	229	2.4	0.63	6	310	< 0.5	6	0.01	< 0.5	< 1	119	29	2.52	< 10	< 1	0.68	10	0.03	10	25
568829H	299	229	2.0	0.59	8	240	< 0.5	6	0.01	< 0.5	< 1	108	31	2.94	< 10	< 1	0.75	10	0.03	15	34
568830H	299	229	1.0	0.77	16	360	< 0.5	< 2	0.01	< 0.5	< 1	111	49	2.59	10	< 1	0.66	20	0.05	30	35
568831H	299	229	1.4	0.73	10	320	< 0.5	< 2	0.01	< 0.5	< 1	115	23	2.12	10	< 1	0.68	10	0.04	10	26
568832H	299	229	1.2	0.72	16	170	< 0.5	6	0.01	< 0.5	< 1	112	37	2.83	10	< 1	0.75	10	0.04	10	29
568833H	299	229	4.2	0.65	24	250	< 0.5	< 2	0.01	< 0.5	< 1	108	35	3.07	< 10	1	0.88	10	0.03	10	46
568834H	299	229	1.8	0.81	22	330	< 0.5	< 2	0.01	< 0.5	< 1	126	50	2.43	< 10	< 1	0.75	30	0.06	20	26
568835H	299	229	1.0	0.73	20	290	< 0.5	< 2	0.01	< 0.5	< 1	111	64	2.91	< 10	< 1	0.75	20	0.05	20	20
568836H	299	229	2.6	0.71	24	280	< 0.5	< 2	0.01	< 0.5	< 1	114	49	2.80	< 10	< 1	0.78	30	0.04	20	39
568837H	299	229	1.8	0.61	18	270	< 0.5	< 2	0.01	< 0.5	1	85	78	5.21	< 10	< 1	0.71	10	0.03	35	165
568838H	299	229	3.0	0.62	16	210	< 0.5	< 2	0.01	< 0.5	1	129	79	3.38	10	< 1	0.84	20	0.03	35	86
568839H	299	229	2.6	0.64	20	250	< 0.5	< 2	0.01	< 0.5	1	112	64	3.97	10	< 1	0.78	10	0.03	30	98

CERTIFICATION: J. H. Bichler

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WHITEHORSE, YT
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Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 1-B
Total Pages : 5
Certificate Date: 11-JUL-93
Invoice No. : I9316609
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
568800H	299	229	0.01	< 1	40	26	< 2	< 1	6	< 0.01	< 10	< 10	5	< 10	2
568801H	299	229	0.01	1	30	22	2	< 1	5	< 0.01	< 10	< 10	5	< 10	2
568802H	299	229	0.01	1	60	80	< 2	< 1	6	< 0.01	< 10	< 10	6	10	6
568803H	299	229	0.01	< 1	60	40	2	< 1	7	< 0.01	< 10	< 10	7	10	4
568804H	299	229	0.01	1	70	14	2	1	7	< 0.01	< 10	< 10	8	10	2
568805H	299	229	0.01	< 1	90	20	< 2	< 1	10	< 0.01	< 10	< 10	7	10	2
568806H	299	229	0.01	< 1	70	16	< 2	< 1	7	< 0.01	< 10	< 10	7	10	2
568807H	299	229	0.01	< 1	70	10	< 2	< 1	7	< 0.01	< 10	< 10	7	10	2
568808H	299	229	0.01	< 1	90	12	< 2	1	6	< 0.01	< 10	< 10	10	10	< 2
568809H	299	229	0.01	< 1	40	< 2	< 2	< 1	4	< 0.01	< 10	< 10	8	10	2
568810H	299	229	0.01	1	40	8	< 2	< 1	4	< 0.01	< 10	< 10	8	10	< 2
568811H	299	229	0.01	< 1	30	12	2	< 1	4	< 0.01	< 10	< 10	7	< 10	< 2
568812H	299	229	0.01	1	70	12	< 2	< 1	6	< 0.01	< 10	< 10	6	< 10	< 2
568813H	299	229	0.01	1	100	12	< 2	< 1	4	< 0.01	< 10	< 10	7	< 10	2
568814H	299	229	0.01	1	50	12	< 2	< 1	5	< 0.01	< 10	< 10	8	< 10	6
568815H	299	229	0.01	< 1	40	18	< 2	< 1	6	< 0.01	< 10	< 10	7	< 10	< 2
568816H	299	229	0.01	< 1	60	8	2	< 1	4	< 0.01	< 10	< 10	6	10	< 2
568817H	299	229	< 0.01	1	180	16	2	1	3	< 0.01	< 10	< 10	10	10	< 2
568818H	299	229	0.01	1	110	12	< 2	< 1	3	< 0.01	< 10	< 10	9	10	< 2
568819H	299	229	0.01	< 1	80	10	< 2	< 1	2	< 0.01	< 10	< 10	8	10	< 2
568820H	299	229	0.01	< 1	130	10	2	1	3	< 0.01	< 10	< 10	12	10	< 2
568821H	299	229	0.01	< 1	100	6	< 2	1	3	< 0.01	< 10	< 10	10	10	< 2
568822H	299	229	0.01	< 1	70	6	< 2	< 1	2	< 0.01	< 10	< 10	9	10	< 2
568823H	299	229	0.01	< 1	90	2	< 2	1	3	< 0.01	< 10	< 10	10	10	< 2
568824H	299	229	0.01	3	100	< 2	< 2	1	4	< 0.01	< 10	< 10	15	10	< 2
568825H	299	229	0.01	3	70	14	< 2	1	7	< 0.01	< 10	< 10	11	10	< 2
568826H	299	229	0.01	1	40	6	< 2	1	5	< 0.01	< 10	< 10	11	10	< 2
568827H	299	229	0.01	2	20	4	< 2	1	3	< 0.01	< 10	< 10	12	10	< 2
568828H	299	229	0.01	3	40	8	< 2	1	3	< 0.01	< 10	< 10	12	10	2
568829H	299	229	0.02	2	70	34	2	1	3	< 0.01	< 10	< 10	13	10	2
568830H	299	229	0.01	3	100	14	< 2	1	4	< 0.01	< 10	< 10	15	< 10	12
568831H	299	229	0.02	2	110	24	< 2	1	4	< 0.01	< 10	< 10	12	< 10	< 2
568832H	299	229	0.02	1	160	22	< 2	1	4	< 0.01	< 10	< 10	17	< 10	2
568833H	299	229	0.02	2	180	30	< 2	1	7	< 0.01	< 10	< 10	14	< 10	< 2
568834H	299	229	0.02	1	240	14	< 2	1	10	< 0.01	< 10	< 10	11	< 10	6
568835H	299	229	0.02	2	330	6	< 2	1	13	< 0.01	< 10	< 10	12	< 10	10
568836H	299	229	0.02	2	310	4	< 2	2	11	< 0.01	< 10	< 10	11	10	6
568837H	299	229	0.01	1	340	6	< 2	1	10	< 0.01	< 10	< 10	16	10	20
568838H	299	229	0.02	3	340	22	2	2	11	< 0.01	< 10	< 10	12	< 10	12
568839H	299	229	0.02	< 1	260	6	2	1	7	< 0.01	< 10	< 10	17	10	10

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total P :5
Certificate Date: 11-JUL-93
Invoice No. : I9316609
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
568840H	299	229	1.0	0.64	62	190	< 0.5	< 2	0.02	< 0.5	2	104	161	4.70	10	< 1	0.88	20	0.04	20	69
568841H	299	229	1.6	0.82	20	230	< 0.5	2	0.01	< 0.5	1	96	115	2.93	< 10	< 1	0.72	20	0.06	15	23
568842H	299	229	1.6	0.76	36	230	< 0.5	6	0.01	< 0.5	1	96	97	2.75	10	< 1	0.74	20	0.05	15	53
568843H	299	229	4.8	0.74	48	230	< 0.5	10	0.01	< 0.5	2	83	140	3.28	< 10	< 1	0.81	20	0.05	15	38
568844H	299	229	2.4	0.59	28	200	< 0.5	6	0.01	< 0.5	1	98	46	2.93	< 10	< 1	0.76	20	0.03	10	50
568845H	299	229	1.2	0.84	40	200	< 0.5	< 2	0.01	< 0.5	1	116	114	3.58	10	< 1	0.83	10	0.06	15	49
568846H	299	229	0.6	0.96	36	220	< 0.5	4	0.01	< 0.5	2	131	145	2.97	10	< 1	0.74	10	0.09	15	49
568847H	299	229	2.2	0.98	42	250	< 0.5	< 2	0.01	< 0.5	1	126	132	3.02	< 10	< 1	0.87	20	0.08	15	53
568848H	299	229	3.2	0.77	44	210	< 0.5	6	0.01	< 0.5	2	109	93	3.19	< 10	< 1	0.85	20	0.06	15	76
568849H	299	229	1.0	1.18	64	340	< 0.5	8	0.02	< 0.5	3	99	379	2.95	< 10	< 1	0.58	20	0.13	65	70
568850H	299	229	1.0	0.84	32	290	< 0.5	2	0.01	< 0.5	4	124	286	3.32	< 10	< 1	0.67	10	0.09	120	65
568851H	299	229	1.2	1.08	60	250	< 0.5	2	0.01	< 0.5	3	121	273	2.67	< 10	< 1	0.68	20	0.10	20	26
568852H	299	229	1.2	0.93	16	290	< 0.5	2	0.02	< 0.5	18	99	620	5.52	< 10	< 1	0.55	20	0.09	70	21
568853H	299	229	1.4	1.55	26	280	< 0.5	8	0.02	< 0.5	17	113	765	3.11	< 10	< 1	0.59	20	0.11	30	35
568854H	299	229	9.8	1.41	48	80	< 0.5	20	0.02	< 0.5	35	118	555	3.09	< 10	< 1	0.63	20	0.13	30	39
568855H	299	229	1.0	1.24	20	70	< 0.5	< 2	0.03	< 0.5	35	109	1405	2.93	< 10	< 1	0.51	10	0.12	35	79
568856H	299	229	1.0	1.23	12	70	< 0.5	2	0.05	< 0.5	33	94	2810	3.21	< 10	< 1	0.44	10	0.16	165	30
568857H	299	229	0.8	1.37	48	60	< 0.5	< 2	0.02	< 0.5	34	112	2110	2.64	< 10	< 1	0.46	10	0.13	20	44
568858H	299	229	1.2	1.64	20	80	< 0.5	< 2	0.10	< 0.5	32	86	3070	3.48	< 10	< 1	0.38	10	0.15	160	235
568859H	299	229	0.8	1.38	28	70	< 0.5	6	0.07	< 0.5	32	108	1860	3.59	< 10	< 1	0.42	20	0.12	125	28
568860H	299	229	6.2	1.55	44	30	< 0.5	6	0.02	24.5	35	92	3940	4.15	< 10	< 1	0.49	20	0.10	40	77
568861H	299	229	2.8	1.74	78	80	< 0.5	4	0.06	0.5	24	109	2740	2.36	< 10	< 1	0.47	20	0.10	35	74
568862H	299	229	1.4	1.93	28	90	< 0.5	< 2	0.06	< 0.5	30	92	3000	1.99	< 10	< 1	0.46	20	0.12	45	36
568863H	299	229	1.6	1.75	128	70	< 0.5	4	0.09	< 0.5	27	107	4020	3.05	< 10	< 1	0.46	20	0.12	190	183
568864H	299	229	1.2	1.41	32	160	< 0.5	< 2	0.14	< 0.5	23	93	2190	2.98	< 10	< 1	0.44	20	0.18	425	71
568865H	299	229	0.8	1.82	74	80	< 0.5	< 2	0.09	< 0.5	31	110	2140	2.86	< 10	< 1	0.53	10	0.14	205	66
568866H	299	229	1.0	1.79	66	60	< 0.5	< 2	0.08	< 0.5	33	91	1675	2.63	< 10	< 1	0.54	20	0.14	140	48
568867H	299	229	0.8	1.96	34	110	< 0.5	< 2	0.07	< 0.5	33	117	2240	1.95	< 10	< 1	0.52	20	0.12	25	115
568868H	299	229	0.8	1.47	16	80	< 0.5	< 2	0.12	< 0.5	33	90	1860	3.56	< 10	2	0.41	10	0.13	375	54
568869H	299	229	0.8	1.24	12	100	< 0.5	< 2	0.15	< 0.5	27	111	1515	3.90	< 10	< 1	0.41	20	0.21	465	32
568870H	299	229	1.2	1.72	22	50	< 0.5	8	0.09	< 0.5	31	89	2740	2.69	< 10	< 1	0.45	10	0.11	20	67
568871H	299	229	1.8	1.58	22	70	< 0.5	< 2	0.12	< 0.5	26	120	2940	2.65	< 10	< 1	0.47	10	0.11	150	194
568872H	299	229	3.4	1.40	44	30	< 0.5	6	0.07	< 0.5	46	105	3280	4.85	< 10	< 1	0.50	10	0.10	20	214
568873H	299	229	1.8	1.58	36	30	< 0.5	6	0.10	< 0.5	38	108	3120	3.93	< 10	< 1	0.56	10	0.13	20	247
568874H	299	229	1.6	1.45	< 2	80	< 0.5	2	0.15	1.0	27	110	1865	3.39	< 10	< 1	0.48	10	0.15	320	62
568875H	299	229	0.6	1.24	16	90	< 0.5	8	0.66	< 0.5	39	108	1470	3.87	< 10	< 1	0.50	20	0.37	530	147
568876H	299	229	1.6	1.83	36	70	< 0.5	4	0.25	< 0.5	39	104	1895	3.16	< 10	< 1	0.45	10	0.16	220	82
568877H	299	229	1.2	1.40	18	90	< 0.5	< 2	0.61	< 0.5	37	99	1775	3.66	< 10	< 1	0.45	10	0.49	340	26
568878H	299	229	0.8	1.74	18	100	< 0.5	4	0.23	< 0.5	47	93	2120	3.28	< 10	< 1	0.44	20	0.34	275	45
568879H	299	229	0.8	1.18	6	90	< 0.5	< 2	0.53	< 0.5	39	135	1865	4.07	< 10	< 1	0.50	10	0.35	485	37

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
568840H	299	229	0.02	3	680	6	4	3	16	< 0.01	< 10	< 10	19	10	12
568841H	299	229	0.02	1	370	8	2	2	10	< 0.01	< 10	< 10	13	< 10	6
568842H	299	229	0.02	2	490	8	2	3	13	< 0.01	< 10	< 10	13	< 10	4
568843H	299	229	0.02	2	390	32	2	2	15	< 0.01	< 10	< 10	13	< 10	4
568844H	299	229	0.02	2	210	20	2	1	13	< 0.01	< 10	< 10	9	< 10	2
568845H	299	229	0.02	2	440	24	4	2	14	< 0.01	< 10	< 10	17	< 10	10
568846H	299	229	0.02	3	580	14	6	2	10	< 0.01	< 10	< 10	18	< 10	6
568847H	299	229	0.02	3	490	14	4	2	13	< 0.01	< 10	< 10	15	< 10	6
568848H	299	229	0.02	< 1	470	46	4	2	12	< 0.01	< 10	< 10	13	< 10	4
568849H	299	229	0.02	2	930	14	4	7	14	< 0.01	< 10	< 10	23	< 10	26
568850H	299	229	0.02	2	520	24	2	3	11	< 0.01	< 10	< 10	18	< 10	42
568851H	299	229	0.02	2	480	16	4	3	11	< 0.01	< 10	< 10	20	< 10	10
568852H	299	229	0.01	3	520	28	4	2	11	< 0.01	< 10	< 10	30	< 10	30
568853H	299	229	0.01	4	950	36	2	7	24	< 0.01	< 10	< 10	32	< 10	26
568854H	299	229	0.02	6	580	116	6	4	13	< 0.01	< 10	< 10	21	< 10	18
568855H	299	229	0.01	4	530	16	6	6	8	< 0.01	< 10	< 10	17	< 10	14
568856H	299	229	0.01	4	550	18	< 2	4	7	< 0.01	< 10	< 10	19	< 10	28
568857H	299	229	0.02	6	650	22	6	6	8	< 0.01	< 10	< 10	15	< 10	20
568858H	299	229	0.01	6	1000	12	2	4	6	< 0.01	< 10	10	25	< 10	50
568859H	299	229	0.01	5	900	30	6	7	13	< 0.01	< 10	10	18	< 10	34
568860H	299	229	0.01	4	650	726	4	6	12	< 0.01	< 10	< 10	17	10	2360
568861H	299	229	0.01	5	960	124	12	6	13	< 0.01	< 10	10	20	< 10	102
568862H	299	229	0.01	6	930	32	8	5	14	< 0.01	< 10	< 10	22	< 10	38
568863H	299	229	0.01	6	790	14	6	3	14	< 0.01	< 10	< 10	27	< 10	68
568864H	299	229	0.01	4	670	20	6	3	8	< 0.01	< 10	< 10	32	< 10	72
568865H	299	229	0.01	7	610	14	6	2	16	< 0.01	< 10	< 10	28	10	56
568866H	299	229	0.01	6	690	34	2	2	33	< 0.01	< 10	< 10	26	< 10	56
568867H	299	229	0.01	8	810	30	2	3	67	< 0.01	< 10	< 10	26	< 10	54
568868H	299	229	0.01	6	630	30	4	2	22	< 0.01	< 10	< 10	23	< 10	70
568869H	299	229	0.01	7	540	18	4	2	9	< 0.01	< 10	< 10	25	< 10	70
568870H	299	229	0.01	5	1010	32	4	3	30	< 0.01	< 10	< 10	24	< 10	48
568871H	299	229	0.01	4	850	34	2	2	29	< 0.01	< 10	< 10	22	< 10	50
568872H	299	229	0.01	7	940	36	6	2	48	< 0.01	< 10	< 10	16	< 10	44
568873H	299	229	0.01	8	1010	14	8	3	47	< 0.01	< 10	< 10	20	< 10	36
568874H	299	229	0.01	4	620	22	4	3	13	< 0.01	< 10	< 10	21	< 10	72
568875H	299	229	0.01	6	560	10	2	3	9	< 0.01	< 10	< 10	25	10	80
568876H	299	229	0.01	6	810	26	4	3	10	< 0.01	< 10	10	27	< 10	68
568877H	299	229	0.01	6	610	16	2	3	11	< 0.01	< 10	< 10	27	< 10	72
568878H	299	229	0.02	6	670	18	2	3	19	< 0.01	< 10	< 10	29	< 10	58
568879H	299	229	0.01	5	480	14	2	2	9	< 0.01	< 10	< 10	23	< 10	70

CERTIFICATION: Jan H Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
568880H	299	229	3.4	1.23	16	30	< 0.5	10	0.14	0.5	47	47	2250	3.66	< 10	< 1	0.28	10	0.10	315	55
568881H	299	229	1.4	0.82	8	40	< 0.5	4	0.19	1.0	70	55	2010	4.35	< 10	< 1	0.22	20	0.09	445	128
568882H	299	229	1.2	0.75	26	70	< 0.5	2	0.27	< 0.5	49	72	1825	3.39	< 10	< 1	0.24	10	0.16	530	37
568883H	299	229	2.6	0.58	18	30	< 0.5	2	0.54	0.5	63	62	1400	4.49	< 10	< 1	0.27	10	0.23	495	55
568884H	299	229	4.2	0.53	44	40	< 0.5	< 2	0.91	1.0	43	42	1295	3.70	< 10	< 1	0.25	10	0.34	545	13
568885H	299	229	3.2	0.79	14	20	< 0.5	< 2	0.31	5.5	67	66	1030	5.52	< 10	< 1	0.37	20	0.16	485	17
568886H	299	229	5.4	0.36	18	30	< 0.5	2	0.62	4.5	97	29	2260	4.58	< 10	< 1	0.19	10	0.23	375	121
568887H	299	229	1.8	0.80	4	60	< 0.5	2	0.93	< 0.5	58	76	1755	3.50	< 10	< 1	0.44	10	0.41	315	20
568888H	299	229	0.4	0.47	4	70	< 0.5	< 2	0.98	< 0.5	66	40	1100	3.57	< 10	< 1	0.25	10	0.52	275	21
568889H	299	229	0.2	0.74	6	60	< 0.5	2	0.69	< 0.5	54	61	715	4.07	< 10	< 1	0.34	10	0.34	360	5
568890H	299	229	0.6	0.79	8	60	< 0.5	4	1.72	< 0.5	51	47	1420	3.29	< 10	< 1	0.26	10	0.88	180	17
568891H	299	229	0.6	1.05	< 2	70	< 0.5	< 2	1.29	< 0.5	59	62	1430	3.60	< 10	< 1	0.29	10	0.75	170	14
568892H	299	229	0.4	1.36	< 2	90	< 0.5	2	1.36	< 0.5	78	124	1090	3.25	10	< 1	0.49	20	0.83	130	18
568893H	299	229	0.6	1.36	6	90	< 0.5	2	1.02	< 0.5	89	95	1250	3.80	10	1	0.55	20	0.64	205	16
568894H	299	229	1.2	1.52	10	120	< 0.5	8	0.78	< 0.5	38	106	820	3.85	10	< 1	0.43	20	0.69	395	7
568895H	299	229	0.6	1.41	14	40	< 0.5	< 2	0.88	< 0.5	24	90	931	3.43	10	< 1	0.37	20	0.79	255	4
568896H	299	229	0.2	1.25	< 2	70	< 0.5	< 2	0.94	< 0.5	41	99	913	3.27	< 10	1	0.43	10	0.85	150	21
568897H	299	229	0.4	0.90	< 2	40	< 0.5	< 2	1.17	< 0.5	41	73	748	3.31	< 10	< 1	0.36	20	0.69	130	39
568898H	299	229	0.4	1.00	8	70	< 0.5	< 2	1.15	< 0.5	42	98	1075	3.42	< 10	< 1	0.44	20	0.61	150	13
568899H	299	229	0.6	0.97	8	60	< 0.5	< 2	1.21	< 0.5	43	70	1380	3.46	< 10	< 1	0.45	20	0.63	150	22
568900H	299	229	0.8	1.05	8	80	< 0.5	< 2	1.19	< 0.5	53	99	1395	3.22	< 10	< 1	0.47	20	0.62	190	68
568901H	299	229	1.6	0.78	42	50	< 0.5	8	0.73	< 0.5	41	72	1095	5.18	< 10	< 1	0.37	10	0.33	510	24
568902H	299	229	0.2	1.09	< 2	60	< 0.5	< 2	1.32	< 0.5	27	85	988	3.28	< 10	< 1	0.37	20	0.69	140	25
568903H	299	229	0.2	1.40	4	80	< 0.5	6	0.86	< 0.5	16	72	724	3.68	< 10	< 1	0.31	10	0.98	125	12
568904H	299	229	0.2	1.26	6	70	< 0.5	< 2	0.72	< 0.5	43	80	1125	3.32	< 10	< 1	0.43	10	0.82	165	46
568905H	299	229	0.4	1.10	< 2	50	< 0.5	2	0.94	< 0.5	26	63	685	3.64	< 10	< 1	0.41	20	0.79	180	35
568906H	299	229	1.8	1.04	< 2	70	< 0.5	4	0.19	< 0.5	41	106	1160	4.17	< 10	< 1	0.41	10	0.14	375	24
568907H	299	229	0.8	1.01	14	40	< 0.5	4	0.76	< 0.5	37	109	1100	3.80	< 10	< 1	0.38	10	0.48	275	28
568908H	299	229	1.4	1.01	2	40	< 0.5	< 2	0.48	< 0.5	42	122	1235	3.59	< 10	< 1	0.34	10	0.33	245	41
568909H	299	229	3.8	0.82	< 2	40	< 0.5	< 2	0.19	3.5	81	91	1540	4.50	< 10	< 1	0.38	10	0.12	225	54
568910H	299	229	3.4	0.76	6	30	< 0.5	< 2	0.18	< 0.5	96	105	2770	4.99	< 10	< 1	0.32	10	0.14	530	21
568911H	299	229	2.0	0.62	6	40	< 0.5	6	0.18	< 0.5	45	87	901	4.17	< 10	< 1	0.32	10	0.13	510	21
568912H	299	229	0.6	0.64	< 2	70	< 0.5	< 2	0.17	< 0.5	39	97	952	3.02	< 10	< 1	0.27	10	0.12	340	40
568913H	299	229	2.4	0.71	6	40	< 0.5	6	0.16	< 0.5	39	77	1160	3.80	< 10	1	0.31	10	0.09	45	68
568914H	299	229	0.8	0.83	2	20	< 0.5	6	0.17	< 0.5	101	96	1080	5.12	< 10	< 1	0.38	10	0.10	65	99
568915H	299	229	0.2	0.93	6	30	< 0.5	2	0.85	< 0.5	35	99	593	3.71	< 10	< 1	0.38	10	0.36	320	42
568916H	299	229	0.6	1.08	6	60	< 0.5	< 2	0.28	< 0.5	50	133	1040	4.23	< 10	< 1	0.44	10	0.18	235	31
568917H	299	229	0.4	0.98	< 2	90	< 0.5	4	0.22	< 0.5	47	116	621	4.01	< 10	< 1	0.40	10	0.16	220	15
568918H	299	229	0.4	0.92	2	50	< 0.5	2	0.94	< 0.5	33	142	459	3.70	< 10	< 1	0.38	10	0.42	315	28
568919H	299	229	0.6	0.75	2	60	< 0.5	2	0.92	< 0.5	36	115	637	4.72	< 10	< 1	0.33	10	0.41	285	7

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-JUL-93
Invoice No. : 19316609
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
568880H	299	229	< 0.01	6	730	28	< 2	2	12	< 0.01	< 10	10	21	< 10	98
568881H	299	229	< 0.01	6	600	40	< 2	2	10	< 0.01	< 10	< 10	19	< 10	130
568882H	299	229	< 0.01	5	750	16	4	2	10	< 0.01	< 10	< 10	22	< 10	88
568883H	299	229	< 0.01	6	550	44	2	1	6	< 0.01	< 10	10	14	< 10	124
568884H	299	229	< 0.01	2	600	142	2	2	7	< 0.01	< 10	< 10	14	< 10	192
568885H	299	229	0.01	4	640	390	2	1	6	< 0.01	< 10	< 10	11	10	554
568886H	299	229	< 0.01	6	590	100	12	1	5	< 0.01	< 10	< 10	7	< 10	414
568887H	299	229	0.01	4	560	8	4	1	8	< 0.01	< 10	< 10	13	10	54
568888H	299	229	< 0.01	3	450	20	< 2	1	10	< 0.01	< 10	< 10	16	10	42
568889H	299	229	0.01	4	540	18	< 2	2	7	< 0.01	< 10	< 10	16	< 10	48
568890H	299	229	0.01	3	650	14	< 2	2	23	< 0.01	< 10	< 10	19	10	32
568891H	299	229	0.01	3	510	6	2	2	19	< 0.01	< 10	< 10	21	10	30
568892H	299	229	0.02	4	520	16	2	2	25	< 0.01	< 10	< 10	24	10	22
568893H	299	229	0.01	4	750	12	2	4	15	0.01	< 10	< 10	29	10	46
568894H	299	229	0.01	4	550	20	< 2	4	17	0.01	< 10	< 10	35	10	94
568895H	299	229	0.02	4	710	8	< 2	3	26	< 0.01	< 10	< 10	31	< 10	48
568896H	299	229	0.02	3	510	8	< 2	3	19	0.02	< 10	< 10	30	< 10	28
568897H	299	229	0.02	3	520	8	2	2	25	< 0.01	< 10	< 10	21	10	24
568898H	299	229	0.01	3	570	8	< 2	2	21	0.01	< 10	< 10	22	10	30
568899H	299	229	0.01	4	530	4	2	2	28	0.01	< 10	< 10	22	< 10	28
568900H	299	229	0.01	3	550	6	< 2	3	16	0.01	< 10	< 10	26	< 10	34
568901H	299	229	0.01	4	490	20	< 2	2	8	< 0.01	< 10	< 10	17	< 10	94
568902H	299	229	0.02	3	500	14	< 2	2	27	< 0.01	< 10	< 10	24	< 10	24
568903H	299	229	0.02	3	520	12	< 2	3	18	0.01	< 10	< 10	32	< 10	34
568904H	299	229	0.02	3	460	12	2	2	17	0.02	< 10	< 10	28	< 10	36
568905H	299	229	0.02	2	530	10	< 2	2	27	0.01	< 10	< 10	23	< 10	34
568906H	299	229	0.01	5	540	32	2	2	6	< 0.01	< 10	< 10	16	< 10	68
568907H	299	229	0.01	4	510	4	2	2	17	< 0.01	< 10	< 10	19	< 10	42
568908H	299	229	0.01	4	560	22	2	2	11	< 0.01	< 10	< 10	16	< 10	72
568909H	299	229	0.01	6	670	148	< 2	1	6	< 0.01	< 10	< 10	12	< 10	380
568910H	299	229	0.01	6	570	16	2	2	6	< 0.01	< 10	< 10	14	< 10	78
568911H	299	229	0.01	4	590	6	< 2	1	6	< 0.01	< 10	< 10	12	< 10	46
568912H	299	229	0.01	4	490	8	< 2	1	5	< 0.01	< 10	< 10	12	< 10	34
568913H	299	229	0.01	4	580	24	2	1	5	< 0.01	< 10	< 10	8	< 10	40
568914H	299	229	0.01	5	620	8	< 2	1	6	< 0.01	< 10	< 10	11	< 10	18
568915H	299	229	0.01	3	600	16	< 2	1	9	< 0.01	< 10	< 10	13	10	46
568916H	299	229	0.01	6	670	16	< 2	2	6	< 0.01	< 10	< 10	15	< 10	40
568917H	299	229	0.01	6	640	22	< 2	2	6	< 0.01	< 10	< 10	14	< 10	42
568918H	299	229	0.01	4	570	8	< 2	1	11	< 0.01	< 10	< 10	14	< 10	42
568919H	299	229	0.01	4	510	8	2	1	10	< 0.01	< 10	< 10	12	< 10	46

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-JUL-93
Invoice No. :I9316609
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
568920H	299	229	0.2	1.31	16	80	< 0.5	4	0.71	< 0.5	43	115	415	4.46	< 10	< 1	0.54	10	0.30	295	10
568921H	299	229	0.2	1.08	8	30	< 0.5	2	0.53	< 0.5	60	96	348	5.45	< 10	< 1	0.54	< 10	0.24	200	21
568922H	299	229	0.2	1.08	8	60	< 0.5	4	0.86	< 0.5	29	88	366	4.07	< 10	< 1	0.49	10	0.35	240	14
568923H	299	229	0.4	1.05	8	30	< 0.5	4	0.85	0.5	31	81	392	4.09	< 10	< 1	0.42	10	0.43	190	17
568924H	299	229	0.2	0.90	8	40	< 0.5	< 2	1.05	< 0.5	22	77	392	4.09	< 10	< 1	0.39	10	0.46	190	6
568925H	299	229	< 0.2	0.89	2	30	< 0.5	< 2	1.16	< 0.5	29	61	352	4.07	< 10	< 1	0.32	10	0.62	190	4
568926H	299	229	1.0	1.16	2	40	< 0.5	14	1.16	< 0.5	17	75	318	3.70	< 10	< 1	0.34	10	0.67	350	7
568927H	299	229	0.6	0.86	14	40	< 0.5	2	1.17	< 0.5	22	60	446	3.67	< 10	< 1	0.30	10	0.52	245	6
568928H	299	229	< 0.2	1.04	< 2	50	< 0.5	< 2	1.23	< 0.5	17	59	226	3.54	< 10	< 1	0.32	10	0.82	160	5
568929H	299	229	< 0.2	1.07	6	30	< 0.5	< 2	1.47	< 0.5	28	56	217	3.70	< 10	< 1	0.34	10	0.69	225	8
568930H	299	229	0.4	0.98	12	40	< 0.5	6	1.06	< 0.5	27	56	772	4.10	< 10	< 1	0.26	10	0.72	140	3
568931H	299	229	< 0.2	1.33	8	30	< 0.5	< 2	0.82	< 0.5	19	72	116	4.80	< 10	< 1	0.38	10	0.65	150	7
568932H	299	229	1.4	0.99	12	10	< 0.5	< 2	1.25	1.0	42	87	318	6.76	< 10	< 1	0.43	10	0.57	260	12
568933H	299	229	0.2	1.43	< 2	20	< 0.5	< 2	1.33	< 0.5	31	79	260	4.62	< 10	< 1	0.44	10	0.70	265	2
568934H	299	229	< 0.2	1.50	< 2	40	< 0.5	2	1.09	< 0.5	23	87	223	4.06	< 10	< 1	0.30	10	0.91	195	3
568935H	299	229	< 0.2	0.76	< 2	30	< 0.5	2	0.91	< 0.5	27	56	180	4.82	< 10	< 1	0.26	20	0.39	245	3
568936H	299	229	0.2	1.43	< 2	30	< 0.5	2	1.06	< 0.5	12	86	259	3.81	< 10	< 1	0.41	10	0.87	160	< 1
568937H	299	229	< 0.2	1.12	18	20	< 0.5	2	0.58	< 0.5	16	82	119	8.60	< 10	< 1	0.54	10	0.46	90	1
568938H	299	229	< 0.2	1.38	2	20	< 0.5	< 2	0.89	< 0.5	21	99	227	5.39	< 10	< 1	0.52	10	0.72	130	< 1
568939H	299	229	0.2	1.05	< 2	30	< 0.5	4	0.90	< 0.5	19	49	197	4.40	< 10	1	0.24	10	0.86	225	< 1
568940H	299	229	0.6	0.97	20	20	< 0.5	4	0.57	< 0.5	44	86	439	6.62	< 10	1	0.39	< 10	0.39	170	6
568941H	299	229	< 0.2	1.13	< 2	40	< 0.5	6	0.65	0.5	19	79	219	4.19	< 10	< 1	0.39	10	0.41	150	1
568942H	299	229	< 0.2	0.98	< 2	20	< 0.5	6	0.22	< 0.5	32	70	154	5.76	< 10	< 1	0.40	10	0.15	50	3
568943H	299	229	< 0.2	0.98	< 2	20	< 0.5	< 2	0.19	< 0.5	20	106	213	5.00	< 10	< 1	0.34	10	0.12	95	3
568944H	299	229	< 0.2	1.03	< 2	30	< 0.5	2	0.35	< 0.5	14	95	238	4.25	< 10	< 1	0.29	10	0.23	250	1
568945H	299	229	< 0.2	1.50	< 2	30	< 0.5	4	0.41	0.5	15	117	178	4.68	< 10	< 1	0.37	10	0.50	110	2
568946H	299	229	< 0.2	1.17	< 2	30	< 0.5	2	0.36	< 0.5	18	149	163	4.24	< 10	< 1	0.40	10	0.22	80	2
568947H	299	229	< 0.2	1.02	6	10	< 0.5	< 2	0.39	< 0.5	26	104	128	5.87	< 10	< 1	0.32	10	0.22	95	2
568948H	299	229	< 0.2	0.87	< 2	30	< 0.5	6	0.21	< 0.5	19	82	204	4.67	< 10	1	0.30	10	0.12	40	3
568949H	299	229	0.6	1.04	14	40	< 0.5	< 2	0.38	< 0.5	16	74	311	4.26	< 10	< 1	0.27	10	0.25	180	6
568950H	299	229	1.2	0.66	46	20	< 0.5	6	0.24	0.5	18	88	738	4.80	< 10	< 1	0.24	10	0.13	80	1
568951H	299	229	< 0.2	0.64	< 2	10	< 0.5	2	0.19	< 0.5	19	74	186	5.85	< 10	< 1	0.32	10	0.10	90	2
568952H	299	229	0.2	0.72	6	20	< 0.5	4	0.17	< 0.5	33	99	249	4.76	< 10	< 1	0.33	10	0.10	125	14
568953H	299	229	3.6	1.43	20	10	< 0.5	30	0.28	< 0.5	13	88	456	5.41	< 10	< 1	0.27	10	0.34	185	3
568954H	299	229	< 0.2	0.91	< 2	30	< 0.5	< 2	0.37	< 0.5	21	115	144	3.87	< 10	< 1	0.27	10	0.21	135	2
568955H	299	229	< 0.2	0.77	4	20	< 0.5	6	0.23	< 0.5	18	91	118	4.45	< 10	< 1	0.29	< 10	0.15	125	3
806A	299	229	0.8	0.42	8	150	< 0.5	2	0.01	< 0.5	< 1	118	21	1.70	< 10	< 1	0.51	10	0.02	10	8
807A	299	229	2.2	0.51	20	240	< 0.5	10	0.01	< 0.5	< 1	104	59	3.49	< 10	< 1	0.70	10	0.03	20	83
808A	299	229	0.4	1.13	16	60	< 0.5	6	0.06	< 0.5	29	104	1815	3.28	< 10	< 1	0.36	10	0.11	125	20
809A	299	229	0.8	0.70	20	90	< 0.5	< 2	0.50	< 0.5	40	94	1720	3.77	< 10	< 1	0.32	10	0.28	445	42

CERTIFICATION: Ivan Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-JUL-93
Invoice No. :I9316609
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
568920H	299	229	0.01	5	560	14	2	2	8	< 0.01	< 10	< 10	17	< 10	50
568921H	299	229	0.02	6	510	10	< 2	1	6	< 0.01	< 10	< 10	13	< 10	34
568922H	299	229	0.01	3	570	18	2	1	8	< 0.01	< 10	< 10	14	< 10	30
568923H	299	229	0.01	2	530	28	2	1	11	< 0.01	< 10	< 10	12	< 10	80
568924H	299	229	0.01	3	520	14	4	1	13	< 0.01	< 10	< 10	11	< 10	72
568925H	299	229	0.01	6	500	8	4	1	24	< 0.01	< 10	< 10	13	150	40
568926H	299	229	0.02	2	500	26	< 2	1	32	< 0.01	< 10	10	14	< 10	40
568927H	299	229	0.01	3	510	20	2	2	39	< 0.01	< 10	< 10	13	< 10	42
568928H	299	229	0.02	4	570	16	2	2	38	< 0.01	< 10	< 10	21	< 10	20
568929H	299	229	0.02	2	530	12	4	2	42	< 0.01	< 10	< 10	19	10	22
568930H	299	229	0.02	2	520	18	2	2	27	< 0.01	< 10	< 10	19	110	22
568931H	299	229	0.02	4	480	6	4	2	20	< 0.01	< 10	< 10	20	20	18
568932H	299	229	0.01	4	470	64	2	2	18	< 0.01	< 10	< 10	14	10	140
568933H	299	229	0.02	4	510	16	< 2	2	30	< 0.01	< 10	< 10	22	10	32
568934H	299	229	0.03	6	530	12	2	2	39	< 0.01	< 10	< 10	25	< 10	28
568935H	299	229	< 0.01	2	630	16	< 2	2	15	< 0.01	< 10	< 10	14	< 10	24
568936H	299	229	0.02	4	540	2	< 2	2	48	< 0.01	< 10	< 10	23	< 10	26
568937H	299	229	0.01	4	450	6	< 2	2	11	< 0.01	< 10	< 10	19	< 10	16
568938H	299	229	0.01	5	560	2	< 2	2	19	< 0.01	< 10	< 10	21	< 10	20
568939H	299	229	0.01	3	530	14	< 2	2	32	< 0.01	< 10	< 10	19	< 10	36
568940H	299	229	0.01	4	450	22	6	2	12	< 0.01	< 10	< 10	13	< 10	46
568941H	299	229	0.01	3	540	8	2	2	13	< 0.01	< 10	< 10	18	< 10	24
568942H	299	229	0.01	5	440	< 2	< 2	2	6	< 0.01	< 10	< 10	13	< 10	20
568943H	299	229	0.01	3	490	< 2	< 2	2	4	< 0.01	< 10	< 10	16	< 10	24
568944H	299	229	< 0.01	6	570	4	< 2	2	7	< 0.01	< 10	< 10	17	< 10	30
568945H	299	229	0.01	3	500	4	< 2	2	11	< 0.01	< 10	< 10	21	< 10	28
568946H	299	229	0.01	7	530	2	< 2	2	7	< 0.01	< 10	< 10	17	< 10	28
568947H	299	229	0.01	6	520	10	< 2	2	7	< 0.01	< 10	< 10	14	< 10	28
568948H	299	229	< 0.01	11	580	< 2	< 2	1	7	< 0.01	< 10	< 10	10	< 10	26
568949H	299	229	< 0.01	6	550	16	< 2	2	8	< 0.01	< 10	< 10	15	< 10	60
568950H	299	229	< 0.01	5	490	10	6	1	7	< 0.01	< 10	< 10	10	< 10	56
568951H	299	229	0.01	5	490	6	< 2	1	7	< 0.01	< 10	< 10	9	< 10	20
568952H	299	229	0.01	6	350	6	2	1	5	< 0.01	< 10	< 10	10	< 10	18
568953H	299	229	< 0.01	5	530	26	< 2	2	9	< 0.01	< 10	< 10	18	< 10	38
568954H	299	229	< 0.01	4	450	12	< 2	2	9	< 0.01	< 10	< 10	12	< 10	20
568955H	299	229	0.01	2	380	14	< 2	1	6	< 0.01	< 10	< 10	11	< 10	24
806A	299	229	0.01	2	40	6	< 2	< 1	2	< 0.01	< 10	< 10	8	< 10	2
807A	299	229	0.02	1	250	10	2	1	7	< 0.01	< 10	< 10	14	< 10	8
808A	299	229	0.01	4	700	30	2	4	12	< 0.01	< 10	< 10	15	< 10	34
809A	299	229	0.01	4	430	16	< 2	2	7	< 0.01	< 10	< 10	17	< 10	62

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page r :5-A
Total P. :5
Certificate Date: 11-JUL-93
Invoice No. :I9316609
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
810A	299	229	0.6	1.41	< 2	80	< 0.5	6	1.35	0.5	44	128	1660	3.58	< 10	< 1	0.62	20	0.71	160	33
811A	299	229	0.6	1.05	< 2	60	< 0.5	< 2	0.81	< 0.5	33	112	615	4.43	< 10	< 1	0.45	10	0.41	330	10
812A	299	229	< 0.2	1.51	< 2	50	< 0.5	8	0.81	< 0.5	16	100	250	4.31	< 10	< 1	0.33	10	0.98	225	1

CERTIFICATION: Jan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 165
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :5-B
Total :5
Certificate Date: 11-JUL-93
Invoice No. :I9316609
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316609

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
810A	299	229	0.02	4	510	8	< 2	3	30	0.01	< 10	< 10	26	< 10	30
811A	299	229	0.01	4	510	2	4	1	9	< 0.01	< 10	< 10	15	< 10	52
812A	299	229	0.01	4	530	< 2	< 2	2	32	< 0.01	< 10	< 10	26	< 10	44

CERTIFICATION: Ian R Bickles

0100-23760
093190
APPENDIX 9B

APPENDIX IX - B

CERTIFICATES OF ANALYSES

093190

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUL-93
Invoice No. :19316499
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316499

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H573067	208	274	0.04	0.013	0.14	5720						
H573068	208	276	0.07	0.008	0.14	9480						
H573069	208	276	0.05	0.008	0.10	10420						
H573070	208	276	0.07	0.012	0.24	9180						
H573071	208	276	0.06	0.008	0.17	9360						
H573072	208	276	0.07	0.010	0.31	11400						
H573073	208	276	0.11	0.026	0.23	10560						
H573074	208	276	0.11	0.022	0.27	10060						
H573075	208	276	0.09	0.017	0.24	10020						
H573076	208	276	0.09	0.010	0.45	8280						
H573077	208	276	0.14	0.010	0.34	10850						
H573078	208	276	0.07	0.018	0.14	8540						
H573079	208	276	0.04	0.020	0.14	10340						
H573080	208	276	0.06	0.022	0.21	10480						
H573081	208	276	0.07	0.023	0.27	9920						
H573082	208	276	0.10	0.023	0.17	10560						
H573083	208	276	0.10	0.026	0.10	8000						
H573084	208	276	0.07	0.014	0.10	8320						
H573085	208	274	0.12	0.020	0.14	6820						
H573086	208	276	0.18	0.048	0.14	10460						
H573087	208	276	0.57	0.014	0.14	10300						
H573088	208	276	0.43	0.008	0.14	9120						
H573089	208	276	0.46	0.030	0.10	10720						
H573090	208	276	0.29	0.012	0.07	10620						
H573091	208	276	0.60	0.011	0.07	9300						
H573092	208	276	0.48	0.021	0.38	10380						
H573093	208	276	0.23	0.008	0.07	9000						
H573094	208	274	0.35	0.009	0.10	6500						
H573095	208	273	0.10	0.003	0.10	12900						
H573096	208	273	0.30	0.009	0.10	13100						
H573097	208	276	0.10	0.016	0.10	11400						
H573098	208	273	0.14	0.009	0.14	12280						
H573099	208	273	0.09	0.015	0.07	13080						
H573100	208	276	0.10	0.009	0.10	8080						
H573101	208	276	0.06	0.020	0.07	9620						
H573102	208	276	0.05	0.011	< 0.03	8840						
H573103	208	276	0.10	0.013	0.07	8900						
H573104	208	276	0.11	0.019	0.07	9400						
H573105	208	276	0.11	0.009	0.14	9360						
H573106	208	273	0.10	0.010	0.10	13080						

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUL-93
Invoice No. : I9316499
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316499

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H573107	208	276	0.10	0.023	0.10	9480
H573108	208	276	0.12	0.029	0.17	9640
H573109	208	276	0.09	0.012	0.10	7600
H573110	208	276	0.07	0.014	0.07	11300
H573111	208	276	0.08	0.016	0.10	9100
H573112	208	276	0.04	0.028	0.03	10460
H573113	208	276	0.06	0.021	0.03	11080
H573114	208	276	0.07	0.019	< 0.03	8700
H573115	208	276	0.10	0.018	0.03	11120
H573116	208	276	0.07	0.021	< 0.03	10940
H573117	208	276	0.11	0.013	0.07	11400
H573118	208	276	0.14	0.012	0.14	10720
H573119	208	276	0.13	0.013	0.07	11140
H573120	208	276	0.07	0.003	0.03	10620
H573121	208	276	0.08	0.004	0.07	9780
H573122	208	276	0.12	0.017	0.07	9600
H573123	208	276	0.11	0.037	0.10	10260
H573124	208	276	0.12	0.018	0.17	10160
H573125	208	276	0.10	0.019	0.10	8880
H573126	208	276	0.13	0.023	0.14	7500
H573127	208	276	0.11	0.019	0.10	9480
H573128	208	276	0.12	0.014	0.14	10860
H573129	208	276	0.05	0.030	0.07	10780
H573130	208	273	0.10	0.011	0.10	12480
H573131	208	273	0.07	0.016	0.03	14120
H573132	208	273	0.07	0.030	0.10	13140
H573133	208	276	0.15	0.065	0.14	8480
H573134	208	273	0.12	0.023	0.07	12700
H573135	208	273	0.08	0.121	0.07	12940
H573136	208	273	0.05	0.049	< 0.03	12600
H573137	208	273	0.07	0.019	< 0.03	11900
H573138	208	276	0.07	0.012	< 0.03	10940
H573139	208	273	0.07	0.020	< 0.03	11820
H573140	208	276	0.06	0.020	< 0.03	11520
H573141	208	276	0.06	0.026	0.07	9720
H573142	208	273	0.03	0.062	< 0.03	13040
H573143	208	276	0.03	0.016	< 0.03	10980
H573144	208	273	0.03	0.012	< 0.03	12100
H573145	208	273	0.04	0.027	< 0.03	12400
H573146	208	273	0.04	0.027	< 0.03	14600

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-JUL-93
Invoice No. : I9316499
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316499

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H573147	208	273	0.05	0.014	< 0.03	15540
H573148	208	276	0.05	0.010	< 0.03	9260
H573149	208	276	0.03	0.012	< 0.03	7980
H573150	208	276	0.03	0.013	< 0.03	11780
H573151	208	276	0.07	0.017	< 0.03	11280
H573152	208	276	0.06	0.020	< 0.03	9380
H573153	208	276	0.04	0.019	< 0.03	8040
H573154	208	276	0.02	0.030	< 0.03	8100
H573155	208	276	0.01	0.025	< 0.03	9200
H573156	208	276	0.02	0.011	< 0.03	9500
H573157	208	276	0.05	0.025	< 0.03	8600
H573158	208	276	0.05	0.047	< 0.03	8620
H573159	208	276	0.02	0.024	< 0.03	9520
H573160	208	276	0.02	0.019	< 0.03	11580
H573161	208	276	0.03	0.008	< 0.03	9760
H573162	208	276	0.02	0.010	< 0.03	10640
H573163	208	276	0.01	0.021	< 0.03	10140
H573164	208	273	0.04	0.031	< 0.03	12700
H573165	208	273	0.04	0.014	< 0.03	13480
H573166	208	273	0.03	0.016	< 0.03	13160
H573167	208	273	0.04	0.052	< 0.03	13040
833	208	274	0.28	0.065	0.07	6440
834	208	276	0.10	0.017	0.10	8700
835	208	274	0.12	0.021	0.14	4780
836	208	274	0.09	0.026	0.10	6980
837	208	274	0.03	0.014	< 0.03	7160

CERTIFICATION: _____

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-JUL-93
Invoice No. : I9316500
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316500

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H573067	299	229	0.6	2.08	14	210	< 0.5	2	0.26	< 0.5	15	38	418	2.44	10	< 1	0.63	30	1.09	340	59
H573068	299	229	0.6	2.20	14	180	< 0.5	2	0.20	< 0.5	7	97	613	2.95	10	< 1	0.58	40	1.09	150	43
H573069	299	229	0.4	1.72	10	100	< 0.5	2	0.17	< 0.5	4	62	527	2.18	< 10	< 1	0.28	30	0.91	105	46
H573070	299	229	0.6	1.80	16	140	0.5	6	0.18	< 0.5	4	47	621	2.71	< 10	< 1	0.28	20	0.88	125	71
H573071	299	229	0.6	2.83	20	360	< 0.5	< 2	0.34	< 0.5	7	34	586	4.03	10	< 1	0.76	20	1.59	155	36
H573072	299	229	1.0	3.36	18	250	< 0.5	< 2	0.31	< 0.5	8	64	652	3.96	10	< 1	0.78	20	1.51	165	52
H573073	299	229	2.4	4.26	62	360	< 0.5	< 2	0.24	< 0.5	7	316	1055	5.58	10	< 1	1.28	20	2.62	245	122
H573074	299	229	3.2	5.05	42	200	0.5	< 2	0.33	< 0.5	6	260	968	6.06	20	< 1	0.34	20	0.98	155	101
H573075	299	229	1.6	2.39	44	110	< 0.5	4	0.16	< 0.5	9	232	877	13.70	10	< 1	0.44	20	0.91	160	84
H573076	299	229	2.2	2.11	62	80	< 0.5	2	0.20	< 0.5	4	87	840	14.30	20	< 1	0.29	10	0.74	200	49
H573077	299	229	2.2	1.58	128	50	< 0.5	8	0.52	< 0.5	5	33	1315	14.85	20	< 1	0.16	10	0.30	165	53
H573078	299	229	0.8	3.18	26	400	< 0.5	2	0.32	< 0.5	11	44	702	4.19	10	< 1	0.84	20	1.55	150	102
H573079	299	229	0.4	2.84	12	550	< 0.5	< 2	0.28	< 0.5	10	47	373	3.46	10	< 1	1.20	20	1.74	145	93
H573080	299	229	0.6	3.44	16	440	< 0.5	< 2	0.37	< 0.5	12	29	520	3.53	10	< 1	1.39	20	2.21	200	116
H573081	299	229	0.8	2.40	14	500	< 0.5	< 2	0.28	< 0.5	12	32	609	3.64	< 10	< 1	1.17	20	1.59	130	119
H573082	299	229	0.6	2.19	6	340	< 0.5	2	0.20	< 0.5	11	21	926	3.25	< 10	< 1	0.93	10	1.52	110	125
H573083	299	229	0.6	1.54	12	170	< 0.5	2	0.12	< 0.5	6	66	930	2.43	< 10	< 1	0.47	10	1.02	80	143
H573084	299	229	0.6	0.59	4	140	< 0.5	2	0.04	< 0.5	5	51	644	1.40	< 10	< 1	0.26	10	0.46	35	80
H573085	299	229	0.2	2.35	4	260	< 0.5	< 2	0.14	< 0.5	10	156	1080	3.04	10	< 1	1.32	30	1.95	130	102
H573086	299	229	0.4	2.15	4	170	< 0.5	2	0.11	< 0.5	11	130	1690	2.65	< 10	< 1	1.03	20	1.85	115	270
H573087	299	229	0.6	1.81	4	100	0.5	6	0.15	< 0.5	18	71	5780	3.11	< 10	< 1	0.71	10	1.44	115	85
H573088	299	229	0.8	2.17	12	110	0.5	2	0.12	< 0.5	19	76	4350	3.69	< 10	< 1	1.19	10	1.77	130	43
H573089	299	229	1.0	1.94	24	100	< 0.5	10	0.13	< 0.5	15	75	4880	3.67	< 10	< 1	0.75	20	1.50	150	165
H573090	299	229	0.6	2.49	12	330	< 0.5	2	0.19	< 0.5	17	166	2890	3.09	10	< 1	1.17	20	1.90	150	60
H573091	299	229	2.2	2.26	22	140	0.5	10	0.14	< 0.5	19	224	6550	3.72	< 10	< 1	0.98	30	1.68	140	65
H573092	299	229	2.0	2.67	12	140	< 0.5	6	0.33	< 0.5	17	48	4810	3.83	10	< 1	1.27	30	1.83	170	105
H573093	299	229	0.6	2.86	6	630	< 0.5	< 2	0.50	< 0.5	15	50	2340	4.67	< 10	< 1	1.08	20	1.86	165	42
H573094	299	229	0.6	2.75	4	110	< 0.5	4	0.45	< 0.5	17	27	3680	4.68	< 10	< 1	1.07	20	1.87	155	61
H573095	299	229	0.8	1.60	32	70	0.5	2	0.37	< 0.5	52	73	964	5.63	< 10	< 1	1.03	30	1.21	685	18
H573096	299	229	0.4	1.49	2	260	< 0.5	2	0.23	< 0.5	14	52	3100	2.37	< 10	< 1	0.62	20	1.04	175	62
H573097	299	229	0.8	2.36	16	260	< 0.5	< 2	0.42	< 0.5	23	196	983	4.16	10	1	1.57	20	2.20	475	97
H573098	299	229	1.6	1.45	26	90	< 0.5	4	0.36	< 0.5	26	75	1395	3.80	< 10	< 1	0.50	20	1.25	415	57
H573099	299	229	0.8	1.23	18	80	< 0.5	6	0.23	< 0.5	28	50	810	3.43	< 10	< 1	0.32	20	1.05	420	96
H573100	299	229	0.6	1.67	6	270	< 0.5	2	0.30	< 0.5	17	80	1025	2.78	< 10	< 1	0.73	10	1.37	245	64
H573101	299	229	0.4	1.49	10	210	< 0.5	< 2	0.25	< 0.5	14	72	552	2.80	< 10	< 1	0.62	10	1.36	255	105
H573102	299	229	0.4	1.30	12	320	< 0.5	< 2	0.25	< 0.5	15	62	501	2.75	< 10	< 1	0.67	20	1.14	330	59
H573103	299	229	0.8	1.55	18	160	< 0.5	2	0.24	< 0.5	25	102	1005	3.60	< 10	< 1	0.85	10	1.51	495	78
H573104	299	229	0.8	2.22	16	90	< 0.5	< 2	0.28	< 0.5	22	239	1025	4.40	< 10	< 1	1.22	20	2.50	395	113
H573105	299	229	1.2	1.37	22	70	< 0.5	10	0.23	< 0.5	21	44	1105	3.88	< 10	< 1	0.39	10	1.16	375	62
H573106	299	229	0.8	1.50	8	130	< 0.5	4	0.25	< 0.5	17	76	1045	3.13	< 10	< 1	0.57	10	1.25	325	70

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-JUL-93
Invoice No. :I9316500
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316500

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A573067	299	229	0.04	5	1010	12	< 2	7	75	0.09	10	< 10	67	< 10	40
A573068	299	229	0.06	14	580	4	< 2	8	54	0.07	10	< 10	53	10	46
A573069	299	229	0.04	3	560	4	< 2	6	37	0.03	10	< 10	40	< 10	44
A573070	299	229	0.04	3	770	4	2	4	53	0.03	10	< 10	45	< 10	50
A573071	299	229	0.03	7	1160	6	2	11	23	0.20	10	< 10	124	10	52
A573072	299	229	0.06	17	1150	4	< 2	11	29	0.22	10	< 10	125	10	52
A573073	299	229	0.08	81	1470	4	2	12	24	0.27	10	< 10	206	20	86
A573074	299	229	0.06	55	1680	< 2	< 2	6	23	0.16	10	< 10	142	20	54
A573075	299	229	0.11	56	1550	8	< 2	6	23	0.12	10	< 10	132	40	68
A573076	299	229	0.08	19	1260	< 2	< 2	3	26	0.09	10	< 10	229	30	70
A573077	299	229	0.12	8	320	< 2	2	3	39	0.12	< 10	< 10	227	30	64
A573078	299	229	0.06	8	1460	4	< 2	11	31	0.18	10	< 10	117	10	52
A573079	299	229	0.06	4	1300	2	< 2	14	19	0.22	10	< 10	140	10	42
A573080	299	229	0.07	7	1460	14	< 2	18	31	0.24	10	< 10	156	10	48
A573081	299	229	0.07	7	1410	6	< 2	12	21	0.20	10	< 10	129	10	34
A573082	299	229	0.06	7	890	4	< 2	11	21	0.14	< 10	< 10	107	< 10	42
A573083	299	229	0.04	13	470	2	< 2	6	9	0.06	< 10	< 10	53	< 10	42
A573084	299	229	0.03	6	280	4	< 2	2	7	0.02	< 10	< 10	18	< 10	24
A573085	299	229	0.04	30	510	4	2	11	9	0.17	10	< 10	84	10	48
A573086	299	229	0.03	31	480	2	< 2	8	11	0.12	10	< 10	68	< 10	46
A573087	299	229	0.02	24	630	< 2	< 2	7	4	0.10	< 10	< 10	57	< 10	72
A573088	299	229	0.02	23	490	< 2	< 2	11	3	0.16	10	< 10	102	< 10	68
A573089	299	229	0.02	21	520	< 2	2	9	4	0.11	10	< 10	84	< 10	78
A573090	299	229	0.03	34	760	< 2	< 2	12	6	0.16	10	< 10	96	< 10	60
A573091	299	229	0.03	45	610	6	8	11	6	0.09	10	< 10	89	< 10	96
A573092	299	229	0.04	14	1320	2	< 2	14	10	0.20	10	< 10	129	< 10	60
A573093	299	229	0.09	11	1360	2	< 2	14	29	0.22	10	< 10	129	10	42
A573094	299	229	0.05	13	1530	< 2	< 2	14	16	0.21	10	< 10	126	< 10	52
A573095	299	229	0.03	32	980	< 2	< 2	8	15	0.13	10	< 10	71	< 10	118
A573096	299	229	0.04	12	550	< 2	< 2	10	13	0.11	< 10	< 10	74	< 10	50
A573097	299	229	0.06	42	1260	< 2	< 2	16	21	0.21	10	< 10	158	10	110
A573098	299	229	0.03	20	980	6	4	11	15	0.06	10	< 10	82	< 10	108
A573099	299	229	0.03	11	540	2	< 2	8	11	0.03	10	< 10	56	< 10	78
A573100	299	229	0.07	13	540	4	< 2	12	17	0.16	< 10	< 10	89	< 10	50
A573101	299	229	0.04	11	530	< 2	2	10	13	0.12	10	< 10	77	< 10	50
A573102	299	229	0.04	9	530	2	< 2	11	15	0.13	10	< 10	77	< 10	50
A573103	299	229	0.03	24	550	2	< 2	10	11	0.11	10	< 10	72	< 10	90
A573104	299	229	0.02	54	900	< 2	< 2	11	9	0.09	10	< 10	78	10	76
A573105	299	229	0.02	11	490	6	2	5	9	0.02	10	< 10	39	< 10	88
A573106	299	229	0.05	8	490	6	< 2	9	14	0.09	10	< 10	67	< 10	58

CERTIFICATION: Jan Buchler

Chemex Labs Ltd.

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Page No. :2-A
Total Pages :3
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Account :FC

CERTIFICATE OF ANALYSIS A9316500

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H573107	299	229	0.8	1.53	2	270	0.5	2	0.26	< 0.5	15	78	1010	2.74	< 10	< 1	0.73	10	1.39	340	131
H573108	299	229	0.8	1.59	2	170	0.5	< 2	0.30	< 0.5	19	88	1195	3.48	< 10	< 1	0.83	10	1.63	515	156
H573109	299	229	0.6	1.11	2	70	0.5	< 2	0.24	0.5	20	91	923	3.36	< 10	< 1	0.27	10	0.92	395	78
H573110	299	229	0.6	0.49	4	60	< 0.5	< 2	0.13	0.5	13	39	748	2.29	< 10	< 1	0.13	10	0.41	220	146
H573111	299	229	0.2	1.15	2	230	< 0.5	< 2	0.22	0.5	13	53	768	2.15	< 10	< 1	0.53	10	1.05	240	89
H573112	299	229	0.4	1.08	2	110	< 0.5	< 2	0.23	< 0.5	13	56	424	2.70	< 10	< 1	0.39	10	1.02	265	202
H573113	299	229	0.4	1.40	2	90	< 0.5	< 2	0.26	0.5	20	163	633	2.98	< 10	< 1	0.49	10	0.94	270	88
H573114	299	229	0.4	1.38	2	180	< 0.5	2	0.34	0.5	10	65	713	2.37	< 10	< 1	0.68	10	1.25	150	101
H573115	299	229	0.6	0.56	4	100	< 0.5	2	0.30	1.0	13	114	1070	2.17	< 10	< 1	0.21	10	0.26	260	112
H573116	299	229	0.4	0.43	2	100	< 0.5	< 2	0.19	0.5	8	74	738	1.68	< 10	< 1	0.18	20	0.23	145	136
H573117	299	229	0.8	0.45	8	70	< 0.5	< 2	0.11	0.5	9	125	1135	2.59	< 10	< 1	0.19	20	0.15	160	74
H573118	299	229	0.8	1.42	2	90	0.5	< 2	0.21	1.0	12	79	1460	2.68	< 10	< 1	0.57	10	1.24	260	121
H573119	299	229	0.6	2.07	8	120	< 0.5	< 2	0.29	< 0.5	13	126	1265	3.27	< 10	< 1	1.21	10	1.77	155	54
H573120	299	229	0.2	1.99	2	20	0.5	< 2	0.32	0.5	15	109	682	4.97	< 10	< 1	1.28	< 10	1.77	155	11
H573121	299	229	0.2	2.03	2	210	< 0.5	< 2	0.28	< 0.5	15	94	800	3.40	< 10	< 1	1.47	< 10	1.78	125	25
H573122	299	229	0.4	1.10	2	150	< 0.5	< 2	0.21	< 0.5	9	47	1170	2.13	< 10	< 1	0.46	10	1.01	120	98
H573123	299	229	0.4	1.52	2	140	< 0.5	< 2	0.27	< 0.5	10	165	1035	2.25	< 10	< 1	0.75	10	1.14	135	221
H573124	299	229	1.0	1.91	16	190	0.5	< 2	2.17	< 0.5	12	112	1140	2.66	< 10	< 1	0.60	20	1.19	200	91
H573125	299	229	0.6	2.07	16	230	< 0.5	4	0.38	< 0.5	13	174	954	2.98	< 10	< 1	1.07	10	1.59	145	90
H573126	299	229	0.6	1.45	2	190	< 0.5	2	0.31	< 0.5	10	115	1305	2.16	< 10	< 1	0.66	< 10	1.11	130	121
H573127	299	229	0.6	1.43	4	210	< 0.5	< 2	0.29	< 0.5	8	187	992	1.81	< 10	< 1	0.53	10	0.92	170	106
H573128	299	229	0.6	1.56	2	200	0.5	< 2	0.33	0.5	8	192	1080	2.08	< 10	< 1	0.54	10	1.04	150	78
H573129	299	229	0.4	1.41	2	160	0.5	< 2	0.35	0.5	9	189	449	1.94	< 10	< 1	0.46	10	0.96	150	158
H573130	299	229	0.8	1.98	14	100	< 0.5	< 2	0.65	< 0.5	14	118	963	4.15	< 10	< 1	0.76	10	1.53	260	53
H573131	299	229	0.2	2.50	14	470	< 0.5	< 2	0.88	< 0.5	16	120	623	4.93	< 10	< 1	1.22	10	1.85	240	83
H573132	299	229	0.4	2.07	2	220	0.5	< 2	0.62	< 0.5	14	155	662	3.49	< 10	< 1	0.84	10	1.51	235	168
H573133	299	229	0.8	0.83	2	110	< 0.5	< 2	0.48	< 0.5	10	262	1440	1.51	< 10	< 1	0.31	30	0.40	185	409
H573134	299	229	1.0	0.71	6	130	< 0.5	< 2	0.58	< 0.5	8	230	1200	1.24	< 10	< 1	0.33	20	0.29	120	129
H573135	299	229	1.2	0.58	6	170	< 0.5	< 2	0.74	< 0.5	5	160	723	1.11	< 10	< 1	0.25	20	0.10	50	730
H573136	299	229	0.8	0.63	8	80	< 0.5	< 2	0.57	< 0.5	9	277	441	2.56	< 10	< 1	0.30	10	0.14	70	276
H573137	299	229	0.8	0.64	10	260	< 0.5	4	1.21	< 0.5	2	165	685	0.72	< 10	< 1	0.22	20	0.14	70	101
H573138	299	229	1.0	0.64	16	130	< 0.5	< 2	0.64	< 0.5	3	223	653	1.03	< 10	< 1	0.24	30	0.14	65	69
H573139	299	229	0.8	0.97	6	120	< 0.5	6	0.68	< 0.5	4	261	654	1.30	< 10	< 1	0.29	20	0.23	80	116
H573140	299	229	0.6	0.73	4	180	< 0.5	< 2	1.47	< 0.5	6	88	607	1.30	< 10	< 1	0.31	20	0.61	110	116
H573141	299	229	0.6	1.02	2	120	< 0.5	< 2	0.71	< 0.5	7	136	583	1.55	< 10	< 1	0.49	20	0.86	165	121
H573142	299	229	0.4	0.85	2	30	< 0.5	< 2	1.34	< 0.5	8	168	330	4.33	< 10	< 1	0.45	10	0.62	150	384
H573143	299	229	0.4	1.08	4	140	< 0.5	< 2	0.44	< 0.5	9	198	275	1.77	< 10	< 1	0.52	20	0.70	155	85
H573144	299	229	0.2	1.20	2	140	< 0.5	2	0.51	0.5	9	138	315	2.09	< 10	< 1	0.53	20	0.91	120	65
H573145	299	229	0.2	1.30	2	160	< 0.5	< 2	0.70	< 0.5	8	203	402	1.76	< 10	< 1	0.59	20	0.80	105	155
H573146	299	229	0.6	1.15	2	140	< 0.5	< 2	1.33	< 0.5	8	194	413	1.75	< 10	< 1	0.45	20	0.60	125	159

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page :2-B
Total Pa :3
Certificate Date: 09-JUL-93
Invoice No. :I9316500
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316500

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A573107	299	229	0.06	8	520	< 2	< 2	11	13	0.16	< 10	< 10	86	< 10	56
A573108	299	229	0.03	21	890	6	< 2	11	10	0.10	< 10	< 10	83	10	86
A573109	299	229	0.04	8	480	4	< 2	6	13	0.01	< 10	< 10	43	< 10	70
A573110	299	229	0.01	4	290	10	< 2	2	7	< 0.01	< 10	< 10	20	< 10	40
A573111	299	229	0.03	6	450	4	< 2	10	10	0.08	< 10	< 10	63	< 10	44
A573112	299	229	0.03	6	470	< 2	< 2	8	10	0.05	< 10	< 10	50	< 10	50
A573113	299	229	0.08	8	410	4	< 2	7	18	0.03	< 10	< 10	48	< 10	46
A573114	299	229	0.03	9	710	12	< 2	10	11	0.11	< 10	< 10	76	< 10	32
A573115	299	229	0.02	7	380	8	< 2	1	13	< 0.01	< 10	< 10	14	< 10	62
A573116	299	229	0.01	3	190	4	2	1	8	< 0.01	< 10	< 10	12	< 10	30
A573117	299	229	0.01	5	210	20	4	1	8	< 0.01	< 10	< 10	7	< 10	40
A573118	299	229	0.02	13	600	12	< 2	6	10	0.07	< 10	< 10	51	< 10	52
A573119	299	229	0.06	21	960	2	< 2	9	16	0.17	< 10	< 10	87	10	36
A573120	299	229	0.06	21	1040	< 2	< 2	9	18	0.18	< 10	< 10	80	10	28
A573121	299	229	0.04	26	950	6	< 2	10	16	0.22	< 10	< 10	86	10	24
A573122	299	229	0.03	5	420	2	2	7	9	0.07	< 10	< 10	51	< 10	30
A573123	299	229	0.07	9	420	< 2	< 2	10	16	0.08	< 10	< 10	64	< 10	32
A573124	299	229	0.04	5	560	4	4	12	24	0.08	< 10	< 10	86	10	30
A573125	299	229	0.14	7	610	4	< 2	14	26	0.22	< 10	< 10	117	< 10	30
A573126	299	229	0.09	3	390	10	2	10	18	0.14	< 10	< 10	68	< 10	34
A573127	299	229	0.09	4	290	2	< 2	7	19	0.09	< 10	< 10	50	< 10	42
A573128	299	229	0.10	6	370	12	< 2	8	21	0.11	< 10	< 10	59	< 10	38
A573129	299	229	0.09	5	470	4	< 2	6	19	0.10	< 10	< 10	51	< 10	36
A573130	299	229	0.08	3	1030	8	< 2	12	21	0.15	< 10	< 10	105	10	52
A573131	299	229	0.13	7	1340	8	< 2	16	39	0.23	< 10	< 10	144	10	38
A573132	299	229	0.12	3	1060	6	2	11	30	0.14	< 10	< 10	104	10	46
A573133	299	229	0.08	3	350	8	2	2	18	< 0.01	< 10	< 10	14	< 10	40
A573134	299	229	0.06	4	230	2	< 2	1	19	< 0.01	< 10	< 10	9	< 10	24
A573135	299	229	0.02	2	160	2	6	< 1	15	< 0.01	< 10	< 10	5	< 10	10
A573136	299	229	0.01	4	150	6	2	< 1	10	< 0.01	< 10	< 10	3	< 10	14
A573137	299	229	0.03	3	120	4	< 2	< 1	21	< 0.01	< 10	< 10	3	< 10	12
A573138	299	229	0.01	2	120	6	2	< 1	12	< 0.01	< 10	< 10	2	< 10	12
A573139	299	229	0.01	2	110	4	2	< 1	12	< 0.01	< 10	< 10	4	< 10	12
A573140	299	229	0.02	3	380	< 2	< 2	7	27	0.02	< 10	< 10	34	< 10	14
A573141	299	229	0.06	4	420	< 2	< 2	9	21	0.06	< 10	< 10	53	< 10	28
A573142	299	229	0.02	4	280	8	6	3	18	0.01	< 10	< 10	25	10	20
A573143	299	229	0.07	6	300	8	< 2	6	18	0.04	< 10	< 10	42	< 10	26
A573144	299	229	0.06	6	420	6	4	8	16	0.07	< 10	< 10	55	< 10	24
A573145	299	229	0.09	3	390	< 2	< 2	8	20	0.06	< 10	< 10	53	< 10	20
A573146	299	229	0.07	4	490	4	2	7	22	0.03	< 10	< 10	41	< 10	18

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-JUL-93
Invoice No. : 19316500
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316500

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H573147	299	229	0.4	1.69	< 2	440	< 0.5	< 2	0.63	< 0.5	12	195	460	3.21	< 10	< 1	0.89	20	1.26	150	61
H573148	299	229	0.8	0.55	6	80	< 0.5	2	0.45	< 0.5	4	183	479	2.02	< 10	< 1	0.33	20	0.07	75	59
H573149	299	229	0.4	0.45	8	70	< 0.5	< 2	1.37	< 0.5	2	144	334	0.80	< 10	< 1	0.23	20	0.12	115	70
H573150	299	229	0.4	0.62	4	90	< 0.5	< 2	1.12	< 0.5	3	132	276	0.77	< 10	< 1	0.20	20	0.25	105	74
H573151	299	229	0.4	1.52	8	250	< 0.5	< 2	0.75	< 0.5	7	190	642	1.92	< 10	< 1	0.63	20	1.09	125	97
H573152	299	229	0.4	1.48	8	330	< 0.5	2	0.58	< 0.5	5	154	572	2.17	< 10	< 1	0.65	< 10	1.13	115	113
H573153	299	229	0.4	1.44	6	240	< 0.5	< 2	0.74	< 0.5	8	174	395	2.50	< 10	< 1	0.53	10	1.04	135	88
H573154	299	229	0.2	1.52	10	140	< 0.5	< 2	0.81	< 0.5	10	167	202	2.46	10	< 1	0.61	20	1.05	140	170
H573155	299	229	0.2	1.77	2	320	< 0.5	< 2	1.23	< 0.5	6	190	138	1.80	< 10	< 1	0.79	10	1.19	135	143
H573156	299	229	< 0.2	0.76	14	180	< 0.5	2	0.38	< 0.5	8	237	159	1.52	< 10	< 1	0.40	10	0.32	115	68
H573157	299	229	0.6	1.98	24	380	< 0.5	< 2	0.76	< 0.5	8	241	449	2.70	< 10	< 1	0.94	10	1.48	155	150
H573158	299	229	11.0	1.79	6	230	< 0.5	2	0.76	6.0	8	190	478	2.51	< 10	< 1	0.89	10	1.32	185	272
H573159	299	229	0.6	1.52	< 2	160	< 0.5	< 2	0.88	0.5	8	184	198	2.48	< 10	< 1	0.61	10	0.90	145	119
H573160	299	229	0.6	0.96	2	120	< 0.5	< 2	1.11	< 0.5	4	133	238	0.92	< 10	< 1	0.21	10	0.30	80	100
H573161	299	229	0.4	1.09	4	130	< 0.5	< 2	0.94	< 0.5	2	151	288	0.82	< 10	< 1	0.20	10	0.33	75	40
H573162	299	229	0.2	0.79	2	100	< 0.5	2	0.63	< 0.5	3	140	203	1.07	< 10	< 1	0.23	10	0.49	90	66
H573163	299	229	0.4	1.09	< 2	190	< 0.5	< 2	0.53	< 0.5	6	244	107	1.47	< 10	< 1	0.44	< 10	0.80	100	126
H573164	299	229	0.4	0.69	< 2	100	< 0.5	2	1.22	< 0.5	5	151	388	1.64	< 10	< 1	0.32	10	0.53	90	162
H573165	299	229	0.2	0.57	4	100	< 0.5	2	1.84	< 0.5	3	212	372	1.35	< 10	< 1	0.19	20	0.40	70	61
H573166	299	229	0.4	0.74	6	90	< 0.5	< 2	1.79	< 0.5	6	159	347	1.56	< 10	< 1	0.25	20	0.51	60	80
H573167	299	229	0.2	1.58	< 2	120	< 0.5	< 2	1.93	< 0.5	6	251	355	1.85	< 10	< 1	0.93	10	1.45	85	286
833	299	229	0.6	2.16	< 2	170	< 0.5	< 2	0.14	< 0.5	8	235	2690	2.27	10	< 1	0.85	10	1.47	95	405
834	299	229	0.8	1.71	2	60	< 0.5	8	0.30	< 0.5	20	175	1070	3.76	< 10	< 1	0.62	10	1.20	325	74
835	299	229	0.6	1.48	6	230	< 0.5	< 2	0.33	< 0.5	10	139	1185	1.96	< 10	< 1	0.63	10	1.12	140	104
836	299	229	0.6	1.57	< 2	240	< 0.5	< 2	1.40	< 0.5	11	210	897	2.54	10	< 1	0.70	20	1.00	150	140
837	299	229	0.2	1.09	2	140	< 0.5	< 2	1.66	< 0.5	4	184	315	1.61	< 10	< 1	0.41	10	0.79	70	72

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 166
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-JUL-93
Invoice No. : I9316500
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316500

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H573147	299	229	0.11	3	790	4	< 2	12	26	0.17	< 10	< 10	99	10	22
H573148	299	229	0.02	4	190	6	< 2	< 1	11	< 0.01	< 10	< 10	3	< 10	14
H573149	299	229	0.05	2	160	2	4	< 1	17	< 0.01	< 10	< 10	2	< 10	12
H573150	299	229	0.06	3	240	6	< 2	2	20	< 0.01	< 10	< 10	10	< 10	18
H573151	299	229	0.12	3	440	6	2	11	27	0.09	< 10	< 10	65	< 10	26
H573152	299	229	0.11	3	490	12	< 2	10	26	0.14	< 10	< 10	76	< 10	20
H573153	299	229	0.10	4	460	2	< 2	10	25	0.08	< 10	< 10	71	< 10	24
H573154	299	229	0.08	4	510	< 2	< 2	10	24	0.07	< 10	< 10	66	< 10	28
H573155	299	229	0.10	3	480	8	2	12	30	0.11	< 10	< 10	82	< 10	26
H573156	299	229	0.08	4	180	2	< 2	2	14	0.02	< 10	< 10	23	< 10	30
H573157	299	229	0.13	5	530	6	4	14	30	0.16	< 10	< 10	105	< 10	44
H573158	299	229	0.09	5	450	1000	20	13	21	0.13	< 10	< 10	92	10	642
H573159	299	229	0.11	4	420	20	2	14	27	0.09	< 10	< 10	60	< 10	98
H573160	299	229	0.13	2	190	2	< 2	2	37	< 0.01	< 10	< 10	13	< 10	18
H573161	299	229	0.15	1	240	4	2	1	39	< 0.01	< 10	< 10	10	< 10	18
H573162	299	229	0.08	2	280	6	< 2	2	17	0.02	< 10	< 10	23	< 10	20
H573163	299	229	0.10	4	390	< 2	< 2	6	19	0.09	< 10	< 10	44	< 10	24
H573164	299	229	0.05	5	350	8	2	5	26	0.02	< 10	10	28	10	20
H573165	299	229	0.07	6	400	2	2	4	78	< 0.01	< 10	< 10	18	< 10	14
H573166	299	229	0.06	4	530	4	< 2	3	64	0.01	< 10	< 10	24	< 10	14
H573167	299	229	0.09	6	400	2	2	14	68	0.18	< 10	< 10	94	10	18
833	299	229	0.06	25	430	2	2	7	13	0.09	< 10	< 10	61	10	38
834	299	229	0.09	11	570	< 2	< 2	9	20	0.07	< 10	< 10	64	20	50
835	299	229	0.12	7	380	4	< 2	9	22	0.12	< 10	< 10	65	10	36
836	299	229	0.10	5	740	8	< 2	10	28	0.10	< 10	10	75	10	20
837	299	229	0.08	4	650	< 2	< 2	5	61	0.06	< 10	< 10	45	10	16

CERTIFICATION: Ian Bachler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/167
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-JUL-93
Invoice No. :19316770
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316770

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573168H	208	274	0.07	0.014	0.10	3680						
573169H	208	274	0.08	0.011	0.27	3260						
573170H	208	274	0.08	0.010	0.24	3740						
573171H	208	276	0.04	0.006	0.17	7820						
573172H	208	274	0.22	0.004	0.24	4720						
573173H	208	276	0.07	0.007	0.24	8540						
573174H	208	274	0.19	0.016	0.24	6660						
573175H	208	274	0.44	0.008	0.21	4580						
573176H	208	276	0.44	0.019	0.27	8180						
573177H	208	276	0.29	0.005	0.10	9300						
573178H	208	274	0.44	0.006	0.27	4620						
573179H	208	274	0.40	0.009	0.27	4440						
573180H	208	276	0.24	0.014	0.17	8820						
573181H	208	276	0.20	0.008	0.14	9280						
573182H	208	276	0.26	0.012	0.10	7860						
573183H	208	276	0.32	0.017	0.17	7320						
573184H	208	276	0.36	0.008	0.21	8760						
573185H	208	276	0.54	0.014	0.41	8420						
573186H	208	276	0.29	0.018	1.21	10240						
573187H	208	276	0.12	0.004	0.17	10800						
573188H	208	276	0.13	0.002	0.10	10020						
573189H	208	276	0.17	0.004	0.21	9920						
573190H	208	276	0.24	0.005	0.17	9500						
573191H	208	276	0.17	0.003	0.17	10020						
573192H	208	276	0.24	0.002	0.24	9980						
573193H	208	273	0.19	0.003	0.24	12380						
573194H	208	276	0.14	0.004	0.10	11320						
573195H	208	273	0.15	0.002	0.14	12020						
573196H	208	276	0.10	0.004	0.07	10360						
573197H	208	276	0.15	0.005	0.10	10980						
573198H	208	276	0.11	0.011	0.10	11140						
573199H	208	276	0.07	0.004	0.14	11080						
573200H	208	274	0.09	0.005	0.14	5340						
573201H	208	276	0.12	0.010	0.14	11140						
573202H	208	276	0.22	0.007	0.27	11640						
573203H	208	273	0.15	0.004	0.21	12080						
573204H	208	276	0.10	0.006	0.10	11100						
573205H	208	276	0.13	0.002	0.17	11180						
573206H	208	276	0.18	0.005	0.17	11660						
573207H	208	276	0.18	0.003	0.21	10660						

CERTIFICATION: Said Zeinab

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Page N :2
Total Pa :3
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CERTIFICATE OF ANALYSIS A9316770

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573208H	208	276	0.26	0.017	0.34	11200						
573209H	208	276	0.24	0.008	0.31	10060						
573210H	208	276	0.15	0.003	0.21	10640						
573211H	208	276	0.17	0.011	0.17	11060						
573212H	208	276	0.40	0.054	0.48	11260						
573213H	208	273	0.27	0.010	0.31	11840						
573214H	208	276	0.23	0.008	0.31	10020						
573215H	208	274	0.20	0.021	0.21	6540						
573216H	208	274	0.16	0.003	0.14	4460						
573217H	208	276	0.14	0.004	0.21	9180						
573218H	208	276	0.13	0.006	0.21	8680						
573219H	208	274	0.16	0.013	0.21	6300						
573220H	208	274	0.26	0.002	0.31	5020						
573221H	208	276	0.11	0.002	0.10	10160						
573222H	208	274	0.07	0.003	0.14	6780						
573223H	208	276	0.15	0.003	0.14	9180						
573224H	208	276	0.08	0.004	0.10	11520						
573225H	208	276	0.12	0.005	0.21	8060						
573226H	208	273	0.14	0.013	0.27	13540						
573227H	208	276	0.24	0.004	0.27	11180						
573228H	208	273	0.21	0.025	0.38	12500						
573229H	208	274	0.17	0.008	0.17	6640						
573230H	208	273	0.31	0.009	1.65	12300						
573231H	208	273	0.10	0.010	0.72	11980						
573232H	208	273	0.55	0.012	0.82	13180						
573233H	208	276	0.18	0.008	0.24	11420						
573234H	208	276	0.24	0.015	0.24	11460						
573235H	208	276	0.16	0.012	0.14	7760						
573236H	208	274	0.18	0.014	0.14	7240						
573237H	208	276	0.15	0.014	0.21	8660						
573238H	208	276	0.21	0.026	0.31	9780						
573239H	208	274	0.29	0.008	0.41	5400						
573240H	208	276	0.16	0.005	0.17	10920						
573241H	208	276	0.11	0.014	0.10	11540						
573242H	208	273	0.09	0.049	0.07	12500						
573243H	208	276	0.11	0.007	0.10	9880						
573244H	208	276	0.10	0.012	0.07	11520						
573245H	208	276	0.11	0.016	0.14	11720						
573246H	208	276	0.13	0.008	0.07	9340						
573247H	208	276	0.14	0.007	0.07	9480						

CERTIFICATION: Saïd Zeinab

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Project : CASINO/167
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-JUL-93
Invoice No. : I9316770
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316770

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
573248H	208	273	0.16	0.027	0.14	12340
573249H	208	273	0.11	0.066	0.10	12240
573250H	208	273	0.11	0.006	0.10	12100
573251H	208	276	0.11	0.013	0.10	9080
573252H	208	273	0.09	0.075	0.07	13020
573253H	208	273	0.10	0.020	< 0.03	13240
573254H	208	273	0.09	0.016	0.07	13780
573255H	208	273	0.06	0.018	0.07	13960
573256H	208	274	0.05	0.006	0.03	3860
573257H	208	273	0.07	0.061	0.10	13480
573258H	208	273	0.06	0.030	0.07	13020
573259H	208	273	0.10	0.013	< 0.03	13540
573260H	208	273	0.09	0.011	0.10	12260
573261H	208	273	0.16	0.043	0.14	14240
573262H	208	273	0.14	0.016	0.14	12820
573263H	208	273	0.10	0.039	0.10	13060
573264H	208	273	0.06	0.026	< 0.03	12220
573265H	208	273	0.06	0.030	< 0.03	13260
573266H	208	273	0.05	0.014	0.07	12920
573267H	208	274	0.02	0.005	0.10	3160
573268H	208	274	0.02	0.013	0.07	5740
573269H	208	274	0.06	0.009	0.07	3240
838A	208	274	0.26	0.014	1.30	7120
839A	208	274	0.19	0.006	0.17	6300
840A	208	274	0.16	0.040	0.31	6360
841A	208	274	0.13	0.010	0.10	4560
842A	208	274	0.06	0.014	0.03	6080

CERTIFICATION: Said Zeinab

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Project : CASINO/167
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :3
Certificate Date: 13-JUL-93
Invoice No. :I9316771
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316771

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573168H	299	229	0.4	2.42	16	230	< 0.5	< 2	0.06	< 0.5	3	31	619	4.12	< 10	< 1	0.18	< 10	0.26	60	66
573169H	299	229	0.2	3.05	24	660	< 0.5	< 2	0.06	< 0.5	4	29	713	4.94	< 10	< 1	0.65	< 10	0.87	50	56
573170H	299	229	0.2	3.14	20	540	< 0.5	< 2	0.10	< 0.5	5	45	764	5.23	< 10	< 1	0.89	10	1.31	60	50
573171H	299	229	1.2	3.38	2	630	< 0.5	< 2	0.08	< 0.5	6	34	363	3.45	< 10	< 1	0.95	20	1.40	75	24
573172H	299	229	0.8	4.09	8	550	< 0.5	< 2	0.07	< 0.5	11	84	2130	3.12	< 10	< 1	1.37	30	1.64	90	17
573173H	299	229	0.8	1.96	14	410	< 0.5	< 2	0.06	< 0.5	4	92	651	2.39	< 10	< 1	0.57	30	0.66	40	35
573174H	299	229	1.6	2.02	16	160	< 0.5	< 2	0.04	< 0.5	9	103	1985	3.47	< 10	< 1	0.48	20	0.51	40	89
573175H	299	229	0.8	2.83	18	220	< 0.5	< 2	0.13	< 0.5	20	91	4160	2.27	< 10	< 1	0.78	40	0.84	50	37
573176H	299	229	1.0	2.97	20	200	< 0.5	< 2	0.17	< 0.5	19	94	4330	2.80	< 10	< 1	0.82	30	1.16	75	102
573177H	299	229	0.2	2.76	14	260	< 0.5	< 2	0.17	< 0.5	17	103	2870	2.35	10	< 1	0.62	20	0.94	55	19
573178H	299	229	0.8	2.78	14	200	< 0.5	< 2	0.19	< 0.5	23	89	4470	2.76	10	< 1	0.96	20	1.21	70	31
573179H	299	229	0.8	2.83	8	170	< 0.5	< 2	0.18	< 0.5	18	93	3830	2.55	10	< 1	0.77	20	1.35	75	47
573180H	299	229	0.4	2.90	24	270	< 0.5	< 2	0.21	< 0.5	16	101	2390	2.54	10	< 1	0.97	20	1.58	85	58
573181H	299	229	0.4	2.27	12	140	< 0.5	< 2	0.16	< 0.5	17	60	1955	2.41	10	< 1	0.48	10	1.20	70	32
573182H	299	229	1.4	1.91	18	160	< 0.5	< 2	0.12	< 0.5	14	152	2630	2.07	< 10	< 1	0.52	10	0.73	60	58
573183H	299	229	1.8	2.76	6	180	< 0.5	< 2	0.17	< 0.5	16	83	3120	2.59	10	< 1	0.80	20	1.27	130	85
573184H	299	229	3.2	2.82	26	80	< 0.5	< 2	0.12	16.5	20	120	3610	2.52	10	< 1	0.50	20	0.44	55	33
573185H	299	229	12.0	2.30	300	30	< 0.5	28	0.21	23.0	23	125	5070	4.95	10	< 1	0.60	20	0.19	30	63
573186H	299	229	12.4	1.07	1150	10	< 0.5	82	0.19	10.5	20	168	2880	9.84	< 10	< 1	0.57	< 10	0.07	20	90
573187H	299	229	1.4	1.50	154	70	< 0.5	2	0.32	5.5	24	73	1265	3.73	10	< 1	0.46	20	0.25	220	19
573188H	299	229	0.6	2.74	14	270	< 0.5	4	0.34	1.5	18	113	1205	3.37	10	< 1	0.64	10	1.45	165	12
573189H	299	229	1.2	2.18	54	140	< 0.5	< 2	0.29	1.5	23	82	1675	2.93	10	< 1	0.65	10	0.74	240	28
573190H	299	229	2.2	1.81	12	110	< 0.5	< 2	0.28	2.0	29	103	2480	3.31	10	< 1	0.48	20	0.74	345	28
573191H	299	229	2.0	1.35	18	80	< 0.5	2	0.79	0.5	29	62	1690	3.95	10	< 1	0.37	20	0.74	610	19
573192H	299	229	3.0	1.89	40	100	< 0.5	< 2	0.50	< 0.5	36	110	2420	4.96	10	< 1	0.51	20	0.72	820	9
573193H	299	229	1.4	2.45	8	170	< 0.5	< 2	0.43	0.5	27	106	1765	4.06	10	< 1	0.67	20	1.13	525	18
573194H	299	229	1.4	0.91	28	50	< 0.5	4	0.40	< 0.5	19	87	1325	4.25	< 10	< 1	0.32	10	0.33	235	22
573195H	299	229	1.2	1.61	20	100	< 0.5	< 2	2.12	< 0.5	22	116	1460	3.34	10	< 1	0.57	10	0.52	180	11
573196H	299	229	0.6	0.65	14	120	< 0.5	< 2	1.01	< 0.5	8	57	893	1.56	< 10	< 1	0.18	10	0.49	140	24
573197H	299	229	2.0	0.44	12	110	< 0.5	< 2	0.65	< 0.5	9	74	1475	1.68	< 10	< 1	0.22	10	0.08	155	30
573198H	299	229	0.8	1.07	16	110	< 0.5	4	0.47	< 0.5	9	147	1035	2.39	< 10	< 1	0.40	10	0.49	115	61
573199H	299	229	< 0.2	1.44	4	210	< 0.5	2	0.77	0.5	18	91	703	2.68	10	< 1	0.53	10	1.20	160	22
573200H	299	229	0.2	2.75	< 2	180	< 0.5	2	0.92	< 0.5	16	153	846	3.95	10	< 1	1.02	10	2.14	190	24
573201H	299	229	1.4	0.59	20	140	< 0.5	< 2	0.56	< 0.5	14	91	1205	2.14	< 10	< 1	0.23	10	0.36	110	55
573202H	299	229	1.0	2.03	34	110	< 0.5	< 2	0.86	< 0.5	22	137	2190	3.22	10	< 1	0.67	10	1.42	135	34
573203H	299	229	0.4	1.72	12	290	< 0.5	4	0.62	< 0.5	16	179	1475	2.62	< 10	< 1	0.67	< 10	1.19	115	17
573204H	299	229	0.2	2.06	18	230	< 0.5	< 2	0.65	< 0.5	18	122	902	2.81	10	< 1	0.78	< 10	1.45	130	27
573205H	299	229	0.4	2.05	18	230	< 0.5	< 2	0.63	< 0.5	26	105	1270	3.71	10	< 1	0.79	< 10	1.58	130	10
573206H	299	229	0.8	1.59	32	130	< 0.5	< 2	0.90	< 0.5	19	115	1805	2.78	< 10	< 1	0.41	10	0.96	120	21
573207H	299	229	0.6	2.32	26	220	< 0.5	< 2	0.87	< 0.5	25	49	1750	4.03	10	< 1	0.57	< 10	1.61	160	10

CERTIFICATION: Ron Hoechler

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Project : CASINO/167
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Page Number :1-B
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CERTIFICATE OF ANALYSIS A9316771

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573168H	299	229	< 0.01	1	770	24	< 2	9	8	0.02	< 10	10	26	< 10	26
573169H	299	229	0.01	2	820	8	< 2	21	8	0.13	< 10	< 10	79	< 10	28
573170H	299	229	0.02	4	760	22	< 2	16	11	0.17	< 10	< 10	112	< 10	44
573171H	299	229	0.02	3	390	16	< 2	16	10	0.18	< 10	< 10	114	< 10	24
573172H	299	229	0.03	3	360	12	< 2	22	10	0.21	< 10	< 10	143	10	22
573173H	299	229	0.02	3	1040	8	< 2	9	10	0.07	< 10	10	62	< 10	14
573174H	299	229	0.02	4	610	18	< 2	7	8	0.02	< 10	10	48	< 10	20
573175H	299	229	0.04	4	540	4	< 2	12	10	0.10	< 10	< 10	81	10	14
573176H	299	229	0.04	4	580	< 2	< 2	15	12	0.11	< 10	< 10	97	10	18
573177H	299	229	0.04	6	650	10	< 2	10	13	0.09	< 10	< 10	72	10	16
573178H	299	229	0.05	6	730	6	< 2	13	13	0.12	< 10	< 10	99	10	20
573179H	299	229	0.06	7	660	6	2	11	14	0.11	< 10	< 10	92	10	22
573180H	299	229	0.07	6	770	< 2	< 2	15	15	0.12	< 10	< 10	117	10	24
573181H	299	229	0.04	6	730	12	2	9	10	0.04	< 10	< 10	76	10	22
573182H	299	229	0.04	10	540	22	< 2	6	10	0.04	< 10	< 10	56	10	20
573183H	299	229	0.04	9	850	16	2	11	16	0.11	< 10	< 10	97	10	38
573184H	299	229	0.02	14	650	14	< 2	7	17	0.02	< 10	10	58	10	1270
573185H	299	229	0.01	10	1060	696	64	4	17	< 0.01	< 10	10	37	10	544
573186H	299	229	< 0.01	7	900	288	72	3	8	< 0.01	< 10	< 10	16	< 10	342
573187H	299	229	0.01	10	1080	60	4	7	15	< 0.01	< 10	< 10	47	10	126
573188H	299	229	0.07	15	1080	8	< 2	12	22	0.09	< 10	< 10	106	10	60
573189H	299	229	0.04	12	980	22	< 2	8	18	0.06	< 10	< 10	71	10	112
573190H	299	229	0.04	11	820	16	< 2	6	19	0.02	< 10	< 10	54	10	132
573191H	299	229	0.02	9	1000	34	< 2	5	19	< 0.01	< 10	< 10	42	10	158
573192H	299	229	0.02	7	910	32	4	7	20	0.01	< 10	< 10	56	10	174
573193H	299	229	0.06	7	920	< 2	< 2	9	23	0.06	< 10	< 10	79	20	102
573194H	299	229	0.01	4	660	12	< 2	3	10	0.01	< 10	< 10	22	10	64
573195H	299	229	0.03	6	790	14	< 2	4	22	< 0.01	< 10	< 10	34	10	34
573196H	299	229	0.01	3	370	8	2	2	16	< 0.01	< 10	< 10	21	< 10	28
573197H	299	229	0.02	4	300	12	16	< 1	12	< 0.01	< 10	< 10	4	< 10	64
573198H	299	229	0.03	4	440	16	2	3	16	0.01	< 10	< 10	28	10	44
573199H	299	229	0.04	6	710	6	< 2	9	19	0.07	< 10	< 10	68	10	28
573200H	299	229	0.09	10	830	2	< 2	18	28	0.14	< 10	< 10	132	20	32
573201H	299	229	0.02	4	340	8	4	2	11	0.01	< 10	< 10	23	< 10	36
573202H	299	229	0.07	6	680	10	< 2	10	20	0.08	< 10	< 10	89	20	32
573203H	299	229	0.09	6	470	< 2	< 2	10	30	0.14	< 10	< 10	80	10	20
573204H	299	229	0.07	5	590	4	< 2	12	21	0.16	< 10	< 10	94	10	26
573205H	299	229	0.06	3	740	4	2	13	18	0.18	< 10	< 10	113	20	24
573206H	299	229	0.05	3	620	4	6	4	21	0.03	< 10	< 10	51	10	34
573207H	299	229	0.08	2	1150	8	< 2	9	44	0.14	< 10	< 10	109	20	28

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/167
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9316771

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573208H	299	229	0.6	2.16	18	160	< 0.5	< 2	0.91	< 0.5	18	66	2490	2.81	10	< 1	0.86	< 10	1.44	115	86
573209H	299	229	0.6	2.10	6	200	< 0.5	4	0.61	< 0.5	19	53	2290	3.15	< 10	< 1	0.92	< 10	1.60	135	40
573210H	299	229	0.4	1.81	8	170	< 0.5	< 2	0.67	< 0.5	20	47	1425	3.18	< 10	< 1	0.76	10	1.30	120	18
573211H	299	229	0.8	1.40	12	160	< 0.5	< 2	1.19	< 0.5	16	45	1540	2.23	< 10	< 1	0.52	< 10	0.98	95	66
573212H	299	229	2.2	1.59	28	110	< 0.5	< 2	0.87	< 0.5	15	79	3970	2.94	10	< 1	0.66	10	1.27	120	297
573213H	299	229	1.0	2.31	12	140	< 0.5	< 2	0.98	< 0.5	24	51	2540	3.61	10	< 1	1.02	< 10	1.59	120	68
573214H	299	229	0.6	1.44	2	200	< 0.5	< 2	0.81	< 0.5	15	77	2100	2.18	< 10	< 1	0.57	< 10	1.13	85	51
573215H	299	229	2.0	1.58	18	70	< 0.5	< 2	0.95	< 0.5	17	60	1925	3.40	< 10	< 1	0.52	10	1.26	125	121
573216H	299	229	2.0	1.03	16	70	< 0.5	< 2	0.70	0.5	12	69	1625	3.19	< 10	< 1	0.26	10	0.87	130	25
573217H	299	229	1.4	1.68	14	80	< 0.5	< 2	1.05	< 0.5	17	120	1445	3.08	10	< 1	0.51	10	1.33	175	30
573218H	299	229	0.8	1.73	10	150	< 0.5	2	1.04	< 0.5	19	168	1280	2.42	< 10	< 1	0.44	< 10	1.13	120	38
573219H	299	229	0.4	2.09	2	190	< 0.5	4	0.78	< 0.5	13	69	1475	3.06	10	< 1	0.98	< 10	1.62	125	71
573220H	299	229	1.6	2.15	14	110	< 0.5	< 2	0.66	< 0.5	22	65	2540	3.68	10	< 1	1.06	10	1.69	150	14
573221H	299	229	0.2	2.95	6	160	< 0.5	< 2	1.20	< 0.5	17	69	1050	4.20	10	< 1	0.98	10	1.83	220	18
573222H	299	229	< 0.2	2.67	< 2	120	< 0.5	< 2	1.11	0.5	24	55	630	5.45	10	< 1	0.78	10	1.81	320	33
573223H	299	229	0.4	2.51	< 2	230	< 0.5	8	1.01	< 0.5	17	71	1390	4.12	10	< 1	1.07	10	2.01	285	14
573224H	299	229	0.4	2.88	8	360	< 0.5	2	1.16	0.5	23	218	762	3.58	< 10	< 1	1.26	< 10	2.52	345	28
573225H	299	229	2.4	0.51	480	10	< 0.5	24	1.69	2.0	22	73	1210	9.11	10	< 1	0.21	< 10	0.93	1320	28
573226H	299	229	5.6	0.32	602	10	< 0.5	18	1.62	6.5	16	51	1430	8.96	< 10	< 1	0.21	< 10	0.76	1490	65
573227H	299	229	5.6	0.39	582	30	< 0.5	< 2	1.79	4.5	14	60	2190	3.95	< 10	< 1	0.20	< 10	0.98	1925	26
573228H	299	229	2.8	1.16	476	10	< 0.5	8	1.64	2.5	14	81	1905	8.53	10	< 1	0.43	< 10	1.21	1025	95
573229H	299	229	1.4	1.69	10	130	< 0.5	< 2	1.57	< 0.5	17	153	1510	3.29	10	< 1	0.49	10	1.38	260	36
573230H	299	229	14.4	1.46	972	10	< 0.5	100	1.51	11.0	13	115	2960	8.50	10	< 1	0.39	< 10	1.02	600	37
573231H	299	229	6.0	0.78	388	10	< 0.5	52	0.50	4.5	20	188	931	12.55	< 10	< 1	0.46	< 10	0.24	525	41
573232H	299	229	14.0	0.21	1925	< 10	< 0.5	18	0.69	16.0	20	93	5440	12.30	< 10	< 1	0.20	< 10	0.30	1145	39
573233H	299	229	1.4	0.62	150	80	< 0.5	< 2	1.05	0.5	12	111	1780	2.18	< 10	< 1	0.27	10	0.55	340	34
573234H	299	229	1.2	2.04	2	230	< 0.5	< 2	1.33	< 0.5	14	214	2340	2.37	10	< 1	0.81	10	1.10	220	75
573235H	299	229	1.2	0.65	12	140	< 0.5	< 2	0.99	< 0.5	11	117	1615	1.98	10	< 1	0.34	40	0.48	185	65
573236H	299	229	1.2	0.93	24	130	< 0.5	< 2	1.43	< 0.5	10	98	1670	1.48	< 10	< 1	0.41	20	0.51	160	63
573237H	299	229	0.8	0.86	12	130	< 0.5	< 2	1.38	< 0.5	11	100	1430	1.94	< 10	< 1	0.43	20	0.68	150	115
573238H	299	229	1.0	1.08	< 2	120	< 0.5	< 2	1.95	< 0.5	10	144	1975	1.82	10	< 1	0.21	20	0.37	115	130
573239H	299	229	0.8	3.64	< 2	180	< 0.5	< 2	2.50	< 0.5	20	137	2740	3.37	10	< 1	0.81	20	1.78	170	34
573240H	299	229	0.6	1.86	< 2	180	< 0.5	< 2	1.49	< 0.5	10	270	1505	1.90	10	< 1	0.48	30	0.56	105	25
573241H	299	229	0.4	0.30	2	200	< 0.5	< 2	1.01	< 0.5	5	115	1030	0.97	< 10	< 1	0.14	10	0.18	65	68
573242H	299	229	0.8	1.12	6	140	< 0.5	< 2	1.12	< 0.5	5	366	874	1.36	< 10	< 1	0.55	10	0.24	65	258
573243H	299	229	1.2	0.33	20	40	< 0.5	< 2	0.60	0.5	7	178	1125	3.37	< 10	< 1	0.20	10	0.08	80	31
573244H	299	229	0.8	0.87	10	70	< 0.5	2	1.06	1.0	7	272	1045	2.32	< 10	< 1	0.40	10	0.10	80	64
573245H	299	229	0.6	0.40	< 2	190	< 0.5	< 2	1.75	< 0.5	3	170	1020	1.01	< 10	< 1	0.17	10	0.12	90	86
573246H	299	229	0.6	1.18	< 2	90	< 0.5	2	1.98	< 0.5	10	212	1190	2.03	10	< 1	0.43	20	0.23	175	39
573247H	299	229	0.6	1.04	< 2	90	< 0.5	< 2	2.11	< 0.5	10	131	1250	2.38	10	< 1	0.27	30	0.65	140	31

CERTIFICATION: Stuart Bradley

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573208H	299	229	0.05	1	1010	2	< 2	9	26	0.13	< 10	< 10	98	20	22
573209H	299	229	0.06	6	830	< 2	< 2	14	40	0.16	< 10	< 10	111	20	28
573210H	299	229	0.07	2	880	4	< 2	9	29	0.13	< 10	< 10	88	10	20
573211H	299	229	0.03	4	580	< 2	4	6	17	0.05	< 10	< 10	57	10	20
573212H	299	229	0.03	7	550	< 2	4	9	15	0.09	< 10	< 10	76	20	28
573213H	299	229	0.09	5	1060	< 2	< 2	13	36	0.16	< 10	< 10	128	20	20
573214H	299	229	0.03	3	640	6	< 2	9	18	0.09	< 10	< 10	74	10	18
573215H	299	229	0.03	3	880	16	4	6	17	0.05	< 10	< 10	61	20	46
573216H	299	229	0.01	6	550	16	2	2	12	< 0.01	< 10	< 10	22	10	48
573217H	299	229	0.05	5	650	8	2	7	22	0.06	< 10	< 10	64	20	50
573218H	299	229	0.11	6	720	< 2	< 2	7	31	0.07	< 10	< 10	63	10	30
573219H	299	229	0.08	3	1150	2	4	11	31	0.19	< 10	< 10	114	20	20
573220H	299	229	0.10	4	940	< 2	< 2	14	34	0.24	< 10	< 10	126	20	20
573221H	299	229	0.17	2	1090	8	< 2	14	79	0.20	< 10	< 10	148	30	24
573222H	299	229	0.12	4	1310	< 2	< 2	13	57	0.16	< 10	< 10	143	30	26
573223H	299	229	0.10	5	1030	< 2	4	17	43	0.18	< 10	< 10	161	40	28
573224H	299	229	0.12	31	530	< 2	4	16	44	0.18	< 10	< 10	113	20	102
573225H	299	229	0.01	28	450	52	4	10	22	< 0.01	< 10	< 10	38	40	76
573226H	299	229	0.01	6	950	164	20	5	20	< 0.01	< 10	< 10	25	40	222
573227H	299	229	0.01	3	570	76	94	4	25	< 0.01	< 10	< 10	27	20	176
573228H	299	229	0.04	11	830	68	34	10	26	0.04	< 10	< 10	63	60	128
573229H	299	229	0.07	15	520	6	< 2	9	39	0.06	< 10	< 10	66	20	34
573230H	299	229	0.07	15	570	164	188	9	33	0.05	< 10	< 10	59	50	356
573231H	299	229	< 0.01	21	440	142	74	3	10	< 0.01	< 10	< 10	17	40	136
573232H	299	229	< 0.01	18	400	136	594	3	9	< 0.01	< 10	< 10	9	60	692
573233H	299	229	0.01	7	360	8	4	2	21	< 0.01	< 10	< 10	18	10	26
573234H	299	229	0.08	14	590	14	2	11	30	0.07	< 10	< 10	77	20	28
573235H	299	229	0.02	13	230	10	2	3	20	0.01	< 10	< 10	27	10	26
573236H	299	229	0.02	8	350	4	2	6	20	0.02	< 10	< 10	37	10	20
573237H	299	229	0.02	10	470	10	2	6	22	0.04	< 10	< 10	41	10	18
573238H	299	229	0.02	13	300	14	2	2	33	< 0.01	< 10	< 10	19	10	14
573239H	299	229	0.18	31	1100	2	< 2	10	98	0.14	< 10	< 10	100	30	20
573240H	299	229	0.12	12	390	10	< 2	4	47	0.01	< 10	< 10	29	10	16
573241H	299	229	0.02	3	180	8	2	< 1	35	< 0.01	< 10	< 10	6	< 10	8
573242H	299	229	0.05	6	230	4	2	< 1	56	< 0.01	< 10	< 10	11	10	8
573243H	299	229	< 0.01	4	270	16	4	< 1	19	< 0.01	< 10	< 10	2	20	32
573244H	299	229	0.03	5	270	14	2	< 1	33	< 0.01	< 10	< 10	5	10	40
573245H	299	229	0.02	6	250	8	2	< 1	43	< 0.01	< 10	< 10	6	< 10	10
573246H	299	229	0.06	9	370	8	< 2	3	35	< 0.01	< 10	< 10	19	10	18
573247H	299	229	0.02	16	560	4	2	3	28	< 0.01	< 10	< 10	24	10	20

CERTIFICATION: Jan Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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573248H	299	229	0.4	1.38	6	130	0.5	6	1.26	< 0.5	14	132	1665	2.36	10	< 1	0.58	40	0.99	130	165
573249H	299	229	0.8	0.30	26	180	< 0.5	< 2	0.82	< 0.5	2	151	1120	0.75	< 10	1	0.17	20	0.04	70	390
573250H	299	229	0.8	0.27	30	130	0.5	< 2	1.34	< 0.5	6	89	1125	1.33	< 10	< 1	0.16	10	0.20	145	31
573251H	299	229	0.4	0.32	2	200	< 0.5	< 2	1.57	< 0.5	5	83	1160	0.95	< 10	< 1	0.14	20	0.16	95	87
573252H	299	229	0.4	0.29	< 2	190	< 0.5	< 2	1.43	< 0.5	2	153	966	0.74	< 10	< 1	0.16	30	0.06	60	501
573253H	299	229	0.4	0.23	< 2	210	< 0.5	< 2	1.02	< 0.5	3	108	967	0.72	< 10	1	0.15	20	0.03	40	129
573254H	299	229	0.4	0.25	2	210	< 0.5	< 2	1.19	< 0.5	3	126	909	0.66	< 10	< 1	0.16	20	0.03	40	91
573255H	299	229	0.2	0.27	2	200	< 0.5	< 2	1.19	< 0.5	4	120	701	1.01	< 10	< 1	0.17	20	0.03	65	107
573256H	299	229	0.4	0.29	2	180	< 0.5	< 2	1.07	< 0.5	2	124	525	1.17	< 10	< 1	0.18	20	0.03	100	33
573257H	299	229	1.6	0.31	< 2	100	< 0.5	< 2	0.63	< 0.5	2	153	696	2.13	< 10	< 1	0.20	10	0.03	95	362
573258H	299	229	1.8	0.36	18	60	0.5	12	0.78	< 0.5	7	132	654	3.06	< 10	< 1	0.21	10	0.04	190	181
573259H	299	229	0.6	0.34	< 2	100	< 0.5	< 2	0.98	< 0.5	3	128	1060	1.74	< 10	1	0.18	20	0.06	80	72
573260H	299	229	1.0	0.47	< 2	60	0.5	< 2	1.48	0.5	8	140	1025	2.86	< 10	< 1	0.24	20	0.22	95	53
573261H	299	229	1.0	0.82	4	170	< 0.5	< 2	1.63	< 0.5	6	145	1555	1.47	< 10	< 1	0.33	20	0.65	80	243
573262H	299	229	0.6	0.98	2	150	< 0.5	< 2	1.73	< 0.5	7	107	1470	1.47	< 10	< 1	0.34	10	0.77	70	89
573263H	299	229	0.6	0.81	< 2	170	< 0.5	< 2	1.27	< 0.5	6	78	1065	1.81	< 10	< 1	0.33	10	0.53	85	243
573264H	299	229	0.6	0.33	2	170	< 0.5	< 2	1.13	< 0.5	3	92	708	0.85	< 10	< 1	0.18	20	0.06	50	163
573265H	299	229	0.6	0.25	8	120	< 0.5	2	0.82	0.5	2	75	669	1.30	< 10	< 1	0.17	10	0.02	60	174
573266H	299	229	0.6	0.21	< 2	120	< 0.5	4	0.67	0.5	1	46	609	1.05	< 10	< 1	0.11	10	0.03	70	81
573267H	299	229	1.0	0.79	14	440	0.5	< 2	0.09	< 0.5	4	63	192	1.43	< 10	< 1	0.25	20	0.18	60	30
573268H	299	229	1.2	0.92	12	600	< 0.5	< 2	0.13	< 0.5	1	127	206	2.23	< 10	< 1	0.28	10	0.17	55	71
573269H	299	229	1.6	1.02	30	740	0.5	4	0.08	< 0.5	1	104	594	5.79	< 10	< 1	0.26	10	0.25	55	43
838A	299	229	12.8	0.44	1160	10	< 0.5	106	0.19	8.0	21	55	2720	10.80	< 10	< 1	0.25	< 10	0.03	15	74
839A	299	229	1.4	1.59	44	160	0.5	< 2	0.95	< 0.5	20	55	1985	3.16	< 10	1	0.36	10	1.06	130	26
840A	299	229	6.0	0.55	636	10	< 0.5	34	1.36	4.0	16	48	1625	8.92	10	< 1	0.27	< 10	0.76	1385	208
841A	299	229	0.8	0.66	4	110	0.5	< 2	2.47	< 0.5	12	88	1375	2.45	10	< 1	0.26	40	0.22	210	65
842A	299	229	0.6	0.31	6	140	< 0.5	< 2	0.68	< 0.5	2	108	678	1.08	< 10	1	0.15	20	0.05	75	90

CERTIFICATION: Ian R. Bickler

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573248H	299	229	0.03	19	250	< 2	2	6	27	0.04	< 10	< 10	37	10	18
573249H	299	229	0.03	1	80	16	4	< 1	28	< 0.01	< 10	< 10	3	< 10	26
573250H	299	229	0.02	< 1	310	12	< 2	< 1	42	< 0.01	< 10	< 10	4	< 10	12
573251H	299	229	0.03	1	330	6	2	1	42	< 0.01	< 10	< 10	7	< 10	10
573252H	299	229	0.02	2	180	8	4	< 1	38	< 0.01	< 10	< 10	3	< 10	14
573253H	299	229	0.03	< 1	150	8	< 2	< 1	46	< 0.01	< 10	< 10	1	< 10	4
573254H	299	229	0.03	< 1	100	10	< 2	< 1	60	< 0.01	< 10	< 10	1	< 10	6
573255H	299	229	0.03	1	130	8	4	< 1	83	< 0.01	< 10	< 10	1	< 10	14
573256H	299	229	0.03	< 1	140	14	< 2	< 1	46	< 0.01	< 10	< 10	1	< 10	18
573257H	299	229	0.01	< 1	110	12	2	< 1	21	< 0.01	< 10	< 10	2	< 10	14
573258H	299	229	0.01	2	130	26	4	< 1	23	< 0.01	< 10	< 10	2	< 10	18
573259H	299	229	0.01	1	160	8	< 2	< 1	29	< 0.01	< 10	< 10	3	< 10	6
573260H	299	229	0.03	2	380	18	4	1	40	< 0.01	< 10	< 10	10	< 10	32
573261H	299	229	0.04	6	330	< 2	4	5	67	0.01	< 10	< 10	34	< 10	14
573262H	299	229	0.04	6	350	6	2	5	88	0.01	< 10	< 10	38	< 10	12
573263H	299	229	0.02	5	270	6	2	3	47	0.02	< 10	< 10	32	< 10	14
573264H	299	229	0.02	< 1	110	< 2	2	< 1	43	< 0.01	< 10	< 10	2	< 10	10
573265H	299	229	0.01	1	70	16	4	< 1	30	< 0.01	< 10	< 10	1	< 10	34
573266H	299	229	0.01	1	70	8	2	< 1	28	< 0.01	< 10	< 10	< 1	< 10	14
573267H	299	229	0.02	3	240	38	2	1	19	< 0.01	< 10	< 10	17	< 10	34
573268H	299	229	0.02	4	330	28	4	1	24	0.01	< 10	< 10	17	< 10	18
573269H	299	229	0.01	3	430	14	2	2	21	0.02	< 10	< 10	24	< 10	22
838A	299	229	< 0.01	4	820	292	86	2	8	< 0.01	< 10	< 10	8	< 10	296
839A	299	229	0.03	2	670	2	12	5	20	0.03	< 10	< 10	52	< 10	42
840A	299	229	0.01	6	920	144	42	6	17	< 0.01	< 10	< 10	34	20	156
841A	299	229	0.02	9	380	6	< 2	2	34	< 0.01	< 10	< 10	15	< 10	22
842A	299	229	0.02	< 1	70	8	2	< 1	33	< 0.01	< 10	< 10	1	< 10	18

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 168
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 21-JUL-93
Invoice No. : I9317165
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Account : FC

CERTIFICATE OF ANALYSIS A9317165

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
568956 H	208	274	< 0.01	0.006	0.10	3920						
568957 H	208	276	< 0.01	0.012	0.14	8080						
568958 H	208	274	< 0.01	0.007	0.10	4200						
568959 H	208	274	< 0.01	0.001	0.07	5720						
568960 H	208	276	< 0.01	0.002	0.14	11140						
568961 H	208	274	< 0.01	0.002	0.07	3220						
568962 H	208	274	< 0.01	0.003	0.07	6180						
568963 H	208	276	< 0.01	0.001	0.14	11200						
568964 H	208	276	< 0.01	0.001	0.17	8740						
568965 H	208	276	< 0.01	0.002	0.21	10760						
568966 H	208	276	< 0.01	0.005	0.34	10540						
568967 H	208	273	< 0.01	0.002	0.31	12040						
568968 H	208	274	< 0.01	0.001	0.38	6680						
568969 H	208	274	< 0.01	0.002	0.17	5720						
568970 H	208	274	< 0.01	0.001	0.31	6920						
568971 H	208	276	< 0.01	0.002	0.27	8100						
568972 H	208	274	< 0.01	0.002	0.21	5840						
568973 H	208	276	< 0.01	0.001	0.17	11600						
568974 H	208	274	< 0.01	0.002	0.21	4200						
568975 H	208	273	< 0.01	0.002	0.65	11840						
568976 H	208	276	< 0.01	0.002	0.07	9580						
568977 H	208	276	< 0.01	0.002	0.07	8660						
568978 H	208	276	< 0.01	0.001	< 0.03	11420						
568979 H	208	276	< 0.01	0.001	0.17	8420						
568980 H	208	273	< 0.01	0.001	< 0.03	12540						
568981 H	208	273	< 0.01	0.002	0.07	12120						
568982 H	208	273	< 0.01	0.001	< 0.03	12620						
568983 H	208	276	< 0.01	0.001	0.07	8720						
568984 H	208	273	< 0.01	< 0.001	0.03	12260						
568985 H	208	276	< 0.01	< 0.001	< 0.03	11520						
568986 H	208	276	< 0.01	< 0.001	0.07	10120						
568987 H	208	274	< 0.01	< 0.001	0.07	5220						
568988 H	208	274	< 0.01	< 0.001	< 0.03	5300						
568989 H	208	276	< 0.01	< 0.001	0.03	11460						
568990 H	208	274	< 0.01	0.001	< 0.03	7220						
568991 H	208	276	< 0.01	< 0.001	< 0.03	9640						
568992 H	208	276	0.02	0.001	< 0.03	10820						
568993 H	208	276	0.01	0.001	0.03	8980						
568994 H	208	276	0.01	0.001	0.07	8360						
568995 H	208	274	0.01	0.001	0.07	5440						

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Account :FC

CERTIFICATE OF ANALYSIS A9317165

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
568996 H	208	273	0.01	0.002	0.03	12420						
568997 H	208	270	0.01	0.002	0.10	17040						
568998 H	208	276	0.01	0.003	0.14	9380						
568999 H	208	276	0.02	0.002	0.10	10140						
569000 H	208	276	0.01	0.002	< 0.03	11200						
569001 H	208	276	0.03	0.005	0.07	11480						
569002 H	208	273	0.24	0.003	0.21	12520						
569003 H	208	273	0.11	0.003	0.07	14200						
569004 H	208	273	0.20	0.004	0.10	12880						
569005 H	208	273	0.57	0.003	0.07	11960						
569006 H	208	273	0.13	0.003	0.10	12965						
569007 H	208	273	0.08	0.003	0.07	14120						
569008 H	208	273	0.13	0.006	0.17	14220						
569009 H	208	273	0.11	0.005	0.10	12540						
569010 H	208	273	0.19	0.008	0.21	14500						
569011 H	208	273	0.16	0.009	0.07	14160						
569012 H	208	276	0.26	0.010	0.21	11600						
569013 H	208	273	0.18	0.006	0.10	11980						
569014 H	208	273	0.17	0.010	0.14	14680						
569015 H	208	273	0.20	0.013	0.14	12500						
569016 H	208	273	0.19	0.014	0.21	12880						
569017 H	208	273	0.13	0.008	0.10	12220						
569018 H	208	273	0.15	0.017	0.17	13120						
569019 H	208	273	0.17	0.007	0.17	13220						
569020 H	208	273	0.20	0.010	0.21	11980						
569021 H	208	273	0.28	0.022	0.24	12400						
569022 H	208	273	0.25	0.013	0.38	12140						
569023 H	208	273	0.20	0.013	0.31	13480						
569024 H	208	273	0.23	0.006	0.14	12500						
569025 H	208	273	0.18	0.010	0.10	13100						
569026 H	208	273	0.19	0.012	0.17	12200						
569027 H	208	273	0.20	0.008	0.17	12280						
569028 H	208	273	0.40	0.008	0.51	12080						
569029 H	208	273	0.12	0.006	0.10	12720						
569030 H	208	273	0.16	0.007	0.14	12060						
569031 H	208	273	0.16	0.010	0.17	12880						
569032 H	208	276	0.11	0.011	0.14	11740						
569033 H	208	273	0.09	0.008	0.10	13160						
569034 H	208	273	0.10	0.006	0.10	11920						
569035 H	208	273	0.09	0.009	0.07	11960						

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Project : CASINO 168
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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569036 H	208 276	0.07	0.004	0.03	11520
569037 H	208 273	0.13	0.006	0.10	13440
569038 H	208 273	0.09	0.008	0.10	11840
569039 H	208 273	0.09	0.008	0.14	12640
569040 H	208 273	0.08	0.008	0.07	11920
569041 H	208 273	0.11	0.008	< 0.03	12640
569042 H	208 273	0.10	0.009	0.03	14240
569043 H	208 273	0.09	0.002	0.07	12320
569044 H	208 273	0.11	0.006	0.14	12200
569045 H	208 273	0.09	0.006	0.10	12740
569046 H	208 273	0.10	0.007	0.14	12740
569047 H	208 276	0.06	0.004	0.07	11680
569048 H	208 273	0.10	0.002	0.07	13120
569049 H	208 273	0.08	0.002	0.07	12720
569050 H	208 273	0.10	0.003	0.14	12680
569051 H	208 273	0.13	0.005	0.21	12120
569052 H	208 276	0.10	0.004	0.14	11000
569053 H	208 273	0.09	0.005	0.24	12520
569054 H	208 273	0.11	0.006	0.10	12360
569055 H	208 276	0.11	0.005	0.10	10860
569056 H	208 273	0.18	0.006	0.24	13380
569057 H	208 273	0.20	0.015	0.31	13240
569058 H	208 273	0.30	0.018	0.38	12480
569059 H	208 273	0.15	0.007	0.21	14160
569060 H	208 273	0.13	0.007	0.55	13540
569061 H	208 273	0.11	0.011	0.14	14340
569062 H	208 273	0.13	0.013	0.27	13500
569063 H	208 273	0.09	0.007	0.14	14160
569064 H	208 273	0.17	0.007	0.21	14840
569065 H	208 273	0.15	0.002	0.17	12340
569066 H	208 273	0.10	0.002	0.17	13700
569067 H	208 273	0.10	0.004	0.14	14000
569068 H	208 273	0.16	0.004	0.27	12940
569069 H	208 273	0.08	0.002	0.14	13180
569070 H	208 273	0.09	0.001	0.17	12520
569071 H	208 273	0.03	0.001	< 0.03	13380
569072 H	208 273	0.03	0.001	0.14	13060
569073 H	208 273	0.04	0.002	0.10	13840
569074 H	208 273	0.03	< 0.001	< 0.03	12600
569075 H	208 273	0.01	0.004	< 0.03	13640

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Project : CASINO 168
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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569076 H	208	273	0.02	0.002	0.03	13900						
569077 H	208	270	0.02	0.003	0.07	19580						
569078 H	208	273	0.16	0.002	0.07	13660						
569079 H	208	273	0.01	0.003	0.07	13560						
569080 H	208	273	0.01	0.004	0.03	15480						
569081 H	208	273	0.01	0.002	0.07	14380						
569082 H	208	273	0.01	0.002	< 0.03	12740						
569083 H	208	273	0.01	0.002	< 0.03	12960						
569084 H	208	273	0.01	0.001	0.10	13060						
569085 H	208	273	0.02	0.001	< 0.03	13580						
569086 H	208	273	0.03	0.001	< 0.03	13360						
569087 H	208	273	0.05	0.002	0.03	12420						
569088 H	208	273	0.04	0.005	0.07	13260						
569089 H	208	273	0.05	0.003	< 0.03	14420						
569090 H	208	273	0.02	0.001	0.21	15320						
569091 H	208	273	0.04	0.001	< 0.03	15040						
569092 H	208	273	0.02	0.001	< 0.03	14740						
569093 H	208	273	0.09	< 0.001	0.27	14360						
569094 H	208	273	0.02	< 0.001	< 0.03	13780						
569095 H	208	273	0.02	0.001	< 0.03	13420						
569096 H	208	273	0.02	< 0.001	< 0.03	14720						
569097 H	208	273	0.03	0.001	< 0.03	14720						
569098 H	208	273	0.02	0.001	< 0.03	13480						
569099 H	208	273	0.01	0.001	< 0.03	13360						
569100 H	208	273	0.01	< 0.001	< 0.03	14820						
569101 H	208	273	0.07	0.001	0.10	15100						
569102 H	208	273	0.08	< 0.001	0.07	14060						
569103 H	208	273	0.04	0.001	< 0.03	14380						
569104 H	208	273	0.01	0.002	< 0.03	14480						
569105 H	208	273	0.03	0.002	0.03	15220						
569106 H	208	273	0.01	0.002	< 0.03	13940						
569107 H	208	273	0.03	0.001	< 0.03	15280						
569108 H	208	273	0.02	0.001	< 0.03	14920						
569109 H	208	273	0.02	0.003	< 0.03	14980						
569110 H	208	273	0.04	0.003	< 0.03	14040						
569111 H	208	273	0.02	0.001	< 0.03	15460						
569112 H	208	273	0.02	0.001	< 0.03	14560						
569113 H	208	273	0.02	0.001	0.07	14680						
569114 H	208	273	0.04	< 0.001	< 0.03	13840						
569115 H	208	273	0.02	0.002	< 0.03	13960						

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Project : CASINO 168
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CERTIFICATE OF ANALYSIS A9317165

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569116 H	208 273	0.03	< 0.001	< 0.03	14300
569117 H	208 273	0.03	0.001	< 0.03	13260
569118 H	208 273	0.02	0.001	< 0.03	13120
569119 H	208 273	0.01	0.002	< 0.03	13160
569120 H	208 273	0.03	0.001	0.14	14340
569121 H	208 273	0.03	< 0.001	0.07	14020
569122 H	208 273	0.04	0.001	0.07	12880
569123 H	208 273	0.02	0.001	< 0.03	13880
569124 H	208 276	0.01	0.001	< 0.03	10880
569125 H	208 273	0.01	0.005	< 0.03	13060
569126 H	208 273	0.08	0.002	0.07	13860
569127 H	208 273	0.01	0.001	< 0.03	13200
569128 H	208 273	0.05	0.001	< 0.03	13000
569129 H	208 273	< 0.01	0.002	< 0.03	13200
569130 H	208 273	0.01	0.003	< 0.03	12450
569131 H	208 273	0.02	0.011	< 0.03	12980
569132 H	208 273	0.02	< 0.001	< 0.03	14580
569133 H	208 273	0.01	0.001	< 0.03	12880
569134 H	208 273	0.01	0.003	0.07	15100
569135 H	208 273	0.07	0.003	0.17	13620
569136 H	208 273	0.01	0.005	< 0.03	13180
569137 H	208 273	0.02	0.002	0.03	13620
569138 H	208 273	0.01	0.004	0.07	14180
569139 H	208 273	0.01	0.004	< 0.03	13380
569140 H	208 273	0.02	0.003	< 0.03	13480
569141 H	208 273	0.02	0.001	< 0.03	14420
569142 H	208 273	0.03	0.007	0.10	14100
569143 H	208 273	0.03	0.002	0.07	14300
569144 H	208 273	0.01	0.001	0.07	13760
569145 H	208 273	0.02	0.001	< 0.03	13940
813 A	208 274	< 0.01	0.001	0.17	3620
814 A	-- --	miss.	miss.	miss.	miss.
815 A	208 274	0.02	0.003	0.10	6620
816 A	208 274	0.16	0.006	0.27	6440
817 A	208 274	0.11	0.010	0.10	6200
818 A	208 274	0.14	0.005	0.38	6100
819 A	208 274	0.02	0.002	0.03	7040
820 A	208 274	0.01	0.001	< 0.03	6170
821 A	208 274	0.01	0.002	< 0.03	6700
822 A	208 274	0.01	0.004	< 0.03	6700

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Invoice No. : I9317166
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
568956 H	299	229	0.4	0.72	40	270	< 0.5	< 2	0.02	< 0.5	< 1	136	17	2.96	< 10	< 1	0.98	10	0.03	10	37
568957 H	299	229	1.0	0.73	50	430	< 0.5	2	0.01	< 0.5	1	137	17	1.91	< 10	< 1	0.78	10	0.02	5	77
568958 H	299	229	1.2	0.72	20	220	< 0.5	4	0.03	< 0.5	< 1	139	22	1.05	< 10	< 1	0.58	20	0.01	15	46
568959 H	299	229	< 0.2	0.84	< 2	230	< 0.5	< 2	0.01	< 0.5	1	114	18	0.62	< 10	< 1	0.50	20	0.01	10	6
568960 H	299	229	0.8	0.84	8	520	< 0.5	< 2	0.03	< 0.5	1	131	16	0.78	< 10	< 1	0.50	10	0.02	15	8
568961 H	299	229	0.8	0.81	12	370	< 0.5	< 2	0.01	< 0.5	1	128	9	0.75	< 10	< 1	0.53	10	0.03	5	11
568962 H	299	229	2.6	0.85	14	270	< 0.5	2	0.01	< 0.5	1	129	11	0.80	< 10	< 1	0.58	20	0.04	10	16
568963 H	299	229	0.2	0.89	2	1190	< 0.5	< 2	0.01	< 0.5	< 1	122	13	0.38	< 10	< 1	0.54	20	0.04	10	7
568964 H	299	229	0.4	0.81	4	880	< 0.5	< 2	0.01	< 0.5	< 1	95	12	0.53	< 10	< 1	0.49	20	0.04	5	8
568965 H	299	229	2.0	0.77	10	570	< 0.5	4	0.01	< 0.5	1	108	17	1.52	< 10	< 1	0.53	20	0.04	5	13
568966 H	299	229	3.0	0.78	24	560	< 0.5	2	0.01	< 0.5	1	94	18	1.61	< 10	< 1	0.68	20	0.04	5	26
568967 H	299	229	2.0	0.69	18	600	< 0.5	< 2	0.01	< 0.5	< 1	111	13	1.61	< 10	< 1	0.63	30	0.03	10	11
568968 H	299	229	2.2	0.75	18	590	< 0.5	< 2	0.02	< 0.5	2	114	12	1.58	< 10	< 1	0.58	20	0.03	5	4
568969 H	299	229	1.6	0.77	32	450	< 0.5	< 2	0.02	< 0.5	1	118	18	2.01	< 10	< 1	0.47	30	0.03	5	11
568970 H	299	229	2.6	0.68	24	690	< 0.5	< 2	0.02	< 0.5	1	173	16	1.79	< 10	< 1	0.51	20	0.03	10	8
568971 H	299	229	2.6	0.67	20	520	< 0.5	< 2	0.01	< 0.5	< 1	137	14	1.39	< 10	< 1	0.51	20	0.03	10	12
568972 H	299	229	4.0	0.88	4	480	< 0.5	2	0.01	< 0.5	< 1	138	15	0.96	< 10	< 1	0.61	20	0.04	10	11
568973 H	299	229	0.8	0.93	2	310	< 0.5	< 2	0.01	< 0.5	< 1	129	28	1.17	< 10	< 1	0.58	10	0.04	10	4
568974 H	299	229	0.8	0.64	8	240	< 0.5	< 2	0.01	< 0.5	2	94	30	1.44	< 10	< 1	0.50	10	0.03	10	6
568975 H	299	229	0.8	0.69	30	240	< 0.5	2	0.01	< 0.5	< 1	102	22	2.28	< 10	< 1	0.73	30	0.03	10	8
568976 H	299	229	1.2	0.80	118	260	< 0.5	2	0.02	< 0.5	1	147	22	1.73	< 10	< 1	0.76	20	0.04	20	7
568977 H	299	229	1.0	0.77	68	370	< 0.5	< 2	0.01	< 0.5	1	179	24	1.57	< 10	< 1	0.67	30	0.04	15	9
568978 H	299	229	0.2	0.75	14	350	< 0.5	2	0.01	< 0.5	1	127	15	1.49	< 10	< 1	0.68	10	0.04	10	3
568979 H	299	229	0.4	0.74	10	330	< 0.5	2	0.01	< 0.5	1	147	13	1.32	< 10	< 1	0.64	10	0.04	10	6
568980 H	299	229	< 0.2	0.81	22	150	< 0.5	< 2	0.02	< 0.5	2	111	19	3.44	< 10	< 1	1.14	10	0.04	10	3
568981 H	299	229	0.4	0.73	32	100	< 0.5	6	0.02	< 0.5	8	88	21	5.60	< 10	< 1	1.44	10	0.03	10	7
568982 H	299	229	< 0.2	0.59	48	130	< 0.5	< 2	0.01	< 0.5	2	96	13	4.96	< 10	< 1	1.33	10	0.03	5	3
568983 H	299	229	0.6	0.80	12	220	< 0.5	< 2	0.01	< 0.5	1	124	24	3.53	< 10	< 1	0.93	20	0.05	10	3
568984 H	299	229	0.2	0.86	16	250	< 0.5	< 2	0.01	< 0.5	< 1	109	16	3.07	< 10	< 1	0.87	20	0.05	5	2
568985 H	299	229	0.4	0.99	16	310	< 0.5	2	0.01	< 0.5	< 1	122	26	2.79	10	< 1	0.81	30	0.06	5	2
568986 H	299	229	< 0.2	0.64	8	340	< 0.5	< 2	0.01	< 0.5	< 1	134	28	2.21	< 10	< 1	0.58	20	0.03	10	1
568987 H	299	229	0.6	0.56	12	270	< 0.5	2	0.01	< 0.5	1	89	16	1.39	< 10	< 1	0.55	20	0.03	10	2
568988 H	299	229	0.2	0.46	4	250	< 0.5	6	0.01	< 0.5	1	88	15	1.23	< 10	< 1	0.47	10	0.02	10	1
568989 H	299	229	0.2	0.52	6	260	< 0.5	2	0.01	< 0.5	1	110	15	1.97	< 10	< 1	0.60	10	0.03	10	3
568990 H	299	229	1.6	0.62	18	330	< 0.5	14	0.01	< 0.5	< 1	143	19	1.44	< 10	< 1	0.52	30	0.04	15	2
568991 H	299	229	0.6	0.65	14	380	< 0.5	16	0.01	< 0.5	1	122	18	1.33	< 10	< 1	0.50	20	0.03	10	4
568992 H	299	229	1.6	0.54	34	240	< 0.5	< 2	0.02	< 0.5	< 1	64	192	3.09	10	< 1	0.61	30	0.02	10	5
568993 H	299	229	2.8	1.03	18	240	< 0.5	2	0.03	< 0.5	2	166	107	3.87	20	< 1	0.95	30	0.06	20	6
568994 H	299	229	1.4	0.72	4	380	< 0.5	< 2	0.02	< 0.5	1	139	77	3.43	10	< 1	0.65	20	0.04	40	9
568995 H	299	229	2.6	0.95	20	330	< 0.5	4	0.03	< 0.5	2	126	77	2.69	10	< 1	0.77	20	0.06	15	5

CERTIFICATION: John D'Mar

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 168
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUL-93
Invoice No. :I9317166
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
568956 H	299	229	0.01	1	130	46	2	1	6	< 0.01	< 10	< 10	13	10	< 2
568957 H	299	229	0.01	1	270	222	2	1	9	< 0.01	< 10	< 10	10	20	6
568958 H	299	229	0.02	< 1	170	202	4	1	10	< 0.01	< 10	< 10	8	10	2
568959 H	299	229	0.01	< 1	70	12	2	1	8	< 0.01	< 10	< 10	9	< 10	< 2
568960 H	299	229	0.01	< 1	40	28	4	1	11	< 0.01	< 10	< 10	10	< 10	2
568961 H	299	229	0.01	< 1	50	22	6	1	8	< 0.01	< 10	< 10	10	< 10	2
568962 H	299	229	0.01	< 1	80	42	< 2	1	8	< 0.01	< 10	< 10	11	< 10	2
568963 H	299	229	0.01	1	40	20	< 2	1	13	< 0.01	< 10	< 10	11	< 10	2
568964 H	299	229	0.01	< 1	90	28	< 2	1	11	< 0.01	< 10	< 10	10	< 10	< 2
568965 H	299	229	0.01	< 1	110	30	2	1	8	< 0.01	< 10	< 10	11	< 10	2
568966 H	299	229	0.01	1	130	22	2	1	8	< 0.01	< 10	< 10	11	70	< 2
568967 H	299	229	0.01	< 1	110	34	< 2	1	9	< 0.01	< 10	< 10	12	50	< 2
568968 H	299	229	0.01	1	80	12	2	1	9	< 0.01	< 10	< 10	12	40	< 2
568969 H	299	229	0.01	< 1	110	8	< 2	1	8	< 0.01	< 10	< 10	14	10	< 2
568970 H	299	229	0.01	1	150	8	< 2	1	8	< 0.01	< 10	< 10	12	20	2
568971 H	299	229	0.01	< 1	120	14	2	1	8	< 0.01	< 10	< 10	10	10	2
568972 H	299	229	0.01	< 1	80	32	2	1	7	< 0.01	< 10	< 10	11	< 10	2
568973 H	299	229	0.01	< 1	60	20	< 2	1	6	< 0.01	< 10	< 10	11	< 10	4
568974 H	299	229	0.01	< 1	110	20	< 2	1	6	< 0.01	< 10	< 10	9	< 10	2
568975 H	299	229	0.01	< 1	210	32	< 2	1	8	< 0.01	< 10	< 10	13	< 10	2
568976 H	299	229	0.01	1	270	48	2	1	10	< 0.01	< 10	< 10	10	< 10	6
568977 H	299	229	0.01	1	200	54	< 2	1	11	< 0.01	< 10	< 10	10	< 10	8
568978 H	299	229	0.01	< 1	90	18	< 2	1	8	< 0.01	< 10	< 10	9	< 10	2
568979 H	299	229	0.01	1	110	18	2	1	9	< 0.01	< 10	< 10	9	10	2
568980 H	299	229	0.02	< 1	100	18	< 2	1	7	< 0.01	< 10	< 10	13	10	2
568981 H	299	229	0.02	< 1	80	44	4	2	7	0.01	< 10	< 10	22	10	< 2
568982 H	299	229	0.02	< 1	100	36	< 2	1	8	0.01	< 10	< 10	13	< 10	< 2
568983 H	299	229	0.02	< 1	200	28	< 2	2	13	< 0.01	< 10	< 10	11	< 10	4
568984 H	299	229	0.02	< 1	410	18	2	2	12	< 0.01	< 10	< 10	13	< 10	< 2
568985 H	299	229	0.01	< 1	330	16	< 2	2	16	< 0.01	< 10	< 10	12	< 10	2
568986 H	299	229	0.01	< 1	220	16	< 2	1	13	< 0.01	< 10	< 10	9	< 10	2
568987 H	299	229	0.01	< 1	190	52	< 2	1	13	< 0.01	< 10	< 10	6	< 10	2
568988 H	299	229	0.01	< 1	130	38	4	1	14	< 0.01	< 10	< 10	5	< 10	2
568989 H	299	229	0.01	< 1	180	68	< 2	1	14	< 0.01	< 10	< 10	7	< 10	2
568990 H	299	229	0.01	< 1	330	154	< 2	3	19	< 0.01	< 10	< 10	7	< 10	4
568991 H	299	229	0.01	< 1	310	100	< 2	3	14	< 0.01	< 10	< 10	8	< 10	2
568992 H	299	229	0.01	1	1050	208	< 2	10	59	< 0.01	< 10	< 10	12	< 10	6
568993 H	299	229	0.02	< 1	1150	134	< 2	11	86	< 0.01	< 10	< 10	16	< 10	2
568994 H	299	229	0.02	< 1	370	44	< 2	2	34	< 0.01	< 10	< 10	14	< 10	6
568995 H	299	229	0.01	< 1	700	62	2	3	88	< 0.01	< 10	< 10	13	< 10	4

CERTIFICATION: Thai D Ma

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Y1A 3S9

Project : CASINO 168
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page r :2-A
Total Pa :5
Certificate Date: 22-JUL-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
568996 H	299	229	0.8	1.22	36	280	< 0.5	4	0.02	0.5	2	127	65	2.75	10	< 1	0.86	20	0.06	10	7
568997 H	299	229	0.6	0.94	12	370	< 0.5	4	0.02	< 0.5	1	105	69	2.39	< 10	< 1	0.69	20	0.06	10	7
568998 H	299	229	9.8	1.04	24	420	< 0.5	6	0.02	< 0.5	2	125	107	1.81	10	< 1	0.68	30	0.06	20	17
568999 H	299	229	2.8	1.02	20	380	< 0.5	2	0.02	< 0.5	4	108	161	1.85	< 10	< 1	0.67	30	0.07	25	14
569000 H	299	229	1.2	1.06	24	190	< 0.5	6	0.02	< 0.5	8	103	160	3.85	< 10	< 1	0.98	10	0.07	25	9
569001 H	299	229	0.4	1.20	14	180	< 0.5	< 2	0.02	< 0.5	18	133	305	3.43	< 10	< 1	0.67	10	0.09	40	32
569002 H	299	229	0.6	2.32	12	100	< 0.5	6	0.23	1.0	49	102	2500	3.67	< 10	< 1	0.52	20	0.32	165	13
569003 H	299	229	< 0.2	1.65	2	130	< 0.5	2	0.51	0.5	53	110	1090	4.32	< 10	< 1	0.52	10	0.73	540	15
569004 H	299	229	0.8	1.52	8	120	< 0.5	8	0.40	2.0	58	113	1975	3.54	< 10	< 1	0.47	10	0.35	435	21
569005 H	299	229	0.4	2.50	12	100	< 0.5	12	0.10	0.5	31	114	6140	2.89	< 10	< 1	0.54	10	0.11	40	17
569006 H	299	229	0.4	1.51	4	140	< 0.5	< 2	0.63	1.5	49	126	1380	3.53	< 10	< 1	0.56	10	0.45	410	19
569007 H	299	229	0.4	1.45	2	160	< 0.5	< 2	1.08	< 0.5	32	159	846	3.70	< 10	< 1	0.54	10	0.80	260	13
569008 H	299	229	3.2	0.90	22	90	< 0.5	< 2	0.65	6.5	53	64	1430	4.84	< 10	< 1	0.41	10	0.45	720	35
569009 H	299	229	1.4	0.78	12	110	< 0.5	4	0.87	9.0	37	54	1035	3.22	< 10	< 1	0.30	10	0.47	475	31
569010 H	299	229	2.0	1.15	12	20	< 0.5	8	0.41	0.5	48	117	1850	5.73	< 10	< 1	0.61	< 10	0.28	395	44
569011 H	299	229	3.0	1.69	36	30	< 0.5	6	0.33	< 0.5	107	137	1620	4.88	< 10	< 1	0.63	10	0.12	185	55
569012 H	299	229	1.4	1.97	48	50	< 0.5	< 2	0.11	1.0	35	117	2750	3.29	< 10	< 1	0.47	10	0.10	115	64
569013 H	299	229	0.8	1.67	38	110	< 0.5	2	0.13	< 0.5	33	135	1855	3.31	< 10	< 1	0.51	20	0.18	350	40
569014 H	299	229	1.0	1.30	24	70	< 0.5	8	0.15	< 0.5	45	124	1935	4.31	< 10	< 1	0.54	20	0.18	320	68
569015 H	299	229	1.0	1.41	20	80	< 0.5	4	0.13	< 0.5	69	124	2120	4.23	< 10	< 1	0.52	10	0.13	185	79
569016 H	299	229	1.2	1.39	28	60	< 0.5	6	0.14	0.5	31	124	2030	3.57	< 10	< 1	0.59	10	0.18	255	87
569017 H	299	229	0.8	1.29	10	100	< 0.5	2	0.13	< 0.5	39	118	1250	3.65	< 10	< 1	0.45	10	0.20	520	42
569018 H	299	229	0.4	1.26	10	60	< 0.5	6	0.15	< 0.5	40	92	1405	4.00	< 10	< 1	0.60	10	0.30	315	98
569019 H	299	229	0.6	1.30	22	130	< 0.5	8	0.17	< 0.5	35	91	1715	4.40	< 10	< 1	0.55	10	0.31	390	37
569020 H	299	229	0.8	1.13	8	140	< 0.5	4	0.17	< 0.5	43	107	1990	4.77	< 10	< 1	0.47	10	0.28	410	63
569021 H	299	229	1.2	1.11	16	110	< 0.5	12	0.20	< 0.5	72	96	2750	4.95	< 10	< 1	0.50	10	0.21	360	135
569022 H	299	229	1.8	1.16	14	60	< 0.5	14	0.15	< 0.5	52	86	2480	7.57	< 10	< 1	0.48	10	0.27	645	81
569023 H	299	229	3.2	1.40	46	80	< 0.5	6	0.17	7.5	50	104	2060	5.85	< 10	< 1	0.62	10	0.21	920	75
569024 H	299	229	5.0	1.90	16	50	< 0.5	16	0.15	15.5	118	113	2470	3.86	< 10	< 1	0.68	10	0.13	100	36
569025 H	299	229	1.2	1.14	22	70	< 0.5	6	0.16	< 0.5	36	94	1855	4.62	< 10	< 1	0.42	10	0.17	520	63
569026 H	299	229	1.4	1.20	16	70	< 0.5	4	0.16	0.5	53	102	1975	3.47	< 10	< 1	0.47	10	0.14	205	71
569027 H	299	229	1.0	1.23	18	40	< 0.5	6	0.15	< 0.5	94	92	1975	4.14	< 10	< 1	0.47	10	0.14	505	45
569028 H	299	229	19.6	1.46	86	10	< 0.5	56	0.17	1.0	90	90	4090	5.60	< 10	< 1	0.56	< 10	0.13	335	51
569029 H	299	229	0.4	1.44	22	50	< 0.5	< 2	0.15	< 0.5	47	104	1230	4.49	< 10	< 1	0.59	10	0.19	480	35
569030 H	299	229	0.6	0.72	26	90	< 0.5	12	0.20	< 0.5	42	100	1750	6.28	< 10	< 1	0.33	10	0.32	680	40
569031 H	299	229	1.4	0.70	22	40	< 0.5	8	0.22	< 0.5	35	113	1675	4.54	< 10	< 1	0.32	10	0.29	365	57
569032 H	299	229	0.4	0.87	2	180	< 0.5	4	0.91	< 0.5	19	64	1060	2.96	< 10	< 1	0.26	10	0.60	205	65
569033 H	299	229	0.2	1.21	2	170	< 0.5	2	0.54	< 0.5	18	120	840	3.38	< 10	< 1	0.33	10	0.80	170	46
569034 H	299	229	0.8	1.36	2	160	< 0.5	2	0.18	< 0.5	22	94	949	3.43	< 10	< 1	0.31	10	0.71	150	36
569035 H	299	229	0.2	1.15	2	130	< 0.5	6	0.38	< 0.5	23	111	849	3.63	< 10	< 1	0.27	10	0.76	225	52

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Page : 2-B
Total P : 5
Certificate Date: 22-JUL-93
Invoice No. : 19317166
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Account : FC

CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
568996 H	299	229	0.02	< 1	770	54	2	3	63	< 0.01	< 10	< 10	16	< 10	2
568997 H	299	229	0.01	< 1	460	64	4	2	77	< 0.01	< 10	< 10	13	< 10	2
568998 H	299	229	0.02	1	890	3150	2	2	52	< 0.01	< 10	< 10	15	< 10	16
568999 H	299	229	0.02	< 1	490	370	2	2	68	< 0.01	< 10	< 10	12	< 10	18
569000 H	299	229	0.02	< 1	650	144	< 2	3	31	< 0.01	< 10	< 10	16	< 10	24
569001 H	299	229	0.02	1	480	58	2	2	14	< 0.01	< 10	< 10	18	< 10	52
569002 H	299	229	0.01	6	860	20	4	4	11	< 0.01	< 10	< 10	35	10	104
569003 H	299	229	0.03	3	540	24	2	3	20	< 0.01	< 10	< 10	34	10	128
569004 H	299	229	0.01	3	540	44	2	2	10	< 0.01	< 10	< 10	22	10	166
569005 H	299	229	0.01	4	820	18	< 2	4	9	< 0.01	< 10	< 10	21	< 10	44
569006 H	299	229	0.01	3	560	12	< 2	3	13	< 0.01	< 10	< 10	26	< 10	112
569007 H	299	229	0.02	3	540	20	< 2	3	20	< 0.01	< 10	< 10	29	10	74
569008 H	299	229	0.01	2	440	182	22	2	13	< 0.01	< 10	< 10	20	10	388
569009 H	299	229	0.01	1	550	40	8	1	11	< 0.01	< 10	< 10	12	10	600
569010 H	299	229	0.02	4	480	24	12	1	11	< 0.01	< 10	< 10	18	10	68
569011 H	299	229	0.01	9	1680	58	24	2	39	< 0.01	< 10	< 10	21	10	98
569012 H	299	229	0.01	6	700	48	24	3	35	< 0.01	< 10	10	31	< 10	82
569013 H	299	229	0.01	4	580	44	6	2	17	< 0.01	< 10	< 10	24	< 10	68
569014 H	299	229	0.01	4	520	16	6	2	16	< 0.01	< 10	< 10	23	< 10	58
569015 H	299	229	0.02	3	620	14	6	2	20	< 0.01	< 10	< 10	24	< 10	42
569016 H	299	229	0.02	2	500	46	2	2	20	< 0.01	< 10	< 10	22	< 10	70
569017 H	299	229	0.01	2	430	42	< 2	2	9	< 0.01	< 10	< 10	22	< 10	76
569018 H	299	229	0.02	4	530	14	2	4	18	0.01	< 10	< 10	31	< 10	48
569019 H	299	229	0.01	1	440	20	2	3	8	0.01	< 10	< 10	28	10	64
569020 H	299	229	0.01	1	400	16	4	2	13	< 0.01	< 10	< 10	25	< 10	68
569021 H	299	229	0.01	4	710	16	6	2	15	< 0.01	< 10	< 10	21	< 10	48
569022 H	299	229	0.01	3	360	20	12	2	12	< 0.01	< 10	< 10	34	< 10	86
569023 H	299	229	0.02	3	420	80	6	2	10	< 0.01	< 10	< 10	24	10	554
569024 H	299	229	0.01	5	650	152	< 2	3	48	< 0.01	< 10	10	18	10	1815
569025 H	299	229	0.01	4	500	4	6	2	15	< 0.01	< 10	< 10	22	< 10	68
569026 H	299	229	0.01	2	490	38	4	1	28	< 0.01	< 10	< 10	14	< 10	96
569027 H	299	229	0.01	4	510	22	6	2	20	< 0.01	< 10	< 10	14	< 10	60
569028 H	299	229	0.01	7	740	72	62	2	33	< 0.01	< 10	< 10	17	< 10	118
569029 H	299	229	0.02	3	480	10	4	2	17	< 0.01	< 10	< 10	21	< 10	34
569030 H	299	229	0.01	3	410	12	6	1	12	< 0.01	< 10	< 10	22	10	66
569031 H	299	229	0.01	3	390	52	2	1	13	< 0.01	< 10	< 10	17	< 10	80
569032 H	299	229	0.01	2	440	4	< 2	2	21	< 0.01	< 10	< 10	23	< 10	28
569033 H	299	229	0.03	2	480	6	< 2	3	18	0.01	< 10	< 10	36	< 10	32
569034 H	299	229	0.03	4	490	20	< 2	3	12	< 0.01	< 10	< 10	36	< 10	60
569035 H	299	229	0.02	2	450	20	< 2	2	14	< 0.01	< 10	< 10	30	10	90

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 168
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUL-93
Invoice No. :I9317166
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569036 H	299	229	1.4	0.98	10	130	< 0.5	< 2	1.08	0.5	24	73	789	3.42	< 10	< 1	0.32	10	0.73	325	31
569037 H	299	229	0.4	0.96	14	170	< 0.5	6	1.45	< 0.5	31	126	1300	3.41	< 10	< 1	0.35	10	0.72	180	36
569038 H	299	229	0.4	0.78	12	170	< 0.5	< 2	1.05	< 0.5	19	92	975	3.10	< 10	< 1	0.30	10	0.56	250	53
569039 H	299	229	0.6	0.63	22	90	< 0.5	2	0.87	< 0.5	43	120	1075	4.37	< 10	< 1	0.32	10	0.43	360	45
569040 H	299	229	0.4	0.53	10	110	< 0.5	6	0.78	< 0.5	31	92	802	2.77	< 10	< 1	0.33	10	0.36	155	41
569041 H	299	229	1.0	0.61	14	90	< 0.5	6	0.66	< 0.5	45	121	1050	3.19	< 10	< 1	0.34	10	0.34	230	44
569042 H	299	229	0.8	0.63	18	80	< 0.5	< 2	1.89	< 0.5	55	100	964	3.60	< 10	< 1	0.31	10	0.90	295	51
569043 H	299	229	0.2	1.27	2	150	< 0.5	2	0.73	< 0.5	33	124	870	2.97	< 10	< 1	0.33	10	0.75	185	10
569044 H	299	229	0.4	1.37	2	130	< 0.5	8	0.64	< 0.5	26	89	1150	3.84	< 10	< 1	0.33	20	0.94	240	40
569045 H	299	229	0.4	1.34	2	160	< 0.5	8	1.30	< 0.5	33	134	1000	3.45	10	< 1	0.38	20	0.93	190	39
569046 H	299	229	0.8	0.71	6	90	< 0.5	4	1.33	< 0.5	38	73	1055	3.47	< 10	< 1	0.30	10	0.71	175	32
569047 H	299	229	0.2	1.00	2	110	< 0.5	< 2	1.21	< 0.5	43	129	674	3.33	< 10	< 1	0.37	10	0.82	205	24
569048 H	299	229	0.6	0.67	16	110	< 0.5	12	1.32	< 0.5	38	80	929	3.34	< 10	< 1	0.29	10	0.71	350	7
569049 H	299	229	0.2	1.02	2	170	< 0.5	< 2	1.71	< 0.5	29	136	935	4.25	10	< 1	0.39	20	0.70	195	8
569050 H	299	229	0.6	0.78	4	70	< 0.5	8	1.98	< 0.5	25	77	963	3.01	< 10	< 1	0.24	10	0.40	180	14
569051 H	299	229	2.6	0.73	16	80	< 0.5	16	2.19	< 0.5	34	101	1270	4.26	< 10	< 1	0.24	10	0.44	245	21
569052 H	299	229	0.6	0.95	2	50	< 0.5	< 2	1.71	< 0.5	37	76	939	3.03	< 10	< 1	0.25	10	0.46	180	18
569053 H	299	229	0.8	0.68	2	100	< 0.5	8	0.90	< 0.5	27	127	866	2.87	< 10	< 1	0.31	10	0.39	225	24
569054 H	299	229	0.8	0.69	2	100	< 0.5	6	0.82	< 0.5	39	98	1080	4.08	< 10	< 1	0.30	10	0.41	260	25
569055 H	299	229	0.6	0.75	2	100	< 0.5	6	1.39	< 0.5	30	95	1130	3.10	< 10	< 1	0.36	10	0.58	245	23
569056 H	299	229	2.2	0.70	8	80	< 0.5	16	0.97	< 0.5	59	101	1725	3.94	< 10	< 1	0.37	< 10	0.39	280	28
569057 H	299	229	2.0	0.86	2	110	< 0.5	4	0.42	< 0.5	39	181	2000	4.29	< 10	< 1	0.44	20	0.21	385	88
569058 H	299	229	7.0	0.85	6	60	< 0.5	82	0.45	< 0.5	54	124	3100	5.23	< 10	< 1	0.45	10	0.19	165	117
569059 H	299	229	1.8	0.90	2	100	< 0.5	6	1.03	< 0.5	41	190	1560	4.06	< 10	< 1	0.46	10	0.51	370	45
569060 H	299	229	7.2	0.66	22	20	< 0.5	20	0.78	0.5	71	133	1355	6.38	< 10	< 1	0.42	< 10	0.34	225	41
569061 H	299	229	1.2	0.89	2	150	< 0.5	4	1.05	< 0.5	24	120	1045	2.93	< 10	< 1	0.35	10	0.64	275	63
569062 H	299	229	1.0	0.82	8	70	< 0.5	< 2	0.85	< 0.5	46	86	1305	4.18	< 10	< 1	0.41	10	0.54	255	77
569063 H	299	229	0.6	0.95	8	40	< 0.5	6	1.47	< 0.5	76	112	940	7.34	< 10	< 1	0.32	10	0.63	445	40
569064 H	299	229	1.4	0.91	6	30	< 0.5	2	0.87	< 0.5	45	85	1710	5.52	< 10	< 1	0.40	10	0.57	410	38
569065 H	299	229	1.0	1.18	4	70	< 0.5	18	0.25	< 0.5	54	137	1460	5.70	< 10	< 1	0.49	10	0.59	210	10
569066 H	299	229	1.2	0.73	2	40	< 0.5	4	0.43	< 0.5	93	124	1045	4.79	< 10	< 1	0.42	10	0.32	120	8
569067 H	299	229	1.2	1.60	2	80	< 0.5	< 2	0.48	< 0.5	67	131	1085	4.26	< 10	< 1	0.78	10	0.62	185	23
569068 H	299	229	0.6	1.74	2	90	< 0.5	6	0.19	< 0.5	57	109	1625	5.03	10	< 1	0.86	20	1.03	170	21
569069 H	299	229	0.4	1.63	2	80	< 0.5	4	0.36	< 0.5	79	141	758	4.77	< 10	< 1	0.80	10	0.89	165	7
569070 H	299	229	0.8	1.24	2	30	< 0.5	8	0.62	< 0.5	84	94	947	5.16	< 10	< 1	0.54	10	0.56	215	7
569071 H	299	229	0.8	1.08	8	30	< 0.5	< 2	0.97	0.5	61	103	373	5.68	< 10	< 1	0.52	< 10	0.49	250	6
569072 H	299	229	0.8	1.01	14	10	< 0.5	14	0.24	< 0.5	90	94	285	7.09	< 10	< 1	0.54	< 10	0.17	75	3
569073 H	299	229	0.4	1.29	6	30	< 0.5	8	0.17	< 0.5	66	106	370	6.79	< 10	< 1	0.62	< 10	0.17	70	12
569074 H	299	229	0.2	1.06	4	20	< 0.5	6	0.15	< 0.5	35	91	279	5.29	< 10	< 1	0.49	< 10	0.16	150	3
569075 H	299	229	< 0.2	1.19	2	10	< 0.5	8	0.23	< 0.5	47	109	146	6.73	< 10	< 1	0.56	< 10	0.14	65	20

CERTIFICATION: Jhai D'Ma

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Project : CASINO 168
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Certificate Date: 22-JUL-93
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CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569036 H	299	229	0.02	2	510	42	< 2	2	20	< 0.01	< 10	< 10	25	10	118
569037 H	299	229	0.02	2	500	22	< 2	2	31	< 0.01	< 10	< 10	23	10	36
569038 H	299	229	0.01	3	490	4	< 2	2	23	< 0.01	< 10	< 10	21	< 10	40
569039 H	299	229	0.01	4	490	8	4	1	18	< 0.01	< 10	< 10	16	10	54
569040 H	299	229	0.01	1	450	6	< 2	< 1	11	< 0.01	< 10	< 10	10	< 10	26
569041 H	299	229	0.01	4	450	18	2	1	14	< 0.01	< 10	< 10	12	10	42
569042 H	299	229	0.01	2	700	18	10	1	21	< 0.01	< 10	< 10	13	20	72
569043 H	299	229	0.03	3	470	4	< 2	3	21	< 0.01	< 10	< 10	30	< 10	48
569044 H	299	229	0.03	3	490	12	< 2	3	21	< 0.01	< 10	< 10	40	10	50
569045 H	299	229	0.04	4	560	8	< 2	4	30	0.01	< 10	< 10	45	< 10	36
569046 H	299	229	0.02	3	490	24	6	2	27	< 0.01	< 10	< 10	20	10	40
569047 H	299	229	0.02	2	510	16	< 2	2	26	< 0.01	< 10	< 10	20	10	38
569048 H	299	229	0.01	3	410	4	< 2	2	29	< 0.01	< 10	< 10	21	10	46
569049 H	299	229	0.03	4	540	10	< 2	4	37	0.01	< 10	< 10	42	10	36
569050 H	299	229	0.01	2	450	8	< 2	3	25	< 0.01	< 10	< 10	22	10	32
569051 H	299	229	0.01	2	420	22	< 2	2	19	< 0.01	< 10	< 10	19	10	40
569052 H	299	229	< 0.01	3	510	4	< 2	3	19	< 0.01	< 10	< 10	23	10	32
569053 H	299	229	0.01	1	420	8	< 2	1	12	< 0.01	< 10	< 10	15	< 10	42
569054 H	299	229	0.01	2	500	14	2	1	12	< 0.01	< 10	< 10	19	< 10	48
569055 H	299	229	0.01	1	540	8	< 2	2	14	< 0.01	< 10	< 10	25	< 10	32
569056 H	299	229	0.01	3	500	14	< 2	1	9	< 0.01	< 10	< 10	13	< 10	42
569057 H	299	229	0.01	4	530	4	2	1	11	< 0.01	< 10	< 10	17	10	32
569058 H	299	229	0.01	4	900	28	4	1	10	< 0.01	< 10	< 10	11	< 10	30
569059 H	299	229	0.01	4	540	22	4	1	16	< 0.01	< 10	< 10	18	< 10	62
569060 H	299	229	0.01	4	530	112	4	1	14	< 0.01	< 10	< 10	11	20	126
569061 H	299	229	0.01	2	420	10	2	1	22	< 0.01	< 10	< 10	17	10	82
569062 H	299	229	0.01	3	500	40	2	2	16	< 0.01	< 10	< 10	20	10	94
569063 H	299	229	0.01	6	540	12	2	3	10	< 0.01	< 10	< 10	26	10	94
569064 H	299	229	0.01	3	490	20	< 2	3	12	< 0.01	< 10	< 10	28	10	66
569065 H	299	229	0.01	4	410	10	< 2	2	12	0.01	< 10	< 10	26	< 10	46
569066 H	299	229	0.01	4	350	8	2	1	12	< 0.01	< 10	< 10	12	< 10	22
569067 H	299	229	0.02	4	410	12	2	3	15	0.01	< 10	< 10	31	10	44
569068 H	299	229	0.03	4	350	6	< 2	6	13	0.04	< 10	< 10	53	10	44
569069 H	299	229	0.03	4	370	8	< 2	4	16	0.02	< 10	< 10	39	< 10	36
569070 H	299	229	0.02	4	500	14	< 2	2	18	< 0.01	< 10	< 10	19	10	38
569071 H	299	229	0.01	4	600	38	2	2	15	< 0.01	< 10	< 10	14	10	108
569072 H	299	229	0.01	4	570	30	2	1	9	< 0.01	< 10	< 10	10	< 10	36
569073 H	299	229	0.02	3	480	18	< 2	2	10	< 0.01	< 10	< 10	14	< 10	40
569074 H	299	229	0.01	3	430	12	2	1	9	< 0.01	< 10	< 10	10	< 10	30
569075 H	299	229	0.01	3	420	14	< 2	1	11	< 0.01	< 10	< 10	15	< 10	18

CERTIFICATION: [signature]

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CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569076 H	299	229	0.4	0.97	6	10	< 0.5	6	0.36	< 0.5	43	92	236	5.91	< 10	< 1	0.51	< 10	0.17	110	10
569077 H	299	229	0.6	0.94	22	10	< 0.5	4	0.35	< 0.5	32	73	197	6.45	< 10	< 1	0.52	< 10	0.18	100	15
569078 H	299	229	0.8	0.86	24	10	< 0.5	28	0.61	< 0.5	23	96	1555	6.02	< 10	< 1	0.48	< 10	0.31	175	6
569079 H	299	229	< 0.2	0.78	< 2	10	< 0.5	< 2	0.34	< 0.5	59	94	142	7.84	< 10	< 1	0.39	< 10	0.18	155	14
569080 H	299	229	< 0.2	0.76	8	10	< 0.5	< 2	0.36	< 0.5	42	88	91	6.96	< 10	< 1	0.41	< 10	0.18	105	21
569081 H	299	229	< 0.2	0.70	14	10	< 0.5	2	0.36	< 0.5	30	102	51	6.59	< 10	< 1	0.39	< 10	0.19	90	12
569082 H	299	229	0.2	0.62	12	10	< 0.5	8	0.32	< 0.5	22	99	90	5.28	< 10	< 1	0.33	< 10	0.16	90	11
569083 H	299	229	< 0.2	0.78	18	20	< 0.5	4	0.37	< 0.5	53	95	56	7.22	< 10	< 1	0.42	< 10	0.18	130	12
569084 H	299	229	1.2	0.66	40	20	< 0.5	24	0.40	< 0.5	69	107	166	8.24	< 10	< 1	0.38	< 10	0.14	150	7
569085 H	299	229	< 0.2	0.80	6	20	< 0.5	2	0.87	< 0.5	40	95	184	5.33	< 10	< 1	0.45	< 10	0.40	260	3
569086 H	299	229	< 0.2	0.79	10	20	< 0.5	8	0.50	< 0.5	27	108	301	5.04	< 10	< 1	0.37	< 10	0.22	195	4
569087 H	299	229	0.6	0.78	26	30	< 0.5	4	0.95	< 0.5	50	73	535	4.87	< 10	< 1	0.42	< 10	0.40	345	13
569088 H	299	229	1.2	0.91	48	20	< 0.5	14	0.32	< 0.5	128	95	430	7.93	< 10	< 1	0.53	< 10	0.19	110	34
569089 H	299	229	0.6	1.00	34	20	< 0.5	2	0.88	< 0.5	100	69	467	5.66	< 10	< 1	0.50	< 10	0.46	300	19
569090 H	299	229	2.2	1.14	54	10	< 0.5	22	0.56	< 0.5	38	63	214	9.34	< 10	< 1	0.60	< 10	0.31	200	8
569091 H	299	229	0.2	1.11	< 2	20	< 0.5	12	0.53	< 0.5	51	63	386	6.71	< 10	< 1	0.48	< 10	0.32	150	4
569092 H	299	229	0.2	1.16	4	20	< 0.5	2	0.79	< 0.5	45	93	224	5.23	< 10	< 1	0.50	< 10	0.38	245	9
569093 H	299	229	1.6	1.12	70	10	< 0.5	< 2	1.01	< 0.5	33	50	867	6.78	< 10	< 1	0.48	< 10	0.45	335	1
569094 H	299	229	< 0.2	2.09	8	40	< 0.5	2	1.09	< 0.5	15	31	221	5.28	10	< 1	0.44	10	1.07	175	3
569095 H	299	229	< 0.2	1.09	16	10	< 0.5	4	0.66	< 0.5	49	56	202	6.79	< 10	< 1	0.37	< 10	0.45	145	3
569096 H	299	229	< 0.2	0.83	< 2	50	< 0.5	2	0.60	0.5	20	80	199	4.49	< 10	< 1	0.38	10	0.31	135	< 1
569097 H	299	229	0.6	0.72	< 2	40	< 0.5	6	0.90	< 0.5	27	77	229	4.61	< 10	< 1	0.35	< 10	0.42	210	2
569098 H	299	229	0.2	0.66	4	20	< 0.5	4	0.75	< 0.5	39	74	230	5.88	< 10	< 1	0.36	< 10	0.33	200	7
569099 H	299	229	< 0.2	0.88	< 2	20	< 0.5	8	0.21	< 0.5	29	90	122	6.62	< 10	< 1	0.39	< 10	0.18	60	5
569100 H	299	229	< 0.2	0.64	12	10	< 0.5	4	0.28	< 0.5	42	71	103	7.04	< 10	< 1	0.33	< 10	0.14	80	3
569101 H	299	229	1.6	0.25	24	10	< 0.5	34	0.38	< 0.5	64	28	618	8.07	< 10	< 1	0.18	< 10	0.15	105	6
569102 H	299	229	0.8	0.67	12	30	< 0.5	8	0.54	< 0.5	34	76	778	5.77	< 10	< 1	0.31	< 10	0.28	210	3
569103 H	299	229	0.2	0.56	< 2	10	< 0.5	6	0.56	< 0.5	55	53	431	5.99	< 10	< 1	0.25	10	0.32	145	4
569104 H	299	229	0.2	0.48	< 2	20	< 0.5	4	0.93	< 0.5	32	53	132	5.92	< 10	< 1	0.28	< 10	0.46	250	12
569105 H	299	229	0.6	1.27	< 2	20	< 0.5	8	1.25	< 0.5	46	72	354	5.65	< 10	< 1	0.64	< 10	0.66	255	11
569106 H	299	229	< 0.2	1.44	< 2	20	< 0.5	2	1.03	< 0.5	42	64	140	5.24	< 10	< 1	0.62	< 10	0.62	165	10
569107 H	299	229	0.6	0.90	< 2	20	< 0.5	6	1.16	< 0.5	39	68	331	5.65	< 10	< 1	0.45	< 10	0.61	155	7
569108 H	299	229	0.2	0.67	4	20	< 0.5	6	0.98	< 0.5	19	43	164	5.38	< 10	< 1	0.33	10	0.63	195	6
569109 H	299	229	0.2	0.60	8	10	< 0.5	6	0.98	< 0.5	104	46	195	7.90	< 10	< 1	0.35	< 10	0.47	115	16
569110 H	299	229	0.4	0.76	14	30	< 0.5	4	0.99	< 0.5	32	35	452	4.81	< 10	< 1	0.39	10	0.68	220	15
569111 H	299	229	0.2	1.12	< 2	30	< 0.5	< 2	0.52	< 0.5	25	55	203	5.18	< 10	< 1	0.52	10	0.95	155	7
569112 H	299	229	0.4	0.75	10	30	< 0.5	8	1.35	< 0.5	31	45	228	5.72	< 10	< 1	0.40	10	0.75	180	7
569113 H	299	229	< 0.2	0.71	6	30	< 0.5	4	1.70	< 0.5	24	41	178	5.79	< 10	< 1	0.28	10	0.92	295	4
569114 H	299	229	0.4	0.56	8	20	< 0.5	4	1.02	< 0.5	50	32	432	5.70	< 10	< 1	0.25	10	0.48	160	2
569115 H	299	229	0.4	0.98	12	20	< 0.5	< 2	1.37	0.5	20	70	206	5.57	< 10	< 1	0.38	20	0.64	210	12

CERTIFICATION: John D'Mar

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 168
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUL-93
Invoice No. : I9317166
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569076 H	299	229	0.01	3	440	14	< 2	1	16	< 0.01	< 10	< 10	9	< 10	14
569077 H	299	229	0.01	3	480	6	2	1	11	< 0.01	< 10	< 10	9	< 10	18
569078 H	299	229	0.01	3	470	12	4	1	13	< 0.01	< 10	< 10	9	< 10	24
569079 H	299	229	0.01	3	450	14	2	1	13	< 0.01	< 10	< 10	8	< 10	24
569080 H	299	229	0.01	2	470	8	< 2	1	13	< 0.01	< 10	< 10	8	< 10	12
569081 H	299	229	0.01	1	470	12	2	1	14	< 0.01	< 10	< 10	7	10	12
569082 H	299	229	0.01	1	400	12	< 2	1	19	< 0.01	< 10	< 10	6	< 10	8
569083 H	299	229	0.01	3	510	4	< 2	1	11	< 0.01	< 10	< 10	9	< 10	10
569084 H	299	229	0.01	7	520	28	8	1	10	< 0.01	< 10	< 10	8	< 10	14
569085 H	299	229	0.01	3	470	6	< 2	1	15	< 0.01	< 10	< 10	10	< 10	20
569086 H	299	229	0.01	1	410	4	< 2	1	14	< 0.01	< 10	< 10	9	< 10	30
569087 H	299	229	0.01	3	530	8	6	1	12	< 0.01	< 10	< 10	10	< 10	34
569088 H	299	229	0.01	3	570	14	4	1	12	< 0.01	< 10	< 10	11	< 10	26
569089 H	299	229	0.01	4	490	14	2	1	12	< 0.01	< 10	< 10	15	< 10	26
569090 H	299	229	0.01	3	510	32	4	2	10	< 0.01	< 10	< 10	17	< 10	62
569091 H	299	229	0.01	3	550	14	< 2	2	11	< 0.01	< 10	< 10	14	< 10	26
569092 H	299	229	0.01	1	600	18	2	2	15	< 0.01	< 10	< 10	15	< 10	64
569093 H	299	229	0.01	3	590	32	4	2	13	< 0.01	< 10	< 10	20	10	48
569094 H	299	229	0.04	1	550	14	< 2	4	101	0.01	< 10	< 10	61	10	32
569095 H	299	229	0.01	2	490	24	< 2	2	17	< 0.01	< 10	< 10	18	< 10	68
569096 H	299	229	0.01	5	490	10	2	1	12	< 0.01	< 10	< 10	11	< 10	52
569097 H	299	229	0.01	2	420	16	4	1	12	< 0.01	< 10	< 10	10	< 10	30
569098 H	299	229	0.01	1	450	16	2	1	10	< 0.01	< 10	< 10	10	< 10	26
569099 H	299	229	0.01	4	490	16	2	1	9	< 0.01	< 10	< 10	9	< 10	20
569100 H	299	229	0.01	2	500	< 2	< 2	1	8	< 0.01	< 10	< 10	8	< 10	18
569101 H	299	229	< 0.01	2	400	24	6	1	7	< 0.01	< 10	< 10	3	< 10	16
569102 H	299	229	0.01	1	460	8	2	1	9	< 0.01	< 10	< 10	9	< 10	30
569103 H	299	229	0.01	3	380	10	< 2	1	19	< 0.01	< 10	< 10	7	< 10	32
569104 H	299	229	0.01	6	550	2	< 2	1	18	< 0.01	< 10	< 10	9	< 10	36
569105 H	299	229	0.01	20	780	6	< 2	2	23	0.01	< 10	< 10	16	10	38
569106 H	299	229	0.01	18	720	12	< 2	2	25	0.01	< 10	< 10	19	10	28
569107 H	299	229	0.01	18	730	< 2	< 2	1	35	< 0.01	< 10	< 10	13	10	28
569108 H	299	229	0.01	18	760	8	2	1	26	< 0.01	< 10	< 10	12	10	34
569109 H	299	229	0.01	16	680	14	< 2	1	14	< 0.01	< 10	< 10	10	40	24
569110 H	299	229	0.01	15	700	< 2	2	1	21	0.01	< 10	< 10	15	< 10	46
569111 H	299	229	0.01	18	780	10	< 2	1	24	0.02	< 10	< 10	18	< 10	40
569112 H	299	229	0.01	17	700	12	2	1	112	0.01	< 10	< 10	16	10	42
569113 H	299	229	0.01	3	420	10	< 2	2	61	< 0.01	< 10	< 10	22	20	50
569114 H	299	229	0.01	2	500	16	< 2	1	22	< 0.01	< 10	< 10	13	10	50
569115 H	299	229	0.01	4	620	90	< 2	2	27	< 0.01	< 10	< 10	18	10	162

CERTIFICATION: John D'Mar

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 168
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUL-93
Invoice No. :19317166
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569116 H	299	229	1.2	1.32	20	10	< 0.5	4	1.35	1.5	28	71	249	5.99	< 10	< 1	0.54	10	0.57	320	2
569117 H	299	229	< 0.2	1.47	< 2	30	< 0.5	2	0.68	< 0.5	44	84	384	4.77	< 10	< 1	0.62	10	0.76	120	9
569118 H	299	229	< 0.2	1.10	< 2	20	< 0.5	2	0.84	< 0.5	46	99	200	5.28	< 10	< 1	0.54	10	0.42	85	9
569119 H	299	229	< 0.2	1.14	14	10	< 0.5	4	0.98	< 0.5	78	115	157	6.92	< 10	< 1	0.59	10	0.47	135	12
569120 H	299	229	0.6	1.00	18	10	< 0.5	< 2	1.04	< 0.5	145	101	265	7.78	< 10	< 1	0.54	< 10	0.44	160	7
569121 H	299	229	0.2	0.79	2	30	< 0.5	< 2	0.93	< 0.5	30	90	282	4.80	< 10	< 1	0.45	10	0.43	115	6
569122 H	299	229	0.2	1.42	< 2	40	< 0.5	< 2	1.70	< 0.5	42	110	416	4.19	< 10	< 1	0.45	10	0.77	190	6
569123 H	299	229	< 0.2	0.80	< 2	20	< 0.5	< 2	1.19	< 0.5	44	73	167	5.35	< 10	< 1	0.35	10	0.56	140	7
569124 H	299	229	< 0.2	0.90	< 2	10	< 0.5	< 2	0.74	< 0.5	31	81	117	7.39	< 10	< 1	0.47	< 10	0.33	90	5
569125 H	299	229	< 0.2	0.65	12	30	< 0.5	< 2	0.54	< 0.5	42	68	63	4.59	< 10	< 1	0.37	< 10	0.17	135	34
569126 H	299	229	0.4	0.66	16	30	< 0.5	< 2	0.85	< 0.5	59	105	749	5.17	< 10	< 1	0.39	< 10	0.45	85	14
569127 H	299	229	< 0.2	0.71	4	50	< 0.5	< 2	0.36	< 0.5	19	107	97	4.96	< 10	< 1	0.40	< 10	0.18	65	6
569128 H	299	229	0.4	1.32	4	30	< 0.5	8	0.49	< 0.5	17	89	499	4.03	< 10	< 1	0.55	< 10	0.26	100	6
569129 H	299	229	< 0.2	0.96	< 2	80	< 0.5	< 2	0.25	< 0.5	14	59	61	2.86	< 10	< 1	0.42	< 10	0.12	30	11
569130 H	299	229	< 0.2	1.34	< 2	100	< 0.5	< 2	0.35	< 0.5	13	72	67	3.06	< 10	< 1	0.53	< 10	0.18	50	19
569131 H	299	229	0.2	1.24	< 2	30	< 0.5	< 2	1.15	< 0.5	18	55	169	5.68	< 10	< 1	0.65	10	0.54	220	67
569132 H	299	229	< 0.2	1.93	4	30	< 0.5	< 2	1.19	< 0.5	17	170	181	4.52	< 10	< 1	0.68	10	0.76	180	< 1
569133 H	299	229	< 0.2	1.38	2	60	< 0.5	< 2	1.05	< 0.5	16	148	147	4.72	< 10	< 1	0.67	10	0.55	165	3
569134 H	299	229	0.6	1.42	16	10	< 0.5	< 2	0.58	< 0.5	38	103	91	7.53	< 10	< 1	0.76	10	0.28	100	16
569135 H	299	229	1.6	1.15	28	10	< 0.5	< 2	0.39	< 0.5	31	89	773	10.90	< 10	< 1	0.64	< 10	0.19	85	10
569136 H	299	229	0.2	0.87	< 2	20	< 0.5	< 2	0.58	< 0.5	28	37	80	4.98	< 10	< 1	0.40	< 10	0.28	110	31
569137 H	299	229	< 0.2	0.64	8	30	< 0.5	< 2	0.87	< 0.5	19	60	175	4.47	< 10	< 1	0.32	< 10	0.41	165	8
569138 H	299	229	0.6	1.11	22	20	< 0.5	< 2	0.70	< 0.5	16	96	87	6.67	< 10	< 1	0.58	< 10	0.32	120	23
569139 H	299	229	< 0.2	1.32	< 2	10	< 0.5	< 2	0.61	< 0.5	26	85	109	7.94	< 10	< 1	0.67	10	0.31	85	21
569140 H	299	229	< 0.2	1.65	< 2	10	< 0.5	< 2	0.87	< 0.5	18	144	234	7.64	< 10	< 1	0.60	< 10	0.58	185	12
569141 H	299	229	0.2	1.48	4	20	< 0.5	< 2	1.02	< 0.5	19	107	225	5.22	< 10	< 1	0.49	10	0.69	195	4
569142 H	299	229	0.8	2.04	14	20	< 0.5	2	1.09	< 0.5	47	143	324	8.25	< 10	< 1	0.66	10	0.77	390	43
569143 H	299	229	0.2	1.40	< 2	30	< 0.5	< 2	1.24	< 0.5	18	119	332	5.16	< 10	< 1	0.49	10	0.76	185	6
569144 H	299	229	< 0.2	1.53	< 2	40	< 0.5	< 2	1.08	< 0.5	16	135	142	4.73	< 10	< 1	0.51	10	0.75	140	2
569145 H	299	229	< 0.2	1.57	10	70	< 0.5	< 2	1.47	< 0.5	13	148	199	3.66	< 10	< 1	0.47	10	0.93	105	2
813 A	299	229	0.2	0.83	2	250	< 0.5	< 2	0.04	< 0.5	< 1	144	23	0.70	< 10	< 1	0.50	20	0.02	15	7
814 A	--	--	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.
815 A	299	229	3.2	1.30	20	330	< 0.5	4	0.03	< 0.5	4	154	185	2.24	< 10	< 1	0.84	30	0.09	30	21
816 A	299	229	0.6	1.27	36	130	< 0.5	< 2	0.18	< 0.5	33	109	1660	4.77	< 10	< 1	0.57	20	0.29	430	41
817 A	299	229	0.6	1.43	28	130	< 0.5	2	0.90	< 0.5	40	123	1115	4.15	< 10	< 1	0.66	10	0.47	360	65
818 A	299	229	2.2	1.06	< 2	60	< 0.5	< 2	0.97	0.5	38	88	1390	4.33	< 10	< 1	0.58	10	0.49	335	27
819 A	299	229	< 0.2	1.36	< 2	10	< 0.5	< 2	0.37	< 0.5	53	150	157	7.21	< 10	< 1	0.67	< 10	0.25	175	11
820 A	299	229	< 0.2	1.25	< 2	20	< 0.5	< 2	0.23	< 0.5	23	112	112	6.55	< 10	< 1	0.58	< 10	0.20	60	8
821 A	299	229	< 0.2	1.30	< 2	20	< 0.5	< 2	0.91	< 0.5	88	160	129	7.58	< 10	< 1	0.67	10	0.43	120	12
822 A	299	229	< 0.2	1.10	< 2	10	< 0.5	< 2	0.61	< 0.5	22	102	113	8.53	< 10	< 1	0.57	10	0.30	90	27

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CERTIFICATE OF ANALYSIS A9317166

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569116 H	299	229	0.01	3	500	164	2	2	18	< 0.01	< 10	< 10	20	10	244
569117 H	299	229	0.03	3	530	18	< 2	3	50	0.01	< 10	< 10	30	10	28
569118 H	299	229	0.01	4	540	12	< 2	2	18	< 0.01	< 10	< 10	18	< 10	16
569119 H	299	229	0.01	5	540	4	< 2	2	10	< 0.01	< 10	< 10	16	10	18
569120 H	299	229	0.01	6	730	4	< 2	2	11	< 0.01	< 10	< 10	15	30	18
569121 H	299	229	0.01	2	480	6	2	1	11	< 0.01	< 10	< 10	12	30	20
569122 H	299	229	0.01	5	630	< 2	< 2	3	40	< 0.01	< 10	< 10	23	30	36
569123 H	299	229	0.01	4	580	4	< 2	2	29	< 0.01	< 10	< 10	13	40	24
569124 H	299	229	0.01	3	470	8	< 2	2	12	< 0.01	< 10	< 10	12	< 10	18
569125 H	299	229	0.01	2	130	6	< 2	< 1	10	< 0.01	< 10	< 10	5	< 10	6
569126 H	299	229	0.01	1	170	4	2	< 1	11	< 0.01	< 10	< 10	4	10	6
569127 H	299	229	0.01	2	70	14	2	< 1	10	< 0.01	< 10	< 10	3	< 10	6
569128 H	299	229	0.01	< 1	60	14	< 2	< 1	11	< 0.01	< 10	< 10	6	< 10	6
569129 H	299	229	0.01	1	40	4	2	< 1	12	< 0.01	< 10	20	4	< 10	14
569130 H	299	229	0.02	1	20	8	4	< 1	13	< 0.01	< 10	10	7	< 10	4
569131 H	299	229	0.01	2	460	10	6	1	15	< 0.01	< 10	< 10	13	< 10	10
569132 H	299	229	0.02	4	570	20	< 2	3	60	< 0.01	< 10	< 10	23	< 10	22
569133 H	299	229	0.01	3	500	6	4	2	20	< 0.01	< 10	< 10	17	< 10	16
569134 H	299	229	0.02	5	480	30	2	2	11	< 0.01	< 10	< 10	15	< 10	14
569135 H	299	229	0.02	4	370	36	6	2	9	< 0.01	< 10	< 10	11	< 10	22
569136 H	299	229	0.01	< 1	150	12	4	< 1	12	< 0.01	< 10	< 10	4	< 10	6
569137 H	299	229	0.01	3	420	< 2	2	1	13	< 0.01	< 10	< 10	6	< 10	14
569138 H	299	229	0.02	5	560	16	2	2	13	< 0.01	< 10	< 10	14	< 10	22
569139 H	299	229	0.02	4	540	8	2	2	13	< 0.01	< 10	< 10	18	60	20
569140 H	299	229	0.02	4	430	6	2	2	30	< 0.01	< 10	< 10	21	< 10	30
569141 H	299	229	0.02	3	530	14	< 2	2	36	< 0.01	< 10	< 10	23	< 10	28
569142 H	299	229	0.01	34	620	14	2	6	17	0.01	< 10	10	37	< 10	104
569143 H	299	229	0.02	6	510	10	< 2	3	37	< 0.01	< 10	< 10	25	< 10	28
569144 H	299	229	0.03	4	450	14	2	3	83	< 0.01	< 10	< 10	26	< 10	42
569145 H	299	229	0.06	4	480	6	< 2	3	116	0.01	< 10	< 10	36	< 10	26
813 A	299	229	0.02	1	70	4	< 2	1	10	< 0.01	< 10	< 10	9	< 10	2
814 A	--	--	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.	miss.
815 A	299	229	0.02	2	550	440	< 2	3	55	< 0.01	< 10	< 10	16	< 10	22
816 A	299	229	0.01	3	450	16	2	3	8	< 0.01	< 10	< 10	28	< 10	68
817 A	299	229	0.02	4	480	14	< 2	2	22	< 0.01	< 10	< 10	23	10	58
818 A	299	229	0.01	4	480	16	< 2	2	17	< 0.01	< 10	< 10	21	10	68
819 A	299	229	0.01	6	480	12	< 2	2	18	< 0.01	< 10	< 10	14	< 10	26
820 A	299	229	0.01	3	500	8	< 2	2	10	< 0.01	< 10	< 10	12	< 10	22
821 A	299	229	0.02	4	560	8	2	3	10	< 0.01	< 10	< 10	19	10	16
822 A	299	229	0.02	5	520	2	2	2	12	< 0.01	< 10	< 10	16	< 10	18

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 169
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 22-JUL-93
Invoice No. : I9317168
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317168

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
564351 H	208	276	< 0.01	0.112	0.48	10080						
564352 H	208	274	< 0.01	0.109	0.55	6520						
564353 H	208	274	0.01	0.064	0.38	4100						
564354 H	208	274	< 0.01	0.081	0.58	5340						
564355 H	208	274	< 0.01	0.110	0.51	6400						
564356 H	208	274	< 0.01	0.124	0.82	6160						
564357 H	208	274	< 0.01	0.123	1.41	6640						
564358 H	208	274	< 0.01	0.121	0.96	5200						
564359 H	208	274	< 0.01	0.186	0.45	4000						
564360 H	208	274	< 0.01	0.226	0.72	6100						
564361 H	208	276	< 0.01	0.251	0.34	7800						
564362 H	208	274	< 0.01	0.254	0.55	5380						
564363 H	208	274	< 0.01	0.229	0.27	6980						
564364 H	208	274	< 0.01	0.070	0.34	6600						
564365 H	208	276	< 0.01	0.068	0.34	11780						
564366 H	208	273	< 0.01	0.056	0.55	12200						
564367 H	208	276	< 0.01	0.080	0.34	8020						
564368 H	208	276	< 0.01	0.069	0.21	10600						
564369 H	208	276	< 0.01	0.074	0.48	11200						
564370 H	208	276	< 0.01	0.048	0.48	8480						
564371 H	208	276	0.01	0.080	0.41	9980						
564372 H	208	276	< 0.01	0.096	0.62	11400						
564373 H	208	273	0.01	0.072	0.65	12340						
564374 H	208	273	0.02	0.063	0.41	13180						
564375 H	208	276	0.01	0.064	0.48	11780						
564376 H	208	276	0.01	0.054	0.34	11640						
564377 H	208	276	0.01	0.126	0.21	10800						
564378 H	208	273	0.01	0.062	0.45	12140						
564379 H	208	276	0.01	0.052	0.31	11420						
564380 H	208	276	0.01	0.047	0.27	9680						
564381 H	208	276	0.01	0.033	0.38	10240						
564382 H	208	276	< 0.01	0.033	0.31	10560						
564383 H	208	276	< 0.01	0.045	0.24	11800						
564384 H	208	273	0.02	0.023	0.21	13240						
564385 H	208	276	0.02	0.022	0.38	11160						
564386 H	208	276	0.01	0.030	0.34	11720						
564387 H	208	273	0.01	0.062	0.62	12260						
564388 H	208	276	0.05	0.036	0.41	11400						
564389 H	208	276	0.02	0.030	0.45	10920						
564390 H	208	274	0.01	0.046	0.38	6700						

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
564391 H	208 276	0.08	0.114	0.58	8080
564392 H	208 274	0.07	0.036	0.17	5320
564393 H	208 274	0.14	0.042	0.38	6400
564394 H	208 274	0.30	0.032	0.38	6640
564395 H	208 276	0.22	0.028	0.21	8160
564396 H	208 274	0.22	0.029	0.38	5900
564397 H	208 274	0.13	0.017	0.21	5060
564398 H	208 276	0.18	0.014	0.17	8240
564399 H	208 276	0.32	0.062	0.38	9900
564400 H	208 276	0.31	0.059	0.38	10840
564401 H	208 276	0.31	0.065	0.51	10640
564402 H	208 --	0.37	0.046	0.31	13560
564403 H	208 274	0.37	0.049	0.34	3220
564404 H	208 274	0.38	0.052	0.38	6140
564405 H	208 274	0.48	0.024	0.41	5600
564406 H	208 274	0.40	0.030	0.38	6440
564407 H	208 274	0.34	0.015	0.27	2660
564408 H	208 274	0.34	0.036	0.31	6540
564409 H	208 274	0.25	0.030	0.31	6460
564410 H	208 274	0.33	0.035	0.41	6820
564411 H	208 274	0.43	0.039	0.45	6090
564412 H	208 --	0.32	0.025	0.51	7800
564413 H	208 274	0.26	0.037	0.27	6120
564414 H	208 274	0.28	0.024	0.38	6940
564415 H	208 274	0.25	0.021	0.24	5660
564416 H	208 274	0.28	0.019	0.27	3160
564417 H	208 274	0.25	0.031	0.27	5660
564418 H	208 274	0.24	0.033	0.38	6220
564419 H	208 276	0.30	0.051	0.27	7600
564420 H	208 274	0.19	0.031	0.34	6900
564421 H	208 274	0.22	0.031	0.24	7100
564422 H	208 274	0.70	0.036	1.13	6160
564423 H	208 274	0.21	0.023	0.27	7100
564424 H	208 274	0.21	0.020	0.31	4160
564425 H	208 276	0.16	0.012	0.24	10340
564426 H	208 276	0.20	0.027	0.17	7580
564427 H	208 274	0.16	0.021	0.14	7160
564428 H	208 276	0.16	0.016	0.10	7660
564429 H	208 274	0.14	0.030	0.17	7200
564430 H	208 276	0.17	0.028	0.10	7580

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
564431 H	208 276	0.19	0.025	0.14	7720
564432 H	208 274	0.11	0.025	0.07	7220
564433 H	208 276	0.19	0.031	0.10	7380
564434 H	208 274	0.14	0.035	0.07	7000
564435 H	208 274	0.18	0.025	0.10	7140
564436 H	208 274	0.27	0.035	0.14	6740
564437 H	208 274	0.19	0.038	0.14	7240
564438 H	208 274	0.18	0.023	0.17	7140
564439 H	208 276	0.17	0.022	0.17	7340
564440 H	208 276	0.16	0.019	0.21	7480
564441 H	208 274	0.24	0.035	0.17	7260
564442 H	208 274	0.13	0.047	0.07	7160
564443 H	208 274	0.17	0.015	0.14	7000
564444 H	208 274	0.15	0.015	0.14	7250
564445 H	208 274	0.14	0.014	0.14	7160
564446 H	208 276	0.33	0.048	0.21	7940
564447 H	208 276	0.36	0.044	0.31	8220
564448 H	208 276	0.50	0.057	0.79	7700
564449 H	208 276	0.50	0.020	3.98	8000
564450 H	208 276	0.26	0.047	0.62	7700
564451 H	208 276	0.16	0.019	0.10	8020
564452 H	208 276	0.32	0.198	0.27	7720
564453 H	208 276	0.33	0.061	0.27	7900
564454 H	208 276	0.11	0.020	0.10	7720
564455 H	208 276	0.18	0.019	0.14	7700
564456 H	208 276	0.12	0.027	0.10	8020
564457 H	208 276	0.12	0.040	0.07	7400
564458 H	208 276	0.20	0.054	0.14	7420
564459 H	208 276	0.20	0.038	0.10	7560
564460 H	208 274	0.15	0.019	0.14	6860
564461 H	208 276	0.19	0.021	0.14	7560
564462 H	208 274	0.15	0.012	0.14	6060
564463 H	208 276	0.12	0.025	0.14	7680
564464 H	208 276	0.14	0.012	0.14	7500
764 A	208 274	< 0.01	0.105	0.65	4060
765 A	208 274	0.01	0.071	0.34	5980
766 A	208 274	0.22	0.025	0.27	5120
767 A	208 274	0.22	0.021	0.24	3360
768 A	208 274	0.18	0.029	0.14	3850
769 A	208 274	0.17	0.016	0.17	3660

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564351 H	299	229	9.0	0.30	28	200	< 0.5	4	0.01	< 0.5	< 1	118	16	4.02	< 10	< 1	0.90	30	0.02	10	737
564352 H	299	229	10.4	0.29	40	200	< 0.5	12	0.01	< 0.5	< 1	78	21	3.74	< 10	< 1	0.89	20	0.02	5	679
564353 H	299	229	5.4	0.32	18	230	< 0.5	6	0.01	< 0.5	< 1	99	45	2.79	< 10	< 1	0.72	10	0.02	10	429
564354 H	299	229	9.0	0.25	26	210	< 0.5	8	0.01	< 0.5	< 1	75	26	3.26	< 10	< 1	0.80	10	0.01	5	522
564355 H	299	229	5.4	0.20	38	160	< 0.5	6	0.01	< 0.5	< 1	55	14	3.99	< 10	< 1	0.93	20	0.01	5	672
564356 H	299	229	8.6	0.31	48	180	< 0.5	14	0.01	< 0.5	< 1	78	34	3.98	< 10	< 1	0.98	20	0.02	5	775
564357 H	299	229	4.0	0.23	42	160	< 0.5	6	< 0.01	< 0.5	< 1	54	13	4.55	< 10	< 1	1.05	20	0.01	5	799
564358 H	299	229	10.8	0.22	34	130	< 0.5	4	< 0.01	< 0.5	< 1	38	16	4.98	< 10	< 1	1.15	20	0.01	5	740
564359 H	299	229	7.0	0.11	42	110	< 0.5	6	< 0.01	< 0.5	1	30	9	6.09	< 10	< 1	1.30	10	0.01	< 5	1050
564360 H	299	229	8.2	0.13	60	110	< 0.5	18	< 0.01	< 0.5	< 1	42	17	7.13	< 10	< 1	1.49	10	0.01	5	1305
564361 H	299	229	3.6	0.13	52	150	< 0.5	30	< 0.01	< 0.5	< 1	39	22	6.42	< 10	< 1	1.36	10	0.01	< 5	1410
564362 H	299	229	5.0	0.31	62	110	< 0.5	32	0.01	< 0.5	< 1	125	35	6.86	< 10	< 1	1.52	20	0.02	10	1520
564363 H	299	229	3.2	0.16	88	110	< 0.5	14	< 0.01	< 0.5	< 1	49	19	7.09	< 10	< 1	1.52	20	0.01	5	1300
564364 H	299	229	4.0	0.32	42	230	< 0.5	8	0.01	< 0.5	< 1	68	47	3.37	< 10	< 1	0.84	20	0.02	10	452
564365 H	299	229	3.8	0.35	50	240	< 0.5	10	0.01	< 0.5	< 1	75	50	3.64	< 10	< 1	0.92	20	0.02	10	433
564366 H	299	229	4.0	0.25	76	160	< 0.5	8	0.01	< 0.5	< 1	54	45	4.49	< 10	< 1	1.04	10	0.02	5	362
564367 H	299	229	3.2	0.17	176	120	< 0.5	8	< 0.01	< 0.5	< 1	40	16	6.29	< 10	< 1	1.34	< 10	0.01	5	513
564368 H	299	229	3.0	0.42	80	180	< 0.5	14	< 0.01	< 0.5	< 1	118	36	4.72	< 10	< 1	1.14	10	0.02	10	441
564369 H	299	229	6.6	0.48	136	140	< 0.5	8	< 0.01	< 0.5	< 1	120	49	5.07	< 10	< 1	1.23	10	0.02	15	490
564370 H	299	229	5.6	0.40	48	230	< 0.5	6	0.01	< 0.5	< 1	77	43	3.29	< 10	< 1	0.88	20	0.02	10	318
564371 H	299	229	5.2	0.44	40	190	< 0.5	12	0.01	< 0.5	< 1	108	66	3.93	< 10	< 1	1.00	30	0.03	15	519
564372 H	299	229	5.6	0.35	50	160	< 0.5	14	< 0.01	< 0.5	< 1	77	52	4.42	< 10	< 1	1.05	20	0.02	10	628
564373 H	299	229	7.2	0.48	38	190	< 0.5	20	0.01	< 0.5	1	118	85	4.17	< 10	< 1	1.01	30	0.03	20	459
564374 H	299	229	5.4	0.43	30	100	< 0.5	4	0.01	< 0.5	4	70	163	5.77	< 10	< 1	1.14	20	0.03	10	394
564375 H	299	229	8.6	0.60	28	210	< 0.5	10	0.02	< 0.5	< 1	124	90	3.79	< 10	< 1	1.01	30	0.06	15	423
564376 H	299	229	4.8	0.47	24	230	< 0.5	10	0.02	< 0.5	< 1	97	65	2.88	< 10	< 1	0.78	30	0.04	15	338
564377 H	299	229	3.4	0.61	66	300	< 0.5	14	0.02	< 0.5	< 1	134	38	2.74	< 10	< 1	0.81	20	0.04	20	826
564378 H	299	229	7.4	0.79	70	350	< 0.5	4	0.02	< 0.5	< 1	104	81	2.55	< 10	< 1	0.84	30	0.08	20	389
564379 H	299	229	6.0	0.33	52	240	< 0.5	8	0.01	< 0.5	< 1	57	68	2.60	< 10	< 1	0.61	20	0.03	10	337
564380 H	299	229	4.6	0.70	50	240	< 0.5	2	0.01	< 0.5	< 1	105	141	3.64	10	< 1	0.84	40	0.06	20	295
564381 H	299	229	6.2	0.38	50	210	< 0.5	2	0.01	< 0.5	< 1	41	142	3.83	< 10	< 1	0.72	30	0.03	10	217
564382 H	299	229	5.0	0.62	32	220	< 0.5	2	0.02	< 0.5	< 1	116	56	3.24	< 10	< 1	0.82	20	0.06	20	203
564383 H	299	229	4.0	0.56	24	190	< 0.5	4	0.01	< 0.5	< 1	112	59	3.43	< 10	< 1	0.86	10	0.05	15	281
564384 H	299	229	4.0	0.63	54	60	< 0.5	2	0.01	< 0.5	16	114	246	3.77	< 10	< 1	0.60	20	0.05	15	140
564385 H	299	229	5.2	0.57	16	80	< 0.5	4	< 0.01	< 0.5	11	107	193	3.47	< 10	< 1	0.63	20	0.04	15	141
564386 H	299	229	5.2	0.45	16	150	< 0.5	2	< 0.01	< 0.5	4	98	130	2.96	< 10	< 1	0.69	20	0.04	10	185
564387 H	299	229	8.4	0.59	26	140	< 0.5	6	0.01	< 0.5	2	142	131	4.13	< 10	< 1	0.95	20	0.06	15	394
564388 H	299	229	8.4	0.64	44	50	< 0.5	2	< 0.01	< 0.5	18	84	551	4.54	< 10	< 1	0.53	20	0.05	15	219
564389 H	299	229	6.0	0.65	36	50	< 0.5	2	< 0.01	< 0.5	22	115	187	4.23	< 10	< 1	0.42	20	0.05	15	168
564390 H	299	229	9.0	0.47	36	60	< 0.5	4	0.01	< 0.5	18	117	161	3.92	< 10	< 1	0.53	10	0.03	15	287

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CERTIFICATE OF ANALYSIS A9317169

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564351 H	299	229	0.01	1	160	14	< 2	< 1	16	0.02	< 10	< 10	8	< 10	6
564352 H	299	229	0.01	< 1	170	18	< 2	< 1	13	0.02	< 10	< 10	9	< 10	6
564353 H	299	229	0.01	1	110	12	< 2	1	9	0.01	< 10	< 10	8	< 10	6
564354 H	299	229	0.01	< 1	150	24	< 2	< 1	9	0.02	< 10	< 10	7	< 10	6
564355 H	299	229	0.01	< 1	190	26	< 2	< 1	7	0.03	< 10	< 10	7	< 10	6
564356 H	299	229	0.01	1	200	32	2	1	8	0.03	< 10	< 10	12	10	6
564357 H	299	229	0.01	1	190	64	< 2	1	6	0.04	< 10	< 10	18	10	6
564358 H	299	229	0.01	< 1	160	46	< 2	1	6	0.04	< 10	< 10	22	< 10	6
564359 H	299	229	0.01	1	180	44	< 2	< 1	5	0.04	< 10	< 10	10	10	8
564360 H	299	229	0.03	< 1	250	32	2	1	10	0.06	< 10	< 10	13	10	8
564361 H	299	229	0.01	1	370	20	2	1	10	0.06	< 10	< 10	14	10	8
564362 H	299	229	0.02	2	400	10	2	1	11	0.06	< 10	< 10	17	10	10
564363 H	299	229	0.02	1	380	10	< 2	1	13	0.05	< 10	< 10	16	< 10	10
564364 H	299	229	0.01	1	240	4	< 2	< 1	17	0.01	< 10	< 10	10	< 10	8
564365 H	299	229	0.01	1	240	8	< 2	1	17	0.01	< 10	< 10	12	< 10	8
564366 H	299	229	0.01	1	230	4	< 2	1	15	0.01	< 10	< 10	16	< 10	8
564367 H	299	229	0.01	< 1	200	14	< 2	1	9	0.03	< 10	< 10	13	< 10	8
564368 H	299	229	0.01	2	250	16	< 2	1	12	0.02	< 10	< 10	16	< 10	8
564369 H	299	229	0.02	2	180	8	< 2	1	9	0.02	< 10	< 10	17	< 10	10
564370 H	299	229	0.01	< 1	290	20	< 2	1	11	0.02	< 10	< 10	13	< 10	8
564371 H	299	229	0.01	2	350	22	< 2	1	15	0.01	< 10	< 10	15	< 10	10
564372 H	299	229	0.01	< 1	330	18	< 2	1	15	0.01	< 10	< 10	8	< 10	10
564373 H	299	229	0.02	1	460	20	< 2	1	44	< 0.01	< 10	< 10	9	60	12
564374 H	299	229	0.02	1	290	6	< 2	1	20	0.01	< 10	< 10	12	< 10	14
564375 H	299	229	0.02	2	480	12	< 2	1	46	< 0.01	< 10	< 10	9	< 10	12
564376 H	299	229	0.01	< 1	480	8	< 2	1	52	< 0.01	< 10	< 10	6	< 10	12
564377 H	299	229	0.01	< 1	670	12	< 2	3	43	< 0.01	< 10	< 10	8	< 10	8
564378 H	299	229	0.01	1	880	8	< 2	2	74	< 0.01	< 10	< 10	9	< 10	12
564379 H	299	229	0.01	1	370	10	< 2	1	36	< 0.01	< 10	< 10	4	< 10	8
564380 H	299	229	0.02	2	700	8	< 2	2	50	< 0.01	< 10	< 10	18	< 10	12
564381 H	299	229	0.02	1	710	14	< 2	2	55	< 0.01	< 10	< 10	12	< 10	14
564382 H	299	229	0.01	2	300	8	< 2	1	30	< 0.01	< 10	< 10	9	< 10	10
564383 H	299	229	0.02	2	230	10	< 2	1	30	< 0.01	< 10	< 10	9	< 10	12
564384 H	299	229	0.01	4	70	10	< 2	1	8	< 0.01	< 10	< 10	7	< 10	14
564385 H	299	229	0.01	3	80	6	< 2	< 1	9	< 0.01	< 10	< 10	6	< 10	12
564386 H	299	229	0.01	3	190	8	< 2	< 1	25	< 0.01	< 10	< 10	4	< 10	12
564387 H	299	229	0.02	3	310	14	< 2	1	39	0.01	< 10	< 10	6	< 10	12
564388 H	299	229	0.01	4	60	4	< 2	< 1	4	< 0.01	< 10	< 10	5	< 10	14
564389 H	299	229	0.01	4	60	4	< 2	< 1	14	< 0.01	< 10	< 10	6	< 10	12
564390 H	299	229	0.01	3	90	8	< 2	1	16	0.01	< 10	< 10	6	< 10	12

CERTIFICATION: John D'Mar

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 169
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :2-A
Total Pages :3
Certificate Date: 22-JUL-93
Invoice No. :I9317169
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317169

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564391 H	299	229	8.4	0.89	58	70	< 0.5	6	0.01	< 0.5	20	168	819	3.68	< 10	< 1	0.57	20	0.06	25	725
564392 H	299	229	4.0	0.81	18	30	< 0.5	6	0.01	< 0.5	16	143	697	3.92	< 10	< 1	0.52	10	0.07	30	229
564393 H	299	229	5.2	0.83	232	20	< 0.5	2	0.01	< 0.5	34	133	1430	8.08	< 10	< 1	0.50	30	0.07	25	258
564394 H	299	229	7.8	0.83	54	20	< 0.5	< 2	0.01	< 0.5	30	126	3230	6.96	< 10	< 1	0.50	50	0.08	25	195
564395 H	299	229	5.0	0.90	6	30	< 0.5	2	0.01	< 0.5	23	120	2240	3.47	< 10	< 1	0.49	30	0.08	25	171
564396 H	299	229	5.2	1.07	18	30	< 0.5	2	0.02	< 0.5	29	167	2450	4.27	< 10	< 1	0.57	30	0.09	40	183
564397 H	299	229	4.0	1.39	4	50	< 0.5	4	0.01	< 0.5	21	184	1410	3.95	< 10	< 1	0.80	30	0.14	40	110
564398 H	299	229	3.6	1.44	12	30	< 0.5	2	0.01	< 0.5	27	159	1840	5.83	< 10	< 1	0.80	30	0.15	40	85
564399 H	299	229	6.4	1.30	20	30	< 0.5	2	0.02	1.0	28	175	3470	6.14	< 10	< 1	0.71	40	0.11	35	377
564400 H	299	229	6.2	1.34	22	40	< 0.5	2	0.02	< 0.5	22	151	3150	5.29	< 10	< 1	0.71	40	0.10	35	356
564401 H	299	229	5.8	1.12	114	20	< 0.5	2	0.03	< 0.5	37	115	3200	8.39	< 10	< 1	0.62	30	0.08	35	387
564402 H	299	229	5.6	1.11	18	20	< 0.5	6	0.03	< 0.5	18	157	4060	5.35	< 10	< 1	0.56	30	0.11	30	284
564403 H	299	229	5.8	1.17	4	40	< 0.5	2	0.02	< 0.5	25	91	3820	3.62	< 10	< 1	0.61	20	0.13	30	290
564404 H	299	229	5.6	1.12	12	30	< 0.5	2	0.01	< 0.5	26	97	4180	5.49	< 10	< 1	0.64	30	0.12	30	322
564405 H	299	229	6.4	1.44	18	40	< 0.5	4	0.02	< 0.5	35	166	5290	4.49	< 10	< 1	0.74	30	0.14	40	157
564406 H	299	229	6.0	1.56	84	60	< 0.5	4	0.07	< 0.5	24	114	4270	4.37	< 10	< 1	0.77	30	0.16	115	188
564407 H	299	229	4.8	1.11	8	110	< 0.5	2	0.03	< 0.5	18	140	3760	2.61	10	< 1	0.60	30	0.12	35	96
564408 H	299	229	4.8	1.50	12	80	< 0.5	2	0.06	< 0.5	17	94	3660	2.45	< 10	< 1	0.58	40	0.15	40	231
564409 H	299	229	4.0	1.59	20	150	< 0.5	2	0.14	< 0.5	16	83	2660	2.67	< 10	< 1	0.54	30	0.26	335	201
564410 H	299	229	5.2	1.52	28	30	< 0.5	2	0.07	< 0.5	24	77	3540	4.12	< 10	< 1	0.55	30	0.12	35	220
564411 H	299	229	7.2	1.98	16	30	< 0.5	2	0.12	0.5	31	86	4590	5.17	< 10	< 1	0.68	40	0.15	40	237
564412 H	299	229	5.6	1.83	20	40	< 0.5	4	0.11	0.5	28	109	3390	5.06	< 10	< 1	0.76	30	0.17	80	148
564413 H	299	229	4.6	1.69	2	80	< 0.5	2	0.14	0.5	19	107	2620	3.82	< 10	< 1	0.76	40	0.18	55	216
564414 H	299	229	4.8	1.97	8	120	< 0.5	2	0.16	1.0	25	128	2810	3.71	< 10	< 1	0.69	40	0.29	340	136
564415 H	299	229	5.0	1.26	16	90	< 0.5	6	0.19	< 0.5	27	104	2490	4.63	< 10	< 1	0.56	40	0.30	650	115
564416 H	299	229	4.8	1.80	30	40	< 0.5	4	0.07	0.5	20	115	3010	4.47	< 10	< 1	0.82	20	0.20	45	111
564417 H	299	229	4.8	1.47	12	60	< 0.5	6	0.11	< 0.5	22	92	2470	4.77	< 10	< 1	0.61	40	0.14	35	170
564418 H	299	229	3.8	2.11	12	30	< 0.5	4	0.06	0.5	18	153	2570	5.15	< 10	< 1	0.85	20	0.21	40	190
564419 H	299	229	4.0	1.92	18	30	< 0.5	2	0.07	< 0.5	20	106	2950	3.94	< 10	< 1	0.63	30	0.17	125	286
564420 H	299	229	3.6	1.06	22	20	< 0.5	2	0.14	< 0.5	24	68	1880	6.31	< 10	< 1	0.43	30	0.14	315	168
564421 H	299	229	3.6	1.12	22	50	< 0.5	2	0.07	< 0.5	21	72	2150	4.15	< 10	< 1	0.51	30	0.13	70	177
564422 H	299	229	11.8	1.25	48	40	< 0.5	4	0.10	< 0.5	27	70	7870	4.82	< 10	< 1	0.66	20	0.14	95	208
564423 H	299	229	3.8	1.37	16	30	< 0.5	2	0.09	< 0.5	19	79	2090	5.13	< 10	< 1	0.59	40	0.20	50	129
564424 H	299	229	3.4	1.69	10	50	< 0.5	6	0.09	< 0.5	13	108	2210	4.41	< 10	< 1	0.79	60	0.21	40	112
564425 H	299	229	2.8	1.56	8	50	< 0.5	4	0.10	< 0.5	17	130	1680	3.76	< 10	< 1	0.66	30	0.19	40	67
564426 H	299	229	3.8	1.28	16	40	< 0.5	8	0.09	< 0.5	18	117	2080	4.70	< 10	< 1	0.59	40	0.15	90	158
564427 H	299	229	2.6	1.34	6	80	< 0.5	4	0.04	< 0.5	15	159	1635	3.17	< 10	< 1	0.57	30	0.14	30	123
564428 H	299	229	2.6	1.37	6	70	< 0.5	2	0.07	< 0.5	14	132	1880	3.52	< 10	< 1	0.65	20	0.17	95	106
564429 H	299	229	2.0	1.39	6	60	< 0.5	4	0.06	< 0.5	19	155	1460	4.50	< 10	< 1	0.62	20	0.17	30	181
564430 H	299	229	2.2	1.18	22	40	< 0.5	2	0.06	< 0.5	22	112	1815	5.28	< 10	< 1	0.55	30	0.14	25	165

CERTIFICATION: Jhai D'Ma

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Project : CASINO 169
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-JUL-93
Invoice No. :19317169
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CERTIFICATE OF ANALYSIS A9317169

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564391 H	299	229	0.01	6	90	8	2	1	32	< 0.01	< 10	< 10	8	< 10	16
564392 H	299	229	0.01	4	50	8	< 2	1	16	0.01	< 10	< 10	6	< 10	14
564393 H	299	229	0.01	8	60	6	< 2	2	10	< 0.01	< 10	< 10	9	< 10	24
564394 H	299	229	0.01	6	100	12	< 2	1	21	< 0.01	< 10	< 10	7	10	22
564395 H	299	229	0.01	5	100	8	< 2	1	29	< 0.01	< 10	< 10	8	< 10	18
564396 H	299	229	0.01	6	310	14	12	3	53	0.01	< 10	< 10	9	< 10	28
564397 H	299	229	0.01	7	120	4	4	2	27	0.01	< 10	< 10	13	< 10	22
564398 H	299	229	0.01	6	140	12	< 2	2	21	< 0.01	< 10	< 10	12	< 10	26
564399 H	299	229	0.01	7	200	8	< 2	2	37	< 0.01	< 10	< 10	11	< 10	66
564400 H	299	229	0.01	5	290	4	< 2	2	27	< 0.01	< 10	< 10	9	< 10	36
564401 H	299	229	0.01	8	290	8	< 2	2	15	< 0.01	< 10	< 10	10	< 10	38
564402 H	299	229	0.01	7	430	16	2	3	84	< 0.01	< 10	< 10	9	< 10	30
564403 H	299	229	0.01	4	350	4	< 2	2	48	< 0.01	< 10	< 10	9	< 10	36
564404 H	299	229	0.01	5	250	6	< 2	2	32	< 0.01	< 10	< 10	8	< 10	30
564405 H	299	229	0.01	7	280	12	4	4	52	< 0.01	< 10	< 10	14	< 10	32
564406 H	299	229	0.01	6	450	6	< 2	3	34	< 0.01	< 10	< 10	16	< 10	38
564407 H	299	229	0.01	6	250	8	< 2	3	84	< 0.01	< 10	< 10	11	< 10	18
564408 H	299	229	0.01	7	710	4	< 2	4	42	< 0.01	< 10	< 10	17	< 10	26
564409 H	299	229	0.01	6	670	6	2	3	17	< 0.01	< 10	< 10	24	< 10	38
564410 H	299	229	0.01	7	680	8	< 2	4	51	< 0.01	< 10	< 10	23	< 10	34
564411 H	299	229	0.01	9	820	6	< 2	5	33	< 0.01	< 10	< 10	35	< 10	48
564412 H	299	229	0.01	7	770	4	< 2	2	37	< 0.01	< 10	< 10	19	< 10	40
564413 H	299	229	0.01	7	770	4	< 2	3	17	< 0.01	< 10	< 10	19	< 10	32
564414 H	299	229	0.01	5	700	6	< 2	4	17	< 0.01	< 10	< 10	31	< 10	50
564415 H	299	229	0.01	4	650	10	< 2	3	7	< 0.01	10	< 10	19	< 10	38
564416 H	299	229	0.01	6	660	4	< 2	2	19	< 0.01	< 10	< 10	19	< 10	28
564417 H	299	229	0.01	6	710	8	< 2	2	10	< 0.01	< 10	< 10	15	< 10	34
564418 H	299	229	0.01	7	690	8	< 2	3	44	< 0.01	< 10	< 10	17	< 10	30
564419 H	299	229	0.01	7	900	16	< 2	6	57	< 0.01	< 10	< 10	24	< 10	42
564420 H	299	229	0.01	6	660	8	< 2	3	10	< 0.01	< 10	< 10	17	< 10	38
564421 H	299	229	0.01	6	570	8	< 2	2	33	< 0.01	< 10	< 10	10	< 10	32
564422 H	299	229	0.01	5	570	6	< 2	2	21	< 0.01	< 10	< 10	12	< 10	28
564423 H	299	229	0.01	7	560	4	< 2	2	16	< 0.01	< 10	< 10	13	30	24
564424 H	299	229	0.01	5	630	10	< 2	3	19	< 0.01	< 10	< 10	17	570	28
564425 H	299	229	0.01	6	710	8	< 2	2	14	< 0.01	10	< 10	15	< 10	26
564426 H	299	229	0.01	6	600	4	< 2	2	12	< 0.01	< 10	< 10	13	20	22
564427 H	299	229	0.01	6	550	4	< 2	2	22	< 0.01	< 10	< 10	13	< 10	20
564428 H	299	229	0.01	5	540	4	< 2	2	17	< 0.01	< 10	< 10	11	< 10	18
564429 H	299	229	0.01	6	590	2	< 2	2	14	< 0.01	< 10	< 10	11	< 10	20
564430 H	299	229	0.01	5	550	6	< 2	2	27	< 0.01	< 10	< 10	9	< 10	26

CERTIFICATION: Jhai D'Ma

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Page : 3-A
Total P : 3
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564431 H	299	229	2.6	0.82	14	30	< 0.5	4	0.14	< 0.5	18	63	2010	5.64	< 10	< 1	0.42	30	0.15	285	155
564432 H	299	229	1.4	0.83	2	30	< 0.5	2	0.28	< 0.5	15	88	1105	5.03	< 10	< 1	0.40	30	0.19	315	148
564433 H	299	229	2.4	0.87	14	20	< 0.5	2	0.22	< 0.5	19	61	2100	5.96	< 10	< 1	0.44	20	0.26	410	195
564434 H	299	229	2.0	0.83	8	60	< 0.5	2	0.20	< 0.5	18	75	1410	5.08	< 10	< 1	0.42	30	0.15	290	221
564435 H	299	229	2.2	0.80	12	60	< 0.5	2	0.23	< 0.5	29	54	1860	5.54	< 10	< 1	0.40	20	0.18	275	158
564436 H	299	229	3.8	0.89	14	70	< 0.5	2	0.24	0.5	29	92	2930	4.37	< 10	< 1	0.41	30	0.13	150	222
564437 H	299	229	2.6	0.71	6	60	< 0.5	< 2	0.74	< 0.5	23	62	1995	4.08	< 10	< 1	0.35	40	0.34	420	222
564438 H	299	229	2.6	0.70	18	60	< 0.5	< 2	0.80	< 0.5	19	70	1945	3.88	< 10	< 1	0.35	30	0.35	195	142
564439 H	299	229	2.6	0.46	10	30	< 0.5	4	0.73	< 0.5	28	48	1795	5.04	< 10	< 1	0.28	20	0.29	140	132
564440 H	299	229	1.8	0.49	6	40	< 0.5	2	0.44	< 0.5	18	78	1640	4.45	< 10	< 1	0.28	30	0.18	140	115
564441 H	299	229	3.4	0.60	12	60	< 0.5	4	0.39	< 0.5	19	81	2670	3.75	< 10	< 1	0.32	30	0.18	170	218
564442 H	299	229	1.6	0.72	4	70	< 0.5	< 2	0.82	< 0.5	16	93	1400	3.21	< 10	< 1	0.35	20	0.42	135	285
564443 H	299	229	2.0	0.96	2	70	< 0.5	4	0.92	< 0.5	17	64	1805	3.83	< 10	< 1	0.35	30	0.62	150	89
564444 H	299	229	1.6	1.03	6	70	< 0.5	2	0.90	< 0.5	13	96	1565	4.12	< 10	< 1	0.40	30	0.58	145	81
564445 H	299	229	1.6	0.99	2	80	< 0.5	2	1.05	< 0.5	12	57	1415	3.57	< 10	< 1	0.34	30	0.59	155	79
564446 H	299	229	4.2	0.68	18	20	< 0.5	4	0.64	< 0.5	30	79	3340	6.94	< 10	< 1	0.35	20	0.27	105	267
564447 H	299	229	4.2	0.74	42	30	< 0.5	4	0.61	0.5	28	64	3770	5.99	< 10	< 1	0.35	20	0.28	100	265
564448 H	299	229	6.4	0.81	50	20	< 0.5	2	0.82	0.5	31	87	5440	8.26	< 10	< 1	0.35	20	0.42	125	322
564449 H	299	229	5.0	0.59	146	10	< 0.5	2	0.84	1.0	41	50	5420	9.48	< 10	< 1	0.26	20	0.44	115	107
564450 H	299	229	2.4	0.64	20	20	< 0.5	4	0.71	< 0.5	29	76	2710	6.58	< 10	< 1	0.31	30	0.32	80	258
564451 H	299	229	1.8	0.64	18	40	< 0.5	2	0.70	< 0.5	14	69	1545	5.15	< 10	< 1	0.35	20	0.33	80	101
564452 H	299	229	3.6	0.57	74	30	< 0.5	4	0.48	< 0.5	35	59	3590	5.80	< 10	< 1	0.32	40	0.22	85	1145
564453 H	299	229	3.2	0.58	6	40	< 0.5	2	0.83	< 0.5	37	90	3560	4.80	< 10	< 1	0.30	30	0.31	175	349
564454 H	299	229	1.2	0.69	6	40	< 0.5	< 2	0.97	< 0.5	16	58	1205	3.62	< 10	< 1	0.30	20	0.32	90	115
564455 H	299	229	1.6	0.96	4	40	< 0.5	2	1.25	< 0.5	17	70	1840	4.26	< 10	< 1	0.34	30	0.51	140	101
564456 H	299	229	1.2	0.55	4	50	< 0.5	2	1.36	< 0.5	18	59	1220	3.87	< 10	< 1	0.25	20	0.56	155	147
564457 H	299	229	1.2	0.84	6	80	< 0.5	< 2	1.19	< 0.5	12	96	1245	3.48	< 10	< 1	0.39	30	0.57	115	222
564458 H	299	229	1.8	0.76	18	40	< 0.5	4	1.03	< 0.5	22	66	2090	3.95	< 10	< 1	0.36	30	0.53	105	303
564459 H	299	229	2.0	0.94	14	80	< 0.5	2	0.92	< 0.5	17	88	2100	3.83	< 10	< 1	0.50	40	0.52	125	235
564460 H	299	229	1.8	0.64	12	60	< 0.5	< 2	1.43	< 0.5	15	73	1625	3.57	< 10	< 1	0.29	40	0.51	160	113
564461 H	299	229	2.2	0.58	14	30	< 0.5	< 2	2.05	< 0.5	18	68	1890	3.13	< 10	< 1	0.24	20	0.80	195	113
564462 H	299	229	1.6	0.62	4	80	< 0.5	2	1.59	< 0.5	26	50	1720	3.40	< 10	< 1	0.27	30	0.63	150	75
564463 H	299	229	1.2	0.73	2	60	< 0.5	2	1.73	< 0.5	12	68	1255	2.66	< 10	< 1	0.24	30	0.59	125	142
564464 H	299	229	1.2	0.49	6	50	< 0.5	< 2	1.48	< 0.5	19	46	1420	3.83	< 10	< 1	0.20	30	0.51	110	66
764 A	299	229	5.8	0.33	34	130	< 0.5	6	0.02	< 0.5	< 1	80	20	3.67	< 10	< 1	0.89	20	0.02	5	600
765 A	299	229	5.2	0.42	18	150	< 0.5	8	0.02	< 0.5	< 1	82	58	3.63	< 10	< 1	0.88	20	0.04	10	415
766 A	299	229	4.8	0.96	6	30	< 0.5	2	0.01	< 0.5	24	114	2210	3.50	< 10	< 1	0.53	30	0.09	25	153
767 A	299	229	4.4	1.21	14	90	< 0.5	2	0.20	< 0.5	24	112	2300	4.66	< 10	< 1	0.51	30	0.31	780	127
768 A	299	229	2.6	0.93	4	60	< 0.5	4	0.20	< 0.5	25	82	1780	5.09	< 10	< 1	0.47	20	0.19	260	164
769 A	299	229	1.4	1.00	< 2	40	< 0.5	4	1.19	< 0.5	17	99	1700	4.60	< 10	< 1	0.39	20	0.48	140	91

CERTIFICATION: John D'Mar

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 169
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page [illegible]er :3-B
Total P[illegible] :3
Certificate Date: 22-JUL-93
Invoice No. : I9317169
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317169

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564431 H	299	229	0.01	4	560	8	< 2	1	9	< 0.01	< 10	< 10	7	150	26
564432 H	299	229	0.01	4	460	4	< 2	1	15	< 0.01	< 10	< 10	8	10	32
564433 H	299	229	0.01	4	540	8	< 2	2	13	< 0.01	< 10	< 10	10	10	44
564434 H	299	229	0.01	3	450	6	< 2	2	7	< 0.01	< 10	< 10	9	< 10	26
564435 H	299	229	0.01	4	520	8	< 2	2	7	< 0.01	< 10	< 10	10	< 10	26
564436 H	299	229	0.01	5	530	8	2	2	15	< 0.01	< 10	< 10	11	< 10	34
564437 H	299	229	0.01	3	500	8	< 2	2	13	< 0.01	< 10	< 10	9	10	34
564438 H	299	229	0.01	4	520	6	< 2	1	15	< 0.01	< 10	< 10	7	20	18
564439 H	299	229	< 0.01	4	470	8	< 2	1	16	< 0.01	< 10	< 10	3	< 10	20
564440 H	299	229	< 0.01	5	440	2	< 2	1	13	< 0.01	< 10	< 10	6	< 10	18
564441 H	299	229	< 0.01	3	530	4	< 2	1	37	< 0.01	< 10	< 10	8	< 10	22
564442 H	299	229	0.01	3	430	6	2	1	27	< 0.01	< 10	< 10	7	10	20
564443 H	299	229	0.01	4	450	8	< 2	2	28	< 0.01	< 10	< 10	14	< 10	26
564444 H	299	229	0.01	4	420	8	< 2	2	25	< 0.01	< 10	< 10	16	60	24
564445 H	299	229	0.02	5	450	6	< 2	2	28	< 0.01	< 10	< 10	20	< 10	24
564446 H	299	229	0.01	7	390	44	< 2	1	14	< 0.01	< 10	< 10	7	460	24
564447 H	299	229	0.01	7	400	18	< 2	1	16	< 0.01	< 10	< 10	9	10	26
564448 H	299	229	0.01	6	360	18	< 2	2	22	< 0.01	< 10	< 10	10	10	40
564449 H	299	229	0.01	5	470	22	< 2	1	22	< 0.01	< 10	< 10	6	< 10	60
564450 H	299	229	0.01	5	420	8	< 2	1	25	< 0.01	< 10	< 10	9	20	26
564451 H	299	229	0.01	2	390	8	< 2	1	14	< 0.01	< 10	< 10	7	< 10	18
564452 H	299	229	0.01	5	460	4	2	1	11	< 0.01	< 10	< 10	4	10	20
564453 H	299	229	0.01	4	460	6	< 2	1	14	< 0.01	< 10	< 10	7	10	22
564454 H	299	229	0.01	3	440	8	< 2	1	62	< 0.01	< 10	< 10	11	< 10	18
564455 H	299	229	0.01	4	460	12	2	2	78	< 0.01	< 10	< 10	20	< 10	26
564456 H	299	229	0.01	3	420	8	2	2	29	< 0.01	< 10	< 10	12	10	20
564457 H	299	229	0.01	4	460	6	< 2	3	42	< 0.01	< 10	< 10	19	< 10	24
564458 H	299	229	0.01	5	460	8	< 2	2	65	< 0.01	< 10	< 10	14	30	26
564459 H	299	229	0.01	4	470	8	2	2	22	< 0.01	< 10	< 10	12	< 10	28
564460 H	299	229	0.01	6	510	8	< 2	3	19	< 0.01	< 10	< 10	16	< 10	24
564461 H	299	229	0.01	6	440	8	< 2	3	35	< 0.01	< 10	< 10	17	< 10	40
564462 H	299	229	0.01	7	490	14	< 2	2	49	< 0.01	< 10	< 10	12	< 10	24
564463 H	299	229	0.02	4	460	6	< 2	3	80	< 0.01	< 10	< 10	21	< 10	22
564464 H	299	229	0.01	6	430	8	< 2	1	51	< 0.01	< 10	< 10	9	< 10	22
764 A	299	229	0.01	2	170	28	< 2	1	8	0.02	< 10	< 10	8	< 10	6
765 A	299	229	0.02	1	490	14	< 2	1	44	< 0.01	< 10	< 10	6	< 10	10
766 A	299	229	0.01	6	120	8	< 2	1	29	< 0.01	< 10	< 10	8	< 10	16
767 A	299	229	0.01	6	660	6	< 2	2	8	< 0.01	< 10	< 10	19	< 10	42
768 A	299	229	0.01	4	510	8	< 2	2	7	< 0.01	< 10	< 10	11	< 10	24
769 A	299	229	0.02	6	440	6	< 2	2	78	< 0.01	< 10	< 10	24	< 10	26

CERTIFICATION: Jhai D'Ma

Chemex Labs Ltd.

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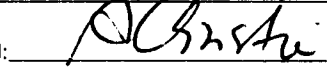
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : :1
Total Pages :3
Certificate Date: 16-JUL-93
Invoice No. : I9317004
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317004

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573270H	208	276	0.04	0.002	0.10	8820						
573271H	208	276	0.04	< 0.001	0.10	10960						
573272H	208	274	0.04	< 0.001	0.07	6640						
573273H	208	276	0.10	0.003	0.17	7320						
573274H	208	276	0.09	0.001	0.21	9150						
573275H	208	276	0.12	0.002	0.14	10120						
573276H	208	276	0.15	0.001	0.17	11540						
573277H	208	276	0.20	0.004	0.24	10360						
573278H	208	276	0.05	0.002	< 0.03	8140						
573279H	208	276	0.16	0.002	0.03	8260						
573280H	208	276	0.03	0.001	0.03	8620						
573281H	208	276	0.12	0.001	0.03	8420						
573282H	208	276	0.07	0.002	0.14	7580						
573283H	208	274	0.09	0.002	0.07	7180						
573284H	208	276	0.06	0.001	0.07	8120						
573285H	208	276	0.04	0.001	< 0.03	10300						
573286H	208	273	0.05	0.001	0.07	13100						
573287H	208	274	0.06	0.002	< 0.03	2760						
573288H	208	276	0.07	0.001	0.03	10460						
573289H	208	276	0.08	0.002	0.03	7520						
573290H	208	276	0.14	0.004	0.17	7320						
573291H	208	276	0.09	0.003	0.07	11780						
573292H	208	276	0.08	0.003	0.10	9960						
573293H	208	276	0.08	0.005	0.17	9300						
573294H	208	276	0.13	0.002	0.10	10320						
573295H	208	273	0.12	0.002	0.17	13380						
573296H	208	276	0.19	0.003	0.24	11140						
573297H	208	276	0.11	0.002	0.31	8180						
573298H	208	276	0.12	0.004	0.10	7960						
573299H	208	276	0.12	0.004	0.17	11680						
573300H	208	276	0.09	0.039	0.10	9380						
573301H	208	276	0.07	0.005	0.07	11520						
573302H	208	276	0.11	0.004	0.10	8100						
573303H	208	276	0.09	0.005	0.10	9350						
573304H	208	274	0.10	0.003	0.10	5700						
573305H	208	276	0.22	0.003	0.27	8280						
573306H	208	276	0.09	0.006	0.14	8840						
573307H	208	276	0.10	0.002	0.10	10460						
573308H	208	276	0.07	0.003	0.07	7800						
573309H	208	276	0.06	0.003	0.03	11080						

CERTIFICATION: 

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N r :2
Total P :3
Certificate Date: 16-JUL-93
Invoice No. : I9317004
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317004

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573310H	208	276	0.08	0.002	0.07	10820						
573311H	208	273	0.07	0.002	0.07	13560						
573312H	208	276	0.05	0.001	0.07	8540						
573313H	208	273	0.09	0.001	0.14	12200						
573314H	208	274	0.11	0.008	0.14	12480						
573315H	208	273	0.12	0.003	0.17	13800						
573316H	208	273	0.18	0.007	0.24	13000						
573317H	208	273	0.12	0.004	0.17	13340						
573318H	208	273	0.15	0.005	0.17	13380						
573319H	208	273	0.11	0.005	0.17	12720						
573320H	208	273	0.09	0.004	0.14	13260						
573321H	208	273	0.07	0.002	0.07	12960						
573322H	208	274	0.13	0.004	0.14	5420						
573323H	208	273	0.06	0.002	0.07	13400						
573324H	208	273	0.07	0.001	0.10	12720						
573325H	208	276	0.06	< 0.001	0.07	10700						
573326H	208	276	0.12	0.008	0.10	9360						
573327H	208	276	0.10	0.005	0.10	9540						
573328H	208	273	0.12	0.001	0.17	12020						
573329H	208	273	0.08	0.002	0.10	13200						
573330H	208	276	0.10	0.003	0.10	10700						
573331H	208	273	0.09	0.001	0.27	12420						
573332H	208	276	0.15	0.009	0.10	7540						
573333H	208	273	0.06	0.004	0.07	5200						
573334H	208	273	0.05	0.004	0.10	11960						
573335H	208	273	0.06	0.009	0.07	12700						
573336H	208	273	0.09	0.005	0.07	13760						
573337H	208	273	0.25	0.036	0.31	13880						
573338H	208	273	0.15	0.005	0.17	13700						
573339H	208	273	0.13	0.010	0.17	13040						
573340H	208	273	0.05	0.002	0.07	14880						
573341H	208	273	0.03	0.001	< 0.03	14780						
573342H	208	273	0.11	0.003	0.17	13840						
573343H	208	273	0.09	0.004	0.14	13840						
573344H	208	273	0.09	0.004	0.10	13660						
573345H	208	273	0.08	0.004	0.07	15580						
573346H	208	273	0.20	0.006	0.24	13860						
573347H	208	273	0.17	0.002	0.21	14100						
573348H	208	273	0.12	0.007	0.14	13360						
573349H	208	273	0.04	0.002	0.07	13120						

CERTIFICATION: D. Christie

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Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-JUL-93
Invoice No. : I9317004
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317004

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
573350H	208	273	0.10	0.003	0.10	12820
573351H	208	273	0.08	0.003	0.07	14080
573352H	208	273	0.07	0.006	0.07	13660
573353H	208	273	0.08	0.003	0.10	13380
573354H	208	273	0.11	0.006	0.07	14100
573355H	208	273	0.15	0.004	0.14	13580
573356H	208	273	0.10	0.003	0.10	13220
573357H	208	273	0.10	0.008	0.10	13040
573358H	208	276	0.06	0.009	0.10	10200
573359H	208	273	0.07	0.009	0.07	12120
573360H	208	273	0.08	0.015	0.07	13720
573361H	208	273	0.22	0.013	0.24	13320
573362H	208	273	0.10	0.006	0.14	13740
573363H	208	273	0.07	0.004	< 0.03	12730
573364H	208	273	0.06	0.005	0.03	12960
573365H	208	273	0.08	0.025	0.14	13040
573366H	208	276	0.09	0.011	0.07	11460
573367H	208	273	0.08	0.007	0.03	13240
573368H	208	276	0.13	0.028	0.17	8940
573369H	208	276	0.26	0.072	0.21	11580
573370H	208	273	0.24	0.008	0.24	12820
573371H	208	273	0.25	0.012	0.21	12520
573372H	208	273	0.17	0.007	0.17	14340
573373H	208	273	0.08	0.004	0.07	12900
573374H	208	273	0.14	0.002	0.14	12760
573375H	208	273	0.12	0.005	0.17	13380
573376H	208	276	0.12	0.004	0.10	9462
573377H	208	276	0.08	0.002	0.10	11300
573378H	208	273	0.06	0.001	0.07	12300
573379H	208	273	0.09	0.003	0.10	12960
573380H	208	273	0.06	0.002	0.07	12460
843A	208	274	0.05	0.001	0.07	6280
844A	208	274	0.09	0.005	0.14	5820
845A	208	274	0.11	0.005	0.10	5020
846A	208	274	0.15	0.003	0.17	6420
847A	208	274	0.08	0.004	0.10	6060

CERTIFICATION: D Christie

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :19317005
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317005

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573270H	299	229	0.4	2.00	44	180	0.5	< 2	0.20	0.5	9	89	403	3.49	10	< 1	0.51	10	1.35	120	13
573271H	299	229	0.4	2.68	48	520	0.5	< 2	0.17	< 0.5	10	78	427	4.19	10	< 1	0.71	10	1.71	130	4
573272H	299	229	0.4	2.08	< 2	180	< 0.5	< 2	0.20	0.5	9	40	505	2.82	< 10	< 1	0.64	< 10	1.27	100	7
573273H	299	229	0.6	3.65	16	340	0.5	6	0.39	0.5	22	72	1040	5.00	10	< 1	1.19	10	2.42	180	11
573274H	299	229	0.6	3.02	4	330	0.5	4	0.23	1.0	21	102	828	4.79	10	< 1	1.10	10	1.99	135	6
573275H	299	229	0.8	3.31	40	180	1.0	4	0.15	< 0.5	22	88	1155	5.78	10	< 1	1.59	10	2.65	170	10
573276H	299	229	0.4	2.28	28	170	< 0.5	< 2	0.20	< 0.5	28	115	1645	4.36	10	< 1	0.69	20	1.51	115	6
573277H	299	229	0.4	1.66	22	160	< 0.5	< 2	0.13	< 0.5	26	79	2010	4.28	< 10	< 1	0.66	20	1.10	95	22
573278H	299	229	0.2	0.44	< 2	200	< 0.5	< 2	0.07	< 0.5	9	177	571	1.34	< 10	< 1	0.25	20	0.03	15	11
573279H	299	229	0.2	0.75	4	140	0.5	< 2	0.27	2.0	11	114	1795	1.61	< 10	< 1	0.20	20	0.19	90	9
573280H	299	229	0.2	1.49	< 2	230	< 0.5	< 2	0.23	0.5	6	124	301	1.63	< 10	< 1	0.30	< 10	0.60	55	4
573281H	299	229	0.4	1.25	8	140	< 0.5	4	0.28	0.5	8	108	1210	1.88	< 10	< 1	0.20	10	0.53	70	3
573282H	299	229	0.6	2.06	66	420	0.5	4	0.22	0.5	15	139	722	3.39	10	< 1	0.72	10	1.37	120	8
573283H	299	229	1.0	3.17	28	360	< 0.5	< 2	0.63	1.0	23	117	981	5.03	10	< 1	1.00	10	2.32	205	8
573284H	299	229	0.2	2.04	20	440	< 0.5	< 2	0.51	0.5	13	129	616	2.89	10	< 1	0.56	10	1.32	135	6
573285H	299	229	< 0.2	1.06	14	130	< 0.5	< 2	0.34	< 0.5	9	85	469	1.79	< 10	< 1	0.15	< 10	0.44	70	5
573286H	299	229	0.4	1.81	106	290	< 0.5	< 2	0.64	< 0.5	16	126	575	2.74	< 10	< 1	0.64	10	1.21	185	4
573287H	299	229	0.2	1.05	12	80	< 0.5	< 2	0.27	< 0.5	12	91	598	1.89	< 10	< 1	0.18	< 10	0.41	75	9
573288H	299	229	< 0.2	2.41	8	380	< 0.5	6	0.63	0.5	18	139	734	3.86	10	< 1	0.61	10	1.75	190	4
573289H	299	229	0.4	2.01	16	220	< 0.5	< 2	0.69	2.0	20	117	838	4.51	10	< 1	0.60	10	1.57	190	7
573290H	299	229	0.2	2.54	20	210	< 0.5	< 2	0.64	2.0	32	107	1565	7.77	10	< 1	1.10	10	1.88	165	33
573291H	299	229	0.2	1.72	< 2	340	< 0.5	< 2	0.86	3.0	21	119	900	4.04	10	< 1	0.60	10	1.32	230	20
573292H	299	229	0.2	1.93	6	330	< 0.5	2	1.07	3.0	22	137	825	4.26	10	< 1	0.56	20	1.45	330	21
573293H	299	229	4.0	1.09	72	110	< 0.5	< 2	2.70	5.0	19	130	764	3.79	10	< 1	0.32	10	1.19	1085	29
573294H	299	229	7.2	1.59	40	100	< 0.5	16	1.76	12.5	20	164	1370	4.68	10	< 1	0.40	10	1.38	420	10
573295H	299	229	1.8	1.89	22	100	< 0.5	< 2	1.33	1.5	23	108	1260	4.79	10	< 1	0.48	20	1.56	450	6
573296H	299	229	0.6	3.48	< 2	200	< 0.5	4	0.94	0.5	21	101	1855	4.50	10	< 1	1.32	10	2.82	205	8
573297H	299	229	1.8	2.51	1460	80	< 0.5	4	1.58	1.5	23	93	1080	5.65	10	< 1	1.07	10	2.23	1230	6
573298H	299	229	4.4	2.13	28	130	< 0.5	8	1.72	4.5	25	103	1215	5.25	10	< 1	0.86	10	1.78	525	17
573299H	299	229	0.6	1.26	< 2	130	< 0.5	< 2	1.91	0.5	20	88	1190	3.41	< 10	< 1	0.45	10	1.16	290	20
573300H	299	229	3.0	1.04	24	110	< 0.5	4	1.59	1.5	15	108	891	2.28	< 10	< 1	0.21	10	0.78	155	207
573301H	299	229	0.4	0.87	26	140	< 0.5	< 2	1.88	< 0.5	17	77	728	2.30	< 10	< 1	0.20	10	0.56	245	18
573302H	299	229	1.0	1.23	20	110	< 0.5	2	2.54	3.0	27	129	1095	3.61	10	< 1	0.38	10	1.21	475	21
573303H	299	229	0.4	1.67	8	250	< 0.5	2	1.18	< 0.5	14	130	964	2.78	10	< 1	0.56	10	1.22	120	26
573304H	299	229	0.2	1.84	12	240	< 0.5	< 2	0.94	< 0.5	17	124	1055	3.84	10	< 1	0.45	10	1.40	140	17
573305H	299	229	0.8	2.01	18	200	< 0.5	2	0.82	< 0.5	16	81	2270	3.69	10	< 1	0.47	10	1.64	165	15
573306H	299	229	0.2	1.89	< 2	320	< 0.5	6	0.84	< 0.5	15	132	977	3.30	10	< 1	0.62	10	1.53	155	43
573307H	299	229	0.4	1.87	6	230	< 0.5	< 2	0.62	0.5	18	94	971	3.67	10	< 1	0.60	10	1.55	170	13
573308H	299	229	0.2	1.80	14	310	< 0.5	< 2	0.85	< 0.5	16	122	732	3.73	10	< 1	0.58	10	1.47	180	25
573309H	299	229	0.2	1.86	6	280	< 0.5	< 2	1.05	< 0.5	17	104	612	3.86	10	< 1	0.54	20	1.50	180	20

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :3
Certificate Date: 20-JUL-93
Invoice No. :19317005
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317005

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573270H	299	229	0.06	4	690	28	< 2	12	42	0.07	< 10	< 10	97	10	46
573271H	299	229	0.07	6	590	48	< 2	14	41	0.13	< 10	< 10	120	10	54
573272H	299	229	0.05	5	540	44	4	12	21	0.11	< 10	< 10	96	< 10	36
573273H	299	229	0.08	7	1060	36	2	23	29	0.25	< 10	< 10	212	10	54
573274H	299	229	0.06	7	880	20	2	19	30	0.18	< 10	< 10	163	10	66
573275H	299	229	0.06	7	660	10	2	25	21	0.23	< 10	< 10	194	10	92
573276H	299	229	0.05	7	730	12	< 2	12	14	0.09	< 10	< 10	102	< 10	86
573277H	299	229	0.03	5	570	12	< 2	9	13	0.06	< 10	< 10	73	< 10	110
573278H	299	229	0.03	3	120	2	< 2	< 1	7	< 0.01	< 10	< 10	2	< 10	44
573279H	299	229	0.04	5	240	22	< 2	1	15	< 0.01	< 10	< 10	8	< 10	116
573280H	299	229	0.08	3	340	34	2	3	22	0.05	< 10	< 10	42	< 10	32
573281H	299	229	0.07	2	300	14	< 2	1	20	< 0.01	< 10	< 10	23	< 10	72
573282H	299	229	0.07	7	520	46	2	15	18	0.10	< 10	< 10	79	10	82
573283H	299	229	0.12	7	900	280	< 2	21	34	0.23	< 10	< 10	175	20	116
573284H	299	229	0.12	5	570	6	< 2	13	32	0.17	< 10	< 10	87	10	50
573285H	299	229	0.10	3	300	14	< 2	1	28	0.04	< 10	10	24	< 10	30
573286H	299	229	0.12	7	420	8	4	9	34	0.10	< 10	10	82	10	58
573287H	299	229	0.07	2	280	16	< 2	< 1	20	< 0.01	< 10	10	14	< 10	56
573288H	299	229	0.12	4	620	4	< 2	13	31	0.16	< 10	< 10	126	10	72
573289H	299	229	0.08	7	690	20	< 2	12	23	0.12	< 10	< 10	111	10	184
573290H	299	229	0.11	8	760	4	< 2	18	28	0.18	< 10	< 10	144	20	78
573291H	299	229	0.05	7	770	< 2	4	9	22	0.09	< 10	< 10	85	10	126
573292H	299	229	0.06	7	850	14	< 2	12	27	0.09	< 10	10	101	20	254
573293H	299	229	0.02	9	850	198	4	6	36	0.01	< 10	10	52	20	434
573294H	299	229	0.04	8	1000	1505	2	7	38	0.02	< 10	< 10	74	20	1165
573295H	299	229	0.06	10	960	30	8	9	32	0.04	< 10	10	90	20	164
573296H	299	229	0.16	8	920	< 2	< 2	24	42	0.31	< 10	< 10	220	20	72
573297H	299	229	0.10	7	750	30	12	19	38	0.16	< 10	10	145	20	132
573298H	299	229	0.09	6	860	140	2	14	41	0.10	< 10	< 10	122	20	370
573299H	299	229	0.02	5	610	< 2	< 2	11	35	0.02	< 10	< 10	65	10	54
573300H	299	229	0.03	4	500	132	10	4	31	< 0.01	< 10	< 10	33	10	212
573301H	299	229	0.03	4	500	2	2	2	37	< 0.01	< 10	< 10	26	10	60
573302H	299	229	0.02	7	710	152	6	6	31	0.02	< 10	20	54	20	360
573303H	299	229	0.05	6	660	2	2	8	24	0.08	< 10	< 10	82	10	44
573304H	299	229	0.05	7	810	8	< 2	8	19	0.05	< 10	< 10	88	10	40
573305H	299	229	0.03	7	870	< 2	2	8	16	0.07	< 10	< 10	88	10	50
573306H	299	229	0.08	7	860	< 2	< 2	10	21	0.13	< 10	< 10	108	10	32
573307H	299	229	0.06	7	860	< 2	< 2	10	16	0.16	< 10	< 10	106	10	40
573308H	299	229	0.08	5	820	< 2	< 2	10	24	0.15	< 10	< 10	107	10	32
573309H	299	229	0.07	5	820	4	2	11	26	0.10	< 10	< 10	106	10	30

CERTIFICATION: Hart Bichler

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. : I9317005
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317005

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573310H	299	229	1.4	1.40	38	90	< 0.5	14	1.08	0.5	16	122	796	4.23	10	< 1	0.43	10	1.08	220	9
573311H	299	229	0.2	1.16	< 2	270	< 0.5	2	0.91	< 0.5	12	149	704	2.28	< 10	< 1	0.49	10	0.78	145	11
573312H	299	229	0.2	1.73	< 2	480	< 0.5	< 2	0.83	0.5	14	133	440	3.44	10	< 1	0.73	20	1.39	210	6
573313H	299	229	0.4	2.83	20	380	< 0.5	4	2.58	< 0.5	18	151	909	4.23	10	< 1	1.15	10	2.15	350	4
573314H	299	229	0.8	2.84	< 2	370	< 0.5	6	2.32	0.5	19	110	1080	4.01	10	< 1	1.13	10	2.38	300	38
573315H	299	229	0.4	3.07	< 2	290	< 0.5	4	1.86	1.0	22	147	1245	4.54	10	< 1	1.60	10	2.46	230	15
573316H	299	229	0.8	2.62	18	270	< 0.5	< 2	1.65	< 0.5	21	125	1905	4.59	10	< 1	1.47	20	2.00	205	38
573317H	299	229	0.2	3.05	4	250	< 0.5	< 2	2.26	< 0.5	19	154	1085	4.16	10	< 1	1.54	10	2.36	225	18
573318H	299	229	0.6	3.12	6	340	< 0.5	10	2.89	< 0.5	18	84	1470	4.32	10	< 1	1.46	20	2.26	255	25
573319H	299	229	0.4	2.99	2	440	< 0.5	6	1.36	< 0.5	18	151	1045	4.08	10	< 1	1.33	20	2.13	215	27
573320H	299	229	0.6	3.06	< 2	150	< 0.5	6	1.19	0.5	20	141	820	4.58	10	< 1	1.22	10	2.33	300	17
573321H	299	229	1.2	3.41	10	120	< 0.5	8	1.65	0.5	23	183	673	4.98	10	< 1	1.09	< 10	2.60	345	7
573322H	299	229	4.8	3.40	34	80	< 0.5	30	2.67	1.0	21	107	1310	5.37	10	< 1	0.83	10	2.14	440	21
573323H	299	229	0.4	3.34	10	620	< 0.5	< 2	2.10	< 0.5	23	153	598	4.46	10	< 1	1.27	10	2.31	330	13
573324H	299	229	0.4	4.27	< 2	360	< 0.5	< 2	3.11	0.5	29	143	754	4.89	10	< 1	1.32	10	2.43	365	6
573325H	299	229	< 0.2	4.38	8	420	< 0.5	< 2	1.92	< 0.5	23	135	645	5.08	10	< 1	1.56	10	2.68	305	4
573326H	299	229	2.2	3.25	12	280	< 0.5	< 2	1.71	< 0.5	22	88	1170	4.94	10	< 1	1.36	< 10	2.38	245	50
573327H	299	229	0.4	2.95	< 2	320	< 0.5	2	1.19	0.5	20	104	1000	5.18	10	< 1	1.23	< 10	2.20	205	34
573328H	299	229	0.4	4.05	2	500	< 0.5	< 2	1.55	0.5	25	90	1175	5.66	10	< 1	1.73	< 10	2.66	235	11
573329H	299	229	1.4	3.74	2	270	< 0.5	< 2	1.76	14.0	22	121	745	5.22	10	< 1	1.58	< 10	2.50	270	8
573330H	299	229	0.2	3.07	< 2	720	< 0.5	< 2	1.01	< 0.5	20	108	933	5.37	10	< 1	1.61	10	2.46	225	16
573331H	299	229	4.4	1.64	30	110	< 0.5	4	3.23	53.0	15	112	836	3.96	10	< 1	0.54	20	1.18	375	6
573332H	299	229	8.4	1.21	28	110	< 0.5	20	1.40	2.0	10	124	1540	3.23	10	< 1	0.36	40	0.75	110	49
573333H	299	229	0.4	1.25	< 2	200	< 0.5	6	2.00	< 0.5	13	173	626	2.27	< 10	< 1	0.54	10	0.74	135	20
573334H	299	229	< 0.2	3.17	< 2	270	< 0.5	4	2.12	0.5	16	87	539	4.68	10	< 1	1.41	20	2.28	205	12
573335H	299	229	0.4	1.40	4	130	< 0.5	< 2	1.58	1.0	16	144	628	3.18	10	< 1	0.47	20	1.00	110	51
573336H	299	229	0.4	2.23	12	160	< 0.5	6	1.89	< 0.5	21	92	914	4.14	10	< 1	0.94	20	1.91	165	23
573337H	299	229	0.8	4.64	< 2	70	< 0.5	8	2.94	0.5	31	92	2370	5.82	10	< 1	2.17	< 10	2.97	220	196
573338H	299	229	0.6	3.68	10	80	< 0.5	2	2.28	0.5	31	88	1450	5.27	10	< 1	1.85	10	2.92	245	25
573339H	299	229	0.4	2.63	16	60	< 0.5	4	1.83	< 0.5	26	114	1235	4.97	10	< 1	1.32	10	2.17	190	50
573340H	299	229	0.2	4.42	4	130	< 0.5	< 2	2.50	< 0.5	22	69	580	5.66	10	< 1	1.63	< 10	2.69	305	6
573341H	299	229	< 0.2	4.92	< 2	430	< 0.5	< 2	2.96	0.5	19	82	307	4.41	10	< 1	1.19	< 10	2.17	320	2
573342H	299	229	0.2	3.59	22	70	< 0.5	< 2	2.28	< 0.5	18	80	1025	4.53	10	< 1	1.65	< 10	2.68	240	12
573343H	299	229	0.4	3.95	< 2	60	< 0.5	< 2	2.74	0.5	20	133	907	4.36	10	< 1	1.06	< 10	3.10	285	22
573344H	299	229	0.8	3.93	< 2	200	< 0.5	6	3.47	1.0	16	151	901	3.39	10	< 1	0.96	< 10	2.66	305	13
573345H	299	229	1.0	0.74	12	120	< 0.5	< 2	1.50	0.5	8	186	837	1.63	< 10	< 1	0.34	10	0.52	130	23
573346H	299	229	0.8	5.40	< 2	70	< 0.5	12	3.49	0.5	19	79	1960	4.21	10	< 1	1.93	< 10	3.03	190	25
573347H	299	229	0.6	5.35	4	410	< 0.5	< 2	3.19	< 0.5	17	99	1460	4.28	10	< 1	1.57	< 10	2.58	230	5
573348H	299	229	0.4	4.65	< 2	330	< 0.5	< 2	2.88	0.5	17	78	1080	3.85	10	< 1	1.42	< 10	2.19	215	31
573349H	299	229	< 0.2	3.04	2	240	< 0.5	< 2	2.05	< 0.5	16	119	436	4.23	10	< 1	1.33	10	2.12	285	8

CERTIFICATION: Hart Bichler

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Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. :19317005
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CERTIFICATE OF ANALYSIS A9317005

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573310H	299	229	0.05	4	580	14	< 2	7	23	0.06	< 10	10	68	10	46
573311H	299	229	0.07	4	490	6	< 2	7	22	0.07	< 10	< 10	58	< 10	26
573312H	299	229	0.08	6	690	4	< 2	11	23	0.15	< 10	< 10	94	10	30
573313H	299	229	0.15	15	470	< 2	4	21	60	0.14	< 10	< 10	122	20	40
573314H	299	229	0.11	18	590	< 2	< 2	25	50	0.14	< 10	< 10	136	20	32
573315H	299	229	0.11	18	450	< 2	< 2	24	41	0.18	< 10	10	148	20	28
573316H	299	229	0.05	17	570	< 2	< 2	20	27	0.16	< 10	< 10	125	30	26
573317H	299	229	0.04	17	540	< 2	< 2	24	33	0.15	< 10	10	133	20	32
573318H	299	229	0.13	11	740	< 2	< 2	23	60	0.19	< 10	< 10	160	20	28
573319H	299	229	0.17	13	650	8	< 2	18	54	0.23	< 10	< 10	151	20	32
573320H	299	229	0.18	17	920	< 2	2	17	63	0.29	< 10	< 10	163	20	38
573321H	299	229	0.18	22	930	< 2	< 2	18	72	0.22	< 10	< 10	160	30	58
573322H	299	229	0.18	12	1240	26	< 2	16	77	0.17	< 10	< 10	141	20	110
573323H	299	229	0.15	17	1020	< 2	< 2	20	67	0.21	< 10	< 10	152	20	44
573324H	299	229	0.27	21	970	14	< 2	17	138	0.24	< 10	< 10	157	40	48
573325H	299	229	0.32	18	1140	< 2	< 2	20	119	0.32	< 10	< 10	191	20	34
573326H	299	229	0.16	10	1100	12	2	18	62	0.23	< 10	< 10	169	20	46
573327H	299	229	0.15	8	970	< 2	< 2	18	55	0.24	< 10	< 10	171	20	32
573328H	299	229	0.23	11	1140	12	< 2	23	92	0.32	< 10	< 10	211	30	46
573329H	299	229	0.25	12	1140	696	< 2	20	100	0.28	< 10	< 10	191	30	1230
573330H	299	229	0.16	13	1020	< 2	< 2	21	50	0.31	< 10	< 10	184	20	38
573331H	299	229	0.04	10	640	276	< 2	10	43	0.06	< 10	< 10	74	30	4740
573332H	299	229	0.06	8	360	52	24	4	35	0.04	< 10	< 10	46	10	150
573333H	299	229	0.05	5	390	8	2	7	41	0.07	< 10	10	64	10	26
573334H	299	229	0.17	9	910	< 2	2	19	81	0.27	< 10	< 10	174	30	26
573335H	299	229	0.07	8	400	8	2	6	44	0.08	< 10	< 10	71	10	86
573336H	299	229	0.09	8	780	2	< 2	15	75	0.19	< 10	10	144	20	28
573337H	299	229	0.30	12	1180	< 2	< 2	25	137	0.36	< 10	< 10	246	40	34
573338H	299	229	0.20	12	1320	< 2	< 2	25	94	0.32	< 10	< 10	223	30	52
573339H	299	229	0.13	9	820	2	2	19	71	0.25	< 10	< 10	168	20	26
573340H	299	229	0.30	11	1250	2	< 2	17	139	0.37	< 10	< 10	210	30	52
573341H	299	229	0.37	12	1260	4	< 2	10	217	0.34	< 10	< 10	171	30	34
573342H	299	229	0.21	11	1080	< 2	< 2	22	104	0.33	< 10	< 10	196	30	28
573343H	299	229	0.19	26	1190	< 2	< 2	18	124	0.20	< 10	< 10	167	30	42
573344H	299	229	0.22	36	990	2	< 2	13	171	0.17	< 10	< 10	120	20	40
573345H	299	229	0.04	7	250	14	2	3	68	0.01	< 10	10	23	< 10	26
573346H	299	229	0.36	18	1390	< 2	< 2	22	228	0.33	< 10	< 10	194	30	36
573347H	299	229	0.43	8	1260	< 2	< 2	20	241	0.33	< 10	< 10	219	30	30
573348H	299	229	0.37	10	1100	2	< 2	17	208	0.31	< 10	< 10	185	20	26
573349H	299	229	0.23	8	1090	< 2	< 2	15	97	0.28	< 10	< 10	175	20	32

CERTIFICATION: Ian Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :3
Certificate Date: 20-JUL-93
Invoice No. :19317005
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317005

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573350H	299	229	0.2	4.45	4	210	< 0.5	< 2	2.80	0.5	23	86	1035	5.47	10	< 1	1.27	10	2.14	315	18
573351H	299	229	0.2	3.60	4	120	< 0.5	< 2	2.20	< 0.5	18	78	740	4.32	10	< 1	1.44	10	2.23	255	19
573352H	299	229	0.2	2.97	6	140	< 0.5	< 2	2.18	0.5	17	114	662	4.35	10	< 1	1.39	10	2.30	280	26
573353H	299	229	0.4	1.90	6	150	< 0.5	< 2	2.12	< 0.5	13	89	805	2.95	10	< 1	0.68	10	1.12	150	16
573354H	299	229	0.8	2.03	4	160	< 0.5	10	2.21	< 0.5	13	124	1095	3.10	< 10	< 1	0.88	10	1.32	190	27
573355H	299	229	0.8	1.85	2	120	< 0.5	4	1.66	0.5	14	185	1515	2.85	< 10	< 1	0.99	< 10	1.68	155	20
573356H	299	229	0.8	2.71	4	200	< 0.5	< 2	2.22	0.5	17	193	1010	3.73	10	< 1	1.29	10	2.40	260	21
573357H	299	229	0.4	2.19	2	140	< 0.5	< 2	2.13	< 0.5	16	157	968	3.05	< 10	< 1	0.85	10	1.78	190	45
573358H	299	229	0.4	2.62	16	80	< 0.5	4	2.75	< 0.5	18	174	636	4.53	10	< 1	0.94	10	2.38	505	48
573359H	299	229	0.4	2.01	2	130	< 0.5	< 2	2.26	1.5	15	106	670	3.79	10	< 1	0.85	10	1.90	280	62
573360H	299	229	0.4	1.86	4	40	< 0.5	4	1.89	< 0.5	35	146	792	5.37	10	< 1	0.63	10	1.77	190	88
573361H	299	229	0.8	2.20	16	160	< 0.5	2	2.16	< 0.5	22	177	2160	3.73	10	< 1	1.05	10	2.33	260	78
573362H	299	229	1.0	1.22	2	60	< 0.5	4	1.88	< 0.5	16	135	952	3.86	< 10	< 1	0.42	10	1.30	210	31
573363H	299	229	0.8	0.95	12	120	< 0.5	< 2	1.54	< 0.5	13	129	750	3.30	< 10	< 1	0.39	10	1.10	210	16
573364H	299	229	0.6	0.65	14	120	< 0.5	< 2	1.14	< 0.5	11	173	639	2.05	< 10	< 1	0.33	20	0.60	150	29
573365H	299	229	1.6	0.49	128	30	< 0.5	2	1.77	< 0.5	12	117	831	4.49	< 10	< 1	0.27	< 10	0.78	560	153
573366H	299	229	1.6	0.53	32	130	< 0.5	4	1.96	2.0	11	165	863	2.32	< 10	< 1	0.21	10	0.90	275	59
573367H	299	229	0.6	0.41	4	220	< 0.5	2	1.03	< 0.5	5	122	742	1.11	< 10	< 1	0.20	20	0.41	105	48
573368H	299	229	0.8	1.30	8	130	< 0.5	10	1.33	0.5	15	101	1260	3.15	< 10	< 1	0.70	10	1.29	150	146
573369H	299	229	1.2	0.94	4	170	< 0.5	14	1.20	< 0.5	15	79	2550	2.02	< 10	< 1	0.46	10	1.04	120	427
573370H	299	229	1.2	1.14	6	170	< 0.5	2	1.43	< 0.5	12	130	2310	1.94	< 10	< 1	0.47	10	0.91	120	48
573371H	299	229	1.4	0.77	4	120	< 0.5	4	1.55	< 0.5	15	120	2600	1.92	< 10	< 1	0.37	10	0.64	140	77
573372H	299	229	2.0	0.57	4	110	< 0.5	12	1.35	0.5	14	165	1760	2.05	< 10	< 1	0.27	< 10	0.65	150	34
573373H	299	229	0.2	1.33	2	230	0.5	< 2	1.16	< 0.5	10	130	775	2.06	< 10	< 1	0.71	10	0.95	120	26
573374H	299	229	1.4	1.53	8	160	0.5	2	2.06	4.5	15	113	1375	2.86	10	< 1	0.67	20	1.19	235	14
573375H	299	229	0.6	1.31	4	90	0.5	< 2	1.01	< 0.5	13	132	1325	2.12	10	< 1	0.52	30	0.95	115	43
573376H	299	229	1.2	1.29	44	110	< 0.5	< 2	1.45	0.5	12	97	1270	2.43	10	< 1	0.36	20	0.75	150	25
573377H	299	229	0.4	1.77	4	240	0.5	2	1.61	< 0.5	11	123	816	2.53	10	< 1	0.55	20	1.02	160	16
573378H	299	229	0.2	1.29	6	170	< 0.5	< 2	1.59	< 0.5	10	114	624	2.56	10	< 1	0.37	20	0.99	175	11
573379H	299	229	0.4	1.60	4	100	< 0.5	4	1.36	< 0.5	13	114	897	2.47	10	< 1	0.45	20	0.85	160	20
573380H	299	229	0.4	1.22	4	130	< 0.5	2	1.19	< 0.5	8	143	608	1.97	< 10	< 1	0.51	10	0.88	125	14
843A	299	229	0.2	0.86	14	90	< 0.5	< 2	0.29	0.5	11	64	570	1.51	< 10	< 1	0.13	< 10	0.38	70	8
844A	299	229	0.2	1.76	10	310	< 0.5	< 2	0.81	0.5	15	87	949	3.24	< 10	< 1	0.58	< 10	1.51	150	20
845A	299	229	1.0	2.80	10	420	< 0.5	2	1.46	< 0.5	23	77	1035	4.49	10	< 1	1.13	< 10	2.17	230	32
846A	299	229	0.6	5.21	14	100	< 0.5	8	3.38	1.0	18	65	1545	4.08	10	< 1	1.94	< 10	3.07	195	18
847A	299	229	1.6	0.48	26	110	< 0.5	6	2.29	1.0	11	120	852	2.46	< 10	< 1	0.21	10	1.05	290	40

CERTIFICATION: Jack Richler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

): ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO/170
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-JUL-93
Invoice No. : I9317005
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317005

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573350H	299	229	0.37	8	1490	< 2	< 2	14	192	0.33	< 10	10	201	30	36
573351H	299	229	0.27	11	1080	< 2	< 2	16	125	0.31	< 10	10	169	20	30
573352H	299	229	0.15	12	1080	< 2	< 2	18	95	0.29	< 10	< 10	177	20	32
573353H	299	229	0.12	6	830	2	2	9	107	0.11	< 10	< 10	85	10	22
573354H	299	229	0.13	11	790	8	< 2	13	120	0.13	< 10	10	101	10	28
573355H	299	229	0.10	25	380	< 2	< 2	13	105	0.10	< 10	10	80	10	26
573356H	299	229	0.14	26	590	2	< 2	18	109	0.15	< 10	< 10	122	20	42
573357H	299	229	0.14	17	630	< 2	2	12	114	0.12	< 10	< 10	92	10	28
573358H	299	229	0.16	24	850	2	2	20	197	0.17	< 10	< 10	148	20	46
573359H	299	229	0.11	13	720	24	2	16	101	0.12	< 10	< 10	112	20	98
573360H	299	229	0.08	16	740	< 2	2	13	64	0.10	< 10	< 10	98	20	38
573361H	299	229	0.07	29	650	2	2	20	63	0.13	< 10	< 10	120	20	42
573362H	299	229	0.04	9	630	< 2	4	6	112	0.03	< 10	< 10	55	20	36
573363H	299	229	0.03	24	540	4	2	4	60	0.01	< 10	10	28	10	42
573364H	299	229	0.02	21	430	< 2	2	2	40	< 0.01	< 10	< 10	15	< 10	24
573365H	299	229	0.01	19	380	6	12	2	36	< 0.01	< 10	< 10	12	10	30
573366H	299	229	0.01	10	300	20	2	3	46	< 0.01	< 10	< 10	20	10	150
573367H	299	229	0.02	6	190	12	2	1	57	< 0.01	< 10	10	11	< 10	40
573368H	299	229	0.05	10	630	16	2	13	40	0.11	< 10	< 10	83	10	38
573369H	299	229	0.04	12	580	< 2	4	9	42	0.06	< 10	10	65	< 10	26
573370H	299	229	0.02	14	430	< 2	< 2	7	53	0.04	< 10	< 10	47	< 10	34
573371H	299	229	0.02	16	400	8	2	3	40	0.02	< 10	10	24	< 10	24
573372H	299	229	0.01	13	310	10	2	3	25	< 0.01	< 10	10	16	< 10	44
573373H	299	229	0.03	15	370	4	< 2	9	41	0.10	< 10	10	54	< 10	18
573374H	299	229	0.03	21	620	10	< 2	9	48	0.08	< 10	< 10	52	10	460
573375H	299	229	0.03	20	250	2	< 2	6	27	0.06	< 10	10	42	< 10	22
573376H	299	229	0.04	17	320	< 2	8	4	45	0.04	< 10	< 10	34	10	36
573377H	299	229	0.04	15	420	2	< 2	8	75	0.08	< 10	< 10	58	10	24
573378H	299	229	0.03	15	520	2	2	6	61	0.06	< 10	< 10	56	< 10	24
573379H	299	229	0.05	19	390	8	< 2	6	53	0.06	< 10	< 10	41	10	24
573380H	299	229	0.05	16	450	2	< 2	7	33	0.09	< 10	< 10	53	10	18
843A	299	229	0.07	3	260	12	< 2	< 1	22	0.02	< 10	10	15	< 10	34
844A	299	229	0.06	7	840	< 2	< 2	10	18	0.13	< 10	< 10	105	10	30
845A	299	229	0.13	11	1050	6	< 2	16	52	0.21	< 10	< 10	153	20	34
846A	299	229	0.33	15	1320	< 2	< 2	23	217	0.34	< 10	< 10	205	30	30
847A	299	229	0.01	13	330	24	4	4	45	< 0.01	< 10	10	25	10	106

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 02-AUG-93
Invoice No. : I9317913
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317913

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569146	208 274	< 0.01	0.010	0.27	7000
569147	208 274	< 0.01	0.003	0.27	4560
569148	208 274	< 0.01	0.001	0.14	7040
569149	208 276	< 0.01	0.003	0.17	8260
569150	208 276	< 0.01	0.001	0.10	10960
569151	208 274	< 0.01	0.003	0.10	6680
569152	208 274	< 0.01	0.006	0.10	5000
569153	208 276	< 0.01	0.005	0.58	11260
569154	208 276	< 0.01	0.011	0.72	8500
569155	208 276	< 0.01	0.001	0.93	9680
569156	208 276	< 0.01	0.002	0.17	8800
569157	208 276	< 0.01	0.002	0.17	10980
569158	208 276	< 0.01	0.001	0.31	11300
569159	208 276	< 0.01	0.002	0.14	9600
569160	208 276	0.01	0.002	0.10	11140
569161	208 276	< 0.01	0.002	0.10	11120
569162	208 276	< 0.01	0.002	0.07	11460
569163	208 274	< 0.01	0.002	0.14	7160
569164	208 276	< 0.01	0.001	0.07	10920
569165	208 276	< 0.01	0.003	0.07	10780
569166	208 276	< 0.01	0.003	0.14	11300
569167	208 276	0.01	0.002	0.10	10060
569168	208 276	< 0.01	0.002	0.07	8440
569169	208 274	< 0.01	0.001	0.07	6020
569170	208 276	0.01	< 0.001	0.03	8080
569171	208 276	0.02	0.002	< 0.03	9620
569172	208 276	0.01	0.002	0.03	8960
569173	208 276	0.03	< 0.001	0.10	7860
569174	208 274	0.02	0.001	0.07	5640
569175	208 274	0.02	0.002	0.10	5640
569176	208 274	0.05	0.001	0.10	3780
569177	208 276	0.15	0.001	0.17	10280
569178	208 276	0.10	0.002	0.10	8620
569179	208 273	0.12	0.001	0.10	13720
569180	208 276	0.08	0.001	0.10	11800
569181	208 276	0.17	0.007	0.14	9840
569182	208 276	0.18	0.002	0.17	11680
569183	208 274	0.23	0.005	0.17	7080
569184	208 276	0.07	0.003	0.14	11140
569185	208 273	0.09	0.005	0.14	15820

CERTIFICATION: _____

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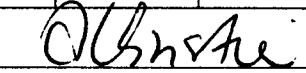
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 02-AUG-93
Invoice No. : I9317913
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317913

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569186	208	273	0.09	0.003	0.10	12000						
569187	208	273	0.05	0.002	0.10	13460						
569188	208	273	0.07	0.002	0.14	13620						
569189	208	276	0.12	0.003	0.14	10040						
569190	208	273	0.24	0.019	0.24	12120						
569191	208	276	0.19	0.006	0.21	11620						
569192	208	273	0.16	0.006	0.17	15700						
569193	208	273	0.13	0.008	0.17	13640						
569194	208	276	0.21	0.007	0.24	7580						
569195	208	273	0.17	0.004	0.21	13860						
569196	208	273	0.09	0.003	0.07	13120						
569197	208	273	0.09	0.002	< 0.03	12500						
569198	208	273	0.13	0.001	0.10	12520						
569199	208	273	0.09	0.001	0.07	11880						
569200	208	273	0.08	0.002	0.10	13300						
569201	208	273	0.10	0.001	0.21	13120						
569202	208	273	0.09	0.002	0.14	12500						
569203	208	276	0.10	0.005	0.14	11780						
569204	208	276	0.06	0.001	0.14	10840						
569205	208	276	0.04	0.001	0.03	11040						
569206	208	273	0.06	< 0.001	< 0.03	13100						
569207	208	273	0.15	0.001	< 0.03	13460						
569208	208	273	0.04	0.001	< 0.03	13840						
569209	208	273	0.03	0.001	< 0.03	13320						
569210	208	273	0.03	0.001	0.14	12400						
569211	208	273	0.06	0.002	0.07	13900						
569212	208	273	0.04	0.002	0.03	13780						
569213	208	273	0.08	0.001	0.10	13280						
569214	208	273	0.09	0.002	0.07	13640						
569215	208	273	0.06	0.001	< 0.03	14240						
569216	208	273	0.08	0.002	0.07	14600						
569217	208	273	0.11	0.003	0.41	14020						
569218	208	273	0.02	0.001	< 0.03	13440						
569219	208	276	0.04	0.001	< 0.03	11420						
569220	208	273	0.08	0.003	0.07	13500						
569221	208	273	0.11	0.006	0.07	14120						
569222	208	273	0.15	0.006	0.10	13900						
569223	208	273	0.11	0.004	0.10	14040						
569224	208	273	0.15	0.003	0.45	14320						
569225	208	273	0.15	0.003	0.41	13200						

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 02-AUG-93
Invoice No. : I9317913
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317913

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569226	208	273	0.10	0.003	0.07	13800						
569227	208	273	0.06	0.004	0.07	11840						
569228	208	273	0.04	0.002	0.10	12780						
569229	208	273	0.08	0.001	0.07	13300						
569230	208	273	0.10	0.003	0.10	13020						
569231	208	273	0.13	0.003	< 0.03	12760						
569232	208	273	0.08	0.002	< 0.03	12820						
569233	208	273	0.10	0.004	0.31	12840						
569234	208	273	0.12	0.003	0.07	14000						
569235	208	273	0.09	0.001	0.07	12440						
569236	208	273	0.03	0.001	< 0.03	14040						
569237	208	273	0.12	0.001	0.07	13880						
569238	208	273	0.10	0.001	0.07	14140						
569239	208	273	0.11	0.003	0.07	13280						
569240	208	273	0.15	0.004	0.10	13260						
569241	208	273	0.22	0.001	0.41	13920						
569242	208	273	0.14	0.004	0.07	13340						
569243	208	273	0.13	0.002	0.07	13660						
569244	208	273	0.04	0.002	< 0.03	13140						
569245	208	273	0.04	< 0.001	< 0.03	13000						
569246	208	276	0.08	0.001	0.14	11660						
569247	208	273	0.13	0.002	0.07	12960						
569248	208	273	0.10	0.002	0.10	13240						
569249	208	273	0.07	0.002	< 0.03	14500						
569250	208	273	0.06	0.003	0.07	13360						
569251	208	273	0.09	0.005	0.07	13320						
569252	208	273	0.08	0.003	0.07	14280						
569253	208	273	0.08	0.004	0.14	14020						
569254	208	273	0.09	0.004	0.10	13000						
569255	208	273	0.03	0.001	< 0.03	13080						
569256	208	276	0.08	0.001	< 0.03	11660						
569257	208	273	0.10	0.001	< 0.03	12000						
569258	208	273	0.05	0.002	0.07	12220						
569259	208	273	0.12	0.001	0.10	12920						
569260	208	273	0.06	< 0.001	0.21	13820						
569261	208	273	0.06	0.001	0.10	11840						
569262	208	273	0.08	0.005	0.10	13820						
569263	208	273	0.09	0.002	0.10	12720						
569264	208	273	0.17	0.009	0.17	13560						
569265	208	273	0.06	0.001	0.07	13180						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 02-AUG-93
Invoice No. :19317913
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317913

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569266	208	273	0.10	0.002	0.07	13600						
569267	208	273	0.03	0.001	0.03	13320						
569268	208	273	0.06	0.001	0.07	13580						
569269	208	273	0.08	0.001	0.03	12840						
569270	208	273	0.04	0.001	< 0.03	13220						
569271	208	273	0.04	0.001	0.03	13620						
569272	208	273	0.06	0.002	0.07	12220						
569273	208	273	0.04	0.002	< 0.03	13140						
569274	208	273	0.06	0.003	0.10	13560						
569275	208	273	0.05	0.003	0.07	13320						
569276	208	273	0.02	0.001	0.07	14340						
569277	208	273	0.04	0.007	0.03	13040						
569278	208	273	0.05	0.003	0.03	13000						
569279	208	273	0.04	0.002	< 0.03	13140						
569280	208	273	0.05	0.009	0.03	12620						
569281	208	273	0.06	0.004	< 0.03	13320						
569282	208	273	0.07	0.002	0.07	13280						
569283	208	273	0.07	0.002	0.17	14080						
569284	208	273	0.13	0.002	0.10	13580						
569285	208	273	0.05	0.001	0.03	13000						
569286	208	273	0.06	0.002	0.07	13120						
569287	208	273	0.21	0.026	0.07	13740						
569288	208	273	0.17	0.029	0.07	14600						
569289	208	273	0.25	0.022	0.07	13580						
569290	208	273	0.06	0.050	0.07	13620						
569291	208	273	0.17	0.040	0.07	13280						
569292	208	273	0.21	0.019	0.17	12840						
569293	208	273	0.34	0.037	0.17	14420						
569294	208	273	0.45	0.043	0.17	12260						
569295	208	273	0.32	0.038	0.17	13560						
569296	208	273	0.34	0.042	0.14	14280						
569297	208	273	0.32	0.029	0.07	14120						
569298	208	273	0.40	0.035	0.17	14080						
569299	208	273	0.32	0.027	0.10	14000						
569300	208	273	0.28	0.034	0.07	13040						
569301	208	273	0.10	0.020	< 0.03	13010						
569302	208	273	0.42	0.023	0.24	13480						
569303	208	273	0.15	0.023	0.03	13580						
569304	208	273	0.07	0.013	0.07	13680						
569305	208	273	0.31	0.015	0.10	13980						

CERTIFICATION: [signature]

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9317913

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569306	208	273	0.04	0.003	0.07	14160						
569307	208	273	0.20	0.003	0.14	15000						
569308	208	273	0.02	0.002	0.07	14380						
569309	208	273	0.04	0.002	0.34	13600						
569310	208	273	0.03	0.002	< 0.03	13380						
569311	208	273	0.02	0.003	< 0.03	13520						
569312	208	273	0.08	0.001	0.07	12920						
569313	208	273	0.20	0.002	0.07	12580						
569314	208	273	0.02	0.001	0.03	14060						
569315	208	273	0.01	0.005	0.07	13280						
569316	208	273	0.01	0.003	< 0.03	14680						
569317	208	273	0.10	0.001	0.07	13900						
569318	208	273	0.08	0.001	0.03	14260						
569319	208	273	0.02	0.002	0.03	13400						
569320	208	273	0.01	0.001	< 0.03	14300						
569321	208	273	0.08	0.008	0.03	14020						
569322	208	273	0.02	0.003	0.10	13940						
569323	208	273	0.02	0.004	< 0.03	14620						
569324	208	273	0.04	0.002	0.07	14780						
823	208	274	< 0.01	0.003	0.21	6400						
824	208	276	0.10	0.001	0.10	8760						
825	208	274	0.05	0.001	0.07	5960						

CERTIFICATION:

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :5
Certificate Date: 05-AUG-93
Invoice No. :I9317914
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317914

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569146	244	229	3.4	0.41	48	110	< 0.5	22	0.02	< 0.5	< 1	56	19	3.95	< 10	< 1	1.03	20	0.02	5	54
569147	244	229	7.8	0.40	14	200	< 0.5	2	0.01	< 0.5	2	111	9	1.80	< 10	< 1	0.54	10	0.01	10	17
569148	244	229	1.6	0.39	6	240	< 0.5	< 2	0.01	< 0.5	< 1	79	7	0.28	< 10	< 1	0.27	10	0.01	5	3
569149	244	229	0.8	0.44	8	940	< 0.5	2	0.02	< 0.5	< 1	135	8	0.58	< 10	< 1	0.31	10	0.02	10	12
569150	244	229	0.4	0.40	12	680	< 0.5	< 2	0.02	< 0.5	1	88	18	0.48	< 10	< 1	0.29	10	0.02	10	7
569151	244	229	1.2	0.37	14	300	< 0.5	< 2	0.01	< 0.5	< 1	97	11	0.78	< 10	< 1	0.29	10	0.01	5	16
569152	244	229	0.6	0.46	20	620	< 0.5	12	0.01	< 0.5	< 1	100	16	1.30	< 10	< 1	0.41	20	0.02	5	31
569153	244	229	1.2	0.45	36	230	< 0.5	4	0.01	< 0.5	1	83	17	2.55	< 10	< 1	0.72	10	0.02	5	27
569154	244	229	0.8	0.47	46	290	< 0.5	10	0.01	< 0.5	< 1	94	25	3.14	< 10	< 1	0.66	10	0.02	5	66
569155	244	229	1.4	0.56	24	340	< 0.5	2	0.01	< 0.5	< 1	142	23	2.33	< 10	< 1	0.61	10	0.03	10	10
569156	244	229	0.6	0.40	50	280	< 0.5	10	0.01	< 0.5	1	71	18	1.72	< 10	< 1	0.49	20	0.02	5	10
569157	244	229	0.8	0.84	26	340	< 0.5	4	0.01	< 0.5	1	154	32	2.44	< 10	< 1	0.75	20	0.05	10	12
569158	244	229	0.8	0.51	< 2	290	< 0.5	< 2	0.01	< 0.5	1	82	39	2.41	< 10	< 1	0.45	10	0.04	10	6
569159	244	229	1.0	0.50	28	190	< 0.5	4	0.01	< 0.5	2	92	31	3.70	< 10	< 1	0.87	10	0.05	10	10
569160	244	229	0.8	0.58	82	130	< 0.5	2	0.03	< 0.5	1	156	60	5.80	10	< 1	1.00	30	0.05	10	13
569161	244	229	0.4	0.51	30	250	< 0.5	< 2	0.02	< 0.5	< 1	96	36	2.67	10	< 1	0.50	20	0.03	10	9
569162	244	229	0.2	0.51	30	310	< 0.5	2	0.02	< 0.5	< 1	134	22	2.02	< 10	< 1	0.52	10	0.04	10	12
569163	244	229	0.8	0.57	2	600	< 0.5	2	0.02	< 0.5	1	89	23	0.89	10	< 1	0.40	20	0.04	5	10
569164	244	229	0.6	0.50	4	320	< 0.5	< 2	0.01	< 0.5	1	182	21	1.38	< 10	< 1	0.48	10	0.03	10	12
569165	244	229	0.6	0.52	12	690	< 0.5	< 2	0.01	< 0.5	< 1	112	23	1.25	< 10	< 1	0.36	10	0.04	10	19
569166	244	229	0.4	0.56	22	410	< 0.5	< 2	0.01	< 0.5	2	158	27	1.96	< 10	< 1	0.42	< 10	0.04	25	23
569167	244	229	0.4	0.68	20	170	< 0.5	2	0.02	< 0.5	6	100	42	2.77	< 10	< 1	0.53	10	0.07	15	15
569168	244	229	0.2	0.50	14	520	< 0.5	< 2	0.01	< 0.5	< 1	116	20	1.46	< 10	< 1	0.31	10	0.04	10	16
569169	244	229	0.6	0.67	12	120	< 0.5	< 2	0.01	< 0.5	7	75	16	1.57	< 10	< 1	0.35	10	0.04	5	7
569170	244	229	0.2	0.90	8	40	< 0.5	< 2	0.02	< 0.5	17	143	85	2.36	< 10	< 1	0.46	10	0.09	10	3
569171	244	229	< 0.2	0.90	14	10	< 0.5	2	0.02	< 0.5	40	43	252	5.91	< 10	< 1	0.43	10	0.09	5	17
569172	244	229	< 0.2	1.00	4	10	< 0.5	< 2	0.02	< 0.5	51	113	56	8.41	< 10	< 1	0.50	10	0.09	5	16
569173	244	229	0.4	0.79	4	20	< 0.5	< 2	0.02	< 0.5	27	88	322	5.29	10	< 1	0.37	10	0.07	10	4
569174	244	229	< 0.2	0.87	18	20	< 0.5	< 2	0.02	< 0.5	32	153	234	5.02	< 10	< 1	0.39	10	0.08	15	7
569175	244	229	0.4	0.99	6	10	< 0.5	< 2	0.03	< 0.5	60	62	242	7.22	< 10	< 1	0.49	10	0.09	5	9
569176	244	229	0.4	0.96	16	20	< 0.5	2	0.02	< 0.5	87	105	531	4.69	< 10	< 1	0.44	20	0.08	10	5
569177	244	229	0.4	1.07	42	20	< 0.5	< 2	0.04	< 0.5	58	63	1620	5.07	< 10	< 1	0.40	10	0.10	10	10
569178	244	229	0.2	0.89	32	20	< 0.5	< 2	0.07	< 0.5	54	80	943	4.68	< 10	< 1	0.31	< 10	0.07	20	10
569179	244	229	0.4	0.74	16	20	< 0.5	< 2	0.08	< 0.5	84	73	1215	3.84	< 10	< 1	0.30	10	0.06	30	3
569180	244	229	0.4	0.71	4	20	< 0.5	< 2	0.91	< 0.5	51	89	790	3.68	< 10	< 1	0.27	20	0.34	365	5
569181	244	229	1.0	1.00	28	30	< 0.5	< 2	0.15	< 0.5	66	73	1750	3.97	< 10	< 1	0.34	10	0.09	310	36
569182	244	229	0.6	1.25	14	60	< 0.5	6	0.19	1.0	51	157	1695	3.61	< 10	< 1	0.39	20	0.14	350	11
569183	244	229	0.8	1.14	28	60	< 0.5	< 2	0.20	< 0.5	44	137	2210	4.58	< 10	< 1	0.38	20	0.15	500	24
569184	244	229	0.6	1.10	22	30	< 0.5	2	1.04	< 0.5	44	64	742	4.64	< 10	< 1	0.41	20	0.60	235	14
569185	244	229	0.6	1.20	14	60	< 0.5	2	0.85	< 0.5	42	77	805	3.91	10	< 1	0.42	20	0.56	360	27

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-AUG-93
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Account :FC

CERTIFICATE OF ANALYSIS A9317914

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569146	244	229	0.01	< 1	460	100	4	1	13	< 0.01	< 10	< 10	7	10	2
569147	244	229	0.01	< 1	150	60	2	< 1	3	0.01	< 10	< 10	6	20	2
569148	244	229	0.01	1	90	22	2	< 1	3	< 0.01	< 10	< 10	4	10	2
569149	244	229	0.01	< 1	100	44	4	< 1	11	< 0.01	< 10	< 10	6	10	2
569150	244	229	0.01	< 1	110	94	2	< 1	9	< 0.01	< 10	< 10	4	20	4
569151	244	229	0.01	1	110	56	< 2	< 1	5	< 0.01	< 10	< 10	5	30	2
569152	244	229	0.01	< 1	160	128	< 2	< 1	8	0.01	< 10	< 10	8	30	2
569153	244	229	0.01	1	220	228	2	1	9	0.02	< 10	< 10	9	< 10	2
569154	244	229	0.01	1	250	134	< 2	1	7	0.01	< 10	< 10	11	10	2
569155	244	229	0.01	3	250	320	2	1	10	0.01	< 10	< 10	9	< 10	4
569156	244	229	0.01	< 1	980	310	4	4	31	0.03	< 10	< 10	7	10	2
569157	244	229	0.02	3	510	80	4	3	44	< 0.01	< 10	< 10	12	10	4
569158	244	229	0.01	2	310	48	2	1	31	< 0.01	< 10	< 10	9	10	12
569159	244	229	0.02	1	450	70	4	1	54	< 0.01	< 10	< 10	10	30	14
569160	244	229	0.02	1	1360	84	10	2	265	< 0.01	< 10	< 10	15	10	4
569161	244	229	0.01	1	650	52	6	1	152	< 0.01	< 10	< 10	9	< 10	2
569162	244	229	0.01	< 1	390	30	2	< 1	74	< 0.01	< 10	< 10	8	< 10	2
569163	244	229	0.01	1	290	26	< 2	1	83	< 0.01	< 10	< 10	8	< 10	2
569164	244	229	0.01	1	110	16	2	1	21	< 0.01	< 10	< 10	7	< 10	2
569165	244	229	0.01	1	130	12	< 2	1	15	< 0.01	< 10	< 10	7	< 10	6
569166	244	229	0.01	2	100	16	2	< 1	14	< 0.01	< 10	< 10	8	10	32
569167	244	229	0.02	1	340	16	2	1	60	< 0.01	< 10	< 10	10	40	16
569168	244	229	0.01	1	190	10	2	< 1	18	< 0.01	< 10	< 10	6	< 10	14
569169	244	229	0.01	2	320	16	2	1	18	< 0.01	< 10	< 10	7	< 10	2
569170	244	229	0.01	3	240	10	2	2	25	< 0.01	< 10	< 10	9	< 10	4
569171	244	229	0.01	3	150	8	2	3	32	< 0.01	< 10	< 10	7	< 10	8
569172	244	229	0.01	2	180	16	2	3	44	< 0.01	< 10	< 10	9	< 10	2
569173	244	229	0.01	3	240	28	6	3	53	< 0.01	< 10	< 10	7	< 10	12
569174	244	229	0.01	4	210	14	< 2	3	18	< 0.01	< 10	< 10	9	< 10	14
569175	244	229	0.01	7	180	20	6	4	43	< 0.01	< 10	< 10	9	10	4
569176	244	229	0.01	4	230	20	4	4	66	< 0.01	< 10	< 10	9	< 10	2
569177	244	229	0.01	6	380	6	< 2	4	19	< 0.01	< 10	< 10	10	< 10	18
569178	244	229	0.01	3	540	10	2	2	12	< 0.01	< 10	< 10	8	< 10	30
569179	244	229	0.01	4	370	4	2	2	11	< 0.01	< 10	< 10	9	< 10	24
569180	244	229	0.01	4	740	4	4	2	12	< 0.01	< 10	< 10	15	< 10	44
569181	244	229	0.01	5	630	6	4	2	16	< 0.01	< 10	10	14	< 10	70
569182	244	229	0.01	3	780	14	2	3	38	< 0.01	< 10	< 10	24	< 10	88
569183	244	229	0.01	4	580	10	2	3	20	< 0.01	< 10	10	22	< 10	104
569184	244	229	0.01	3	520	14	2	2	16	< 0.01	< 10	10	22	10	36
569185	244	229	0.01	5	560	10	4	3	14	< 0.01	< 10	< 10	21	< 10	66

CERTIFICATION: Ian Pitcher

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569186	244	229	0.4	1.72	20	60	< 0.5	< 2	0.64	< 0.5	29	79	837	3.02	10	< 1	0.58	20	0.35	305	18
569187	244	229	< 0.2	0.91	4	70	< 0.5	2	1.94	< 0.5	19	128	499	2.80	< 10	< 1	0.38	20	0.73	225	13
569188	244	229	0.6	0.96	< 2	70	< 0.5	< 2	1.49	< 0.5	28	115	665	2.88	< 10	< 1	0.38	20	0.69	315	14
569189	244	229	0.6	1.46	12	70	< 0.5	< 2	0.46	< 0.5	43	140	1160	4.36	< 10	< 1	0.39	20	0.25	430	22
569190	244	229	1.2	1.01	6	40	< 0.5	2	1.35	< 0.5	86	122	2220	4.75	10	< 1	0.42	20	0.56	460	97
569191	244	229	1.6	1.30	10	70	< 0.5	< 2	1.16	< 0.5	76	68	1905	4.98	10	< 1	0.45	30	0.54	525	31
569192	244	229	0.8	1.26	2	20	< 0.5	< 2	1.20	< 0.5	40	79	1570	3.88	10	< 1	0.44	10	0.56	270	26
569193	244	229	0.6	1.74	6	70	< 0.5	< 2	1.03	< 0.5	52	56	1310	4.58	10	< 1	0.62	20	0.61	195	42
569194	244	229	1.0	2.19	10	70	< 0.5	< 2	0.45	0.5	69	53	2110	4.86	10	< 1	0.59	30	0.46	295	38
569195	244	229	0.6	2.57	< 2	70	< 0.5	< 2	0.37	3.0	47	100	1665	4.05	< 10	< 1	0.48	20	0.37	210	23
569196	244	229	0.4	0.98	8	70	< 0.5	< 2	1.38	< 0.5	30	129	937	3.35	< 10	< 1	0.50	20	0.63	205	16
569197	244	229	0.6	1.07	34	60	< 0.5	< 2	0.94	< 0.5	31	122	888	4.02	< 10	< 1	0.52	20	0.47	185	10
569198	244	229	1.4	1.05	4	100	< 0.5	< 2	0.59	< 0.5	25	121	1240	3.33	< 10	< 1	0.51	20	0.30	315	5
569199	244	229	0.8	1.87	32	80	< 0.5	2	1.18	< 0.5	26	122	856	3.32	10	< 1	0.55	20	0.86	295	7
569200	244	229	0.6	1.97	12	90	< 0.5	2	1.20	< 0.5	26	86	721	3.32	10	< 1	0.56	20	1.05	240	6
569201	244	229	0.6	1.80	16	90	< 0.5	< 2	1.22	< 0.5	25	84	896	3.58	10	< 1	0.47	20	1.11	205	6
569202	244	229	0.8	1.67	60	30	< 0.5	4	1.04	< 0.5	28	120	945	4.69	10	< 1	0.52	20	0.91	205	10
569203	244	229	0.8	1.70	30	50	< 0.5	< 2	0.95	< 0.5	27	122	912	4.71	10	< 1	0.45	20	0.96	345	28
569204	244	229	0.4	1.56	44	60	< 0.5	< 2	1.09	< 0.5	27	94	572	4.05	10	< 1	0.50	20	0.75	275	18
569205	244	229	0.2	1.92	12	190	< 0.5	4	1.46	< 0.5	17	85	310	3.61	10	< 1	0.46	30	1.00	430	7
569206	244	229	0.4	1.81	< 2	100	< 0.5	< 2	2.72	< 0.5	9	49	504	2.81	10	< 1	0.37	30	1.10	375	1
569207	244	229	0.6	1.70	22	30	< 0.5	6	2.36	< 0.5	10	70	1645	3.32	10	< 1	0.40	30	1.08	275	1
569208	244	229	0.2	1.63	< 2	130	< 0.5	4	2.65	< 0.5	11	60	340	3.22	10	< 1	0.38	30	1.04	325	2
569209	244	229	0.2	1.45	< 2	60	< 0.5	< 2	2.65	< 0.5	9	62	258	3.10	10	< 1	0.33	20	0.98	260	1
569210	244	229	0.2	1.55	< 2	60	< 0.5	< 2	2.30	< 0.5	15	77	281	2.95	10	< 1	0.46	20	0.90	270	8
569211	244	229	0.2	1.33	18	50	< 0.5	< 2	2.01	< 0.5	24	91	619	3.62	10	< 1	0.44	20	0.71	195	15
569212	244	229	0.8	1.32	4	40	< 0.5	< 2	1.95	< 0.5	18	74	388	3.12	< 10	< 1	0.46	20	0.69	200	14
569213	244	229	0.6	1.38	16	30	< 0.5	6	2.40	< 0.5	21	92	749	3.31	10	< 1	0.47	10	0.76	190	11
569214	244	229	0.6	1.38	24	20	< 0.5	2	2.13	< 0.5	20	81	891	4.51	10	< 1	0.49	10	0.74	180	16
569215	244	229	0.6	1.27	14	30	< 0.5	6	2.35	< 0.5	15	87	559	3.66	10	< 1	0.43	10	0.69	120	10
569216	244	229	0.6	1.20	14	30	< 0.5	< 2	2.26	< 0.5	15	72	783	3.42	10	< 1	0.40	20	0.68	125	11
569217	244	229	0.8	1.07	< 2	20	< 0.5	2	1.97	< 0.5	20	43	1025	4.25	10	< 1	0.30	10	0.72	110	14
569218	244	229	0.2	0.93	4	40	< 0.5	2	2.02	< 0.5	8	61	135	3.85	< 10	< 1	0.30	10	0.47	85	7
569219	244	229	0.6	0.94	2	40	< 0.5	< 2	2.05	< 0.5	11	61	333	3.21	< 10	< 1	0.31	10	0.54	110	7
569220	244	229	0.8	1.20	< 2	40	< 0.5	< 2	2.41	< 0.5	11	89	726	3.27	< 10	< 1	0.37	10	0.76	140	16
569221	244	229	0.8	1.22	< 2	30	< 0.5	4	2.52	< 0.5	18	80	1030	3.51	10	< 1	0.43	10	0.68	145	35
569222	244	229	1.2	1.15	4	40	< 0.5	< 2	2.30	< 0.5	15	89	1475	3.38	10	< 1	0.43	20	0.64	140	33
569223	244	229	1.2	1.10	16	40	< 0.5	< 2	1.80	< 0.5	20	73	1080	3.70	< 10	< 1	0.46	10	0.62	135	24
569224	244	229	1.6	0.72	12	10	< 0.5	6	1.36	< 0.5	15	110	1490	5.08	< 10	< 1	0.43	10	0.49	95	19
569225	244	229	1.4	0.72	12	30	< 0.5	16	1.62	< 0.5	15	94	1500	4.21	< 10	< 1	0.44	10	0.61	130	16

CERTIFICATION: Hart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :2-B
Total Pages :5
Certificate Date: 05-AUG-93
Invoice No. :19317914
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317914

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569186	244	229	0.01	3	680	12	2	3	15	< 0.01	< 10	< 10	19	< 10	84
569187	244	229	0.01	3	530	8	2	1	33	< 0.01	< 10	< 10	17	< 10	20
569188	244	229	0.01	2	450	< 2	2	2	25	< 0.01	< 10	10	20	< 10	24
569189	244	229	0.01	6	530	4	2	2	14	< 0.01	< 10	10	21	< 10	90
569190	244	229	0.01	6	1250	6	4	2	15	< 0.01	< 10	10	21	20	54
569191	244	229	0.01	3	620	8	2	2	14	< 0.01	< 10	< 10	20	< 10	60
569192	244	229	0.02	3	480	< 2	2	2	68	< 0.01	< 10	< 10	23	< 10	24
569193	244	229	0.02	4	690	6	4	2	21	< 0.01	< 10	10	23	< 10	42
569194	244	229	0.02	6	570	12	< 2	3	14	< 0.01	< 10	10	26	< 10	112
569195	244	229	0.01	7	540	28	2	3	26	< 0.01	< 10	10	31	< 10	94
569196	244	229	0.01	3	600	4	2	2	14	< 0.01	< 10	< 10	14	< 10	34
569197	244	229	0.01	4	620	4	< 2	1	11	< 0.01	< 10	< 10	13	< 10	34
569198	244	229	0.01	3	620	4	< 2	2	23	< 0.01	< 10	< 10	14	< 10	52
569199	244	229	0.01	6	720	8	2	2	27	< 0.01	< 10	< 10	18	< 10	46
569200	244	229	0.02	3	640	10	2	2	27	< 0.01	< 10	< 10	22	< 10	36
569201	244	229	0.04	4	590	8	2	4	30	< 0.01	< 10	< 10	35	< 10	26
569202	244	229	0.02	3	570	14	< 2	2	31	< 0.01	< 10	< 10	21	< 10	36
569203	244	229	0.01	4	510	12	< 2	2	56	< 0.01	< 10	< 10	23	< 10	50
569204	244	229	0.01	3	630	10	4	2	49	< 0.01	< 10	< 10	18	< 10	40
569205	244	229	0.02	6	960	8	2	3	71	< 0.01	< 10	< 10	30	< 10	56
569206	244	229	0.04	9	1280	6	< 2	3	185	< 0.01	< 10	< 10	37	< 10	36
569207	244	229	0.04	7	1290	22	< 2	2	127	< 0.01	< 10	< 10	30	< 10	30
569208	244	229	0.04	7	1240	12	2	3	77	< 0.01	< 10	< 10	34	< 10	28
569209	244	229	0.04	7	1280	8	< 2	2	104	< 0.01	< 10	< 10	33	< 10	18
569210	244	229	0.02	3	790	6	< 2	2	147	< 0.01	< 10	< 10	21	< 10	22
569211	244	229	0.02	3	610	< 2	< 2	2	124	< 0.01	< 10	< 10	19	< 10	18
569212	244	229	0.01	2	690	8	< 2	1	130	< 0.01	< 10	< 10	14	< 10	16
569213	244	229	0.01	4	610	14	< 2	2	290	< 0.01	< 10	< 10	19	< 10	16
569214	244	229	0.01	4	630	14	< 2	2	303	< 0.01	< 10	< 10	17	< 10	12
569215	244	229	0.02	3	610	8	2	2	855	< 0.01	< 10	< 10	17	< 10	10
569216	244	229	0.03	4	630	10	< 2	2	313	< 0.01	< 10	< 10	18	< 10	10
569217	244	229	0.02	1	590	2	< 2	1	670	< 0.01	< 10	< 10	17	< 10	12
569218	244	229	0.01	3	710	12	< 2	1	201	< 0.01	< 10	< 10	10	< 10	6
569219	244	229	0.01	3	730	12	< 2	1	226	< 0.01	< 10	< 10	10	< 10	6
569220	244	229	0.01	4	660	16	< 2	1	173	< 0.01	< 10	< 10	17	< 10	10
569221	244	229	0.02	4	580	2	< 2	1	290	< 0.01	< 10	< 10	17	< 10	10
569222	244	229	0.02	4	630	< 2	< 2	2	279	< 0.01	< 10	< 10	18	< 10	12
569223	244	229	0.01	4	620	2	< 2	1	511	< 0.01	< 10	< 10	15	< 10	8
569224	244	229	0.01	6	580	4	2	1	196	< 0.01	< 10	< 10	10	< 10	6
569225	244	229	0.01	2	630	10	< 2	1	282	< 0.01	< 10	< 10	11	< 10	8

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-AUG-93
Invoice No. : I9317914
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317914

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569226	244	229	0.8	0.51	12	40	< 0.5	4	1.88	< 0.5	12	64	1020	3.72	< 10	< 1	0.32	10	0.53	130	19
569227	244	229	0.6	0.58	< 2	30	< 0.5	10	2.85	< 0.5	11	70	598	3.52	< 10	< 1	0.31	10	0.33	130	21
569228	244	229	0.6	1.00	< 2	70	< 0.5	2	2.48	< 0.5	14	123	408	3.05	< 10	< 1	0.41	10	0.54	130	17
569229	244	229	0.6	0.81	6	60	< 0.5	< 2	2.24	< 0.5	13	90	782	2.91	< 10	< 1	0.35	10	0.60	115	8
569230	244	229	0.6	0.99	< 2	60	< 0.5	2	2.07	< 0.5	12	122	938	2.92	< 10	< 1	0.37	10	0.72	110	19
569231	244	229	0.6	0.76	6	30	< 0.5	< 2	2.01	< 0.5	19	116	1210	4.27	< 10	< 1	0.35	10	0.51	90	18
569232	244	229	0.8	0.62	8	30	< 0.5	4	2.19	< 0.5	10	108	776	3.73	< 10	< 1	0.35	10	0.43	105	12
569233	244	229	0.6	0.70	< 2	10	< 0.5	< 2	2.08	< 0.5	26	119	1105	5.56	< 10	< 1	0.40	10	0.59	95	22
569234	244	229	0.8	0.66	20	30	< 0.5	4	2.47	< 0.5	29	126	1150	3.27	< 10	< 1	0.37	10	0.62	75	20
569235	244	229	0.6	0.66	4	40	< 0.5	< 2	2.14	< 0.5	13	89	845	3.19	< 10	< 1	0.34	10	0.69	85	10
569236	244	229	0.2	0.76	< 2	20	< 0.5	< 2	2.23	< 0.5	17	121	308	4.54	< 10	< 1	0.39	10	0.70	80	9
569237	244	229	1.0	0.74	< 2	40	< 0.5	4	1.88	< 0.5	16	101	1235	3.53	< 10	< 1	0.36	10	0.71	90	9
569238	244	229	0.6	0.78	12	30	< 0.5	< 2	1.61	< 0.5	26	142	1000	3.30	< 10	< 1	0.42	10	0.67	205	5
569239	244	229	0.8	0.99	14	40	< 0.5	4	1.36	< 0.5	27	137	1140	3.40	< 10	< 1	0.55	10	0.59	170	17
569240	244	229	1.0	0.80	4	10	< 0.5	6	1.37	< 0.5	24	124	1490	3.20	< 10	< 1	0.45	10	0.59	170	21
569241	244	229	2.6	0.84	10	20	< 0.5	18	1.14	1.0	38	135	2300	4.64	< 10	< 1	0.48	< 10	0.57	190	9
569242	244	229	1.6	0.83	18	10	< 0.5	< 2	1.62	< 0.5	29	81	1470	5.12	< 10	< 1	0.39	10	0.62	245	20
569243	244	229	1.0	0.61	30	60	< 0.5	< 2	0.97	< 0.5	40	86	1320	3.04	< 10	< 1	0.35	10	0.39	140	13
569244	244	229	0.4	0.73	8	40	< 0.5	< 2	1.51	< 0.5	17	77	352	3.01	< 10	< 1	0.36	10	0.73	225	11
569245	244	229	0.4	0.83	4	20	< 0.5	6	1.75	< 0.5	10	67	391	4.05	< 10	< 1	0.41	10	0.91	155	12
569246	244	229	0.4	0.71	34	40	< 0.5	6	1.27	< 0.5	33	106	721	4.52	< 10	< 1	0.40	10	0.63	90	11
569247	244	229	0.8	0.77	16	70	< 0.5	4	1.74	< 0.5	56	107	1315	2.90	< 10	< 1	0.39	10	0.47	75	14
569248	244	229	0.6	0.91	26	60	< 0.5	< 2	1.39	< 0.5	57	124	920	3.67	< 10	< 1	0.37	10	0.43	80	14
569249	244	229	0.2	1.29	44	60	< 0.5	4	1.18	< 0.5	35	96	637	4.11	< 10	< 1	0.33	20	0.86	95	17
569250	244	229	0.4	1.18	24	70	< 0.5	6	1.85	< 0.5	25	95	538	3.29	< 10	< 1	0.38	20	0.82	170	9
569251	244	229	0.6	0.80	46	50	< 0.5	< 2	1.41	< 0.5	82	117	874	3.47	< 10	< 1	0.42	10	0.48	160	17
569252	244	229	1.0	0.76	44	40	< 0.5	< 2	1.22	< 0.5	65	110	813	4.23	< 10	< 1	0.41	10	0.47	280	10
569253	244	229	0.8	0.92	138	10	< 0.5	< 2	1.79	< 0.5	102	117	867	6.11	10	< 1	0.43	10	0.41	100	22
569254	244	229	0.4	1.20	150	30	< 0.5	< 2	1.51	< 0.5	66	130	860	5.37	10	< 1	0.37	20	0.66	80	18
569255	244	229	0.4	1.51	2	80	< 0.5	< 2	2.19	< 0.5	9	61	325	3.79	10	< 1	0.40	30	1.05	160	2
569256	244	229	0.6	0.97	14	60	< 0.5	< 2	2.40	< 0.5	8	45	774	3.78	10	< 1	0.25	30	0.76	175	1
569257	244	229	0.4	1.35	8	60	< 0.5	2	2.89	< 0.5	14	44	964	3.68	10	< 1	0.24	40	0.72	120	2
569258	244	229	0.4	1.11	68	70	< 0.5	< 2	1.00	< 0.5	66	110	510	4.18	< 10	< 1	0.37	20	0.36	85	8
569259	244	229	0.4	0.94	82	30	< 0.5	4	1.22	< 0.5	33	95	1180	4.53	< 10	< 1	0.35	10	0.41	80	4
569260	244	229	0.4	0.84	88	10	< 0.5	< 2	1.40	< 0.5	33	124	603	5.10	< 10	< 1	0.33	10	0.40	90	1
569261	244	229	0.2	0.78	78	50	< 0.5	4	1.44	< 0.5	59	86	621	3.57	< 10	< 1	0.28	20	0.61	160	6
569262	244	229	0.6	0.73	96	20	< 0.5	2	2.08	< 0.5	85	118	849	4.51	< 10	< 1	0.38	10	0.94	300	23
569263	244	229	1.0	0.69	170	20	< 0.5	10	0.84	< 0.5	144	96	850	5.54	< 10	< 1	0.39	< 10	0.43	135	8
569264	244	229	0.8	0.69	166	30	< 0.5	2	1.73	< 0.5	174	124	1695	5.62	< 10	< 1	0.39	10	0.75	200	46
569265	244	229	0.2	0.65	70	30	< 0.5	4	1.44	< 0.5	41	100	608	4.41	< 10	< 1	0.36	10	0.68	75	5

CERTIFICATION: Ian R Bradden

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569226	244	229	0.01	2	600	8	< 2	1	331	< 0.01	< 10	< 10	9	< 10	6
569227	244	229	0.01	2	630	12	2	1	446	< 0.01	< 10	< 10	7	< 10	4
569228	244	229	0.01	3	630	16	2	1	350	< 0.01	< 10	< 10	10	< 10	6
569229	244	229	0.01	3	450	8	< 2	1	252	< 0.01	< 10	< 10	9	< 10	6
569230	244	229	0.01	3	490	2	< 2	1	202	< 0.01	< 10	< 10	12	< 10	8
569231	244	229	0.01	3	440	8	2	1	218	< 0.01	< 10	< 10	10	< 10	6
569232	244	229	0.01	3	590	8	< 2	1	287	< 0.01	< 10	< 10	8	< 10	6
569233	244	229	0.01	3	500	12	< 2	1	346	< 0.01	< 10	< 10	10	< 10	6
569234	244	229	0.01	2	480	10	< 2	1	351	< 0.01	< 10	< 10	9	< 10	8
569235	244	229	0.01	2	600	14	2	1	381	< 0.01	< 10	< 10	9	< 10	6
569236	244	229	0.01	3	560	12	< 2	1	520	< 0.01	< 10	< 10	10	< 10	6
569237	244	229	0.01	3	560	8	2	1	293	< 0.01	< 10	< 10	13	< 10	8
569238	244	229	0.01	2	520	6	< 2	1	34	< 0.01	< 10	< 10	13	< 10	12
569239	244	229	0.01	2	490	12	2	2	27	< 0.01	< 10	< 10	14	< 10	14
569240	244	229	0.01	3	490	< 2	< 2	1	51	< 0.01	< 10	< 10	11	< 10	12
569241	244	229	0.01	4	470	58	2	2	28	< 0.01	< 10	< 10	13	< 10	82
569242	244	229	0.01	4	880	18	< 2	2	25	< 0.01	< 10	< 10	13	< 10	20
569243	244	229	0.01	3	420	10	2	< 1	13	< 0.01	< 10	< 10	7	< 10	8
569244	244	229	0.01	2	580	6	2	1	20	< 0.01	< 10	< 10	9	< 10	4
569245	244	229	0.01	2	650	12	< 2	1	25	< 0.01	< 10	< 10	9	< 10	6
569246	244	229	0.01	4	510	8	< 2	1	21	< 0.01	< 10	< 10	9	< 10	8
569247	244	229	0.01	4	530	6	< 2	1	60	< 0.01	< 10	< 10	11	< 10	10
569248	244	229	0.01	6	510	10	< 2	1	32	< 0.01	< 10	< 10	12	< 10	8
569249	244	229	0.01	4	560	12	2	1	38	< 0.01	< 10	< 10	17	< 10	12
569250	244	229	0.02	4	840	4	< 2	2	56	< 0.01	< 10	< 10	18	< 10	12
569251	244	229	0.01	4	470	14	< 2	1	20	< 0.01	< 10	< 10	12	< 10	8
569252	244	229	0.01	3	550	24	< 2	2	15	< 0.01	< 10	< 10	13	< 10	48
569253	244	229	0.01	6	520	26	4	2	20	< 0.01	< 10	< 10	14	< 10	16
569254	244	229	0.02	6	600	20	< 2	2	49	< 0.01	< 10	< 10	20	< 10	10
569255	244	229	0.04	8	1300	14	< 2	2	70	< 0.01	< 10	< 10	26	< 10	10
569256	244	229	0.02	8	1200	18	< 2	1	60	< 0.01	< 10	< 10	15	< 10	14
569257	244	229	0.03	7	1220	6	< 2	3	75	< 0.01	< 10	< 10	23	< 10	12
569258	244	229	0.01	5	760	22	< 2	2	14	< 0.01	< 10	< 10	17	< 10	12
569259	244	229	0.01	3	610	12	2	2	32	< 0.01	< 10	< 10	14	< 10	14
569260	244	229	0.01	4	510	10	< 2	2	31	< 0.01	< 10	< 10	13	< 10	12
569261	244	229	< 0.01	3	590	10	< 2	2	15	< 0.01	< 10	< 10	14	< 10	16
569262	244	229	0.01	4	620	8	2	2	18	< 0.01	< 10	10	12	< 10	16
569263	244	229	0.01	3	310	44	4	1	11	< 0.01	< 10	< 10	8	< 10	32
569264	244	229	0.01	5	820	30	4	1	16	< 0.01	< 10	< 10	11	< 10	28
569265	244	229	0.01	3	520	14	< 2	1	22	< 0.01	< 10	< 10	10	< 10	8

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-AUG-93
Invoice No. : I9317914
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317914

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569266	244	229	0.8	0.28	78	30	< 0.5	< 2	1.53	< 0.5	43	27	988	4.80	< 10	< 1	0.16	10	0.70	95	6
569267	244	229	0.2	0.32	30	40	< 0.5	4	1.77	< 0.5	37	39	318	4.19	< 10	< 1	0.17	10	0.77	125	2
569268	244	229	0.4	0.33	20	60	< 0.5	< 2	1.80	< 0.5	15	36	504	3.69	< 10	< 1	0.16	10	0.74	150	1
569269	244	229	0.4	0.45	62	40	< 0.5	2	1.84	< 0.5	21	60	783	4.26	< 10	< 1	0.23	10	0.74	130	2
569270	244	229	0.2	0.39	40	30	< 0.5	4	1.78	< 0.5	22	31	394	3.57	< 10	< 1	0.16	10	0.52	85	1
569271	244	229	0.2	0.39	86	30	< 0.5	< 2	1.86	< 0.5	60	76	413	4.81	< 10	< 1	0.22	10	0.70	170	5
569272	244	229	0.2	0.26	64	20	< 0.5	< 2	1.45	< 0.5	51	30	649	4.52	< 10	< 1	0.13	10	0.47	55	8
569273	244	229	< 0.2	0.32	48	20	< 0.5	< 2	1.26	< 0.5	57	58	353	4.57	< 10	< 1	0.16	10	0.51	70	4
569274	244	229	0.4	0.49	34	40	< 0.5	< 2	1.21	< 0.5	91	101	538	3.19	< 10	< 1	0.24	10	0.54	55	13
569275	244	229	< 0.2	0.45	58	20	< 0.5	< 2	1.01	< 0.5	96	107	406	5.75	< 10	< 1	0.26	10	0.47	45	7
569276	244	229	< 0.2	0.41	92	20	< 0.5	< 2	1.04	< 0.5	62	86	191	5.19	< 10	< 1	0.24	10	0.49	90	3
569277	244	229	< 0.2	0.58	30	10	< 0.5	< 2	1.13	< 0.5	106	121	335	6.56	< 10	< 1	0.33	10	0.59	70	33
569278	244	229	0.4	0.46	24	30	< 0.5	4	1.57	< 0.5	109	96	509	4.03	< 10	< 1	0.23	10	0.77	150	8
569279	244	229	0.2	0.55	12	40	< 0.5	2	1.54	< 0.5	50	129	347	3.65	< 10	< 1	0.27	20	0.72	70	8
569280	244	229	0.2	0.54	30	50	< 0.5	< 2	1.30	< 0.5	134	104	453	4.05	< 10	< 1	0.28	10	0.53	65	39
569281	244	229	0.4	0.39	50	20	< 0.5	< 2	1.10	< 0.5	71	70	595	4.52	< 10	< 1	0.22	10	0.40	60	14
569282	244	229	0.4	0.51	22	30	< 0.5	8	1.17	< 0.5	48	110	677	4.28	< 10	< 1	0.28	10	0.54	70	4
569283	244	229	0.6	0.45	52	20	< 0.5	4	1.02	< 0.5	68	69	715	5.19	< 10	< 1	0.27	< 10	0.52	115	6
569284	244	229	1.2	0.33	74	20	< 0.5	18	0.93	< 0.5	59	45	1185	5.64	< 10	< 1	0.22	< 10	0.46	140	6
569285	244	229	0.2	0.46	18	50	< 0.5	< 2	1.34	< 0.5	23	97	480	3.20	< 10	< 1	0.24	10	0.54	85	< 1
569286	244	229	0.2	0.62	120	30	< 0.5	< 2	1.56	< 0.5	28	78	581	3.28	< 10	< 1	0.30	10	0.72	85	4
569287	244	229	2.0	0.56	40	20	< 0.5	4	0.97	< 0.5	13	103	2060	3.15	< 10	< 1	0.34	< 10	0.54	110	135
569288	244	229	2.6	0.65	16	< 10	< 0.5	4	0.76	< 0.5	4	80	1625	6.72	< 10	< 1	0.40	< 10	0.46	115	153
569289	244	229	1.4	0.61	4	40	< 0.5	2	0.88	< 0.5	4	75	2460	3.00	< 10	< 1	0.37	< 10	0.51	75	117
569290	244	229	0.8	0.44	6	10	< 0.5	6	1.27	0.5	9	67	559	6.62	< 10	< 1	0.28	< 10	0.54	105	254
569291	244	229	1.2	0.37	4	40	< 0.5	2	1.13	< 0.5	13	77	1540	2.68	< 10	< 1	0.24	10	0.46	75	207
569292	244	229	1.4	0.36	18	60	< 0.5	< 2	1.23	< 0.5	9	66	1970	2.46	< 10	< 1	0.25	10	0.59	90	99
569293	244	229	2.2	0.33	28	40	< 0.5	2	1.22	< 0.5	20	75	3110	2.74	< 10	< 1	0.22	30	0.52	70	187
569294	244	229	2.8	0.28	20	40	< 0.5	2	1.22	< 0.5	20	76	4200	2.78	< 10	< 1	0.18	40	0.52	60	221
569295	244	229	2.4	0.29	40	40	< 0.5	6	1.21	< 0.5	21	81	3270	3.06	< 10	< 1	0.18	30	0.51	60	218
569296	244	229	2.6	0.42	54	30	< 0.5	6	1.40	< 0.5	52	110	3430	3.04	< 10	< 1	0.24	20	0.60	70	242
569297	244	229	2.0	0.40	36	30	< 0.5	8	1.22	< 0.5	29	78	2940	3.14	< 10	< 1	0.24	20	0.48	65	154
569298	244	229	2.4	0.37	60	30	< 0.5	< 2	1.24	< 0.5	32	83	3850	3.03	< 10	< 1	0.22	40	0.53	60	198
569299	244	229	2.2	0.48	78	30	< 0.5	2	1.56	< 0.5	24	92	3270	3.40	< 10	< 1	0.27	40	0.61	60	169
569300	244	229	1.6	0.27	34	80	< 0.5	< 2	1.77	< 0.5	18	51	2720	2.20	< 10	< 1	0.15	30	0.58	50	203
569301	244	229	0.6	0.45	16	80	< 0.5	2	1.74	< 0.5	8	106	996	2.45	< 10	< 1	0.24	30	0.62	60	112
569302	244	229	2.8	0.44	56	30	< 0.5	24	1.40	< 0.5	22	56	4160	4.61	10	< 1	0.27	40	0.53	50	133
569303	244	229	0.8	0.35	38	30	< 0.5	2	1.85	< 0.5	19	53	1425	2.81	< 10	< 1	0.19	30	0.44	60	127
569304	244	229	0.6	0.55	92	20	< 0.5	6	1.62	< 0.5	28	90	721	4.82	< 10	< 1	0.29	20	0.57	65	69
569305	244	229	2.0	0.50	40	30	< 0.5	2	1.94	< 0.5	26	92	3540	3.17	< 10	< 1	0.26	20	0.70	75	89

CERTIFICATION: Stewart Bachler

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o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-B
Total Pages :5
Certificate Date: 05-AUG-93
Invoice No. :I9317914
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317914

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569266	244	229	< 0.01	2	530	16	2	1	20	< 0.01	< 10	< 10	7	< 10	8
569267	244	229	< 0.01	2	550	6	< 2	1	19	< 0.01	< 10	< 10	7	< 10	8
569268	244	229	< 0.01	2	600	2	2	2	18	< 0.01	< 10	< 10	13	< 10	10
569269	244	229	0.01	2	560	10	< 2	1	37	< 0.01	< 10	< 10	9	< 10	14
569270	244	229	0.01	< 1	490	6	< 2	1	40	< 0.01	< 10	< 10	8	< 10	8
569271	244	229	0.01	2	500	4	2	1	16	< 0.01	< 10	< 10	8	< 10	8
569272	244	229	< 0.01	2	600	2	< 2	1	17	< 0.01	< 10	< 10	6	< 10	6
569273	244	229	< 0.01	4	510	8	< 2	1	13	< 0.01	< 10	< 10	7	< 10	8
569274	244	229	0.01	2	520	2	< 2	1	12	< 0.01	< 10	< 10	9	< 10	6
569275	244	229	0.01	6	460	4	< 2	1	10	< 0.01	< 10	< 10	9	< 10	8
569276	244	229	0.01	4	510	4	< 2	1	9	< 0.01	< 10	< 10	7	< 10	10
569277	244	229	0.01	3	470	8	2	1	12	< 0.01	< 10	< 10	9	< 10	10
569278	244	229	0.01	2	480	14	< 2	1	17	< 0.01	< 10	< 10	9	< 10	14
569279	244	229	0.01	4	550	22	< 2	1	18	< 0.01	< 10	< 10	9	< 10	8
569280	244	229	0.01	5	580	2	< 2	1	15	< 0.01	< 10	< 10	9	< 10	6
569281	244	229	< 0.01	6	540	12	< 2	1	19	< 0.01	< 10	< 10	7	< 10	8
569282	244	229	0.01	4	500	6	< 2	1	26	< 0.01	< 10	< 10	10	< 10	8
569283	244	229	0.01	2	430	20	2	1	23	< 0.01	< 10	< 10	8	< 10	14
569284	244	229	< 0.01	2	490	26	4	1	17	< 0.01	< 10	< 10	6	< 10	52
569285	244	229	0.01	3	400	8	2	1	50	< 0.01	< 10	< 10	8	< 10	12
569286	244	229	0.01	2	540	4	< 2	1	69	< 0.01	< 10	< 10	13	< 10	12
569287	244	229	0.01	8	390	18	8	1	26	< 0.01	< 10	< 10	9	< 10	16
569288	244	229	0.01	6	410	14	2	1	20	< 0.01	< 10	< 10	8	< 10	8
569289	244	229	0.01	6	500	18	8	1	27	< 0.01	< 10	< 10	8	< 10	12
569290	244	229	0.01	4	410	24	6	1	25	< 0.01	< 10	< 10	7	< 10	68
569291	244	229	0.01	3	430	16	2	1	29	< 0.01	< 10	< 10	6	< 10	8
569292	244	229	0.01	3	460	6	< 2	1	29	< 0.01	< 10	10	7	< 10	10
569293	244	229	0.01	7	380	14	2	1	28	< 0.01	< 10	< 10	8	< 10	12
569294	244	229	0.01	8	340	16	2	2	28	< 0.01	< 10	< 10	12	< 10	14
569295	244	229	0.01	9	370	8	2	2	22	< 0.01	< 10	< 10	13	< 10	14
569296	244	229	0.01	11	410	6	2	2	26	< 0.01	< 10	< 10	14	< 10	16
569297	244	229	0.01	6	460	< 2	2	2	28	< 0.01	< 10	< 10	13	< 10	10
569298	244	229	0.01	7	420	16	< 2	1	24	< 0.01	< 10	< 10	11	< 10	14
569299	244	229	0.01	6	550	8	2	1	43	< 0.01	< 10	< 10	12	< 10	12
569300	244	229	0.01	7	420	6	< 2	1	735	< 0.01	< 10	< 10	11	< 10	12
569301	244	229	0.01	7	460	< 2	< 2	1	516	< 0.01	< 10	< 10	11	< 10	12
569302	244	229	0.01	5	580	18	4	1	349	< 0.01	< 10	< 10	8	< 10	8
569303	244	229	0.01	4	530	12	2	1	89	< 0.01	< 10	< 10	7	< 10	14
569304	244	229	0.01	4	540	6	2	1	39	< 0.01	< 10	< 10	9	< 10	14
569305	244	229	0.01	6	570	10	2	1	378	< 0.01	< 10	< 10	11	< 10	14

CERTIFICATION: Stan H Bachler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 171
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-AUG-93
Invoice No. : I9317914
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Account : FC

CERTIFICATE OF ANALYSIS A9317914

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569306	244	229	< 0.2	0.48	6	60	< 0.5	< 2	2.27	< 0.5	18	65	352	3.24	< 10	< 1	0.26	10	0.43	70	15
569307	244	229	1.2	0.67	32	20	< 0.5	4	1.51	< 0.5	20	66	2200	4.71	10	< 1	0.36	20	0.62	70	13
569308	244	229	0.6	0.61	36	30	< 0.5	< 2	1.26	< 0.5	17	54	208	4.70	< 10	< 1	0.34	10	0.61	195	12
569309	244	229	0.6	0.68	136	40	< 0.5	< 2	1.67	< 0.5	21	87	423	4.79	< 10	< 1	0.34	20	0.76	430	10
569310	244	229	0.2	0.43	24	60	< 0.5	< 2	1.62	< 0.5	21	68	299	2.73	< 10	< 1	0.21	< 10	0.63	75	6
569311	244	229	0.2	0.91	46	20	< 0.5	2	1.64	< 0.5	62	55	247	5.42	< 10	< 1	0.50	10	0.71	245	10
569312	244	229	0.4	0.43	54	40	< 0.5	< 2	1.66	< 0.5	27	84	775	4.46	< 10	< 1	0.22	10	0.79	200	1
569313	244	229	2.4	0.73	128	30	< 0.5	14	1.69	< 0.5	49	42	2050	5.43	< 10	< 1	0.43	10	0.73	160	8
569314	244	229	< 0.2	0.38	64	20	< 0.5	6	1.42	< 0.5	32	78	169	4.74	< 10	< 1	0.23	20	0.68	115	1
569315	244	229	0.2	0.78	112	10	< 0.5	4	1.16	< 0.5	109	56	132	7.82	< 10	< 1	0.43	10	0.58	85	22
569316	244	229	< 0.2	0.51	72	20	< 0.5	< 2	1.22	< 0.5	42	70	64	6.08	< 10	< 1	0.29	10	0.58	75	11
569317	244	229	0.6	0.91	56	20	< 0.5	10	1.44	< 0.5	37	102	1110	5.45	< 10	< 1	0.50	10	0.58	90	4
569318	244	229	0.6	0.93	16	40	< 0.5	2	1.74	< 0.5	23	93	902	4.81	< 10	< 1	0.46	10	0.78	110	2
569319	244	229	0.2	1.21	58	50	< 0.5	< 2	2.26	< 0.5	53	93	240	4.60	< 10	< 1	0.45	10	0.73	75	8
569320	244	229	< 0.2	1.01	< 2	30	< 0.5	2	1.35	< 0.5	18	76	82	3.40	< 10	< 1	0.18	10	1.03	65	2
569321	244	229	0.4	0.92	32	40	< 0.5	6	1.91	< 0.5	32	97	849	4.52	10	< 1	0.36	20	0.78	65	40
569322	244	229	0.2	0.58	100	20	< 0.5	6	1.52	< 0.5	59	105	154	5.90	< 10	< 1	0.28	10	0.63	75	16
569323	244	229	< 0.2	1.09	12	30	< 0.5	2	2.24	< 0.5	48	98	222	4.51	10	< 1	0.49	10	0.63	80	20
569324	244	229	0.2	0.58	34	30	< 0.5	6	1.85	< 0.5	65	95	405	6.18	< 10	< 1	0.28	10	0.83	125	6
823	244	229	1.2	0.71	34	240	< 0.5	4	0.02	< 0.5	2	155	34	3.99	< 10	< 1	1.01	10	0.08	15	10
824	244	229	0.4	0.59	2	60	< 0.5	< 2	0.09	< 0.5	74	95	1075	3.29	< 10	< 1	0.26	10	0.06	20	6
825	244	229	0.6	1.56	6	120	< 0.5	8	1.11	< 0.5	23	78	680	3.03	10	< 1	0.48	20	0.78	260	7

CERTIFICATION:

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569306	244	229	0.02	1	640	6	2	1	372	< 0.01	< 10	< 10	10	< 10	14
569307	244	229	0.01	2	600	6	2	1	669	< 0.01	< 10	< 10	10	10	14
569308	244	229	0.01	1	650	22	6	1	22	< 0.01	< 10	< 10	7	< 10	20
569309	244	229	0.01	3	690	20	4	1	28	< 0.01	< 10	< 10	10	< 10	20
569310	244	229	0.03	1	380	8	2	1	224	< 0.01	< 10	< 10	11	< 10	12
569311	244	229	0.01	2	700	8	4	2	37	< 0.01	< 10	10	12	< 10	16
569312	244	229	0.01	3	580	8	4	1	27	< 0.01	< 10	< 10	9	< 10	14
569313	244	229	0.01	1	430	24	14	1	23	< 0.01	< 10	< 10	10	< 10	18
569314	244	229	0.01	1	480	12	2	1	26	< 0.01	< 10	< 10	7	< 10	8
569315	244	229	0.01	5	490	20	4	2	24	< 0.01	< 10	< 10	13	< 10	12
569316	244	229	0.01	2	480	16	2	1	63	< 0.01	< 10	< 10	11	< 10	8
569317	244	229	0.03	2	530	14	2	2	77	< 0.01	< 10	< 10	20	< 10	18
569318	244	229	0.02	3	540	22	2	2	158	< 0.01	< 10	< 10	19	10	12
569319	244	229	0.06	4	560	8	2	3	180	0.01	< 10	< 10	32	10	12
569320	244	229	0.04	3	540	8	< 2	4	166	< 0.01	< 10	< 10	32	< 10	10
569321	244	229	0.03	2	610	2	2	3	466	< 0.01	< 10	< 10	24	< 10	8
569322	244	229	0.02	3	430	24	4	2	426	< 0.01	< 10	< 10	16	< 10	18
569323	244	229	0.04	4	530	2	2	4	173	< 0.01	< 10	< 10	30	< 10	12
569324	244	229	0.01	1	490	12	2	3	27	< 0.01	< 10	< 10	17	< 10	10
823	244	229	0.02	< 1	480	90	4	2	66	< 0.01	< 10	< 10	13	10	12
824	244	229	0.01	3	300	8	< 2	2	14	< 0.01	< 10	< 10	7	< 10	18
825	244	229	0.01	4	650	8	2	2	26	< 0.01	< 10	< 10	15	< 10	38

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-JUL-93
Invoice No. : I9317430
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317430

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573381H	208	274	0.27	0.006	0.69	1260						
573382H	208	274	0.08	0.004	0.21	3640						
573383H	208	276	0.10	0.012	0.21	9480						
573384H	208	276	0.19	0.016	0.14	11680						
573385H	208	276	0.12	0.010	0.14	10040						
573386H	208	276	0.15	0.017	0.14	11380						
573387H	208	276	0.17	0.008	0.21	10400						
573388H	208	273	0.16	0.003	0.17	12300						
573389H	208	276	0.12	0.004	0.14	9260						
573390H	208	274	0.23	0.003	0.17	6900						
573391H	208	276	0.15	0.003	0.14	10500						
573392H	208	276	0.13	0.004	0.14	7520						
573393H	208	276	0.14	0.008	0.14	10660						
573394H	208	276	0.13	0.018	0.34	9360						
573395H	208	276	0.14	0.007	0.17	11740						
573396H	208	273	0.12	0.013	0.17	13260						
573397H	208	276	0.19	0.019	0.24	9840						
573398H	208	276	0.21	0.016	0.55	9200						
573399H	208	276	0.16	0.022	0.17	10140						
573400H	208	273	0.15	0.034	0.07	12380						
573401H	208	276	0.19	0.016	0.10	11720						
573402H	208	276	0.14	0.014	0.14	7720						
573403H	208	274	0.15	0.015	0.10	7100						
573404H	208	276	0.19	0.007	0.21	11020						
573405H	208	276	0.12	0.008	0.21	11340						
573406H	208	276	0.10	0.018	0.17	7720						
573407H	208	273	0.12	0.015	0.14	11820						
573408H	208	276	0.19	0.019	0.27	11600						
573409H	208	276	0.27	0.013	0.21	10580						
573410H	208	276	0.23	0.009	0.24	8920						
573411H	208	276	0.21	0.011	0.24	10680						
573412H	208	274	0.17	0.021	0.21	7160						
573413H	208	276	0.09	0.013	0.10	8080						
573414H	208	276	0.17	0.030	0.24	8100						
573415H	208	276	0.11	0.005	0.14	9640						
573416H	208	273	0.23	0.020	0.27	12180						
573417H	208	273	0.08	0.010	0.14	12020						
573418H	208	276	0.12	0.021	0.14	11740						
573419H	208	276	0.09	0.041	0.10	11420						
573420H	208	273	0.09	0.052	0.14	12640						

CERTIFICATION: _____

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-JUL-93
Invoice No. :I9317430
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317430

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573421H	208	276	0.10	0.009	0.07	10120						
573422H	208	276	0.08	0.011	0.07	9100						
573423H	208	276	0.12	0.012	0.14	9340						
573424H	208	276	0.16	0.020	0.21	10320						
573425H	208	276	0.05	0.121	0.07	11580						
573426H	208	276	0.11	0.100	0.14	11740						
573427H	208	273	0.09	0.038	0.17	12640						
573428H	208	276	0.06	0.040	0.07	7880						
573429H	208	270	0.08	0.033	0.07	18020						
573430H	208	273	0.14	0.068	0.14	13340						
573431H	208	273	0.16	0.074	0.14	12960						
573432H	208	273	0.15	0.040	0.17	13000						
573433H	208	273	0.10	0.048	0.10	13520						
573434H	208	273	0.11	0.010	0.14	12580						
573435H	208	273	0.12	0.022	0.14	13400						
573436H	208	273	0.13	0.015	0.10	12560						
573437H	208	273	0.16	0.022	0.21	13520						
573438H	208	273	0.13	0.085	0.14	13400						
573439H	208	273	0.09	0.132	0.10	12620						
573440H	208	273	0.14	0.012	0.10	13000						
573441H	208	273	0.10	0.025	0.14	14020						
573442H	208	273	0.14	0.038	0.10	12460						
573443H	208	273	0.09	0.020	0.07	13060						
573444H	208	276	0.08	0.011	0.07	11460						
573445H	208	273	0.07	0.050	0.10	12700						
573446H	208	273	0.09	0.030	0.10	12920						
573447H	208	273	0.07	0.065	0.10	12500						
573448H	208	273	0.18	0.031	0.21	13420						
573449H	208	273	0.13	0.035	0.14	13820						
573450H	208	273	0.10	0.037	0.10	13000						
573451H	208	276	0.23	0.053	0.19	11740						
573452H	208	273	0.08	0.039	0.10	13020						
573453H	208	273	0.10	0.028	0.14	14000						
573454H	208	273	0.11	0.037	0.14	14240						
573455H	208	276	0.14	0.027	0.14	10920						
573456H	208	273	0.07	0.051	0.07	13220						
573457H	208	273	0.06	0.015	0.07	14840						
573458H	208	273	0.06	0.042	0.10	13860						
573459H	208	273	0.16	0.024	0.27	13700						
573460H	208	273	0.04	0.026	0.07	16180						

CERTIFICATION: _____

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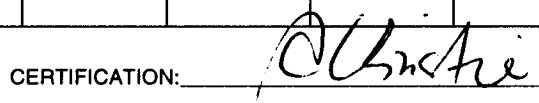
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page I :3
Total Pa :3
Certificate Date: 26-JUL-93
Invoice No. :19317430
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317430

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573461H	208	273	0.04	0.025	0.07	13100						
573462H	208	273	0.09	0.025	0.14	13920						
573463H	208	273	0.11	0.013	0.14	13180						
573464H	208	273	0.09	0.011	0.14	12560						
573465H	208	276	0.11	0.025	0.10	8500						
573466H	208	276	0.03	0.048	0.07	7860						
573467H	208	276	0.03	0.035	0.07	7640						
573468H	208	274	0.09	0.044	0.10	7140						
573469H	208	276	0.02	0.048	0.10	7480						
573470H	208	276	0.05	0.054	< 0.03	7420						
573471H	208	274	0.06	0.030	< 0.03	6880						
573472H	208	274	0.07	0.066	0.07	6860						
573473H	208	274	0.05	0.060	0.10	6160						
573474H	208	274	0.05	0.090	< 0.03	6560						
573475H	208	274	0.05	0.131	< 0.03	6600						
573476H	208	274	0.07	0.039	< 0.03	7080						
573477H	208	274	0.06	0.033	0.07	6800						
573478H	208	276	0.04	0.048	< 0.03	7380						
573479H	208	274	0.06	0.040	< 0.03	7180						
573480H	208	274	0.10	0.058	0.14	7220						
573481H	208	274	0.05	0.037	0.10	7140						
573482H	208	274	0.03	0.012	0.07	7140						
848A	208	274	0.13	0.017	0.14	5700						
849A	208	274	0.10	0.021	0.07	6020						
850A	208	274	0.14	0.085	0.10	6560						

CERTIFICATION: 

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N : 1-A
Total Pa : 3
Certificate Date: 27-JUL-93
Invoice No. : I9317431
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317431

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573381H	299	229	27.2	0.49	1065	30	< 0.5	12	2.77	30.5	10	45	2970	3.70	< 10	1	0.25	< 10	0.24	1570	37
573382H	299	229	3.6	0.62	252	90	< 0.5	6	1.97	0.5	6	39	813	2.16	< 10	1	0.35	10	0.29	1960	30
573383H	299	229	4.0	0.53	252	80	< 0.5	4	2.56	2.5	9	38	1030	2.58	< 10	1	0.26	< 10	0.19	1395	73
573384H	299	229	1.6	0.67	88	150	< 0.5	< 2	4.15	3.0	8	31	1960	0.94	< 10	1	0.22	< 10	0.21	730	86
573385H	299	229	1.4	0.70	54	250	< 0.5	< 2	3.77	1.0	7	29	1150	0.87	< 10	1	0.26	< 10	0.25	905	63
573386H	299	229	1.4	0.59	32	170	< 0.5	2	4.62	0.5	6	38	1550	1.07	< 10	< 1	0.24	< 10	0.25	525	96
573387H	299	229	1.8	1.83	60	250	< 0.5	4	2.66	1.5	10	96	1765	2.30	< 10	< 1	0.61	10	1.01	450	46
573388H	299	229	1.8	3.17	32	110	< 0.5	< 2	1.29	< 0.5	22	137	1680	4.43	< 10	< 1	1.50	10	2.50	320	15
573389H	299	229	0.8	2.70	18	420	< 0.5	< 2	0.91	1.0	20	146	1200	3.43	10	< 1	1.11	20	1.97	335	20
573390H	299	229	0.2	2.38	20	600	< 0.5	2	0.28	0.5	19	136	2420	3.84	< 10	< 1	1.34	20	2.01	200	17
573391H	299	229	0.2	2.81	16	610	< 0.5	< 2	0.31	0.5	20	154	1610	4.84	< 10	< 1	1.64	20	2.39	275	17
573392H	299	229	0.6	1.83	20	220	< 0.5	2	0.55	1.0	12	111	1245	2.32	< 10	< 1	0.61	20	1.35	230	20
573393H	299	229	0.8	1.44	16	160	< 0.5	< 2	0.47	1.0	9	122	1375	1.49	< 10	< 1	0.45	20	1.03	170	51
573394H	299	229	2.0	1.36	18	150	< 0.5	2	0.36	0.5	10	117	1400	3.75	< 10	< 1	0.42	20	0.88	165	113
573395H	299	229	0.6	3.15	16	570	< 0.5	< 2	0.43	1.0	17	90	1305	3.96	< 10	< 1	1.68	20	2.47	325	40
573396H	299	229	1.0	3.30	22	590	< 0.5	< 2	0.35	< 0.5	13	76	1115	4.15	< 10	< 1	1.92	10	2.55	255	70
573397H	299	229	3.6	3.58	58	550	< 0.5	< 2	0.36	0.5	17	47	1985	5.44	< 10	< 1	1.85	10	2.76	385	105
573398H	299	229	3.4	4.47	66	740	< 0.5	< 2	0.65	< 0.5	19	55	2230	5.87	10	< 1	2.25	10	2.96	350	86
573399H	299	229	4.6	3.99	40	560	< 0.5	< 2	0.96	0.5	14	59	1635	4.19	< 10	< 1	1.57	20	2.15	230	133
573400H	299	229	2.4	0.35	34	330	< 0.5	2	0.19	2.5	4	100	1590	0.90	< 10	< 1	0.26	30	0.04	140	231
573401H	299	229	1.2	0.37	6	300	< 0.5	< 2	0.33	3.0	10	97	1895	0.86	< 10	< 1	0.27	30	0.04	285	105
573402H	299	229	0.6	0.41	8	480	< 0.5	2	0.04	< 0.5	5	120	1470	0.89	< 10	< 1	0.27	30	0.03	40	90
573403H	299	229	0.4	0.34	14	370	< 0.5	< 2	0.06	0.5	3	118	1595	0.67	< 10	< 1	0.27	30	0.02	30	108
573404H	299	229	0.4	0.49	12	200	< 0.5	2	0.15	0.5	9	80	1895	0.94	< 10	< 1	0.23	40	0.24	50	52
573405H	299	229	0.4	1.83	12	380	< 0.5	2	0.41	0.5	13	98	1130	2.36	< 10	< 1	0.97	30	1.28	120	49
573406H	299	229	0.6	2.55	12	440	< 0.5	< 2	0.53	0.5	17	99	960	3.46	< 10	< 1	1.46	20	1.86	180	103
573407H	299	229	0.6	2.31	6	350	< 0.5	< 2	0.49	1.0	14	109	1195	2.62	< 10	< 1	1.20	20	1.73	160	84
573408H	299	229	1.2	3.12	4	600	< 0.5	< 2	0.69	1.5	17	109	1910	3.38	< 10	< 1	1.71	10	2.23	210	109
573409H	299	229	4.8	3.61	40	180	< 0.5	< 2	0.76	4.5	24	91	2850	4.59	< 10	1	1.80	10	2.68	365	69
573410H	299	229	1.8	3.34	18	510	< 0.5	< 2	0.90	2.0	20	77	2380	4.18	< 10	2	1.76	10	2.63	325	48
573411H	299	229	1.2	4.28	16	660	< 0.5	< 2	1.52	0.5	21	62	2040	3.84	< 10	1	2.12	10	2.74	205	60
573412H	299	229	0.8	4.70	10	750	< 0.5	< 2	1.75	< 0.5	21	69	1720	4.16	< 10	< 1	2.02	10	2.60	215	114
573413H	299	229	0.2	5.54	10	880	< 0.5	< 2	2.42	< 0.5	23	58	857	4.32	< 10	< 1	1.73	10	2.43	250	63
573414H	299	229	0.4	5.17	6	920	< 0.5	< 2	1.92	< 0.5	23	63	1640	4.36	< 10	< 1	2.13	10	2.83	225	142
573415H	299	229	0.2	5.17	32	910	< 0.5	< 2	1.87	< 0.5	23	73	1045	4.93	< 10	< 1	2.30	10	2.72	225	18
573416H	299	229	2.0	4.68	26	130	< 0.5	< 2	1.88	< 0.5	26	67	2350	4.88	< 10	< 1	2.05	10	2.70	280	102
573417H	299	229	0.2	4.12	14	840	< 0.5	< 2	1.57	< 0.5	18	107	764	4.21	< 10	< 1	1.74	10	2.35	225	44
573418H	299	229	0.2	3.67	2	650	< 0.5	< 2	1.26	< 0.5	18	112	1220	4.11	< 10	< 1	1.88	20	2.48	215	111
573419H	299	229	0.2	3.21	< 2	790	< 0.5	< 2	1.38	0.5	17	76	871	4.36	< 10	< 1	1.42	10	2.05	240	210
573420H	299	229	0.2	3.66	24	930	< 0.5	< 2	1.40	< 0.5	17	91	868	4.49	< 10	< 1	1.78	20	2.30	225	290

CERTIFICATION: Jan Bradley

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-JUL-93
Invoice No. : I9317431
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317431

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573381H	299	229	0.01	2	390	956	318	1	38	< 0.01	< 10	< 10	3	< 10	2350
573382H	299	229	< 0.01	< 1	420	84	26	1	43	< 0.01	< 10	< 10	1	< 10	102
573383H	299	229	0.01	2	380	170	52	1	67	< 0.01	< 10	< 10	1	< 10	238
573384H	299	229	0.02	1	380	98	14	1	196	< 0.01	< 10	< 10	3	< 10	272
573385H	299	229	0.02	1	380	72	8	1	412	< 0.01	< 10	< 10	3	< 10	136
573386H	299	229	0.02	1	400	44	2	1	278	< 0.01	< 10	< 10	3	< 10	96
573387H	299	229	0.03	4	540	80	4	9	65	0.03	< 10	< 10	55	< 10	312
573388H	299	229	0.07	10	720	12	4	23	40	0.19	< 10	< 10	144	10	108
573389H	299	229	0.07	11	580	16	2	18	35	0.15	10	< 10	133	10	154
573390H	299	229	0.05	8	740	4	< 2	24	17	0.21	< 10	< 10	138	< 10	138
573391H	299	229	0.06	11	850	4	< 2	27	15	0.26	10	< 10	178	10	144
573392H	299	229	0.07	6	550	14	2	12	22	0.06	10	< 10	87	< 10	140
573393H	299	229	0.05	5	390	26	2	7	18	0.01	< 10	< 10	52	< 10	132
573394H	299	229	0.06	7	410	16	< 2	7	19	0.02	< 10	< 10	56	< 10	132
573395H	299	229	0.10	9	920	4	4	25	25	0.26	10	< 10	177	< 10	134
573396H	299	229	0.12	8	860	10	2	26	28	0.30	< 10	< 10	189	10	108
573397H	299	229	0.08	11	770	72	2	27	24	0.31	< 10	< 10	203	10	158
573398H	299	229	0.13	11	860	38	< 2	31	53	0.33	< 10	< 10	225	10	174
573399H	299	229	0.20	8	780	180	2	24	93	0.24	< 10	< 10	173	10	226
573400H	299	229	0.03	2	160	260	2	< 1	15	< 0.01	< 10	< 10	1	< 10	238
573401H	299	229	0.03	3	160	44	< 2	< 1	15	< 0.01	10	< 10	1	< 10	152
573402H	299	229	0.03	2	140	16	< 2	< 1	18	< 0.01	10	< 10	2	< 10	86
573403H	299	229	0.03	2	130	12	< 2	< 1	14	< 0.01	< 10	< 10	3	< 10	88
573404H	299	229	0.03	3	230	22	< 2	2	12	0.01	10	< 10	17	< 10	122
573405H	299	229	0.12	6	770	12	< 2	12	29	0.15	< 10	< 10	107	< 10	112
573406H	299	229	0.13	7	930	8	2	18	31	0.26	< 10	< 10	143	< 10	128
573407H	299	229	0.12	7	830	10	< 2	15	30	0.17	< 10	< 10	112	< 10	126
573408H	299	229	0.19	11	560	8	2	23	53	0.30	< 10	< 10	170	10	286
573409H	299	229	0.17	13	700	42	2	23	51	0.27	< 10	< 10	193	10	384
573410H	299	229	0.17	12	590	8	2	24	46	0.28	< 10	< 10	187	10	198
573411H	299	229	0.29	13	740	8	2	27	103	0.35	< 10	< 10	222	10	230
573412H	299	229	0.40	13	830	2	4	22	160	0.35	< 10	< 10	206	10	200
573413H	299	229	0.45	12	830	< 2	2	19	233	0.35	< 10	< 10	212	10	190
573414H	299	229	0.34	12	730	4	2	24	177	0.37	< 10	< 10	218	10	160
573415H	299	229	0.34	11	740	6	2	25	165	0.35	< 10	< 10	210	10	130
573416H	299	229	0.26	12	960	6	4	26	126	0.36	< 10	< 10	223	10	136
573417H	299	229	0.32	11	770	4	< 2	19	128	0.34	< 10	< 10	180	10	126
573418H	299	229	0.25	10	740	4	< 2	25	89	0.34	< 10	< 10	204	10	124
573419H	299	229	0.23	7	1160	2	2	18	91	0.31	< 10	< 10	184	10	96
573420H	299	229	0.25	8	1270	2	6	22	105	0.35	< 10	< 10	195	10	100

CERTIFICATION: Ian Bichler

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-JUL-93
Invoice No. :I9317431
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317431

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573421H	299	229	0.2	3.92	16	1000	< 0.5	< 2	1.46	< 0.5	17	75	972	4.70	< 10	< 1	1.95	10	2.50	230	47
573422H	299	229	0.2	2.58	16	860	< 0.5	< 2	0.85	< 0.5	13	73	761	3.63	< 10	< 1	1.54	10	1.95	180	70
573423H	299	229	0.4	2.69	4	900	< 0.5	< 2	0.83	< 0.5	13	73	1240	3.83	< 10	< 1	1.73	10	2.15	180	69
573424H	299	229	0.4	2.47	14	1080	< 0.5	< 2	0.93	< 0.5	13	67	1610	3.80	< 10	< 1	1.71	20	2.04	185	113
573425H	299	229	< 0.2	2.15	< 2	290	< 0.5	< 2	1.60	< 0.5	13	68	507	3.84	< 10	< 1	1.27	20	1.81	195	710
573426H	299	229	< 0.2	2.36	< 2	140	< 0.5	< 2	2.29	< 0.5	12	74	1045	3.20	< 10	< 1	1.51	10	1.90	175	612
573427H	299	229	0.2	1.97	2	90	< 0.5	< 2	2.11	< 0.5	11	82	922	3.20	< 10	< 1	1.15	10	1.61	180	199
573428H	299	229	0.6	1.34	46	150	< 0.5	< 2	1.78	7.5	8	88	582	2.36	< 10	< 1	0.91	10	1.22	285	237
573429H	299	229	1.0	0.61	2	130	< 0.5	2	1.65	0.5	4	106	799	1.39	< 10	< 1	0.34	10	0.33	125	199
573430H	299	229	0.4	2.04	6	180	< 0.5	< 2	2.57	0.5	10	88	1375	2.69	< 10	< 1	1.04	10	1.46	180	385
573431H	299	229	0.6	4.65	20	190	< 0.5	< 2	4.60	0.5	17	39	1505	4.11	10	< 1	1.50	< 10	2.30	315	343
573432H	299	229	0.2	4.08	12	170	< 0.5	< 2	3.32	< 0.5	15	61	1475	3.87	< 10	< 1	1.79	< 10	2.35	225	209
573433H	299	229	0.4	2.92	16	60	< 0.5	< 2	3.04	< 0.5	14	62	949	3.57	< 10	< 1	1.78	< 10	2.35	245	229
573434H	299	229	0.4	2.55	12	160	< 0.5	< 2	1.75	< 0.5	16	65	1090	4.05	< 10	< 1	1.44	10	1.91	215	51
573435H	299	229	0.8	2.73	14	130	< 0.5	< 2	1.91	< 0.5	13	83	1180	3.28	< 10	< 1	1.40	10	1.96	200	122
573436H	299	229	0.8	2.22	8	200	< 0.5	< 2	2.05	1.0	10	75	1275	3.03	< 10	< 1	1.15	10	1.60	165	76
573437H	299	229	1.0	2.27	12	260	< 0.5	< 2	1.91	1.0	12	82	1585	3.48	< 10	< 1	1.11	20	1.60	180	112
573438H	299	229	0.4	2.75	2	120	< 0.5	< 2	2.99	< 0.5	11	78	1290	3.17	< 10	< 1	1.48	10	1.79	175	485
573439H	299	229	1.8	2.07	6	80	< 0.5	2	2.63	1.5	11	99	873	3.19	< 10	< 1	1.34	10	1.72	230	698
573440H	299	229	0.6	3.07	14	150	< 0.5	< 2	2.09	< 0.5	16	53	1480	4.34	< 10	< 1	1.66	10	2.17	250	62
573441H	299	229	0.4	2.38	2	130	< 0.5	< 2	1.94	< 0.5	14	67	1020	3.66	< 10	< 1	1.43	10	1.85	230	138
573442H	299	229	0.4	3.05	14	80	< 0.5	< 2	2.49	< 0.5	16	62	1340	4.21	< 10	< 1	1.77	10	2.26	240	188
573443H	299	229	0.2	3.19	4	100	< 0.5	< 2	2.84	< 0.5	16	49	822	4.45	< 10	< 1	1.52	< 10	2.06	245	153
573444H	299	229	0.4	2.90	14	220	< 0.5	< 2	1.74	< 0.5	15	66	810	4.83	< 10	< 1	1.61	10	2.18	270	55
573445H	299	229	0.4	2.30	10	140	< 0.5	< 2	2.33	< 0.5	13	51	695	3.92	< 10	< 1	0.97	10	1.65	250	251
573446H	299	229	0.2	2.76	2	210	< 0.5	< 2	2.40	< 0.5	14	63	845	4.03	< 10	< 1	1.34	10	1.90	240	150
573447H	299	229	0.2	2.19	8	200	< 0.5	< 2	2.94	< 0.5	11	100	715	2.91	< 10	< 1	1.17	10	1.58	175	353
573448H	299	229	0.6	2.55	6	110	< 0.5	< 2	2.61	< 0.5	12	59	1725	3.31	< 10	< 1	1.28	10	1.70	160	188
573449H	299	229	0.6	2.38	8	90	< 0.5	< 2	2.37	< 0.5	13	40	1300	3.62	< 10	< 1	1.41	10	1.81	175	183
573450H	299	229	0.4	2.02	8	150	< 0.5	< 2	2.20	< 0.5	11	57	1035	3.06	< 10	< 1	1.20	10	1.55	160	189
573451H	299	229	1.6	2.09	< 2	80	< 0.5	6	2.04	< 0.5	13	47	2270	4.19	< 10	< 1	1.20	20	1.70	215	301
573452H	299	229	0.2	2.48	4	130	< 0.5	< 2	1.99	< 0.5	12	71	754	4.10	< 10	< 1	1.07	20	1.68	240	209
573453H	299	229	0.4	2.64	18	90	< 0.5	< 2	2.25	< 0.5	16	42	1015	4.27	< 10	< 1	1.25	10	1.80	215	142
573454H	299	229	0.4	2.90	16	190	< 0.5	< 2	2.76	< 0.5	14	52	1085	4.04	< 10	< 1	1.10	10	1.66	215	200
573455H	299	229	2.4	1.44	46	160	< 0.5	2	4.79	1.5	13	33	1245	4.09	< 10	< 1	0.38	10	1.04	360	134
573456H	299	229	1.2	3.27	4	120	< 0.5	< 2	3.08	1.0	17	66	689	4.07	< 10	< 1	1.34	10	2.21	410	249
573457H	299	229	0.2	5.26	16	310	< 0.5	< 2	2.48	< 0.5	21	24	531	5.22	< 10	< 1	2.66	< 10	3.39	335	62
573458H	299	229	0.2	2.75	8	160	< 0.5	< 2	2.29	< 0.5	14	84	617	3.37	< 10	< 1	1.26	10	1.70	215	216
573459H	299	229	1.8	1.12	42	90	< 0.5	6	1.95	< 0.5	10	48	1605	2.84	< 10	< 1	0.58	10	1.05	125	107
573460H	299	229	0.2	1.57	4	190	< 0.5	< 2	1.85	< 0.5	9	93	401	2.82	< 10	< 1	0.98	20	1.35	145	155

CERTIFICATION: Ian H Bucklen

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Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page I. :2-B
Total Pa. :3
Certificate Date: 27-JUL-93
Invoice No. :19317431
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317431

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573421H	299	229	0.25	7	1270	2	< 2	25	109	0.38	< 10	< 10	213	10	110
573422H	299	229	0.16	4	960	8	2	18	53	0.31	< 10	< 10	146	10	58
573423H	299	229	0.17	7	1020	4	< 2	21	51	0.34	< 10	< 10	165	10	50
573424H	299	229	0.14	7	1150	2	< 2	18	41	0.35	< 10	< 10	150	10	48
573425H	299	229	0.12	5	1210	2	2	15	67	0.30	10	< 10	132	< 10	38
573426H	299	229	0.10	6	1180	< 2	< 2	16	96	0.30	< 10	< 10	134	10	36
573427H	299	229	0.10	6	1030	6	< 2	13	99	0.24	< 10	< 10	115	< 10	42
573428H	299	229	0.06	4	790	72	8	10	62	0.16	< 10	< 10	81	< 10	600
573429H	299	229	0.03	2	390	30	2	2	76	0.02	< 10	< 10	20	< 10	64
573430H	299	229	0.12	6	1050	14	2	10	133	0.17	< 10	< 10	86	< 10	54
573431H	299	229	0.34	7	1550	18	2	17	233	0.26	< 10	< 10	187	10	74
573432H	299	229	0.28	6	1390	< 2	2	20	187	0.32	< 10	< 10	200	20	48
573433H	299	229	0.16	8	1250	8	2	20	122	0.34	< 10	< 10	190	10	60
573434H	299	229	0.14	4	1150	4	2	18	94	0.26	< 10	< 10	145	10	56
573435H	299	229	0.14	7	780	6	< 2	14	102	0.21	< 10	< 10	114	< 10	54
573436H	299	229	0.13	3	1070	16	< 2	13	100	0.19	< 10	< 10	101	< 10	94
573437H	299	229	0.14	3	1240	10	2	12	112	0.19	< 10	< 10	114	< 10	126
573438H	299	229	0.18	6	1010	< 2	4	16	140	0.27	< 10	< 10	140	< 10	32
573439H	299	229	0.12	7	1020	72	2	16	113	0.26	< 10	< 10	118	< 10	132
573440H	299	229	0.23	7	1280	6	2	17	119	0.35	< 10	< 10	177	10	54
573441H	299	229	0.15	6	870	< 2	2	16	91	0.30	< 10	< 10	152	< 10	40
573442H	299	229	0.18	6	1140	< 2	2	19	112	0.35	< 10	< 10	182	10	42
573443H	299	229	0.23	6	1320	< 2	2	16	160	0.32	< 10	< 10	175	10	40
573444H	299	229	0.17	8	1210	4	2	18	106	0.35	< 10	< 10	175	10	56
573445H	299	229	0.14	3	1130	4	< 2	12	148	0.22	< 10	< 10	130	< 10	46
573446H	299	229	0.18	6	1070	2	2	16	135	0.27	< 10	< 10	159	< 10	46
573447H	299	229	0.13	5	1050	< 2	2	13	138	0.17	< 10	< 10	124	10	34
573448H	299	229	0.16	4	1070	2	2	16	137	0.23	< 10	< 10	153	< 10	32
573449H	299	229	0.13	4	820	< 2	2	17	116	0.25	< 10	< 10	156	< 10	46
573450H	299	229	0.12	3	780	2	2	14	102	0.21	< 10	< 10	126	< 10	30
573451H	299	229	0.11	4	970	4	< 2	15	87	0.24	< 10	< 10	130	< 10	40
573452H	299	229	0.17	4	1040	< 2	2	14	109	0.24	< 10	< 10	136	< 10	40
573453H	299	229	0.17	3	1140	< 2	2	17	109	0.25	< 10	< 10	152	< 10	40
573454H	299	229	0.20	3	1370	2	4	17	148	0.23	< 10	< 10	137	< 10	38
573455H	299	229	0.03	3	1180	18	2	10	230	0.04	< 10	< 10	67	< 10	194
573456H	299	229	0.15	7	860	20	2	12	226	0.20	< 10	< 10	122	< 10	134
573457H	299	229	0.22	13	940	< 2	2	14	215	0.31	< 10	< 10	170	10	58
573458H	299	229	0.17	7	910	2	2	11	147	0.23	< 10	< 10	116	< 10	36
573459H	299	229	0.03	5	770	14	2	8	82	0.09	< 10	< 10	67	< 10	42
573460H	299	229	0.08	4	740	2	< 2	12	69	0.19	< 10	< 10	99	< 10	28

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9317431

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573461H	299	229	< 0.2	1.01	2	250	< 0.5	2	1.68	< 0.5	7	63	379	2.14	< 10	< 1	0.55	10	0.92	115	142
573462H	299	229	0.2	2.02	6	100	< 0.5	< 2	1.77	< 0.5	12	102	880	2.93	< 10	< 1	1.28	10	1.80	140	139
573463H	299	229	< 0.2	3.04	4	90	< 0.5	< 2	2.44	< 0.5	16	75	1130	4.08	< 10	< 1	1.55	10	2.07	205	71
573464H	299	229	0.2	3.91	12	70	< 0.5	< 2	3.07	< 0.5	16	79	1055	4.82	< 10	< 1	1.66	10	2.50	225	58
573465H	299	229	0.8	2.06	14	80	< 0.5	6	2.03	< 0.5	13	61	1105	4.30	< 10	< 1	1.31	10	1.93	250	126
573466H	299	229	< 0.2	1.88	4	390	< 0.5	< 2	2.42	< 0.5	11	93	305	3.31	< 10	< 1	0.94	20	1.58	215	199
573467H	299	229	< 0.2	1.53	10	260	< 0.5	< 2	1.69	< 0.5	9	45	283	2.86	< 10	< 1	0.96	10	1.49	135	270
573468H	299	229	0.2	1.85	6	200	< 0.5	< 2	1.99	< 0.5	10	113	869	2.69	< 10	< 1	1.34	20	1.63	130	258
573469H	299	229	< 0.2	1.58	6	200	< 0.5	< 2	1.90	< 0.5	8	55	234	2.64	< 10	< 1	1.12	20	1.48	115	297
573470H	299	229	< 0.2	1.83	8	230	< 0.5	< 2	2.27	< 0.5	9	89	415	2.43	< 10	< 1	1.20	20	1.56	130	329
573471H	299	229	1.2	1.43	8	100	< 0.5	2	2.11	< 0.5	10	59	599	2.76	< 10	< 1	0.74	10	1.37	265	169
573472H	299	229	0.8	0.37	14	200	< 0.5	2	1.00	1.0	4	143	696	1.02	< 10	< 1	0.30	20	0.19	110	435
573473H	299	229	0.2	0.18	6	160	< 0.5	< 2	1.04	< 0.5	1	60	479	0.37	< 10	< 1	0.12	20	0.03	70	400
573474H	299	229	0.4	0.39	6	190	< 0.5	< 2	1.08	0.5	2	129	474	0.46	< 10	< 1	0.26	30	0.06	100	593
573475H	299	229	0.6	0.17	12	160	< 0.5	4	0.95	0.5	2	62	573	0.55	< 10	< 1	0.14	20	0.03	85	939
573476H	299	229	1.6	0.27	6	190	< 0.5	6	1.14	1.0	2	126	617	0.59	< 10	< 1	0.23	20	0.03	110	254
573477H	299	229	0.2	0.32	6	200	< 0.5	< 2	1.00	< 0.5	3	139	493	0.41	< 10	< 1	0.23	20	0.05	70	208
573478H	299	229	0.2	0.27	4	190	< 0.5	< 2	1.13	< 0.5	2	105	373	0.37	< 10	< 1	0.21	20	0.04	80	299
573479H	299	229	0.6	0.31	6	210	< 0.5	2	1.46	< 0.5	3	143	544	0.63	< 10	< 1	0.25	20	0.05	90	239
573480H	299	229	3.0	0.32	30	140	< 0.5	12	1.47	1.5	6	109	909	1.25	< 10	< 1	0.25	20	0.07	110	354
573481H	299	229	1.6	0.59	22	130	< 0.5	2	2.10	< 0.5	6	132	580	1.39	< 10	< 1	0.34	10	0.50	190	214
573482H	299	229	0.6	1.90	14	40	< 0.5	< 2	2.24	1.0	15	178	240	2.89	< 10	< 1	0.14	10	2.14	670	68
848A	299	229	1.2	0.46	28	210	< 0.5	< 2	4.05	0.5	6	51	1190	1.06	< 10	< 1	0.23	< 10	0.23	460	80
849A	299	229	0.4	2.29	20	410	< 0.5	< 2	0.56	1.5	18	51	968	3.22	< 10	< 1	1.32	20	1.73	170	125
850A	299	229	0.2	2.26	4	130	< 0.5	< 2	1.95	< 0.5	13	91	1260	3.25	< 10	< 1	1.42	10	1.83	170	446

CERTIFICATION: Hart R Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 172
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-JUL-93
Invoice No. : I9317431
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317431

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573461H	299	229	0.04	3	580	2	< 2	7	89	0.10	< 10	< 10	61	< 10	22
573462H	299	229	0.09	6	880	< 2	< 2	18	66	0.26	< 10	< 10	132	< 10	28
573463H	299	229	0.21	7	1090	< 2	2	18	112	0.32	< 10	< 10	185	10	36
573464H	299	229	0.24	8	1310	< 2	2	18	143	0.34	< 10	< 10	189	20	38
573465H	299	229	0.08	7	920	4	< 2	19	85	0.24	< 10	< 10	157	< 10	46
573466H	299	229	0.07	7	930	< 2	< 2	14	92	0.16	< 10	< 10	112	10	36
573467H	299	229	0.05	4	790	< 2	2	13	70	0.19	< 10	< 10	103	< 10	26
573468H	299	229	0.12	6	890	< 2	< 2	15	86	0.23	< 10	< 10	116	10	26
573469H	299	229	0.07	6	850	< 2	< 2	14	78	0.23	< 10	< 10	108	< 10	22
573470H	299	229	0.08	6	910	< 2	< 2	14	122	0.23	< 10	< 10	109	< 10	24
573471H	299	229	0.05	8	640	20	2	11	96	0.13	< 10	< 10	83	< 10	64
573472H	299	229	0.04	2	120	76	< 2	< 1	45	< 0.01	< 10	< 10	2	< 10	110
573473H	299	229	0.02	1	80	12	< 2	< 1	40	< 0.01	< 10	< 10	< 1	< 10	12
573474H	299	229	0.04	2	80	32	< 2	< 1	44	< 0.01	10	< 10	< 1	< 10	112
573475H	299	229	0.02	< 1	80	16	2	< 1	38	< 0.01	< 10	< 10	< 1	< 10	74
573476H	299	229	0.04	1	70	36	< 2	< 1	41	< 0.01	< 10	< 10	< 1	< 10	150
573477H	299	229	0.04	2	70	12	< 2	< 1	44	< 0.01	< 10	< 10	< 1	< 10	14
573478H	299	229	0.04	1	80	6	< 2	< 1	39	< 0.01	< 10	< 10	< 1	< 10	16
573479H	299	229	0.03	2	80	10	< 2	< 1	121	< 0.01	< 10	< 10	< 1	< 10	28
573480H	299	229	0.01	2	110	30	4	< 1	155	< 0.01	< 10	< 10	< 1	< 10	174
573481H	299	229	0.03	10	290	8	2	2	127	< 0.01	< 10	< 10	19	< 10	46
573482H	299	229	0.02	60	770	14	2	7	74	0.05	< 10	< 10	53	10	246
848A	299	229	0.02	2	420	38	2	1	253	< 0.01	< 10	< 10	3	< 10	78
849A	299	229	0.10	8	1020	10	2	16	27	0.24	10	< 10	133	< 10	120
850A	299	229	0.10	8	1020	2	2	15	84	0.28	10	< 10	130	< 10	36

CERTIFICATION: Ivan Bachlet

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :5
Certificate Date: 04-AUG-93
Invoice No. :19318020
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318020

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
570759 H	208 274	0.06	0.020	0.27	6460
570760 H	208 276	0.11	0.015	0.31	9840
570761 H	208 276	0.15	0.013	0.31	10760
570762 H	208 276	0.07	0.016	0.38	11260
570763 H	208 276	0.07	0.033	0.34	8000
570764 H	208 276	0.08	0.025	0.24	10560
570765 H	208 274	0.34	0.028	0.41	5500
570766 H	208 276	0.07	0.015	0.24	11580
570767 H	208 276	0.18	0.017	0.21	11260
570768 H	208 273	0.13	0.024	0.17	13620
570769 H	208 273	0.11	0.011	0.14	12580
570770 H	208 273	0.20	0.017	0.31	12600
570771 H	208 273	0.09	0.006	0.17	12600
570772 H	208 276	0.13	0.013	0.17	11100
570773 H	208 273	0.58	0.014	0.48	12260
570774 H	208 276	0.45	0.016	0.27	11280
570775 H	208 276	0.37	0.017	0.21	11640
570776 H	208 273	0.32	0.018	0.21	12360
570777 H	208 273	0.40	0.023	0.21	12740
570778 H	208 276	0.39	0.022	0.17	9660
570779 H	208 273	0.28	0.010	0.14	13040
570780 H	208 273	0.24	0.011	0.34	13260
570781 H	208 273	0.17	0.013	0.27	12760
570782 H	208 273	0.19	0.018	0.24	13040
570783 H	208 273	0.35	0.017	0.34	11960
570784 H	208 273	0.25	0.013	0.34	12560
570785 H	208 276	0.52	0.020	0.38	11440
570786 H	208 273	0.86	0.032	0.58	12420
570787 H	208 276	0.26	0.012	0.31	10920
570788 H	208 276	0.26	0.024	0.38	10940
570789 H	208 273	0.34	0.023	0.34	12460
570790 H	208 273	0.16	0.013	0.24	12640
570791 H	208 273	0.29	0.025	0.38	12700
570792 H	208 273	0.31	0.022	0.55	12860
570793 H	208 276	0.26	0.021	0.38	11700
570794 H	208 276	0.25	0.032	0.34	9340
570795 H	208 276	0.25	0.017	0.34	10240
570796 H	208 276	0.19	0.016	0.48	10760
570797 H	208 273	0.33	0.035	0.34	14540
570798 H	208 273	0.42	0.021	0.38	11840

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Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. :I9318020
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318020

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
570799 H	208 276	0.39	0.056	0.41	11280
570800 H	208 273	0.47	0.040	0.21	11940
570801 H	208 276	0.30	0.055	0.24	11600
570802 H	208 273	0.35	0.018	0.21	11960
570803 H	208 276	0.26	0.031	0.24	11480
570804 H	208 273	0.19	0.034	0.34	12060
570805 H	208 273	0.22	0.020	0.34	12220
570806 H	208 273	0.20	0.054	0.27	11920
570807 H	208 273	0.26	0.025	0.45	12360
570808 H	208 273	0.30	0.058	0.51	12060
570809 H	208 273	0.20	0.030	0.27	12780
570810 H	208 273	0.20	0.010	0.24	12220
570811 H	208 273	0.21	0.025	0.31	12900
570812 H	208 273	0.31	0.058	0.48	11860
570813 H	208 273	0.24	0.070	0.38	11820
570814 H	208 273	0.22	0.025	0.34	12680
570815 H	208 273	0.30	0.067	0.34	12290
570816 H	208 273	0.24	0.023	0.34	12780
570817 H	208 273	0.24	0.034	0.31	12380
570818 H	208 273	0.22	0.052	0.27	12040
570819 H	208 273	0.14	0.019	0.17	11920
570820 H	208 273	0.19	0.028	0.21	13220
570821 H	208 273	0.19	0.038	0.27	12640
570822 H	208 273	0.33	0.033	0.31	13360
570823 H	208 273	0.32	0.029	0.45	13660
570824 H	208 273	0.37	0.032	0.62	12900
570825 H	208 273	0.27	0.035	0.24	13160
570826 H	208 273	0.27	0.026	0.34	12200
570827 H	208 273	0.31	0.086	0.48	12860
570828 H	208 273	0.17	0.016	0.17	12400
570829 H	208 273	0.23	0.023	0.38	12860
570830 H	208 273	0.18	0.019	0.31	12560
570831 H	208 273	0.16	0.052	0.17	13180
570832 H	208 273	0.33	0.031	0.17	13400
570833 H	208 273	0.19	0.036	0.17	12860
570834 H	208 273	0.20	0.031	0.17	12180
570835 H	208 276	0.19	0.032	0.14	11600
570836 H	208 273	0.18	0.035	0.10	12480
570837 H	208 273	0.23	0.044	0.17	12300
570838 H	208 276	0.25	0.059	0.10	11560

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Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : I9318020
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CERTIFICATE OF ANALYSIS A9318020

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
570839 H	208	273	0.21	0.040	0.17	12240
570840 H	208	273	0.22	0.038	0.14	12200
570841 H	208	273	0.17	0.043	0.10	12260
570842 H	208	273	0.14	0.041	0.17	11920
570843 H	208	276	0.15	0.086	0.10	11460
570844 H	208	273	0.16	0.037	0.14	12560
570845 H	208	273	0.14	0.020	0.10	11840
570846 H	208	273	0.03	0.025	< 0.03	12160
570847 H	208	273	0.03	0.029	< 0.03	12640
570848 H	208	273	0.05	0.042	0.03	12880
570849 H	208	276	0.18	0.032	0.07	11620
570850 H	208	273	0.13	0.020	0.10	13260
570851 H	208	273	0.16	0.029	0.38	13400
570852 H	208	273	0.26	0.026	0.65	12900
570853 H	208	276	0.16	0.020	0.10	11420
570854 H	208	273	0.24	0.039	0.17	12880
570855 H	208	273	0.15	0.076	0.17	12750
570856 H	208	276	0.13	0.069	0.10	9400
570857 H	208	273	0.11	0.059	0.10	12420
570858 H	208	273	0.19	0.051	0.10	15700
570859 H	208	273	0.17	0.065	0.07	12600
570860 H	208	273	0.16	0.041	0.14	12980
570861 H	208	273	0.18	0.060	0.17	12220
570862 H	208	273	0.18	0.044	0.14	12980
570863 H	208	273	0.16	0.039	0.10	12480
570864 H	208	276	0.15	0.045	0.07	11750
570865 H	208	273	0.15	0.043	0.10	12060
570866 H	208	273	0.29	0.105	0.21	12520
570867 H	208	273	0.35	0.074	0.31	12380
570868 H	208	273	0.21	0.073	0.21	13040
570869 H	208	273	0.17	0.051	0.14	12660
570870 H	208	273	0.12	0.076	0.14	12540
570871 H	208	273	0.15	0.069	0.14	13160
570872 H	208	273	0.21	0.086	0.14	13080
570873 H	208	273	0.20	0.060	0.14	12260
570874 H	208	273	0.25	0.037	0.14	12940
570875 H	208	273	0.20	0.115	0.14	12540
570876 H	208	273	0.15	0.053	0.10	13000
570877 H	208	273	0.24	0.049	0.24	12500
570878 H	208	273	0.23	0.078	0.17	12300

CERTIFICATION:

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Invoice No. : I9318020
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318020

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
570879 H	208 273	0.28	0.083	0.21	11880
570880 H	208 273	0.19	0.084	0.21	12000
570881 H	208 273	0.31	0.057	0.14	12160
570882 H	208 273	0.13	0.223	0.14	12420
570883 H	208 273	0.26	0.137	0.17	12800
570884 H	208 273	0.25	0.099	0.21	12410
570885 H	208 273	0.30	0.077	0.24	12560
570886 H	208 273	0.23	0.127	0.24	12300
570887 H	208 273	0.20	0.306	0.14	12330
570888 H	208 273	0.38	0.097	0.27	12900
570889 H	208 273	0.16	0.041	0.10	13600
570890 H	208 273	0.26	0.081	0.14	13080
570891 H	208 273	0.23	0.115	0.24	13540
570892 H	208 273	0.21	0.044	0.14	13100
570893 H	208 273	0.13	0.053	0.07	13040
570894 H	208 273	0.21	0.048	0.10	12040
570895 H	208 273	0.12	0.172	0.07	13520
570896 H	208 273	0.16	0.042	0.14	12880
570897 H	208 273	0.21	0.067	0.24	12480
570898 H	208 273	0.24	0.069	0.21	12640
570899 H	208 273	0.23	0.050	0.27	11920
570900 H	208 276	0.23	0.078	0.24	11760
570901 H	208 273	0.17	0.041	0.17	12500
570902 H	208 273	0.12	0.066	0.10	12040
570903 H	208 273	0.24	0.125	0.24	12520
570904 H	208 276	0.26	0.056	0.27	11420
570905 H	208 276	0.19	0.061	0.21	11240
570906 H	208 273	0.22	0.078	0.24	12800
570907 H	208 273	0.16	0.088	0.14	13020
570908 H	208 273	0.21	0.112	0.10	12460
570909 H	208 273	0.22	0.048	0.14	12640
570910 H	208 273	0.20	0.080	0.14	13740
570911 H	208 273	0.28	0.080	0.24	13100
570912 H	208 273	0.35	0.072	0.34	12460
570913 H	208 276	0.17	0.041	0.14	11560
570914 H	208 276	0.20	0.056	0.27	11760
570915 H	208 273	0.17	0.170	0.24	12120
570916 H	208 276	0.17	0.040	0.24	11520
570917 H	208 273	0.18	0.075	0.17	11980
570918 H	208 276	0.18	0.134	0.14	11720

CERTIFICATION: A Christie

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Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : I9318020
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318020

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
570919 H	208 273	0.24	0.110	0.17	12020
570920 H	208 273	0.15	0.096	0.10	11920
570921 H	208 276	0.19	0.058	0.10	10820
570922 H	208 276	0.15	0.063	0.07	11280
570923 H	208 273	0.28	0.086	0.21	12080
570924 H	208 273	0.18	0.047	0.14	12040
570925 H	208 273	0.20	0.080	0.10	12100
570926 H	208 273	0.15	0.172	0.14	11900
570927 H	208 273	0.15	0.154	0.14	12300
570928 H	208 273	0.10	0.027	0.10	12140
570929 H	208 276	0.12	0.046	0.07	11320
570930 H	208 273	0.06	0.142	0.07	12140
570931 H	208 276	0.16	0.052	0.10	11700
570932 H	208 276	0.12	0.075	0.10	11240
570933 H	208 276	0.12	0.046	0.10	11340
570934 H	208 276	0.12	0.046	0.07	11560
570935 H	208 276	0.07	0.026	0.03	11660
570936 H	208 276	0.11	0.056	0.03	11240
570937 H	208 276	0.10	0.098	0.07	11600
570938 H	208 276	0.15	0.052	0.10	11760
570939 H	208 273	0.16	0.070	0.14	11920
570940 H	208 276	0.20	0.051	0.14	11150
570941 H	208 276	0.17	0.058	0.17	11540
570942 H	208 276	0.17	0.089	0.14	11620
570943 H	208 273	0.15	0.124	0.14	11900
570944 H	208 273	0.17	0.026	0.10	11840
570945 H	208 273	0.12	0.037	0.03	12520
570946 H	208 276	0.15	0.139	0.07	10820
570947 H	208 273	0.20	0.029	0.10	12820
570948 H	208 276	0.30	0.023	0.34	11240
570949 H	208 273	0.16	0.035	0.10	12140
570950 H	208 276	0.26	0.047	0.27	11800
570951 H	208 273	0.19	0.044	0.17	13080
570952 H	208 273	0.14	0.045	0.10	12520
570953 H	208 273	0.24	0.054	0.17	12040
570954 H	208 276	0.22	0.107	0.24	11720
570955 H	208 276	0.23	0.031	0.24	11780
570956 H	208 276	0.16	0.048	0.14	11260
570957 H	208 276	0.29	0.049	0.58	8720
800 A	208 274	0.26	0.015	0.10	5500

CERTIFICATION: [signature]

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o: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :5
Certificate Date: 04-AUG-93
Invoice No. :19318021
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318021

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570759 H	299	229	1.6	1.07	6	70	< 0.5	8	1.12	< 0.5	3	62	568	5.86	10	< 1	1.28	20	0.46	55	115
570760 H	299	229	1.4	1.93	8	90	< 0.5	< 2	1.35	< 0.5	7	38	1040	4.36	10	< 1	1.26	20	1.06	120	89
570761 H	299	229	1.4	1.62	< 2	80	< 0.5	8	1.74	0.5	10	44	1470	5.19	10	< 1	1.06	20	0.89	130	77
570762 H	299	229	1.6	1.05	2	110	< 0.5	< 2	0.43	< 0.5	4	67	659	3.83	< 10	< 1	0.95	10	0.44	75	94
570763 H	299	229	2.0	1.20	10	130	< 0.5	4	0.09	< 0.5	5	72	715	4.40	10	< 1	1.10	20	0.46	105	188
570764 H	299	229	1.6	0.99	8	100	< 0.5	2	0.44	< 0.5	6	48	747	4.10	< 10	< 1	0.99	10	0.47	65	152
570765 H	299	229	2.0	2.74	< 2	70	< 0.5	2	0.92	< 0.5	22	46	3490	5.01	10	< 1	1.66	10	1.75	190	165
570766 H	299	229	1.4	1.69	4	110	< 0.5	6	0.32	< 0.5	8	39	802	5.39	10	< 1	1.54	10	0.86	60	94
570767 H	299	229	1.2	2.82	< 2	90	< 0.5	< 2	0.43	< 0.5	18	77	1815	3.79	10	< 1	1.33	20	1.32	110	95
570768 H	299	229	1.4	2.06	< 2	100	< 0.5	< 2	1.03	< 0.5	21	73	1345	3.62	10	< 1	1.17	20	1.44	195	141
570769 H	299	229	1.0	1.66	< 2	70	< 0.5	4	1.34	0.5	19	59	1100	4.32	10	< 1	0.94	20	1.17	215	63
570770 H	299	229	1.4	2.06	6	140	< 0.5	< 2	1.11	< 0.5	22	39	2010	3.81	10	< 1	1.14	20	1.44	315	97
570771 H	299	229	0.8	2.24	< 2	240	< 0.5	< 2	1.60	0.5	15	69	906	3.39	10	< 1	1.02	20	1.42	270	36
570772 H	299	229	0.8	2.25	6	90	< 0.5	6	0.81	< 0.5	26	34	1305	5.09	10	< 1	1.15	20	1.29	375	72
570773 H	299	229	3.8	2.91	6	60	< 0.5	< 2	0.28	< 0.5	25	45	6120	4.36	10	< 1	1.21	10	1.17	145	80
570774 H	299	229	1.8	2.44	18	40	< 0.5	10	0.22	< 0.5	22	49	4940	4.75	10	< 1	0.98	10	0.92	100	86
570775 H	299	229	1.2	2.53	6	60	< 0.5	10	0.62	< 0.5	27	53	3740	4.24	10	< 1	1.16	20	1.27	185	103
570776 H	299	229	1.2	2.10	2	60	< 0.5	4	0.36	< 0.5	26	38	3220	4.67	10	< 1	1.15	30	1.22	245	103
570777 H	299	229	1.4	2.16	16	50	< 0.5	6	0.19	< 0.5	17	71	4240	3.86	< 10	< 1	0.90	10	0.99	70	134
570778 H	299	229	1.4	1.46	8	40	< 0.5	6	0.21	< 0.5	17	56	4210	4.11	< 10	< 1	0.57	10	0.49	35	129
570779 H	299	229	0.6	1.41	12	40	< 0.5	< 2	0.08	< 0.5	14	65	3100	3.10	< 10	< 1	0.38	10	0.22	15	59
570780 H	299	229	1.6	2.44	< 2	90	< 0.5	< 2	0.30	0.5	18	57	2470	3.59	10	< 1	1.03	30	1.12	260	73
570781 H	299	229	1.4	2.70	2	110	< 0.5	2	0.41	0.5	25	94	1795	5.10	10	< 1	1.21	20	1.23	450	75
570782 H	299	229	1.8	1.85	12	100	< 0.5	8	0.61	< 0.5	24	61	1945	4.50	10	< 1	0.85	20	0.73	435	107
570783 H	299	229	2.6	2.42	36	30	< 0.5	< 2	0.36	< 0.5	16	99	3820	4.57	< 10	< 1	0.68	10	0.36	50	113
570784 H	299	229	2.4	2.56	42	30	< 0.5	14	0.37	0.5	19	36	2630	6.64	10	< 1	1.26	10	1.33	410	78
570785 H	299	229	3.4	2.75	12	40	< 0.5	< 2	0.32	< 0.5	20	59	5070	4.06	10	< 1	0.77	10	0.71	85	105
570786 H	299	229	3.2	2.99	32	60	< 0.5	< 2	0.29	< 0.5	21	77	8940	3.71	10	< 1	1.01	20	0.78	110	182
570787 H	299	229	1.8	2.28	2	100	< 0.5	2	0.28	0.5	15	69	2760	2.35	10	< 1	0.52	30	0.51	70	75
570788 H	299	229	2.6	1.95	8	180	< 0.5	2	0.74	< 0.5	26	43	2620	4.73	10	< 1	0.99	30	1.26	1020	163
570789 H	299	229	2.4	2.75	2	100	< 0.5	< 2	0.48	0.5	29	88	3190	2.96	10	< 1	1.23	10	1.36	160	137
570790 H	299	229	1.2	2.46	< 2	90	< 0.5	2	0.56	0.5	30	39	1560	5.56	10	< 1	1.51	20	1.87	600	69
570791 H	299	229	2.6	1.75	10	110	< 0.5	4	0.67	< 0.5	23	38	2980	4.52	10	< 1	1.05	20	1.26	440	138
570792 H	299	229	2.2	2.04	< 2	80	< 0.5	8	1.00	0.5	25	39	3140	4.50	10	< 1	1.33	20	1.60	320	117
570793 H	299	229	1.6	1.59	2	30	< 0.5	4	0.67	< 0.5	29	63	2530	5.43	10	< 1	0.94	20	1.19	405	116
570794 H	299	229	1.2	2.45	18	80	< 0.5	4	0.20	1.0	19	75	2480	3.58	< 10	< 1	0.83	10	0.80	125	177
570795 H	299	229	1.4	2.52	8	90	< 0.5	2	0.19	< 0.5	18	50	2500	3.05	< 10	< 1	0.67	10	0.65	100	93
570796 H	299	229	1.2	1.70	< 2	140	< 0.5	< 2	0.34	< 0.5	18	63	1925	3.18	10	< 1	0.63	40	0.83	275	96
570797 H	299	229	1.8	1.63	4	100	< 0.5	< 2	0.18	< 0.5	11	75	3350	2.03	< 10	< 1	0.40	20	0.40	35	203
570798 H	299	229	1.8	1.95	18	110	< 0.5	< 2	0.13	< 0.5	12	81	4200	2.15	< 10	< 1	0.47	30	0.49	40	116

CERTIFICATION: Ivan Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : I9318021
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318021

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570759 H	299	229	0.10	2	760	16	2	7	31	0.10	< 10	< 10	59	< 10	14
570760 H	299	229	0.06	2	660	12	2	11	25	0.11	< 10	< 10	86	< 10	24
570761 H	299	229	0.07	3	810	6	2	9	24	0.08	< 10	< 10	83	< 10	26
570762 H	299	229	0.04	1	640	4	< 2	6	51	0.04	< 10	< 10	46	< 10	18
570763 H	299	229	0.03	2	1090	2	2	8	65	0.05	< 10	< 10	58	< 10	18
570764 H	299	229	0.03	2	680	4	2	6	21	0.04	< 10	< 10	43	10	18
570765 H	299	229	0.03	5	500	2	4	13	13	0.14	< 10	< 10	102	< 10	46
570766 H	299	229	0.04	2	880	14	2	11	22	0.11	< 10	< 10	86	< 10	12
570767 H	299	229	0.02	5	860	10	2	12	19	0.10	< 10	< 10	84	< 10	24
570768 H	299	229	0.03	4	860	12	< 2	10	16	0.10	< 10	< 10	80	< 10	32
570769 H	299	229	0.02	8	900	4	2	6	20	0.07	< 10	< 10	53	< 10	28
570770 H	299	229	0.02	4	870	14	2	12	14	0.12	< 10	< 10	90	< 10	38
570771 H	299	229	0.03	7	1040	4	4	10	19	0.10	< 10	< 10	78	< 10	34
570772 H	299	229	0.02	4	1290	8	2	9	10	0.09	< 10	< 10	74	< 10	54
570773 H	299	229	0.02	4	1570	< 2	2	12	7	0.11	< 10	< 10	84	< 10	36
570774 H	299	229	0.02	6	1120	14	< 2	9	7	0.09	< 10	< 10	68	< 10	28
570775 H	299	229	0.02	5	980	14	2	11	11	0.12	< 10	< 10	83	< 10	38
570776 H	299	229	0.02	6	1040	10	2	11	8	0.12	< 10	< 10	85	< 10	38
570777 H	299	229	0.01	5	510	2	2	8	8	0.06	< 10	< 10	59	< 10	16
570778 H	299	229	0.01	5	690	4	2	4	10	0.03	< 10	< 10	34	< 10	12
570779 H	299	229	0.01	4	730	2	2	4	9	0.01	< 10	< 10	24	< 10	8
570780 H	299	229	0.02	6	900	< 2	2	10	8	0.10	< 10	< 10	73	< 10	50
570781 H	299	229	0.02	5	910	2	4	13	11	0.12	< 10	< 10	92	< 10	80
570782 H	299	229	0.01	6	960	6	< 2	9	8	0.06	< 10	< 10	60	< 10	44
570783 H	299	229	0.01	7	890	4	4	7	8	0.01	< 10	< 10	51	< 10	18
570784 H	299	229	0.02	4	960	12	4	12	8	0.11	< 10	< 10	99	< 10	62
570785 H	299	229	0.01	8	1040	2	< 2	11	11	0.06	< 10	< 10	78	< 10	28
570786 H	299	229	0.02	7	1120	8	< 2	11	11	0.07	< 10	< 10	83	< 10	34
570787 H	299	229	0.01	6	1200	22	2	9	24	0.02	< 10	< 10	56	< 10	36
570788 H	299	229	0.02	4	790	18	4	13	8	0.11	< 10	< 10	91	10	82
570789 H	299	229	0.02	5	960	10	2	16	6	0.14	< 10	< 10	99	< 10	38
570790 H	299	229	0.04	4	1240	6	4	15	9	0.20	< 10	< 10	118	< 10	80
570791 H	299	229	0.02	3	880	2	4	10	21	0.11	< 10	< 10	76	< 10	60
570792 H	299	229	0.03	5	1390	2	2	9	14	0.15	< 10	< 10	83	< 10	44
570793 H	299	229	0.02	5	850	< 2	6	9	11	0.10	< 10	< 10	66	< 10	48
570794 H	299	229	0.03	8	800	14	4	13	17	0.10	< 10	< 10	78	< 10	38
570795 H	299	229	0.02	12	970	14	< 2	9	25	0.07	< 10	< 10	61	< 10	36
570796 H	299	229	0.02	10	860	14	< 2	11	42	0.06	< 10	< 10	59	< 10	42
570797 H	299	229	0.01	7	860	14	2	8	86	0.01	< 10	< 10	43	< 10	16
570798 H	299	229	0.01	7	990	22	< 2	9	34	0.02	< 10	< 10	46	< 10	20

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. :I9318021
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318021

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570799 H	299	229	2.8	2.73	8	90	< 0.5	< 2	0.17	< 0.5	16	95	4230	2.45	< 10	< 1	0.66	20	0.60	55	334
570800 H	299	229	1.6	2.28	4	70	< 0.5	6	0.14	< 0.5	21	130	4940	2.76	< 10	< 1	0.64	20	0.60	45	232
570801 H	299	229	1.8	2.18	12	100	< 0.5	2	0.21	< 0.5	16	120	3230	2.26	< 10	< 1	0.51	30	0.47	50	329
570802 H	299	229	1.6	2.04	< 2	90	< 0.5	4	0.17	< 0.5	14	123	3870	2.50	< 10	< 1	0.43	20	0.28	50	104
570803 H	299	229	1.2	2.01	8	80	< 0.5	2	0.35	< 0.5	18	123	2620	3.13	10	< 1	0.88	20	0.85	145	170
570804 H	299	229	1.4	2.46	< 2	180	< 0.5	6	1.52	< 0.5	17	115	1930	3.65	10	< 1	1.41	20	1.86	230	175
570805 H	299	229	1.8	1.77	< 2	80	< 0.5	2	1.30	< 0.5	21	109	2210	4.00	10	< 1	1.01	20	1.26	205	121
570806 H	299	229	1.8	1.70	4	80	< 0.5	< 2	1.74	< 0.5	15	101	2030	3.12	10	< 1	0.87	20	1.07	180	316
570807 H	299	229	2.0	1.30	< 2	130	< 0.5	< 2	1.26	< 0.5	16	135	2710	2.97	10	< 1	0.56	30	0.69	180	144
570808 H	299	229	2.4	1.75	6	100	< 0.5	< 2	0.55	< 0.5	21	124	3070	3.19	10	< 1	0.70	20	0.79	215	326
570809 H	299	229	1.6	1.64	16	140	< 0.5	4	1.81	< 0.5	11	135	1985	2.34	10	< 1	0.75	30	1.02	155	154
570810 H	299	229	1.4	1.15	< 2	150	< 0.5	< 2	0.87	< 0.5	9	105	1990	1.96	< 10	< 1	0.63	10	0.78	105	59
570811 H	299	229	1.4	1.71	8	130	< 0.5	6	1.08	< 0.5	12	129	2050	2.38	10	< 1	0.83	20	1.08	105	131
570812 H	299	229	2.2	1.48	< 2	210	< 0.5	6	1.22	< 0.5	14	129	2990	1.98	10	< 1	0.70	30	1.00	155	331
570813 H	299	229	2.4	1.54	2	70	< 0.5	< 2	1.28	< 0.5	20	140	2470	3.47	10	< 1	0.72	30	0.90	175	393
570814 H	299	229	2.0	1.34	< 2	90	< 0.5	2	1.27	< 0.5	19	117	2260	2.82	10	< 1	0.67	20	0.72	150	144
570815 H	299	229	2.2	1.28	2	70	< 0.5	< 2	1.45	< 0.5	17	113	2900	3.03	10	< 1	0.69	20	0.87	160	379
570816 H	299	229	1.8	1.10	< 2	140	< 0.5	2	1.40	< 0.5	15	109	2490	2.42	10	< 1	0.61	20	0.79	155	133
570817 H	299	229	1.6	1.08	< 2	170	< 0.5	< 2	1.22	< 0.5	14	74	2440	2.37	10	< 1	0.57	30	0.96	150	202
570818 H	299	229	2.0	1.24	< 2	100	< 0.5	< 2	1.72	< 0.5	15	103	2240	2.54	10	< 1	0.60	30	1.05	130	285
570819 H	299	229	1.0	1.20	< 2	140	< 0.5	4	1.94	< 0.5	11	92	1310	2.06	10	< 1	0.56	30	0.91	150	108
570820 H	299	229	1.2	1.22	< 2	110	< 0.5	2	1.94	< 0.5	15	109	1875	2.28	10	< 1	0.56	20	0.72	145	156
570821 H	299	229	1.2	1.07	< 2	160	< 0.5	2	1.49	< 0.5	16	59	1905	2.16	10	< 1	0.46	20	0.60	135	196
570822 H	299	229	2.2	1.00	6	20	< 0.5	< 2	1.06	< 0.5	51	97	3360	4.30	10	< 1	0.51	30	0.59	160	171
570823 H	299	229	2.4	1.24	< 2	110	< 0.5	6	0.65	< 0.5	24	62	3180	3.23	10	< 1	0.62	30	0.79	265	159
570824 H	299	229	2.4	1.85	< 2	90	< 0.5	8	1.02	< 0.5	19	87	3620	3.64	10	< 1	0.92	20	1.06	210	176
570825 H	299	229	2.2	1.28	< 2	50	< 0.5	4	0.84	< 0.5	19	86	2720	4.47	< 10	< 1	0.70	10	0.57	145	191
570826 H	299	229	2.8	1.26	70	30	< 0.5	4	1.27	< 0.5	12	133	2720	4.30	< 10	< 1	0.62	10	0.69	135	147
570827 H	299	229	2.4	1.08	80	20	< 0.5	< 2	0.91	< 0.5	17	78	3150	5.53	< 10	< 1	0.59	10	0.71	120	471
570828 H	299	229	1.2	1.27	< 2	60	< 0.5	2	1.02	< 0.5	16	97	1630	3.92	< 10	< 1	0.49	10	0.81	165	81
570829 H	299	229	1.6	1.12	< 2	70	< 0.5	6	1.05	0.5	13	56	2210	2.87	< 10	< 1	0.57	10	0.85	100	115
570830 H	299	229	1.4	1.14	< 2	70	< 0.5	< 2	0.82	< 0.5	16	79	1865	2.80	< 10	< 1	0.56	10	0.81	105	111
570831 H	299	229	1.4	0.62	16	30	< 0.5	4	0.55	< 0.5	13	76	1660	4.62	< 10	< 1	0.32	10	0.37	80	306
570832 H	299	229	2.2	0.97	< 2	10	< 0.5	8	0.65	< 0.5	26	108	3320	8.64	< 10	< 1	0.49	< 10	0.60	95	182
570833 H	299	229	1.4	1.14	4	70	< 0.5	< 2	1.14	< 0.5	14	73	1920	3.24	< 10	< 1	0.58	20	0.91	170	200
570834 H	299	229	1.6	0.88	< 2	70	< 0.5	4	1.21	0.5	10	100	1940	2.26	< 10	< 1	0.48	10	0.68	115	178
570835 H	299	229	2.0	0.62	< 2	70	< 0.5	< 2	0.47	< 0.5	9	85	1920	2.07	< 10	< 1	0.32	10	0.28	65	178
570836 H	299	229	1.8	0.92	6	140	< 0.5	< 2	0.72	< 0.5	7	98	1805	1.66	< 10	< 1	0.56	10	0.68	65	192
570837 H	299	229	2.0	0.69	< 2	70	< 0.5	< 2	0.53	< 0.5	18	65	2330	3.23	< 10	< 1	0.38	10	0.29	80	257
570838 H	299	229	1.6	0.90	< 2	110	< 0.5	< 2	0.21	< 0.5	9	133	2340	1.54	< 10	< 1	0.39	10	0.31	60	334

CERTIFICATION: Hartt Buchler

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Page Number :2-B
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570799 H	299	229	0.01	7	1060	12	6	11	25	0.04	< 10	< 10	75	< 10	22
570800 H	299	229	0.02	6	700	8	6	8	29	0.03	< 10	< 10	46	< 10	18
570801 H	299	229	0.01	8	850	10	2	8	47	0.01	< 10	< 10	49	< 10	18
570802 H	299	229	0.01	7	750	12	2	7	18	0.01	< 10	< 10	39	< 10	16
570803 H	299	229	0.02	4	860	10	4	9	25	0.07	< 10	< 10	58	< 10	30
570804 H	299	229	0.05	9	820	12	4	18	24	0.15	< 10	< 10	116	< 10	36
570805 H	299	229	0.04	5	740	4	2	12	24	0.09	< 10	< 10	86	< 10	26
570806 H	299	229	0.02	4	670	16	6	9	23	0.07	< 10	< 10	64	< 10	22
570807 H	299	229	0.04	5	560	8	4	8	22	0.03	< 10	< 10	54	< 10	20
570808 H	299	229	0.03	6	530	< 2	4	8	17	0.04	< 10	< 10	53	< 10	30
570809 H	299	229	0.02	6	370	12	< 2	7	20	0.04	< 10	< 10	49	< 10	18
570810 H	299	229	0.03	4	310	8	2	5	16	0.03	< 10	< 10	41	< 10	16
570811 H	299	229	0.03	6	480	6	< 2	8	17	0.04	< 10	< 10	52	< 10	16
570812 H	299	229	0.04	4	480	4	2	8	21	0.05	< 10	< 10	55	< 10	22
570813 H	299	229	0.02	6	540	12	< 2	7	18	0.03	< 10	< 10	47	< 10	22
570814 H	299	229	0.04	3	500	4	2	7	20	0.04	< 10	< 10	48	< 10	18
570815 H	299	229	0.03	5	470	2	6	7	22	0.04	< 10	< 10	50	< 10	20
570816 H	299	229	0.04	3	540	10	< 2	8	25	0.06	< 10	< 10	55	< 10	22
570817 H	299	229	0.03	5	470	8	4	8	26	0.04	< 10	< 10	50	< 10	24
570818 H	299	229	0.03	4	500	4	2	8	30	0.04	< 10	< 10	50	< 10	18
570819 H	299	229	0.03	4	490	6	2	8	32	0.03	< 10	< 10	44	< 10	20
570820 H	299	229	0.03	5	560	2	4	7	30	0.03	< 10	< 10	45	< 10	18
570821 H	299	229	0.02	3	550	< 2	2	7	24	0.02	< 10	< 10	39	< 10	18
570822 H	299	229	0.02	8	440	< 2	4	3	21	0.01	< 10	< 10	27	< 10	18
570823 H	299	229	0.03	5	470	4	4	7	16	0.03	< 10	< 10	47	< 10	38
570824 H	299	229	0.02	7	560	6	4	9	17	0.07	< 10	< 10	60	< 10	32
570825 H	299	229	0.02	7	560	12	4	6	12	0.02	< 10	< 10	32	< 10	20
570826 H	299	229	0.02	4	530	16	4	6	21	0.02	< 10	< 10	38	< 10	30
570827 H	299	229	0.02	4	450	22	10	4	12	0.01	< 10	< 10	27	< 10	24
570828 H	299	229	0.01	6	590	14	2	7	15	0.01	< 10	< 10	36	< 10	20
570829 H	299	229	0.02	5	440	10	4	8	18	0.03	< 10	< 10	43	< 10	22
570830 H	299	229	0.01	4	490	14	2	8	17	0.03	< 10	< 10	41	< 10	24
570831 H	299	229	0.01	5	370	8	4	2	13	< 0.01	< 10	< 10	14	< 10	22
570832 H	299	229	0.01	4	410	14	10	8	12	0.03	< 10	< 10	36	70	24
570833 H	299	229	0.02	5	450	10	2	9	20	0.05	< 10	< 10	47	30	28
570834 H	299	229	0.02	4	480	4	2	6	21	0.03	< 10	< 10	35	< 10	26
570835 H	299	229	0.01	3	350	12	2	2	10	< 0.01	< 10	< 10	16	< 10	26
570836 H	299	229	0.02	3	300	14	2	6	17	0.04	< 10	< 10	42	< 10	20
570837 H	299	229	0.01	3	350	12	2	3	16	0.01	< 10	< 10	21	< 10	18
570838 H	299	229	0.01	4	370	14	2	3	25	0.01	< 10	< 10	27	< 10	28

CERTIFICATION: Ian Bichler

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WHITEHORSE, YT
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Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9318021

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570839 H	299	229	1.2	0.97	< 2	110	< 0.5	< 2	0.23	< 0.5	9	87	2040	1.44	< 10	< 1	0.53	20	0.55	65	238
570840 H	299	229	1.2	0.67	2	100	< 0.5	< 2	0.30	< 0.5	7	106	2080	1.35	< 10	< 1	0.37	10	0.35	85	165
570841 H	299	229	1.0	0.39	< 2	70	< 0.5	< 2	0.66	< 0.5	7	74	1690	1.17	< 10	< 1	0.24	10	0.21	55	236
570842 H	299	229	0.8	1.03	4	110	< 0.5	< 2	0.74	< 0.5	10	113	1405	1.52	< 10	< 1	0.63	20	0.74	75	216
570843 H	299	229	0.8	1.13	< 2	90	< 0.5	< 2	0.43	< 0.5	12	93	1575	2.13	< 10	< 1	0.64	20	0.82	120	464
570844 H	299	229	1.0	0.88	4	90	< 0.5	< 2	0.42	< 0.5	9	68	1630	1.50	< 10	1	0.49	20	0.65	100	196
570845 H	299	229	0.8	0.76	6	110	< 0.5	< 2	0.56	< 0.5	8	78	1455	1.42	< 10	< 1	0.38	20	0.52	110	101
570846 H	299	229	0.4	0.43	4	30	< 0.5	< 2	0.30	< 0.5	9	84	318	4.27	< 10	< 1	0.25	10	0.15	90	151
570847 H	299	229	0.6	0.42	< 2	< 10	< 0.5	< 2	0.19	< 0.5	29	41	279	12.75	< 10	< 1	0.23	< 10	0.09	45	137
570848 H	299	229	0.6	0.53	< 2	10	< 0.5	< 2	0.78	< 0.5	21	86	587	7.09	< 10	< 1	0.33	10	0.38	150	228
570849 H	299	229	1.0	0.82	< 2	160	< 0.5	< 2	0.54	< 0.5	9	102	1755	1.66	< 10	< 1	0.40	20	0.58	160	180
570850 H	299	229	0.6	0.84	2	90	< 0.5	< 2	0.77	< 0.5	8	76	1325	1.50	< 10	< 1	0.46	20	0.69	95	99
570851 H	299	229	2.0	0.75	2	40	< 0.5	< 2	1.00	< 0.5	18	91	1675	4.42	< 10	< 1	0.42	20	0.59	250	154
570852 H	299	229	2.0	0.77	< 2	50	< 0.5	6	0.61	< 0.5	13	91	2690	3.30	< 10	< 1	0.39	10	0.48	145	180
570853 H	299	229	1.2	0.61	< 2	30	< 0.5	2	0.82	< 0.5	12	85	1710	1.85	< 10	< 1	0.24	20	0.48	260	126
570854 H	299	229	1.4	0.69	< 2	40	< 0.5	< 2	0.39	< 0.5	14	76	2510	1.86	< 10	< 1	0.29	10	0.31	130	242
570855 H	299	229	0.8	0.52	< 2	50	< 0.5	< 2	0.49	< 0.5	8	73	1580	1.26	< 10	< 1	0.30	20	0.33	85	501
570856 H	299	229	0.6	0.99	2	130	< 0.5	2	1.03	< 0.5	8	86	1310	1.36	< 10	< 1	0.45	10	0.59	55	361
570857 H	299	229	0.6	1.04	< 2	140	< 0.5	< 2	0.86	< 0.5	10	78	1090	1.53	< 10	< 1	0.56	10	0.75	90	274
570858 H	299	229	1.4	0.94	< 2	80	< 0.5	< 2	0.40	< 0.5	13	69	1825	1.99	< 10	< 1	0.50	10	0.62	100	340
570859 H	299	229	0.8	0.99	< 2	100	< 0.5	2	0.55	< 0.5	10	83	1760	2.12	< 10	< 1	0.52	20	0.81	145	398
570860 H	299	229	1.0	0.90	6	100	< 0.5	< 2	0.33	< 0.5	15	78	1510	1.98	< 10	< 1	0.44	10	0.62	170	274
570861 H	299	229	0.8	0.85	4	110	< 0.5	< 2	0.59	< 0.5	11	77	1875	1.52	< 10	< 1	0.43	10	0.55	75	384
570862 H	299	229	0.8	0.90	2	170	< 0.5	< 2	0.69	< 0.5	10	94	1840	1.57	< 10	< 1	0.45	10	0.70	145	264
570863 H	299	229	1.0	0.45	14	100	< 0.5	< 2	0.52	< 0.5	8	73	1700	1.46	< 10	< 1	0.22	10	0.27	70	239
570864 H	299	229	0.8	0.91	< 2	100	< 0.5	< 2	0.80	< 0.5	8	120	1395	1.34	< 10	< 1	0.35	10	0.52	105	287
570865 H	299	229	0.8	0.92	2	110	< 0.5	2	0.65	< 0.5	9	93	1485	1.79	< 10	< 1	0.48	10	0.65	120	294
570866 H	299	229	1.4	0.49	6	60	< 0.5	< 2	0.47	< 0.5	9	58	2940	1.68	< 10	< 1	0.19	20	0.25	60	670
570867 H	299	229	1.8	0.41	2	60	< 0.5	< 2	0.41	< 0.5	14	71	3560	2.30	< 10	< 1	0.19	10	0.21	50	470
570868 H	299	229	0.8	0.72	< 2	110	< 0.5	< 2	0.33	< 0.5	10	91	2130	1.44	< 10	< 1	0.32	10	0.37	45	448
570869 H	299	229	1.2	0.82	2	80	< 0.5	< 2	0.51	< 0.5	8	95	1720	1.25	< 10	< 1	0.34	10	0.57	75	285
570870 H	299	229	0.6	0.70	< 2	100	< 0.5	< 2	0.96	< 0.5	9	86	1245	1.67	< 10	< 1	0.39	20	0.68	110	488
570871 H	299	229	1.2	0.80	< 2	70	< 0.5	< 2	0.91	< 0.5	10	54	1480	2.17	< 10	< 1	0.48	10	0.78	135	381
570872 H	299	229	1.2	0.63	6	30	< 0.5	< 2	0.64	< 0.5	14	56	2180	2.00	< 10	< 1	0.29	20	0.45	120	519
570873 H	299	229	1.2	0.63	10	60	< 0.5	2	0.39	< 0.5	16	46	2070	2.07	< 10	1	0.34	20	0.41	85	335
570874 H	299	229	1.4	0.76	14	50	< 0.5	< 2	0.54	< 0.5	16	57	2490	2.50	< 10	< 1	0.34	10	0.53	110	207
570875 H	299	229	1.0	0.77	12	80	< 0.5	< 2	0.72	< 0.5	10	51	1985	1.75	< 10	< 1	0.40	20	0.65	115	628
570876 H	299	229	1.0	0.63	4	90	< 0.5	< 2	0.48	< 0.5	11	87	1600	1.63	< 10	< 1	0.36	10	0.43	75	319
570877 H	299	229	1.6	0.90	12	100	< 0.5	< 2	0.53	< 0.5	12	65	2500	1.70	< 10	< 1	0.44	20	0.62	100	296
570878 H	299	229	1.2	0.71	8	110	< 0.5	< 2	0.52	< 0.5	9	135	2340	1.24	< 10	< 1	0.36	20	0.45	100	527

CERTIFICATION: Ian R Bradshaw

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CERTIFICATE OF ANALYSIS A9318021

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570839 H	299	229	0.02	4	350	10	< 2	6	17	0.03	< 10	< 10	41	< 10	24
570840 H	299	229	0.01	3	200	8	< 2	4	10	0.01	< 10	< 10	23	< 10	20
570841 H	299	229	0.01	2	220	8	< 2	1	9	< 0.01	< 10	< 10	9	< 10	14
570842 H	299	229	0.02	4	370	6	< 2	6	14	0.04	< 10	< 10	45	< 10	18
570843 H	299	229	0.01	5	420	6	< 2	8	9	0.05	< 10	< 10	47	< 10	26
570844 H	299	229	0.01	3	370	6	< 2	7	8	0.03	< 10	< 10	40	< 10	22
570845 H	299	229	0.01	4	330	6	< 2	6	11	0.01	< 10	< 10	32	< 10	28
570846 H	299	229	0.01	4	430	8	< 2	1	7	< 0.01	< 10	< 10	5	< 10	18
570847 H	299	229	< 0.01	5	350	6	< 2	1	6	< 0.01	< 10	< 10	2	< 10	20
570848 H	299	229	0.01	6	450	4	< 2	1	8	< 0.01	< 10	< 10	7	< 10	18
570849 H	299	229	0.01	5	300	14	2	7	14	0.02	< 10	< 10	35	< 10	22
570850 H	299	229	0.01	4	370	8	< 2	6	12	0.03	< 10	< 10	33	< 10	22
570851 H	299	229	0.01	7	450	52	< 2	4	12	0.01	< 10	< 10	21	< 10	24
570852 H	299	229	0.01	7	490	16	< 2	6	12	0.01	< 10	< 10	29	< 10	32
570853 H	299	229	0.01	5	460	8	< 2	8	10	< 0.01	< 10	< 10	32	< 10	30
570854 H	299	229	0.01	4	590	2	< 2	7	9	0.01	< 10	< 10	29	< 10	22
570855 H	299	229	0.01	2	360	10	2	3	6	< 0.01	< 10	< 10	17	< 10	12
570856 H	299	229	0.01	2	410	6	< 2	4	15	0.02	< 10	< 10	29	< 10	12
570857 H	299	229	0.01	3	400	2	< 2	5	12	0.03	< 10	< 10	39	< 10	18
570858 H	299	229	0.01	4	390	4	< 2	6	11	0.03	< 10	< 10	38	< 10	22
570859 H	299	229	0.01	6	440	6	< 2	7	15	0.04	< 10	< 10	45	< 10	26
570860 H	299	229	0.01	4	310	24	< 2	5	10	0.03	< 10	< 10	34	< 10	36
570861 H	299	229	0.01	5	360	4	< 2	5	19	0.02	< 10	< 10	32	< 10	20
570862 H	299	229	0.01	4	400	4	< 2	6	14	0.03	< 10	< 10	42	< 10	24
570863 H	299	229	0.01	3	280	< 2	< 2	1	11	< 0.01	< 10	< 10	8	< 10	16
570864 H	299	229	0.01	4	430	4	< 2	6	14	0.01	< 10	< 10	30	< 10	20
570865 H	299	229	0.01	4	450	4	< 2	6	10	0.03	< 10	< 10	37	< 10	16
570866 H	299	229	< 0.01	4	370	6	< 2	2	8	< 0.01	< 10	< 10	10	< 10	14
570867 H	299	229	0.01	7	280	4	< 2	1	7	< 0.01	< 10	< 10	4	< 10	14
570868 H	299	229	0.01	3	360	6	< 2	4	10	0.01	< 10	< 10	20	< 10	12
570869 H	299	229	< 0.01	4	400	6	2	5	14	0.01	< 10	< 10	28	< 10	18
570870 H	299	229	0.01	3	530	6	2	5	14	0.02	< 10	< 10	29	< 10	16
570871 H	299	229	0.01	4	520	2	< 2	7	13	0.03	< 10	< 10	39	< 10	16
570872 H	299	229	< 0.01	5	490	6	< 2	7	11	0.01	< 10	< 10	27	< 10	20
570873 H	299	229	0.01	4	560	10	< 2	6	8	0.01	< 10	< 10	23	< 10	14
570874 H	299	229	0.01	6	500	10	2	7	13	0.01	< 10	< 10	33	< 10	28
570875 H	299	229	0.01	2	440	8	4	7	17	0.02	< 10	< 10	35	< 10	22
570876 H	299	229	0.01	4	380	12	2	4	18	0.01	< 10	< 10	25	< 10	16
570877 H	299	229	0.01	4	450	12	2	7	11	0.02	< 10	< 10	43	< 10	20
570878 H	299	229	0.01	4	490	8	2	6	10	0.01	< 10	< 10	31	< 10	26

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570879 H	299	229	1.8	0.80	4	120	< 0.5	< 2	0.52	< 0.5	9	104	2920	1.48	< 10	1	0.36	10	0.44	120	540
570880 H	299	229	0.8	1.15	2	170	< 0.5	< 2	0.53	< 0.5	8	176	1860	1.27	< 10	< 1	0.53	20	0.61	100	510
570881 H	299	229	3.2	1.00	8	170	< 0.5	18	0.91	< 0.5	8	67	3010	1.48	< 10	< 1	0.46	40	0.72	180	333
570882 H	299	229	0.6	0.77	2	120	< 0.5	< 2	0.63	< 0.5	7	98	1250	1.61	< 10	< 1	0.34	40	0.52	100	1450
570883 H	299	229	1.8	0.98	6	150	< 0.5	< 2	0.52	< 0.5	10	65	2740	1.60	< 10	< 1	0.46	40	0.64	85	844
570884 H	299	229	1.8	0.89	6	80	< 0.5	2	0.50	< 0.5	10	84	2530	2.44	< 10	< 1	0.42	60	0.63	85	615
570885 H	299	229	2.2	0.59	4	70	< 0.5	2	0.57	< 0.5	12	86	3280	1.65	< 10	< 1	0.28	60	0.37	75	501
570886 H	299	229	1.4	0.91	2	140	< 0.5	2	0.14	< 0.5	10	79	2380	1.60	< 10	< 1	0.49	70	0.56	45	828
570887 H	299	229	1.2	0.63	8	80	< 0.5	< 2	0.64	< 0.5	10	101	2030	2.00	< 10	< 1	0.32	50	0.48	100	1985
570888 H	299	229	2.6	0.87	8	80	< 0.5	< 2	0.74	< 0.5	12	77	4040	1.99	< 10	< 1	0.46	60	0.84	115	526
570889 H	299	229	1.0	0.87	6	70	< 0.5	< 2	1.04	< 0.5	10	58	1620	2.07	< 10	< 1	0.43	50	0.96	135	223
570890 H	299	229	1.6	1.01	14	110	< 0.5	< 2	0.48	< 0.5	15	67	2760	1.83	< 10	< 1	0.48	50	0.74	75	488
570891 H	299	229	1.4	1.00	2	70	< 0.5	< 2	0.55	< 0.5	14	75	2410	2.38	< 10	< 1	0.44	40	0.65	80	630
570892 H	299	229	1.2	1.33	6	110	0.5	< 2	0.56	< 0.5	10	77	2210	1.87	< 10	< 1	0.51	30	0.85	65	258
570893 H	299	229	0.8	1.28	< 2	140	< 0.5	< 2	0.78	< 0.5	8	104	1310	1.69	< 10	< 1	0.58	40	0.83	120	294
570894 H	299	229	1.4	1.26	6	110	< 0.5	< 2	1.13	< 0.5	8	129	2180	1.72	< 10	< 1	0.47	60	0.87	140	260
570895 H	299	229	0.6	1.04	< 2	90	< 0.5	< 2	0.77	< 0.5	7	86	1145	1.19	< 10	< 1	0.41	40	0.60	110	966
570896 H	299	229	1.6	0.81	10	60	< 0.5	2	1.42	< 0.5	14	69	1670	2.67	< 10	< 1	0.34	30	0.72	350	233
570897 H	299	229	1.8	0.76	< 2	50	< 0.5	2	0.83	< 0.5	17	49	2180	3.05	< 10	< 1	0.41	40	0.62	165	375
570898 H	299	229	1.4	1.48	10	80	< 0.5	< 2	0.58	< 0.5	17	116	2470	2.49	< 10	< 1	0.60	40	0.82	110	379
570899 H	299	229	1.4	1.49	< 2	140	< 0.5	< 2	0.44	< 0.5	12	72	2460	1.66	< 10	< 1	0.59	40	0.89	65	286
570900 H	299	229	1.0	1.49	6	200	0.5	< 2	0.50	< 0.5	7	91	2430	1.47	< 10	< 1	0.64	40	1.00	70	459
570901 H	299	229	0.8	1.62	4	160	0.5	2	0.53	0.5	12	66	1775	1.61	< 10	< 1	0.65	40	1.04	80	229
570902 H	299	229	0.6	1.43	2	120	< 0.5	< 2	0.48	0.5	11	133	1285	1.85	< 10	< 1	0.50	30	0.58	75	394
570903 H	299	229	1.2	1.31	< 2	140	< 0.5	< 2	0.54	0.5	7	98	2470	1.50	< 10	< 1	0.66	70	0.83	115	725
570904 H	299	229	1.2	1.75	12	150	< 0.5	< 2	0.51	< 0.5	13	108	2680	1.70	< 10	< 1	0.68	40	0.96	90	346
570905 H	299	229	1.0	1.67	2	150	< 0.5	< 2	0.53	0.5	10	80	1995	1.43	< 10	< 1	0.59	20	0.91	90	357
570906 H	299	229	1.2	1.79	< 2	160	< 0.5	< 2	0.57	< 0.5	10	121	2300	1.49	< 10	< 1	0.72	50	1.02	115	455
570907 H	299	229	3.0	1.30	4	70	< 0.5	< 2	0.54	< 0.5	8	85	1675	2.43	< 10	< 1	0.53	30	0.65	110	512
570908 H	299	229	1.4	1.30	4	160	< 0.5	< 2	0.32	0.5	12	118	2220	1.59	< 10	< 1	0.62	40	0.58	75	693
570909 H	299	229	1.8	0.76	10	120	< 0.5	< 2	0.51	< 0.5	10	67	2300	1.64	< 10	< 1	0.38	80	0.46	90	301
570910 H	299	229	2.0	0.63	< 2	70	< 0.5	2	0.90	< 0.5	10	71	2080	2.34	< 10	< 1	0.34	50	0.62	150	463
570911 H	299	229	1.6	1.16	< 2	80	< 0.5	< 2	0.42	< 0.5	16	85	3030	2.19	< 10	< 1	0.50	50	0.52	100	465
570912 H	299	229	1.6	1.03	4	120	< 0.5	< 2	0.45	0.5	13	96	3590	1.57	< 10	< 1	0.29	40	0.33	75	388
570913 H	299	229	0.8	0.74	6	140	< 0.5	< 2	0.17	0.5	9	100	1690	1.16	< 10	< 1	0.21	70	0.12	30	253
570914 H	299	229	1.0	1.07	2	140	< 0.5	< 2	0.17	0.5	13	101	2020	1.31	< 10	< 1	0.37	70	0.39	40	315
570915 H	299	229	1.2	1.06	2	120	< 0.5	4	0.15	0.5	7	88	1750	1.25	< 10	< 1	0.19	60	0.09	35	1025
570916 H	299	229	1.6	0.91	10	70	< 0.5	< 2	0.15	< 0.5	17	78	1820	2.11	< 10	< 1	0.16	50	0.12	80	227
570917 H	299	229	1.2	1.18	10	100	< 0.5	< 2	0.22	< 0.5	13	111	1855	1.74	< 10	< 1	0.38	50	0.44	45	432
570918 H	299	229	0.8	0.89	2	140	< 0.5	< 2	0.16	< 0.5	15	84	2020	1.34	< 10	< 1	0.27	50	0.18	30	866

CERTIFICATION: Ian Bidder

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WHITEHORSE, YT
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Project : CASINO 173
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-B
Total Pages :5
Certificate Date: 04-AUG-93
Invoice No. :I9318021
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318021

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570879 H	299	229	0.01	4	360	12	2	6	10	0.01	< 10	< 10	31	< 10	26
570880 H	299	229	0.01	4	380	12	2	7	12	0.03	< 10	< 10	43	< 10	26
570881 H	299	229	0.01	4	480	44	2	9	15	0.03	< 10	< 10	47	< 10	58
570882 H	299	229	0.01	6	480	12	2	8	12	0.01	< 10	< 10	35	20	24
570883 H	299	229	0.01	4	510	12	2	8	13	0.03	< 10	< 10	39	< 10	28
570884 H	299	229	0.01	5	420	14	< 2	8	15	0.02	< 10	< 10	38	< 10	26
570885 H	299	229	0.01	5	410	10	2	5	12	< 0.01	< 10	< 10	21	< 10	24
570886 H	299	229	0.01	5	390	14	< 2	8	10	0.03	< 10	< 10	40	< 10	32
570887 H	299	229	0.01	4	480	4	4	6	12	0.01	< 10	< 10	22	< 10	36
570888 H	299	229	0.01	6	350	6	2	8	21	0.03	< 10	< 10	43	< 10	24
570889 H	299	229	0.02	4	340	< 2	2	6	32	0.01	< 10	< 10	33	< 10	20
570890 H	299	229	0.01	7	470	8	< 2	8	22	0.02	< 10	< 10	44	< 10	24
570891 H	299	229	0.01	7	480	10	2	7	27	0.01	< 10	< 10	31	< 10	22
570892 H	299	229	0.01	5	430	16	< 2	6	46	0.01	< 10	< 10	36	< 10	26
570893 H	299	229	0.01	4	360	6	< 2	8	25	0.02	< 10	< 10	38	< 10	18
570894 H	299	229	0.01	6	410	6	< 2	7	38	0.01	< 10	< 10	33	< 10	18
570895 H	299	229	0.01	5	380	6	2	4	32	0.01	< 10	< 10	23	< 10	20
570896 H	299	229	0.01	7	440	8	2	6	35	0.01	< 10	< 10	26	< 10	44
570897 H	299	229	0.01	6	460	6	< 2	4	21	0.01	< 10	< 10	22	< 10	24
570898 H	299	229	0.01	7	480	12	< 2	8	34	0.04	< 10	< 10	49	< 10	36
570899 H	299	229	0.01	5	400	14	< 2	8	44	0.03	< 10	< 10	50	< 10	28
570900 H	299	229	0.02	4	410	12	< 2	9	50	0.04	< 10	< 10	52	< 10	26
570901 H	299	229	0.02	6	460	20	< 2	9	44	0.04	< 10	< 10	57	< 10	38
570902 H	299	229	0.01	7	510	26	< 2	8	22	0.02	< 10	< 10	36	< 10	38
570903 H	299	229	0.01	6	460	22	< 2	8	19	0.04	< 10	< 10	44	< 10	26
570904 H	299	229	0.03	7	400	22	< 2	9	36	0.04	< 10	< 10	58	< 10	36
570905 H	299	229	0.01	6	470	26	2	9	39	0.03	< 10	< 10	50	< 10	44
570906 H	299	229	0.01	6	510	22	2	10	27	0.04	< 10	< 10	59	< 10	36
570907 H	299	229	0.01	4	520	26	2	9	17	0.02	< 10	< 10	41	< 10	44
570908 H	299	229	0.01	6	340	30	2	7	19	0.03	< 10	< 10	40	< 10	42
570909 H	299	229	0.01	4	320	26	< 2	6	16	0.01	10	< 10	25	< 10	40
570910 H	299	229	0.01	4	360	4	< 2	6	21	0.01	< 10	< 10	23	< 10	18
570911 H	299	229	0.01	6	360	4	2	7	19	0.02	< 10	< 10	35	< 10	28
570912 H	299	229	0.01	5	400	14	2	7	20	< 0.01	< 10	< 10	32	< 10	36
570913 H	299	229	0.01	6	490	30	< 2	5	14	< 0.01	10	< 10	23	< 10	42
570914 H	299	229	0.01	6	480	24	< 2	10	13	0.02	< 10	< 10	47	< 10	40
570915 H	299	229	0.01	4	410	12	2	6	12	< 0.01	10	< 10	25	< 10	34
570916 H	299	229	< 0.01	6	460	16	< 2	9	10	< 0.01	< 10	< 10	28	< 10	44
570917 H	299	229	0.01	6	470	20	< 2	9	13	0.02	< 10	< 10	40	< 10	34
570918 H	299	229	0.01	6	430	8	< 2	7	11	< 0.01	10	< 10	23	< 10	24

CERTIFICATION: Ian W Bailey

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CERTIFICATE OF ANALYSIS A9318021

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
570919 H	299	229	1.6	1.55	8	120	< 0.5	2	0.23	< 0.5	10	76	2510	1.75	< 10	< 1	0.39	50	0.11	20	635
570920 H	299	229	1.2	1.27	2	90	< 0.5	< 2	0.16	< 0.5	13	108	1575	2.00	< 10	< 1	0.34	30	0.12	20	529
570921 H	299	229	2.4	1.46	4	180	< 0.5	< 2	0.33	< 0.5	9	114	1975	1.48	< 10	< 1	0.56	40	0.51	55	337
570922 H	299	229	0.8	1.23	8	140	< 0.5	< 2	0.31	< 0.5	11	139	1535	1.56	< 10	< 1	0.32	40	0.24	85	383
570923 H	299	229	1.4	1.12	4	150	< 0.5	< 2	0.34	0.5	11	117	2850	1.60	< 10	< 1	0.32	40	0.25	105	501
570924 H	299	229	0.8	1.60	< 2	140	< 0.5	< 2	0.51	< 0.5	16	154	1810	1.80	10	< 1	0.45	60	0.52	110	278
570925 H	299	229	1.0	1.71	2	150	< 0.5	2	0.44	< 0.5	11	126	2010	1.48	10	< 1	0.55	70	0.81	75	417
570926 H	299	229	0.6	1.36	6	190	< 0.5	2	0.55	< 0.5	8	139	1455	1.04	< 10	< 1	0.45	50	0.60	85	918
570927 H	299	229	0.6	1.23	2	130	< 0.5	< 2	0.48	< 0.5	12	102	1445	1.60	< 10	< 1	0.50	50	0.65	70	796
570928 H	299	229	0.4	1.34	4	140	< 0.5	2	0.65	< 0.5	14	108	925	1.49	< 10	< 1	0.46	40	0.76	70	138
570929 H	299	229	0.4	1.45	4	120	< 0.5	< 2	0.55	< 0.5	14	104	1180	1.50	< 10	< 1	0.53	40	0.88	70	236
570930 H	299	229	0.2	1.33	6	110	< 0.5	< 2	0.62	< 0.5	6	141	562	0.85	10	< 1	0.40	80	0.65	55	815
570931 H	299	229	0.6	1.78	< 2	150	0.5	< 2	0.48	< 0.5	13	98	1640	1.56	< 10	< 1	0.57	20	0.88	65	275
570932 H	299	229	0.4	1.98	2	130	< 0.5	2	0.63	< 0.5	16	99	1195	1.91	10	< 1	0.70	70	1.09	85	384
570933 H	299	229	0.6	1.90	12	160	0.5	< 2	0.61	< 0.5	15	102	1310	1.65	10	< 1	0.62	50	0.99	70	232
570934 H	299	229	0.6	1.66	2	170	0.5	< 2	0.61	< 0.5	12	94	1190	1.56	10	< 1	0.59	70	0.99	70	219
570935 H	299	229	0.2	1.34	< 2	160	< 0.5	< 2	0.58	< 0.5	10	92	646	1.09	< 10	< 1	0.57	50	0.88	70	125
570936 H	299	229	0.4	1.69	8	170	< 0.5	< 2	0.61	< 0.5	17	144	1140	1.59	< 10	< 1	0.62	30	0.89	80	287
570937 H	299	229	0.8	1.30	4	140	< 0.5	2	0.48	< 0.5	8	96	1015	1.10	< 10	< 1	0.54	60	0.74	70	535
570938 H	299	229	0.8	1.22	4	140	< 0.5	< 2	0.62	< 0.5	9	108	1495	1.17	10	< 1	0.50	70	0.81	95	288
570939 H	299	229	0.8	1.44	8	160	< 0.5	2	0.61	< 0.5	9	106	1675	1.34	< 10	< 1	0.56	50	0.77	85	408
570940 H	299	229	1.6	0.97	6	140	< 0.5	2	0.72	< 0.5	11	74	2080	1.25	< 10	< 1	0.43	40	0.68	115	292
570941 H	299	229	0.8	1.12	< 2	160	< 0.5	2	0.42	< 0.5	7	110	1785	0.98	< 10	< 1	0.48	30	0.58	55	329
570942 H	299	229	1.2	0.97	6	130	< 0.5	2	0.55	< 0.5	9	125	1775	1.06	< 10	1	0.42	40	0.59	65	513
570943 H	299	229	0.8	0.99	2	110	< 0.5	2	0.33	< 0.5	7	105	1565	0.84	< 10	< 1	0.36	60	0.37	40	782
570944 H	299	229	0.8	1.71	4	180	< 0.5	< 2	0.55	< 0.5	10	150	1725	1.25	10	1	0.67	80	0.96	75	143
570945 H	299	229	0.6	1.89	< 2	250	0.5	< 2	0.64	< 0.5	8	91	1140	1.40	< 10	< 1	0.78	50	1.21	105	198
570946 H	299	229	1.0	1.95	6	150	0.5	< 2	0.61	< 0.5	12	135	1580	1.89	< 10	< 1	0.82	50	1.20	105	761
570947 H	299	229	1.2	1.84	< 2	270	0.5	< 2	0.55	< 0.5	13	100	2090	1.80	< 10	< 1	0.79	30	1.12	130	166
570948 H	299	229	1.8	1.89	4	190	< 0.5	< 2	0.46	< 0.5	18	152	3080	2.27	< 10	< 1	0.63	30	0.93	135	121
570949 H	299	229	1.0	1.28	6	130	< 0.5	2	0.47	< 0.5	12	137	1605	2.41	10	< 1	0.38	130	0.48	260	200
570950 H	299	229	2.0	1.50	4	120	< 0.5	< 2	0.54	< 0.5	12	125	2820	2.28	< 10	< 1	0.51	50	0.64	280	269
570951 H	299	229	1.4	1.77	2	130	< 0.5	2	0.44	< 0.5	13	145	1855	2.05	< 10	< 1	0.69	40	0.96	95	233
570952 H	299	229	0.8	1.66	4	180	< 0.5	< 2	0.51	< 0.5	13	146	1275	1.62	10	< 1	0.58	80	0.87	95	241
570953 H	299	229	2.0	0.97	4	30	< 0.5	< 2	0.25	< 0.5	10	116	2440	1.45	10	< 1	0.20	80	0.22	235	362
570954 H	299	229	2.0	1.30	8	130	< 0.5	6	0.28	< 0.5	12	166	2380	1.65	10	< 1	0.38	60	0.40	160	708
570955 H	299	229	1.8	1.45	4	170	< 0.5	2	0.47	< 0.5	16	135	2390	1.93	< 10	< 1	0.50	40	0.62	160	179
570956 H	299	229	1.4	1.36	8	90	< 0.5	2	0.34	< 0.5	22	102	1655	2.54	< 10	< 1	0.48	50	0.54	130	274
570957 H	299	229	2.2	1.19	4	150	< 0.5	4	0.48	< 0.5	16	129	2970	2.02	< 10	< 1	0.39	50	0.48	175	281
800 A	299	229	1.6	1.85	16	60	< 0.5	4	0.09	< 0.5	18	96	2740	3.44	< 10	< 1	0.76	20	0.44	40	76

CERTIFICATION: Stewart Bamber

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
570919 H	299	229	0.01	5	910	14	< 2	6	15	< 0.01	< 10	< 10	24	< 10	28
570920 H	299	229	0.01	6	600	18	< 2	6	10	< 0.01	< 10	< 10	22	< 10	32
570921 H	299	229	0.01	6	490	24	2	8	15	0.02	< 10	< 10	39	< 10	32
570922 H	299	229	0.01	6	550	14	< 2	8	13	< 0.01	< 10	< 10	27	< 10	26
570923 H	299	229	0.01	5	500	22	< 2	9	13	< 0.01	10	< 10	28	< 10	30
570924 H	299	229	0.01	7	810	12	2	10	21	0.02	10	< 10	42	< 10	24
570925 H	299	229	0.01	5	460	6	2	11	36	0.03	10	< 10	55	< 10	18
570926 H	299	229	0.01	5	420	10	2	10	23	0.01	10	< 10	40	< 10	18
570927 H	299	229	0.01	6	450	8	2	7	27	0.02	10	< 10	37	< 10	16
570928 H	299	229	0.01	4	480	16	< 2	8	40	0.02	< 10	< 10	42	< 10	20
570929 H	299	229	0.02	6	430	14	< 2	8	42	0.02	< 10	< 10	46	< 10	20
570930 H	299	229	0.01	4	520	16	2	11	30	0.01	10	< 10	47	< 10	22
570931 H	299	229	0.01	6	510	12	2	10	48	0.03	< 10	< 10	59	< 10	18
570932 H	299	229	0.01	6	460	12	2	11	56	0.04	< 10	< 10	73	< 10	18
570933 H	299	229	0.02	4	440	16	2	9	63	0.03	< 10	< 10	60	< 10	16
570934 H	299	229	0.02	4	490	14	< 2	9	59	0.03	10	< 10	56	< 10	20
570935 H	299	229	0.03	4	420	4	< 2	9	59	0.03	10	< 10	54	< 10	14
570936 H	299	229	0.03	5	340	4	2	8	59	0.03	< 10	< 10	50	< 10	14
570937 H	299	229	0.01	3	390	4	2	9	38	0.02	< 10	< 10	44	< 10	10
570938 H	299	229	0.01	5	370	6	< 2	9	59	0.02	10	< 10	48	< 10	16
570939 H	299	229	0.02	4	380	6	< 2	8	55	0.02	< 10	< 10	45	< 10	14
570940 H	299	229	0.01	4	330	8	2	7	46	0.01	< 10	< 10	34	< 10	16
570941 H	299	229	0.01	4	300	6	< 2	6	43	0.01	< 10	< 10	35	< 10	18
570942 H	299	229	0.01	4	380	4	< 2	8	38	0.01	< 10	< 10	39	< 10	20
570943 H	299	229	0.01	4	530	6	< 2	7	22	0.01	10	< 10	32	< 10	20
570944 H	299	229	0.02	5	380	8	< 2	12	51	0.04	10	< 10	67	< 10	20
570945 H	299	229	0.02	4	440	6	< 2	12	68	0.06	< 10	< 10	72	< 10	22
570946 H	299	229	0.03	7	510	6	2	11	54	0.07	< 10	< 10	70	< 10	22
570947 H	299	229	0.03	6	440	8	< 2	11	62	0.07	< 10	< 10	76	< 10	28
570948 H	299	229	0.02	6	480	6	< 2	13	48	0.05	< 10	< 10	72	< 10	30
570949 H	299	229	0.01	6	500	6	< 2	10	30	0.01	20	< 10	40	< 10	24
570950 H	299	229	0.01	5	750	6	< 2	11	22	0.03	< 10	< 10	54	< 10	26
570951 H	299	229	0.02	5	420	8	< 2	10	45	0.05	< 10	< 10	60	< 10	26
570952 H	299	229	0.01	6	470	14	2	11	47	0.03	10	< 10	64	< 10	24
570953 H	299	229	0.01	5	510	12	< 2	12	18	< 0.01	20	< 10	37	< 10	32
570954 H	299	229	0.01	7	550	10	2	9	19	0.02	10	< 10	41	< 10	26
570955 H	299	229	0.01	6	470	8	< 2	11	20	0.03	< 10	< 10	55	< 10	26
570956 H	299	229	0.01	5	500	10	2	9	20	0.03	< 10	< 10	45	< 10	22
570957 H	299	229	0.01	5	510	12	< 2	10	16	0.02	< 10	< 10	43	< 10	20
800 A	299	229	0.02	5	610	8	< 2	5	10	0.03	< 10	< 10	37	< 10	18

CERTIFICATION: Ian Bichler

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-AUG-93
Invoice No. : I9318403
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318403

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574765	208	276	0.14	0.023	0.24	8900						
H574766	208	274	0.05	0.026	0.31	3580						
H574767	208	276	0.05	0.023	0.10	10640						
H574768	208	276	0.03	0.014	0.14	8460						
H574769	208	274	0.02	0.015	0.17	4120						
H574770	208	276	0.02	0.030	0.27	10020						
H574771	208	273	0.04	0.024	0.14	12780						
H574772	208	274	0.04	0.018	0.10	5720						
H574773	208	276	0.03	0.019	0.21	9060						
H574774	208	273	0.03	0.031	0.14	14400						
H574775	208	276	0.16	0.026	0.62	10900						
H574776	208	273	0.03	0.020	0.21	13580						
H574777	208	273	0.04	0.019	0.14	12240						
H574778	208	274	0.06	0.025	0.24	6900						
H574779	208	276	0.05	0.020	0.14	7880						
H574780	208	276	0.06	0.016	0.51	11800						
H574781	208	273	0.12	0.021	0.45	12140						
H574782	208	276	0.03	0.045	0.10	8920						
H574783	208	276	0.11	0.043	0.58	8380						
H574784	208	276	0.03	0.028	0.17	10500						
H574785	208	273	0.06	0.023	0.21	12840						
H574786	208	273	0.16	0.031	0.27	12620						
H574787	208	273	0.14	0.044	0.27	13520						
H574788	208	276	0.27	0.020	0.31	11320						
H574789	208	273	0.56	0.025	0.45	12320						
H574790	208	276	0.55	0.016	0.45	11800						
H574791	208	273	0.74	0.031	0.17	12420						
H574792	208	273	0.37	0.020	0.31	12060						
H574793	208	273	0.52	0.020	0.24	13160						
H574794	208	273	0.31	0.022	0.21	13900						
H574795	208	273	0.56	0.021	0.41	13260						
H574796	208	273	0.19	0.018	0.10	13400						
H574797	208	276	0.99	0.021	0.17	8800						
H574798	208	273	0.47	0.022	0.45	12860						
H574799	208	276	0.34	0.018	0.14	9620						
H574800	208	273	0.43	0.035	0.21	12860						
H574801	208	273	0.47	0.015	0.21	12700						
H574802	208	273	0.37	0.028	0.24	12660						
H574803	208	273	0.32	0.019	0.31	14780						
H574804	208	273	0.16	0.013	0.03	12580						

CERTIFICATION: A. Hashi

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Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 10-AUG-93
Invoice No. :I9318403
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Account :FC

CERTIFICATE OF ANALYSIS A9318403

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H574805	208 273	0.35	0.014	0.31	13340
H574806	208 273	0.32	0.024	0.24	12060
H574807	208 273	0.17	0.019	0.10	13840
H574808	208 273	0.39	0.032	0.41	13960
H574809	208 273	0.37	0.041	0.27	12120
H574810	208 273	0.27	0.016	0.21	13540
H574811	208 276	0.29	0.025	0.21	10740
H574812	208 273	0.28	0.027	0.14	12860
H574813	208 273	0.28	0.026	0.34	12300
H574814	208 273	0.22	0.020	0.17	13420
H574815	208 273	0.29	0.011	0.24	13500
H574816	208 273	0.33	0.018	0.31	12580
H574817	208 276	0.65	0.015	0.45	11020
H574818	208 273	0.63	0.020	0.58	12900
H574819	208 276	0.55	0.029	0.48	10680
H574820	208 273	0.29	0.023	0.27	12120
H574821	208 273	0.29	0.020	0.51	12180
H574822	208 273	0.42	0.024	0.58	12440
H574823	208 273	0.45	0.059	0.34	13200
H574824	208 273	0.31	0.015	0.27	12060
H574825	208 273	0.43	0.012	0.41	12820
H574826	208 276	0.48	0.023	0.48	11160
H574827	208 273	0.43	0.025	0.41	13420
H574828	208 276	0.38	0.020	0.31	11760
H574829	208 276	0.45	0.030	0.62	11200
H574830	208 276	0.34	0.021	0.24	11780
H574831	208 276	0.25	0.026	0.24	11600
H574832	208 276	0.36	0.023	0.38	11740
H574833	208 276	0.37	0.019	0.27	11300
H574834	208 276	0.55	0.032	0.38	11300
H574835	208 273	0.44	0.035	0.31	12100
H574836	208 276	0.28	0.022	0.21	7540
H574837	208 274	0.24	0.032	0.17	6640
H574838	208 274	0.30	0.020	0.24	6960
H574839	208 274	0.25	0.026	0.17	7000
H574840	208 274	0.25	0.014	0.21	7120
H574841	208 274	0.27	0.031	0.24	6880
H574842	208 276	0.23	0.021	0.14	7540
H574843	208 276	0.27	0.017	0.17	7300
H574844	208 276	0.25	0.020	0.14	7320

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Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-AUG-93
Invoice No. :19318403
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318403

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574845	208	274	0.38	0.029	0.14	6340						
H574846	208	274	0.29	0.027	0.14	7240						
H574847	208	276	0.33	0.021	0.14	7600						
H574848	208	274	0.23	0.055	0.10	7060						
H574849	208	274	0.30	0.017	0.27	7020						
H574850	208	274	0.39	0.027	0.27	7220						
H574851	208	274	0.27	0.023	0.17	6800						
H574852	208	274	0.19	0.038	0.10	7100						
H574853	208	274	0.25	0.018	0.17	6980						
H574854	208	274	0.25	0.020	0.17	6580						
H574855	208	274	0.30	0.024	0.21	7000						
H574856	208	276	0.19	0.046	< 0.03	7500						
H574857	208	274	0.20	0.034	0.07	6180						
H574858	208	274	0.29	0.057	0.17	6980						
H574859	208	276	0.30	0.022	0.24	7420						
H574860	208	274	0.21	0.054	0.14	7180						
H574861	208	274	0.30	0.066	0.21	6920						
H574862	208	276	0.28	0.038	0.10	7660						
H574863	208	274	0.35	0.042	0.31	6880						
H574864	208	276	0.26	0.029	0.27	7860						
H574865	208	274	0.35	0.018	0.24	6880						
H574866	208	276	0.31	0.026	0.24	7280						
H574867	208	274	0.31	0.027	0.17	6820						
H574868	208	274	0.27	0.036	0.21	7220						
H574869	208	274	0.22	0.022	0.27	7120						
H574870	208	274	0.27	0.029	0.21	6680						
H574871	208	276	0.28	0.032	0.10	7460						
H574872	208	276	0.33	0.044	0.27	7340						
H574873	208	274	0.36	0.020	0.24	7180						
H574874	208	274	0.27	0.056	0.21	7260						
H574875	208	274	0.27	0.029	0.17	6760						
H574876	208	274	0.27	0.017	0.17	7080						
H574877	208	274	0.36	0.044	0.27	7100						
H574878	208	274	0.27	0.023	0.14	6600						
H574879	208	274	0.24	0.020	0.17	7220						
H574880	208	276	0.27	0.010	0.21	7360						
H574881	208	274	0.49	0.021	0.62	7080						
H574882	208	274	0.28	0.021	0.38	7080						
H574883	208	274	0.34	0.015	0.34	7120						
H574884	208	274	0.40	0.082	0.27	7200						

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Project : CASINO 174
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Certificate Date: 10-AUG-93
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CERTIFICATE OF ANALYSIS A9318403

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574885	208	274	0.37	0.021	0.24	7260						
H574886	208	274	0.63	0.018	0.86	6920						
H574887	208	276	0.24	0.046	0.27	7420						
H574888	208	274	0.26	0.044	0.24	7220						
H574889	208	274	0.27	0.022	0.27	7160						
H574890	208	274	0.33	0.036	0.24	7200						
H574891	208	274	0.38	0.017	0.31	7160						
H574892	208	276	0.29	0.026	5.38	7300						
H574893	208	274	0.35	0.046	0.31	7100						
H574894	208	274	0.25	0.047	0.27	6960						
H574895	208	274	0.23	0.041	0.14	7060						
H574896	208	274	0.23	0.086	0.24	7040						
H574897	208	274	0.22	0.038	0.17	7120						
H574898	208	274	0.20	0.020	0.10	6760						
H574899	208	274	0.37	0.017	0.58	7260						
H574900	208	276	0.35	0.017	0.31	7360						
H574901	208	274	0.33	0.026	0.24	7200						
H574902	208	276	0.51	0.039	0.38	7480						
H574903	208	276	0.49	0.018	0.41	7500						
H574904	208	274	0.33	0.067	0.24	5940						
H574905	208	274	0.31	0.023	0.48	6960						
H574906	208	274	0.29	0.018	0.24	5760						
H574907	208	274	0.32	0.029	0.38	6920						
H574908	208	276	0.29	0.116	0.24	7320						
H574909	208	274	0.32	0.086	0.27	7260						
H574910	208	276	0.31	0.017	0.34	7340						
H574911	208	276	0.47	0.015	0.48	7500						
H574912	208	274	0.34	0.019	0.38	7040						
H574913	208	274	0.36	0.016	0.34	7160						
H574914	208	276	0.59	0.010	0.58	7400						
H574915	208	276	0.58	0.034	0.58	7360						
H574916	208	274	0.69	0.045	0.72	7180						
H574917	208	274	0.45	0.042	0.38	7100						
H574918	208	274	0.46	0.016	0.48	7100						
H574919	208	274	0.52	0.019	0.48	6780						
H574920	208	274	0.45	0.011	0.45	7140						
H574921	208	274	0.58	0.009	0.51	7240						
H574922	208	274	0.65	0.017	0.62	6680						
H574923	208	274	0.81	0.012	0.69	6860						
H574924	208	274	0.67	0.011	0.69	7160						

CERTIFICATION: A. Chi

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WHITEHORSE, YT
Y1A 3S9

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574925	208	274	1.25	0.029	1.10	6900						
H574926	208	274	1.26	0.045	1.44	6960						
H574927	208	274	0.95	0.015	0.96	6960						
H574928	208	274	0.67	0.015	0.55	7180						
H574929	208	274	0.41	0.010	0.45	6080						
H574930	208	274	0.32	0.006	0.27	6900						
H574931	208	274	0.29	0.011	0.24	7020						
H574932	208	276	0.22	0.010	0.14	7820						
H574933	208	276	0.29	0.008	0.27	7660						
H574934	208	274	0.31	0.014	0.24	5740						
H574935	208	276	0.20	0.010	0.17	7360						
H574936	208	274	0.27	0.010	0.31	6960						
H574937	208	274	0.34	0.015	0.48	6400						
H574938	208	274	0.17	0.029	0.10	6860						
H574939	208	276	0.20	0.022	0.27	7860						
H574940	208	274	0.18	0.008	0.14	7240						
H574941	208	274	0.30	0.018	0.31	7200						
H574942	208	274	0.20	0.019	0.21	7220						
H574943	208	274	0.25	0.047	0.21	6540						
H574944	208	274	0.32	0.014	0.17	4300						
H574945	208	274	0.24	0.011	0.34	6280						
H574946	208	274	0.46	0.015	0.45	6680						
H574947	208	274	0.33	0.027	0.31	7160						
H574948	208	276	0.32	0.020	0.27	7300						
H574949	208	274	0.29	0.025	0.17	7180						
H574950	208	274	0.25	0.017	0.31	6740						
H574951	208	274	0.32	0.012	0.27	6940						
H574952	208	274	0.40	0.022	0.62	7240						
H574953	208	276	0.37	0.025	0.45	7300						
H574954	208	274	0.26	0.011	0.38	7220						
H574955	208	276	0.34	0.037	0.24	7280						
H574956	208	276	0.29	0.011	0.31	7540						
H574957	208	274	0.31	0.027	0.21	7200						
H574958	208	276	0.18	0.011	0.14	8120						
H574959	208	274	0.12	0.010	0.07	6640						
H574960	208	274	0.12	0.007	0.03	6660						
H574961	208	274	0.23	0.015	0.14	6880						
H574962	208	276	0.35	0.011	0.21	7360						
H574963	208	274	0.23	0.018	0.31	7120						
H574964	208	276	0.19	0.019	0.10	7340						

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CERTIFICATE OF ANALYSIS A9318403

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574965	208	274	0.29	0.007	0.27	6400						
H574966	208	276	0.37	0.016	0.82	7300						
H574967	208	276	0.21	0.011	0.14	7640						
H574968	208	274	0.25	0.023	0.14	7120						
H574969	208	276	0.21	0.005	0.55	7480						
H574970	208	276	0.25	0.015	0.69	7720						
H574971	208	274	0.23	0.025	0.17	6880						
H574972	208	276	0.18	0.023	0.10	7340						
H574973	208	274	0.22	0.007	0.31	7220						
H574974	208	274	0.28	0.008	0.27	6780						
H574975	208	274	0.28	0.030	0.21	7100						
H574976	208	276	0.41	0.007	0.41	7400						
H574977	208	276	0.28	0.036	0.34	7300						
H574978	208	274	0.19	0.009	0.14	7020						
H574979	208	276	0.19	0.021	0.10	7400						
H574980	208	274	0.18	0.003	0.24	6880						
H574981	208	274	0.11	0.010	0.10	7080						
H574982	208	274	0.22	0.005	0.24	6940						
H574983	208	274	0.25	0.014	0.24	7000						
H574984	208	274	0.22	0.008	0.21	7200						
H574985	208	274	0.42	0.014	0.41	7220						
H574986	208	276	0.37	0.013	0.31	8040						
H574987	208	274	0.59	0.011	0.34	6140						
H574988	208	274	0.21	0.006	0.27	6620						
H574989	208	274	0.25	0.005	0.21	7040						
H574990	208	274	0.30	0.011	0.21	6420						
H574991	208	274	0.15	0.009	0.17	6520						
H574992	208	274	0.21	0.008	0.17	6700						
H574993	208	274	0.18	0.006	0.17	6780						
H574994	208	274	0.35	0.017	0.24	6440						
H574995	208	276	0.38	0.019	0.34	8040						
H574996	208	274	0.50	0.017	0.34	5680						
H574997	208	276	0.21	0.007	0.21	7380						
H574998	208	274	0.23	0.010	0.17	5000						
H574999	208	276	0.16	0.006	0.07	9160						
H575000	208	274	0.19	0.006	0.24	7120						
H575001	208	274	0.20	0.024	0.24	7180						
H575002	208	274	0.14	0.008	0.10	7040						
H575003	208	274	0.18	0.010	0.14	7000						
H575004	208	276	0.17	0.008	0.14	7340						

CERTIFICATION: A. Chirhe

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Project : CASINO 174
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Certificate Date: 10-AUG-93
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P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318403

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H575005	208	276	0.33	0.009	0.14	7520						
H575006	208	276	0.15	0.005	0.14	7600						
H575007	208	274	0.18	0.004	0.27	7200						
H575008	208	276	0.24	0.014	0.17	7600						
H575009	208	276	0.22	0.008	0.24	7680						
H575010	208	274	0.16	0.009	0.17	7020						
H575011	208	276	0.18	0.011	0.14	7540						
H575012	208	276	0.19	0.011	0.17	7640						
H575013	208	276	0.25	0.026	0.27	7600						
H575014	208	274	0.20	0.016	0.24	7180						
H575015	208	276	0.25	0.028	0.17	7460						
H575016	208	276	0.14	0.005	0.14	7360						
H575017	208	274	0.15	0.008	0.14	7060						
H575018	208	276	0.22	0.008	0.31	7320						
H575019	208	274	0.21	0.014	0.14	6900						
H575020	208	274	0.09	0.011	0.17	3520						
3166	208	274	0.07	0.028	0.55	6200						

CERTIFICATION: D. G. Thomson

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N. :1-A
Total Pa. :7
Certificate Date: 14-AUG-93
Invoice No. :19318404
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574765	299	229	3.2	0.55	70	100	< 0.5	2	0.02	< 0.5	7	176	1645	3.67	< 10	< 1	0.82	20	0.06	35	145
H574766	299	229	3.4	0.41	122	120	< 0.5	8	0.01	< 0.5	2	117	469	3.41	< 10	< 1	0.67	20	0.03	15	151
H574767	299	229	1.8	0.32	82	200	< 0.5	6	< 0.01	< 0.5	1	76	278	1.90	< 10	< 1	0.45	20	0.02	10	142
H574768	299	229	2.2	0.41	56	260	< 0.5	4	0.01	< 0.5	2	143	198	1.47	< 10	< 1	0.41	20	0.03	15	77
H574769	299	229	2.2	0.43	30	220	< 0.5	< 2	0.01	< 0.5	7	119	213	1.39	< 10	< 1	0.40	20	0.03	15	90
H574770	299	229	2.4	0.75	60	90	< 0.5	< 2	0.01	< 0.5	6	167	509	3.43	< 10	< 1	0.75	20	0.10	15	179
H574771	299	229	2.4	0.57	24	110	< 0.5	< 2	0.01	< 0.5	8	109	387	2.64	< 10	< 1	0.62	20	0.05	15	142
H574772	299	229	3.2	0.95	38	140	< 0.5	2	0.02	< 0.5	2	121	397	3.21	< 10	< 1	0.76	30	0.07	20	102
H574773	299	229	3.0	0.69	20	200	< 0.5	2	0.01	< 0.5	2	176	307	2.25	< 10	< 1	0.63	30	0.05	20	116
H574774	299	229	1.8	0.39	26	230	< 0.5	2	< 0.01	< 0.5	3	103	281	2.02	< 10	< 1	0.46	30	0.02	10	204
H574775	299	229	2.6	0.37	18	80	< 0.5	< 2	< 0.01	< 0.5	13	81	1530	2.80	< 10	< 1	0.52	20	0.03	10	145
H574776	299	229	1.4	0.76	26	140	< 0.5	< 2	0.01	< 0.5	4	195	342	2.78	< 10	< 1	0.69	20	0.05	20	114
H574777	299	229	1.6	0.64	28	130	< 0.5	< 2	0.01	< 0.5	3	109	400	2.92	< 10	< 1	0.70	10	0.05	15	113
H574778	299	229	1.6	0.72	78	150	< 0.5	< 2	0.04	< 0.5	3	133	557	3.43	10	< 1	0.70	40	0.07	15	151
H574779	299	229	1.0	0.55	48	160	< 0.5	< 2	0.02	< 0.5	3	81	481	2.70	< 10	< 1	0.53	30	0.05	10	119
H574780	299	229	2.0	0.55	38	140	< 0.5	< 2	0.01	< 0.5	6	86	544	2.75	< 10	< 1	0.45	20	0.07	15	93
H574781	299	229	1.8	0.66	38	100	< 0.5	< 2	0.01	< 0.5	14	134	1250	3.02	< 10	< 1	0.44	20	0.11	20	127
H574782	299	229	0.6	0.55	22	340	< 0.5	< 2	0.03	< 0.5	4	120	345	1.69	< 10	< 1	0.29	20	0.08	40	295
H574783	299	229	2.4	0.75	100	130	0.5	4	0.02	< 0.5	8	118	1065	5.09	< 10	< 1	0.23	30	0.03	20	265
H574784	299	229	0.8	0.49	20	80	< 0.5	< 2	0.02	< 0.5	21	120	288	2.48	< 10	< 1	0.29	10	0.03	20	160
H574785	299	229	1.4	0.60	16	60	< 0.5	2	0.01	< 0.5	22	114	648	2.92	< 10	< 1	0.45	20	0.05	15	127
H574786	299	229	1.2	0.75	12	90	< 0.5	2	0.02	< 0.5	15	114	1720	2.33	< 10	< 1	0.50	20	0.12	20	268
H574787	299	229	0.6	0.60	16	40	0.5	< 2	0.03	< 0.5	29	83	1445	2.90	< 10	< 1	0.33	20	0.10	15	175
H574788	299	229	0.8	0.85	16	60	0.5	2	0.04	< 0.5	21	98	2720	2.58	< 10	< 1	0.38	30	0.21	20	105
H574789	299	229	1.2	1.45	20	60	1.0	6	0.07	< 0.5	28	98	5930	2.91	< 10	< 1	0.32	40	0.18	30	134
H574790	299	229	1.4	1.02	4	40	0.5	6	0.05	< 0.5	42	69	5580	2.79	< 10	< 1	0.53	20	0.52	35	70
H574791	299	229	1.2	1.69	26	20	1.5	8	0.08	< 0.5	43	80	7670	4.09	10	< 1	0.29	30	0.08	20	164
H574792	299	229	1.0	0.84	6	30	0.5	4	0.04	< 0.5	51	110	3700	2.94	< 10	< 1	0.45	30	0.25	210	101
H574793	299	229	1.0	1.09	16	30	0.5	8	0.07	< 0.5	50	86	5230	3.23	< 10	< 1	0.43	20	0.29	30	101
H574794	299	229	0.8	0.87	4	70	< 0.5	4	0.08	0.5	30	89	3200	2.05	< 10	< 1	0.48	20	0.37	20	109
H574795	299	229	1.4	0.75	4	40	0.5	8	0.06	< 0.5	35	77	5530	2.75	< 10	< 1	0.36	20	0.16	30	97
H574796	299	229	0.2	0.75	6	20	0.5	2	0.05	< 0.5	45	94	1980	3.23	< 10	< 1	0.30	20	0.04	10	93
H574797	299	229	0.8	2.41	124	30	3.0	8	0.21	0.5	46	80	>10000	4.01	10	< 1	0.28	30	0.06	20	104
H574798	299	229	0.8	1.06	16	20	0.5	6	0.08	< 0.5	45	100	4920	3.68	< 10	< 1	0.38	20	0.23	15	115
H574799	299	229	1.0	0.87	10	30	0.5	6	0.08	< 0.5	41	85	3650	3.13	< 10	< 1	0.37	20	0.15	15	98
H574800	299	229	1.2	0.74	8	20	0.5	4	0.07	< 0.5	54	106	4830	3.72	< 10	< 1	0.30	20	0.08	15	196
H574801	299	229	1.4	1.29	20	50	0.5	6	0.13	< 0.5	43	86	4980	2.28	< 10	< 1	0.28	20	0.09	20	81
H574802	299	229	0.8	0.82	< 2	20	< 0.5	2	0.08	0.5	37	90	4000	2.98	< 10	< 1	0.32	20	0.12	15	151
H574803	299	229	0.6	0.62	< 2	20	< 0.5	2	0.06	< 0.5	41	74	3320	3.34	< 10	< 1	0.31	10	0.06	35	90
H574804	299	229	0.2	0.89	< 2	20	< 0.5	4	0.06	0.5	42	127	1620	3.58	< 10	< 1	0.42	20	0.10	15	69

CERTIFICATION: Stewart Bichler

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Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-AUG-93
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CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R574765	299	229	0.02	4	270	74	4	1	33	< 0.01	< 10	< 10	7	< 10	22
R574766	299	229	0.02	3	340	46	6	1	64	< 0.01	< 10	< 10	5	< 10	8
R574767	299	229	0.01	< 1	170	28	4	< 1	52	< 0.01	< 10	< 10	2	< 10	6
R574768	299	229	0.01	2	220	96	4	< 1	72	< 0.01	< 10	< 10	3	< 10	6
R574769	299	229	0.01	3	120	42	2	< 1	20	< 0.01	< 10	< 10	3	< 10	6
R574770	299	229	0.02	3	430	26	2	2	32	< 0.01	< 10	< 10	16	< 10	8
R574771	299	229	0.01	3	490	156	< 2	1	51	< 0.01	< 10	< 10	10	< 10	10
R574772	299	229	0.02	2	1050	178	< 2	2	191	< 0.01	< 10	< 10	8	< 10	12
R574773	299	229	0.01	3	410	52	< 2	1	76	< 0.01	< 10	< 10	5	< 10	8
R574774	299	229	0.01	2	350	32	< 2	1	39	< 0.01	< 10	< 10	3	< 10	6
R574775	299	229	0.01	4	390	18	< 2	1	45	< 0.01	< 10	< 10	6	< 10	6
R574776	299	229	0.02	3	430	22	< 2	1	66	< 0.01	< 10	< 10	6	< 10	8
R574777	299	229	0.02	2	440	26	< 2	1	85	< 0.01	< 10	< 10	6	< 10	8
R574778	299	229	0.02	3	1410	20	2	2	481	< 0.01	< 10	< 10	13	< 10	12
R574779	299	229	0.02	1	760	24	2	1	252	< 0.01	< 10	< 10	7	< 10	8
R574780	299	229	0.01	2	390	16	2	3	76	< 0.01	< 10	< 10	27	< 10	20
R574781	299	229	0.01	7	480	14	4	3	129	< 0.01	< 10	< 10	17	< 10	18
R574782	299	229	0.01	1	370	10	2	1	113	< 0.01	< 10	< 10	9	< 10	20
R574783	299	229	0.01	7	1000	32	6	2	152	< 0.01	< 10	< 10	11	< 10	44
R574784	299	229	0.01	5	340	10	2	< 1	97	< 0.01	< 10	< 10	3	< 10	12
R574785	299	229	0.02	6	280	10	6	1	57	< 0.01	< 10	< 10	7	< 10	12
R574786	299	229	0.02	4	310	8	2	2	88	< 0.01	< 10	< 10	13	< 10	12
R574787	299	229	0.01	7	340	8	2	1	83	< 0.01	< 10	< 10	10	< 10	18
R574788	299	229	0.01	6	580	18	< 2	3	129	< 0.01	< 10	< 10	17	< 10	26
R574789	299	229	0.01	12	680	18	2	4	144	< 0.01	< 10	< 10	21	< 10	58
R574790	299	229	0.01	10	300	14	2	5	49	0.03	< 10	< 10	41	< 10	22
R574791	299	229	0.01	14	870	14	< 2	4	265	< 0.01	< 10	< 10	12	< 10	64
R574792	299	229	0.01	9	190	8	< 2	3	15	0.01	< 10	< 10	21	< 10	30
R574793	299	229	0.01	10	520	14	< 2	4	106	0.01	< 10	< 10	25	< 10	30
R574794	299	229	0.01	6	400	12	2	4	35	0.01	< 10	< 10	28	< 10	24
R574795	299	229	0.01	9	320	12	< 2	2	59	< 0.01	< 10	< 10	12	< 10	16
R574796	299	229	0.01	10	400	4	< 2	1	120	< 0.01	< 10	< 10	4	< 10	16
R574797	299	229	0.01	27	1660	30	4	6	290	< 0.01	< 10	< 10	8	< 10	88
R574798	299	229	0.01	13	500	8	< 2	3	109	0.01	< 10	< 10	19	< 10	22
R574799	299	229	0.01	10	380	12	< 2	2	68	< 0.01	< 10	< 10	12	< 10	18
R574800	299	229	0.01	11	430	4	2	1	87	< 0.01	< 10	< 10	6	< 10	16
R574801	299	229	0.01	10	900	12	< 2	4	219	< 0.01	< 10	< 10	13	< 10	28
R574802	299	229	0.01	8	430	8	< 2	3	79	< 0.01	< 10	< 10	12	< 10	16
R574803	299	229	0.01	7	250	8	< 2	1	37	< 0.01	< 10	< 10	3	< 10	12
R574804	299	229	0.01	10	260	12	< 2	1	44	< 0.01	< 10	< 10	8	< 10	12

CERTIFICATION: Stuart Bentley

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574805	299	229	1.4	0.73	16	20	0.5	4	0.07	< 0.5	39	53	3780	3.43	< 10	< 1	0.29	10	0.15	15	92
H574806	299	229	1.0	0.69	14	30	< 0.5	2	0.07	< 0.5	33	64	3450	2.55	< 10	< 1	0.24	10	0.13	15	152
H574807	299	229	0.4	0.58	8	20	< 0.5	< 2	0.07	< 0.5	41	70	1645	2.67	< 10	< 1	0.25	10	0.05	10	124
H574808	299	229	3.2	0.58	32	10	0.5	8	0.07	< 0.5	46	67	4130	4.20	< 10	< 1	0.25	10	0.06	10	201
H574809	299	229	1.2	0.62	8	30	< 0.5	2	0.08	< 0.5	36	82	4120	2.47	< 10	< 1	0.23	20	0.05	10	271
H574810	299	229	0.8	0.58	6	40	< 0.5	< 2	0.08	< 0.5	32	62	2950	2.25	< 10	< 1	0.23	10	0.06	35	105
H574811	299	229	1.0	0.64	4	20	< 0.5	2	0.11	< 0.5	45	81	3100	2.86	< 10	< 1	0.24	10	0.04	10	154
H574812	299	229	0.8	0.60	4	30	< 0.5	< 2	0.06	< 0.5	37	54	2920	2.59	< 10	< 1	0.23	10	0.04	10	167
H574813	299	229	1.4	0.48	16	30	< 0.5	4	0.04	< 0.5	41	74	3010	2.44	< 10	< 1	0.22	20	0.04	10	177
H574814	299	229	1.2	0.55	8	30	< 0.5	2	0.04	< 0.5	50	73	2380	2.96	< 10	< 1	0.26	10	0.08	10	128
H574815	299	229	1.2	0.55	2	60	< 0.5	2	0.04	< 0.5	26	99	2920	2.45	< 10	< 1	0.37	10	0.24	230	63
H574816	299	229	1.4	0.59	114	40	< 0.5	< 2	0.05	0.5	36	70	3340	2.90	< 10	< 1	0.31	< 10	0.15	115	106
H574817	299	229	2.6	0.88	426	40	< 0.5	4	0.05	1.5	36	96	7030	2.34	< 10	< 1	0.26	10	0.10	15	88
H574818	299	229	2.4	0.77	208	50	< 0.5	4	0.05	0.5	31	49	6910	2.15	< 10	< 1	0.24	10	0.13	10	118
H574819	299	229	1.8	0.86	56	40	< 0.5	4	0.06	0.5	37	91	6120	2.03	< 10	< 1	0.28	20	0.11	15	176
H574820	299	229	1.2	0.61	12	100	< 0.5	2	0.08	0.5	19	61	3090	1.80	< 10	< 1	0.30	10	0.15	75	139
H574821	299	229	1.8	0.72	4	70	< 0.5	4	0.07	< 0.5	26	88	3100	2.52	< 10	< 1	0.47	20	0.34	305	119
H574822	299	229	1.4	1.03	2	120	< 0.5	4	0.10	< 0.5	22	68	4420	1.96	< 10	< 1	0.65	10	0.62	180	147
H574823	299	229	1.6	0.66	4	80	< 0.5	4	0.10	< 0.5	28	59	4930	2.23	< 10	< 1	0.28	10	0.14	125	364
H574824	299	229	1.6	0.38	12	60	< 0.5	2	0.06	< 0.5	28	63	3380	2.64	< 10	< 1	0.21	< 10	0.06	190	87
H574825	299	229	1.8	0.64	22	70	< 0.5	2	0.06	< 0.5	23	81	4880	1.91	< 10	< 1	0.19	10	0.04	10	68
H574826	299	229	2.0	1.01	20	70	< 0.5	2	0.09	< 0.5	27	138	5150	2.26	< 10	< 1	0.29	10	0.08	80	132
H574827	299	229	1.4	0.60	4	70	< 0.5	2	0.16	< 0.5	25	90	4720	2.12	< 10	< 1	0.34	10	0.28	145	146
H574828	299	229	1.4	1.30	4	70	0.5	2	0.10	< 0.5	29	127	4060	2.31	< 10	< 1	0.60	10	0.42	65	111
H574829	299	229	2.0	0.78	4	40	< 0.5	4	0.29	< 0.5	29	82	5170	2.59	< 10	< 1	0.43	10	0.32	80	185
H574830	299	229	1.2	0.95	2	60	< 0.5	4	0.13	< 0.5	29	55	3670	2.53	< 10	< 1	0.51	10	0.44	95	118
H574831	299	229	1.2	0.62	< 2	50	< 0.5	4	0.41	< 0.5	33	74	2780	2.70	< 10	< 1	0.42	10	0.40	110	164
H574832	299	229	1.4	0.53	2	40	< 0.5	4	0.42	< 0.5	26	55	3950	3.08	< 10	< 1	0.37	10	0.35	110	139
H574833	299	229	1.6	0.59	8	40	< 0.5	4	0.24	< 0.5	32	71	4260	3.51	< 10	< 1	0.34	< 10	0.18	110	124
H574834	299	229	2.2	0.40	14	40	< 0.5	4	0.43	< 0.5	33	40	6330	2.79	< 10	< 1	0.23	10	0.23	110	199
H574835	299	229	1.6	0.45	8	50	< 0.5	4	0.49	< 0.5	27	66	4850	2.02	< 10	< 1	0.30	10	0.28	60	203
H574836	299	229	0.8	0.62	4	70	< 0.5	2	0.41	< 0.5	25	46	3040	2.09	< 10	< 1	0.37	10	0.36	70	144
H574837	299	229	0.8	0.57	2	100	< 0.5	2	0.49	< 0.5	23	55	2530	2.00	< 10	< 1	0.34	10	0.38	150	196
H574838	299	229	1.2	0.75	6	80	< 0.5	4	0.46	< 0.5	27	47	3130	2.01	< 10	< 1	0.56	10	0.68	60	115
H574839	299	229	0.8	0.66	10	30	< 0.5	2	0.64	< 0.5	60	54	2570	3.18	< 10	< 1	0.43	10	0.53	80	154
H574840	299	229	1.2	0.59	12	40	< 0.5	< 2	0.42	< 0.5	39	45	2690	2.50	< 10	< 1	0.36	10	0.36	70	79
H574841	299	229	1.2	0.58	16	70	< 0.5	2	0.42	< 0.5	25	103	2890	1.97	< 10	< 1	0.29	10	0.20	105	183
H574842	299	229	1.2	0.55	6	80	< 0.5	2	0.50	< 0.5	20	53	2310	1.89	< 10	< 1	0.37	10	0.46	85	125
H574843	299	229	1.6	0.29	8	60	< 0.5	2	0.26	< 0.5	19	89	2910	1.75	< 10	< 1	0.21	10	0.12	80	102
H574844	299	229	1.4	0.36	12	60	< 0.5	2	0.25	< 0.5	26	62	2700	1.91	< 10	< 1	0.21	10	0.12	95	114

CERTIFICATION:

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pa... :7
Certificate Date: 14-AUG-93
Invoice No. :I9318404
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H574805	299	229	0.01	8	330	18	2	2	88	< 0.01	< 10	< 10	16	< 10	22
H574806	299	229	0.01	10	400	10	4	2	114	< 0.01	< 10	< 10	11	< 10	16
H574807	299	229	0.01	7	370	6	< 2	< 1	58	< 0.01	< 10	< 10	3	< 10	12
H574808	299	229	0.01	8	340	16	2	1	80	< 0.01	< 10	< 10	2	< 10	38
H574809	299	229	0.01	8	480	8	2	1	116	< 0.01	< 10	< 10	3	< 10	24
H574810	299	229	0.01	7	400	8	2	1	69	< 0.01	< 10	< 10	4	< 10	20
H574811	299	229	0.01	9	530	6	6	1	99	< 0.01	< 10	< 10	3	< 10	10
H574812	299	229	0.01	9	360	8	< 2	1	122	< 0.01	< 10	< 10	2	< 10	14
H574813	299	229	< 0.01	7	260	10	< 2	< 1	78	< 0.01	< 10	< 10	2	< 10	16
H574814	299	229	0.01	8	200	6	< 2	1	43	< 0.01	< 10	< 10	7	< 10	16
H574815	299	229	0.01	7	130	6	< 2	2	7	0.01	< 10	< 10	18	< 10	28
H574816	299	229	0.01	8	190	6	8	2	27	< 0.01	< 10	< 10	13	< 10	30
H574817	299	229	0.01	10	370	8	36	2	136	< 0.01	< 10	< 10	15	< 10	50
H574818	299	229	0.01	11	360	8	30	2	165	< 0.01	< 10	< 10	15	< 10	34
H574819	299	229	0.01	9	320	20	10	2	82	< 0.01	< 10	< 10	12	< 10	26
H574820	299	229	0.01	6	320	8	< 2	2	27	< 0.01	< 10	< 10	13	< 10	26
H574821	299	229	0.01	7	220	8	< 2	3	8	0.01	< 10	< 10	27	< 10	30
H574822	299	229	0.01	7	410	6	< 2	7	12	0.04	< 10	< 10	50	< 10	20
H574823	299	229	0.01	7	460	6	< 2	2	34	< 0.01	< 10	< 10	12	< 10	18
H574824	299	229	0.01	7	180	10	< 2	2	12	< 0.01	< 10	< 10	8	< 10	18
H574825	299	229	0.01	7	320	10	10	2	102	< 0.01	< 10	< 10	10	< 10	14
H574826	299	229	0.01	11	390	12	4	2	134	< 0.01	< 10	< 10	14	< 10	28
H574827	299	229	0.01	6	210	4	< 2	4	22	0.01	< 10	< 10	23	< 10	18
H574828	299	229	0.01	12	370	8	2	4	34	0.02	< 10	< 10	32	< 10	18
H574829	299	229	0.01	11	570	8	< 2	3	10	0.01	< 10	< 10	20	< 10	14
H574830	299	229	0.01	8	510	8	< 2	6	31	0.03	< 10	< 10	37	< 10	24
H574831	299	229	0.01	7	360	8	2	4	13	0.01	< 10	< 10	24	< 10	16
H574832	299	229	0.01	9	330	4	< 2	3	11	< 0.01	< 10	< 10	18	< 10	6
H574833	299	229	0.01	11	420	6	2	3	12	< 0.01	< 10	< 10	14	< 10	12
H574834	299	229	0.01	10	520	6	2	3	11	< 0.01	< 10	< 10	12	< 10	28
H574835	299	229	0.01	8	490	2	2	2	9	< 0.01	< 10	< 10	8	< 10	4
H574836	299	229	0.01	9	400	4	2	4	13	< 0.01	< 10	< 10	20	< 10	14
H574837	299	229	0.01	8	470	4	< 2	4	17	0.01	< 10	< 10	22	< 10	34
H574838	299	229	0.01	6	380	8	2	6	13	0.03	< 10	< 10	41	< 10	14
H574839	299	229	0.01	9	420	8	< 2	3	11	0.01	< 10	< 10	25	< 10	14
H574840	299	229	0.01	6	430	6	2	4	12	0.01	< 10	< 10	25	< 10	16
H574841	299	229	0.01	6	280	8	6	3	15	< 0.01	< 10	< 10	14	< 10	22
H574842	299	229	0.01	6	300	4	< 2	3	11	0.01	< 10	< 10	24	< 10	14
H574843	299	229	0.01	4	270	8	2	1	9	< 0.01	< 10	< 10	3	< 10	12
H574844	299	229	0.01	6	290	8	< 2	1	9	< 0.01	< 10	< 10	7	< 10	20

CERTIFICATION:

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Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574845	299	229	2.0	0.38	54	80	< 0.5	< 2	0.36	< 0.5	19	51	4250	1.63	< 10	< 1	0.12	10	0.09	35	178
H574846	299	229	1.4	0.22	62	90	< 0.5	2	0.34	< 0.5	19	66	3160	1.55	< 10	< 1	0.16	20	0.20	55	155
H574847	299	229	2.4	0.32	94	40	< 0.5	2	0.46	0.5	23	36	3590	2.63	< 10	< 1	0.19	10	0.27	115	116
H574848	299	229	1.6	1.04	50	30	< 0.5	2	0.78	< 0.5	27	72	2450	3.26	< 10	< 1	0.44	10	1.08	185	328
H574849	299	229	2.2	0.67	28	70	< 0.5	< 2	0.62	< 0.5	30	43	3200	2.24	< 10	< 1	0.47	10	0.71	140	96
H574850	299	229	1.8	0.70	26	90	< 0.5	2	0.79	< 0.5	23	58	4180	1.83	< 10	< 1	0.52	10	0.82	95	159
H574851	299	229	1.2	0.42	30	110	< 0.5	< 2	0.62	< 0.5	20	59	2810	1.42	< 10	< 1	0.30	10	0.49	65	125
H574852	299	229	0.8	0.29	22	60	< 0.5	< 2	0.63	< 0.5	33	46	1925	1.74	< 10	< 1	0.18	10	0.37	65	223
H574853	299	229	0.8	1.00	22	70	< 0.5	< 2	0.47	< 0.5	22	54	2430	1.94	< 10	< 1	0.78	10	1.09	110	137
H574854	299	229	1.2	0.66	12	80	< 0.5	< 2	0.64	< 0.5	24	52	2630	1.96	< 10	< 1	0.42	10	0.64	230	126
H574855	299	229	1.4	0.45	14	70	< 0.5	< 2	0.54	< 0.5	21	52	3170	1.69	< 10	< 1	0.30	10	0.44	95	160
H574856	299	229	1.2	0.25	12	80	< 0.5	2	0.35	< 0.5	17	45	1965	1.49	< 10	< 1	0.14	10	0.17	120	273
H574857	299	229	1.4	0.21	62	70	< 0.5	< 2	0.42	< 0.5	15	70	2090	1.62	< 10	< 1	0.15	20	0.18	120	215
H574858	299	229	1.8	0.17	22	110	< 0.5	2	0.44	< 0.5	20	29	3200	1.48	< 10	< 1	0.10	20	0.20	95	427
H574859	299	229	2.0	0.16	4	120	< 0.5	2	0.45	< 0.5	17	35	3250	1.32	< 10	< 1	0.10	20	0.23	75	139
H574860	299	229	1.4	0.14	28	160	< 0.5	< 2	0.37	< 0.5	11	30	2150	1.03	< 10	< 1	0.09	20	0.18	70	348
H574861	299	229	2.0	0.23	82	50	< 0.5	4	0.35	< 0.5	22	59	3140	2.01	< 10	< 1	0.16	20	0.18	75	403
H574862	299	229	1.8	0.20	118	70	< 0.5	< 2	0.41	< 0.5	26	50	2790	1.70	< 10	< 1	0.13	10	0.21	115	211
H574863	299	229	1.8	0.32	28	130	< 0.5	< 2	0.87	< 0.5	18	57	3480	1.44	< 10	< 1	0.18	10	0.47	265	262
H574864	299	229	1.6	0.30	16	110	< 0.5	< 2	0.64	< 0.5	24	41	2670	1.53	< 10	< 1	0.19	10	0.39	160	170
H574865	299	229	1.8	0.44	8	80	< 0.5	2	0.77	< 0.5	27	55	3800	1.96	< 10	< 1	0.29	10	0.54	95	103
H574866	299	229	1.6	0.45	8	40	< 0.5	< 2	0.66	< 0.5	25	48	3290	2.19	< 10	< 1	0.28	10	0.46	90	158
H574867	299	229	1.6	1.26	22	90	< 0.5	< 2	0.74	< 0.5	29	76	3090	2.63	< 10	< 1	0.88	10	1.22	160	153
H574868	299	229	3.8	0.45	92	100	< 0.5	< 2	0.90	9.5	16	53	2650	1.53	< 10	< 1	0.29	10	0.60	200	200
H574869	299	229	1.4	0.40	138	70	< 0.5	< 2	0.95	0.5	21	36	2310	1.92	< 10	< 1	0.26	10	0.58	160	121
H574870	299	229	1.2	0.26	26	60	< 0.5	< 2	0.88	< 0.5	20	51	2870	1.81	< 10	< 1	0.13	10	0.35	335	228
H574871	299	229	5.6	0.29	210	90	< 0.5	2	0.69	2.0	20	42	2970	1.43	< 10	< 1	0.12	10	0.26	365	188
H574872	299	229	1.6	0.28	266	70	< 0.5	< 2	0.68	0.5	31	42	3670	2.00	< 10	< 1	0.17	10	0.40	170	293
H574873	299	229	1.8	0.32	12	70	< 0.5	< 2	0.65	< 0.5	28	36	3950	1.90	< 10	< 1	0.19	10	0.36	195	120
H574874	299	229	1.4	0.39	36	40	< 0.5	2	0.89	< 0.5	28	48	2890	2.10	< 10	< 1	0.20	10	0.47	220	333
H574875	299	229	1.4	0.49	4	110	< 0.5	2	0.62	< 0.5	22	42	2850	1.66	< 10	< 1	0.34	10	0.61	80	173
H574876	299	229	1.2	0.51	4	100	< 0.5	4	0.54	< 0.5	25	56	2800	1.72	< 10	< 1	0.39	10	0.62	55	133
H574877	299	229	1.6	0.74	2	70	< 0.5	2	0.66	< 0.5	26	48	3720	2.31	< 10	< 1	0.53	10	0.82	135	269
H574878	299	229	1.2	0.53	8	90	< 0.5	2	0.83	< 0.5	28	77	2740	1.91	< 10	< 1	0.34	10	0.65	200	127
H574879	299	229	1.2	0.36	6	110	< 0.5	4	0.50	< 0.5	20	58	2400	1.40	< 10	< 1	0.22	10	0.37	125	116
H574880	299	229	1.4	0.53	10	60	< 0.5	4	0.60	< 0.5	35	62	2780	2.31	< 10	< 1	0.35	10	0.61	165	48
H574881	299	229	29.0	0.33	598	20	< 0.5	6	1.39	>100.0	39	34	5130	2.66	< 10	5	0.18	10	0.74	1195	114
H574882	299	229	31.4	0.78	326	30	< 0.5	< 2	1.06	51.5	31	48	2760	4.12	< 10	1	0.55	10	0.96	1895	99
H574883	299	229	3.0	0.86	50	50	< 0.5	2	0.66	9.0	33	43	3530	2.98	< 10	< 1	0.65	10	0.92	215	83
H574884	299	229	2.4	0.77	18	60	< 0.5	2	0.59	< 0.5	35	66	4260	2.59	< 10	< 1	0.58	10	0.79	95	568

CERTIFICATION: Ian Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B574845	299	229	< 0.01	8	250	8	6	1	31	< 0.01	< 10	< 10	4	< 10	22
B574846	299	229	< 0.01	6	160	10	< 2	1	11	< 0.01	< 10	< 10	6	< 10	18
B574847	299	229	< 0.01	7	290	16	4	2	12	< 0.01	< 10	< 10	12	< 10	36
B574848	299	229	0.01	29	470	10	< 2	6	29	0.02	< 10	< 10	35	< 10	40
B574849	299	229	0.01	7	390	8	2	5	11	0.03	< 10	< 10	36	< 10	26
B574850	299	229	0.01	9	370	6	< 2	6	12	0.04	< 10	< 10	42	< 10	14
B574851	299	229	0.01	7	230	4	< 2	3	9	0.01	< 10	< 10	19	< 10	10
B574852	299	229	< 0.01	6	300	4	< 2	2	9	< 0.01	< 10	< 10	11	< 10	10
B574853	299	229	0.01	8	270	4	< 2	10	22	0.07	< 10	< 10	67	< 10	20
B574854	299	229	0.01	7	340	4	2	9	11	0.03	< 10	< 10	43	< 10	18
B574855	299	229	0.01	7	300	4	< 2	4	10	0.01	< 10	< 10	23	< 10	12
B574856	299	229	< 0.01	5	210	8	4	1	8	< 0.01	< 10	< 10	5	< 10	14
B574857	299	229	< 0.01	6	180	4	6	1	9	< 0.01	< 10	< 10	3	< 10	16
B574858	299	229	< 0.01	8	260	4	2	1	8	< 0.01	< 10	< 10	2	< 10	8
B574859	299	229	< 0.01	6	160	6	2	1	8	< 0.01	< 10	< 10	8	< 10	8
B574860	299	229	< 0.01	5	170	2	< 2	< 1	9	< 0.01	< 10	< 10	1	< 10	8
B574861	299	229	< 0.01	7	190	8	2	< 1	10	< 0.01	< 10	< 10	1	< 10	10
B574862	299	229	< 0.01	7	220	4	4	1	8	< 0.01	< 10	< 10	6	< 10	12
B574863	299	229	0.01	6	270	2	6	6	13	< 0.01	< 10	< 10	27	< 10	10
B574864	299	229	< 0.01	6	280	2	2	3	10	< 0.01	< 10	< 10	21	< 10	10
B574865	299	229	0.01	8	340	2	< 2	5	12	0.01	< 10	< 10	29	< 10	6
B574866	299	229	0.01	8	360	6	< 2	5	15	0.01	< 10	< 10	27	< 10	6
B574867	299	229	0.01	10	520	4	2	11	16	0.10	< 10	< 10	79	< 10	20
B574868	299	229	0.01	7	280	160	40	6	12	0.01	< 10	< 10	31	< 10	650
B574869	299	229	0.01	7	320	130	8	5	13	0.01	< 10	< 10	26	< 10	20
B574870	299	229	< 0.01	7	370	4	6	4	11	< 0.01	< 10	< 10	11	< 10	10
B574871	299	229	< 0.01	6	270	28	68	2	15	< 0.01	< 10	< 10	7	< 10	80
B574872	299	229	< 0.01	8	240	2	16	3	16	< 0.01	< 10	< 10	15	< 10	14
B574873	299	229	< 0.01	9	330	4	4	2	12	< 0.01	< 10	< 10	12	< 10	4
B574874	299	229	0.01	8	300	6	4	4	19	< 0.01	< 10	< 10	18	< 10	14
B574875	299	229	0.01	7	240	4	< 2	5	13	0.02	< 10	< 10	32	< 10	10
B574876	299	229	0.01	7	260	4	< 2	4	12	0.02	< 10	< 10	32	< 10	8
B574877	299	229	0.01	8	350	2	2	5	13	0.04	< 10	< 10	40	< 10	8
B574878	299	229	0.01	8	280	4	2	4	13	0.01	< 10	< 10	25	< 10	8
B574879	299	229	0.01	6	240	2	2	3	11	0.01	< 10	< 10	17	< 10	10
B574880	299	229	0.01	8	200	2	2	6	12	0.03	< 10	< 10	38	< 10	12
B574881	299	229	< 0.01	8	240	6190	1845	5	16	0.01	< 10	< 10	21	< 10	>10000
B574882	299	229	0.01	12	450	1805	416	8	17	0.04	< 10	< 10	46	< 10	2590
B574883	299	229	0.01	9	300	298	64	8	13	0.07	< 10	< 10	58	< 10	470
B574884	299	229	0.01	9	300	8	4	6	13	0.05	< 10	< 10	40	< 10	22

CERTIFICATION: Stan H Beckler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#574885	299	229	2.2	0.75	10	90	< 0.5	< 2	1.01	< 0.5	26	77	3720	2.15	< 10	< 1	0.52	10	0.87	90	127
#574886	299	229	3.4	0.89	16	100	< 0.5	< 2	0.81	< 0.5	22	85	6470	1.98	< 10	< 1	0.56	20	0.78	105	114
#574887	299	229	4.2	0.45	214	90	< 0.5	< 2	1.20	0.5	22	67	2280	1.52	< 10	< 1	0.25	10	0.60	585	258
#574888	299	229	9.4	0.50	196	40	< 0.5	< 2	0.95	2.0	24	91	2610	2.37	< 10	< 1	0.27	20	0.46	740	254
#574889	299	229	4.0	0.50	178	70	< 0.5	< 2	1.27	1.0	23	73	2740	1.85	< 10	< 1	0.26	20	0.67	725	133
#574890	299	229	2.4	0.47	30	60	< 0.5	2	1.16	< 0.5	21	99	3370	2.10	< 10	< 1	0.30	20	0.59	170	215
#574891	299	229	3.0	0.34	410	30	< 0.5	< 2	1.81	1.0	25	62	3940	2.83	< 10	< 1	0.21	20	0.82	760	107
#574892	299	229	2.8	0.92	120	130	< 0.5	< 2	1.06	< 0.5	24	69	2980	2.03	< 10	< 1	0.53	20	0.85	440	158
#574893	299	229	2.4	0.39	16	40	< 0.5	< 2	0.66	< 0.5	37	70	3610	1.97	< 10	< 1	0.24	20	0.34	90	294
#574894	299	229	1.8	0.60	4	80	< 0.5	< 2	0.80	< 0.5	31	98	2620	1.94	< 10	< 1	0.36	10	0.52	85	282
#574895	299	229	2.0	0.27	18	60	< 0.5	< 2	0.42	< 0.5	25	71	2310	1.69	< 10	< 1	0.18	20	0.20	50	261
#574896	299	229	1.8	0.31	18	80	< 0.5	< 2	0.43	< 0.5	29	86	2340	1.64	< 10	< 1	0.18	20	0.20	85	562
#574897	299	229	1.8	0.27	18	60	< 0.5	4	0.48	< 0.5	44	80	2230	1.77	< 10	< 1	0.18	20	0.23	85	239
#574898	299	229	1.4	0.41	12	130	< 0.5	< 2	0.62	< 0.5	30	96	2070	1.50	< 10	< 1	0.26	10	0.36	70	116
#574899	299	229	3.2	0.48	20	20	< 0.5	2	0.67	< 0.5	31	88	4030	3.34	< 10	< 1	0.31	10	0.43	70	95
#574900	299	229	2.6	0.88	12	100	< 0.5	6	0.74	< 0.5	28	69	3560	1.99	< 10	< 1	0.57	10	0.76	90	95
#574901	299	229	2.6	0.52	14	60	< 0.5	6	0.65	< 0.5	37	58	3510	2.32	< 10	< 1	0.33	10	0.46	80	171
#574902	299	229	3.8	0.40	< 2	100	< 0.5	< 2	0.60	< 0.5	25	112	5420	1.73	< 10	< 1	0.28	20	0.37	70	246
#574903	299	229	3.4	0.25	12	20	< 0.5	8	0.63	< 0.5	41	59	4990	3.53	< 10	< 1	0.20	10	0.33	75	106
#574904	299	229	2.6	0.26	8	40	< 0.5	< 2	0.43	< 0.5	66	84	3420	2.41	< 10	< 1	0.20	10	0.20	45	429
#574905	299	229	2.0	0.89	12	60	< 0.5	2	0.70	< 0.5	34	69	3300	2.36	< 10	< 1	0.57	20	0.82	100	136
#574906	299	229	2.0	0.65	10	40	< 0.5	2	0.61	< 0.5	40	101	3010	2.60	< 10	< 1	0.46	10	0.61	75	107
#574907	299	229	2.4	0.83	< 2	70	< 0.5	2	0.45	< 0.5	29	69	3300	2.36	< 10	< 1	0.60	20	0.75	115	174
#574908	299	229	2.2	0.60	2	80	< 0.5	< 2	0.73	< 0.5	31	90	2990	1.99	< 10	< 1	0.41	20	0.60	80	694
#574909	299	229	2.2	0.43	< 2	110	< 0.5	< 2	1.14	< 0.5	22	77	3240	1.59	< 10	< 1	0.28	20	0.63	140	529
#574910	299	229	2.0	0.61	10	110	< 0.5	8	0.85	< 0.5	25	87	3100	1.74	< 10	< 1	0.39	20	0.65	95	109
#574911	299	229	3.8	0.74	4	40	< 0.5	< 2	1.09	< 0.5	30	61	5200	2.57	< 10	< 1	0.44	20	0.76	145	84
#574912	299	229	2.6	0.81	10	110	< 0.5	< 2	1.80	< 0.5	31	101	3530	2.11	< 10	< 1	0.46	20	0.74	190	113
#574913	299	229	2.6	0.53	2	60	< 0.5	8	0.61	< 0.5	31	78	3780	2.30	< 10	< 1	0.38	10	0.50	95	98
#574914	299	229	3.0	1.16	< 2	90	< 0.5	< 2	0.69	< 0.5	38	95	6040	2.48	< 10	< 1	0.80	20	0.95	150	61
#574915	299	229	3.6	0.76	4	120	< 0.5	< 2	0.88	< 0.5	32	76	5970	1.98	< 10	< 1	0.51	20	0.77	135	204
#574916	299	229	3.2	0.70	4	130	< 0.5	< 2	1.06	< 0.5	27	102	6970	1.90	< 10	< 1	0.44	20	0.67	155	266
#574917	299	229	2.2	0.64	8	140	< 0.5	< 2	0.73	< 0.5	21	70	4310	1.34	< 10	< 1	0.42	20	0.59	105	247
#574918	299	229	2.8	0.83	14	150	< 0.5	< 2	0.78	< 0.5	25	86	4660	1.74	< 10	< 1	0.51	20	0.71	125	94
#574919	299	229	4.2	0.83	18	100	< 0.5	< 2	0.95	< 0.5	31	60	5410	2.12	< 10	< 1	0.57	10	0.81	115	113
#574920	299	229	4.0	0.76	24	80	< 0.5	< 2	0.96	< 0.5	33	84	4610	2.17	< 10	< 1	0.53	20	0.75	155	71
#574921	299	229	4.6	0.98	14	120	< 0.5	2	0.77	< 0.5	38	61	5880	2.25	< 10	< 1	0.74	20	0.99	165	53
#574922	299	229	4.4	0.79	8	90	< 0.5	6	1.71	< 0.5	27	86	6430	2.49	< 10	< 1	0.48	30	0.73	195	96
#574923	299	229	4.4	0.86	8	130	< 0.5	< 2	2.22	< 0.5	37	51	7760	2.54	< 10	< 1	0.56	30	1.15	230	62
#574924	299	229	3.4	1.05	4	100	< 0.5	6	1.84	< 0.5	36	89	6800	2.35	< 10	< 1	0.53	20	0.70	180	53

CERTIFICATION: Ron Buchler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. : 4-B
Total Pages : 7
Certificate Date: 14-AUG-93
Invoice No. : I9318404
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A574885	299	229	0.01	8	420	8	< 2	6	17	0.02	< 10	< 10	46	< 10	20
A574886	299	229	0.01	9	460	2	2	6	18	0.03	< 10	< 10	43	< 10	24
A574887	299	229	0.01	4	330	8	40	4	24	< 0.01	< 10	< 10	23	< 10	46
A574888	299	229	0.01	7	330	18	98	4	22	< 0.01	< 10	< 10	22	< 10	112
A574889	299	229	0.01	8	410	26	42	6	19	< 0.01	< 10	< 10	29	< 10	62
A574890	299	229	0.01	8	430	12	4	2	20	< 0.01	< 10	< 10	18	< 10	18
A574891	299	229	0.01	10	350	6	46	3	25	< 0.01	< 10	< 10	13	< 10	78
A574892	299	229	0.01	5	450	12	30	8	16	0.03	< 10	< 10	51	< 10	46
A574893	299	229	0.01	7	350	8	4	2	13	< 0.01	< 10	< 10	14	< 10	20
A574894	299	229	0.01	6	480	8	2	5	15	0.01	< 10	< 10	32	< 10	18
A574895	299	229	0.01	6	260	6	4	1	14	< 0.01	< 10	< 10	8	< 10	14
A574896	299	229	0.01	6	230	4	6	2	12	< 0.01	< 10	< 10	11	< 10	18
A574897	299	229	0.01	6	200	2	2	1	12	< 0.01	< 10	< 10	8	< 10	14
A574898	299	229	0.01	4	200	2	2	4	13	< 0.01	< 10	< 10	20	< 10	12
A574899	299	229	0.01	8	270	12	< 2	4	23	0.01	< 10	< 10	22	< 10	16
A574900	299	229	0.01	6	510	6	2	7	23	0.04	< 10	< 10	44	< 10	16
A574901	299	229	0.01	8	380	< 2	4	6	20	0.01	< 10	< 10	32	< 10	18
A574902	299	229	0.01	7	210	6	4	3	18	< 0.01	< 10	< 10	21	< 10	14
A574903	299	229	0.01	9	220	2	< 2	1	12	< 0.01	< 10	< 10	8	< 10	20
A574904	299	229	0.01	7	250	6	6	1	11	< 0.01	< 10	< 10	7	< 10	12
A574905	299	229	0.01	7	360	14	2	7	48	0.05	< 10	< 10	49	< 10	18
A574906	299	229	0.01	7	310	2	4	6	14	0.02	< 10	< 10	40	< 10	18
A574907	299	229	0.01	8	270	6	2	7	12	0.05	< 10	< 10	51	< 10	24
A574908	299	229	0.01	7	340	4	8	4	12	0.02	< 10	< 10	34	< 10	18
A574909	299	229	0.01	4	360	4	6	4	14	0.01	< 10	< 10	27	< 10	16
A574910	299	229	0.01	6	310	< 2	2	6	16	0.02	< 10	< 10	38	< 10	18
A574911	299	229	0.01	6	460	10	2	6	48	0.02	< 10	< 10	36	< 10	22
A574912	299	229	0.01	7	390	12	2	6	21	0.03	< 10	< 10	40	< 10	22
A574913	299	229	0.01	6	290	10	< 2	4	17	0.02	< 10	< 10	27	< 10	18
A574914	299	229	0.02	9	440	10	< 2	9	29	0.09	< 10	< 10	68	< 10	28
A574915	299	229	0.02	9	370	22	< 2	6	32	0.04	< 10	< 10	43	< 10	34
A574916	299	229	0.01	9	510	< 2	< 2	4	14	0.02	< 10	< 10	38	< 10	44
A574917	299	229	0.01	6	470	4	< 2	5	14	0.03	< 10	< 10	35	< 10	30
A574918	299	229	0.01	7	330	6	< 2	6	20	0.03	< 10	< 10	38	< 10	26
A574919	299	229	0.01	5	480	4	4	6	16	0.04	< 10	< 10	43	< 10	26
A574920	299	229	0.01	6	470	2	< 2	6	22	0.03	< 10	10	37	< 10	30
A574921	299	229	0.02	7	410	< 2	2	8	19	0.08	< 10	< 10	61	< 10	42
A574922	299	229	0.01	11	440	8	2	6	21	0.04	< 10	< 10	43	< 10	34
A574923	299	229	0.01	8	800	8	2	8	29	0.06	< 10	10	53	< 10	46
A574924	299	229	0.02	10	450	2	< 2	8	57	0.05	< 10	< 10	49	< 10	36

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-AUG-93
Invoice No. : I9318404
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
A574925	299	229	6.0	1.11	4	80	< 0.5	< 2	0.80	0.5	47	96	>10000	2.87	< 10	< 1	0.61	40	0.90	170	170
A574926	299	229	6.2	1.38	< 2	60	< 0.5	< 2	0.59	1.0	49	108	>10000	3.13	< 10	< 1	0.70	40	1.01	180	261
A574927	299	229	4.8	1.45	4	100	< 0.5	< 2	0.97	1.0	35	110	9930	2.68	< 10	< 1	0.65	30	1.06	235	85
A574928	299	229	3.0	1.59	6	130	< 0.5	< 2	0.76	0.5	27	102	6550	2.55	< 10	< 1	0.83	30	1.24	245	77
A574929	299	229	2.0	1.93	8	100	< 0.5	< 2	1.20	0.5	23	63	4010	2.29	10	< 1	0.67	10	1.30	285	43
A574930	299	229	1.8	1.75	6	110	< 0.5	< 2	1.23	0.5	25	120	3060	2.74	10	< 1	0.74	10	1.22	270	23
A574931	299	229	2.0	1.85	< 2	190	< 0.5	10	1.30	0.5	22	71	2820	2.73	10	< 1	0.62	20	1.26	465	55
A574932	299	229	1.4	1.74	12	180	< 0.5	< 2	1.54	< 0.5	20	102	2170	2.54	< 10	< 1	0.67	20	1.20	380	51
A574933	299	229	2.0	1.74	2	250	< 0.5	< 2	1.31	0.5	22	104	2740	2.06	< 10	< 1	0.61	10	1.18	300	41
A574934	299	229	3.6	1.70	12	130	< 0.5	8	1.50	< 0.5	26	76	2930	2.74	< 10	< 1	0.46	10	1.17	355	62
A574935	299	229	1.4	1.67	4	200	< 0.5	4	1.26	0.5	19	84	1830	2.62	< 10	< 1	0.59	20	1.18	275	44
A574936	299	229	1.2	1.88	< 2	230	< 0.5	< 2	1.20	0.5	24	109	2690	2.41	< 10	< 1	0.62	10	1.25	150	48
A574937	299	229	1.6	1.70	< 2	160	< 0.5	< 2	1.25	0.5	20	77	3220	1.99	< 10	< 1	0.58	10	1.15	145	77
A574938	299	229	0.8	1.93	6	320	< 0.5	< 2	1.52	< 0.5	23	70	1560	1.93	< 10	< 1	0.62	10	1.23	145	160
A574939	299	229	0.8	1.84	4	300	< 0.5	< 2	1.10	< 0.5	18	76	1880	2.22	< 10	< 1	0.67	10	1.27	150	111
A574940	299	229	1.0	2.11	< 2	270	< 0.5	< 2	1.09	0.5	32	114	1795	2.52	< 10	< 1	0.78	10	1.35	145	41
A574941	299	229	1.8	2.07	< 2	210	< 0.5	< 2	1.19	0.5	34	67	3010	2.53	< 10	< 1	0.66	10	1.31	280	100
A574942	299	229	1.2	1.76	4	150	< 0.5	< 2	1.35	0.5	35	98	1960	2.48	< 10	< 1	0.58	10	1.11	190	101
A574943	299	229	1.4	2.03	4	100	< 0.5	< 2	1.14	0.5	31	73	2380	2.77	< 10	< 1	0.71	10	1.34	270	255
A574944	299	229	1.6	1.81	4	260	< 0.5	4	1.57	0.5	23	91	3100	2.09	< 10	< 1	0.59	10	1.17	155	67
A574945	299	229	1.6	1.59	< 2	140	< 0.5	< 2	1.22	0.5	25	64	2360	2.39	< 10	< 1	0.65	10	1.12	160	49
A574946	299	229	7.8	1.26	32	90	< 0.5	< 2	2.22	1.0	36	93	4560	2.55	< 10	< 1	0.56	20	0.84	185	70
A574947	299	229	2.8	1.04	2	140	< 0.5	< 2	1.83	0.5	22	64	3190	1.69	< 10	< 1	0.60	20	0.71	165	153
A574948	299	229	1.6	1.07	6	160	< 0.5	4	1.70	< 0.5	27	97	3310	1.64	< 10	< 1	0.55	20	0.63	145	109
A574949	299	229	2.0	0.43	4	170	< 0.5	< 2	1.11	< 0.5	25	87	2960	1.31	< 10	< 1	0.19	10	0.22	130	146
A574950	299	229	1.8	0.46	16	170	< 0.5	< 2	1.00	< 0.5	20	104	2520	1.25	< 10	< 1	0.26	10	0.37	140	91
A574951	299	229	2.2	0.73	6	90	< 0.5	< 2	0.88	0.5	39	53	3330	1.99	< 10	< 1	0.35	10	0.37	130	66
A574952	299	229	3.4	0.66	34	80	< 0.5	< 2	0.54	< 0.5	40	70	4310	1.95	< 10	< 1	0.36	< 10	0.34	95	123
A574953	299	229	3.4	0.28	6	100	< 0.5	< 2	0.58	< 0.5	25	26	3790	1.61	< 10	< 1	0.17	< 10	0.32	85	120
A574954	299	229	1.8	0.57	12	140	< 0.5	< 2	0.89	< 0.5	24	25	2720	1.41	< 10	< 1	0.37	10	0.69	165	63
A574955	299	229	2.2	0.68	4	160	< 0.5	< 2	0.95	0.5	29	96	3460	1.42	< 10	< 1	0.46	10	0.46	130	220
A574956	299	229	1.6	0.87	2	110	< 0.5	< 2	1.07	< 0.5	30	105	2960	1.72	< 10	< 1	0.49	10	0.58	100	54
A574957	299	229	3.2	0.91	< 2	130	< 0.5	< 2	1.34	0.5	37	105	3200	1.81	< 10	< 1	0.45	10	0.61	105	153
A574958	299	229	0.8	1.20	< 2	130	< 0.5	2	1.12	< 0.5	43	130	1845	2.41	< 10	< 1	0.64	10	0.80	90	53
A574959	299	229	0.4	1.45	< 2	190	< 0.5	< 2	1.59	0.5	26	111	1225	2.14	< 10	< 1	0.69	10	0.99	100	49
A574960	299	229	0.6	1.40	2	160	< 0.5	< 2	1.57	< 0.5	31	120	1165	2.16	< 10	< 1	0.63	20	0.88	100	28
A574961	299	229	1.0	1.42	< 2	220	< 0.5	< 2	2.06	0.5	21	100	2290	1.79	< 10	< 1	0.65	20	0.86	145	78
A574962	299	229	1.4	1.38	< 2	150	< 0.5	2	2.02	0.5	27	123	3400	2.15	< 10	< 1	0.65	10	0.91	135	51
A574963	299	229	1.4	1.07	8	320	< 0.5	< 2	1.85	0.5	20	110	2240	1.63	< 10	< 1	0.33	10	0.75	185	87
A574964	299	229	2.4	1.22	4	160	< 0.5	< 2	2.19	0.5	29	108	1780	2.20	< 10	< 1	0.38	20	0.90	315	94

CERTIFICATION: Ian H Bucholz

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B574925	299	229	0.03	18	500	12	2	8	42	0.06	< 10	20	53	< 10	52
B574926	299	229	0.02	18	500	4	2	8	26	0.06	< 10	< 10	60	< 10	78
B574927	299	229	0.02	15	510	8	4	8	54	0.05	< 10	< 10	56	< 10	74
B574928	299	229	0.03	10	580	18	2	9	44	0.08	< 10	< 10	69	< 10	70
B574929	299	229	0.02	6	470	20	< 2	9	49	0.04	< 10	10	76	< 10	62
B574930	299	229	0.06	6	550	12	< 2	10	72	0.09	< 10	< 10	83	< 10	62
B574931	299	229	0.04	4	550	6	4	10	63	0.07	< 10	< 10	75	< 10	86
B574932	299	229	0.06	5	540	10	2	11	69	0.09	< 10	< 10	82	< 10	86
B574933	299	229	0.04	5	460	18	2	9	52	0.07	< 10	< 10	71	< 10	80
B574934	299	229	0.04	5	480	14	2	7	48	0.04	< 10	< 10	63	< 10	90
B574935	299	229	0.05	3	500	16	2	9	53	0.08	< 10	< 10	71	< 10	64
B574936	299	229	0.05	3	510	16	2	9	75	0.09	< 10	< 10	78	< 10	34
B574937	299	229	0.03	5	460	12	< 2	8	67	0.07	< 10	< 10	68	< 10	36
B574938	299	229	0.03	4	470	16	2	9	50	0.08	< 10	< 10	73	< 10	38
B574939	299	229	0.04	3	490	22	< 2	10	85	0.14	< 10	< 10	85	< 10	38
B574940	299	229	0.06	3	520	18	2	10	139	0.15	< 10	< 10	88	< 10	34
B574941	299	229	0.04	4	540	18	2	9	85	0.10	< 10	< 10	78	< 10	74
B574942	299	229	0.04	3	440	6	2	7	51	0.08	< 10	< 10	63	< 10	40
B574943	299	229	0.04	4	580	22	< 2	9	48	0.12	< 10	< 10	79	< 10	52
B574944	299	229	0.03	4	480	22	2	7	47	0.08	< 10	< 10	63	< 10	36
B574945	299	229	0.04	3	450	18	2	8	91	0.07	< 10	< 10	68	< 10	46
B574946	299	229	0.02	3	470	24	2	7	57	0.03	< 10	< 10	47	< 10	112
B574947	299	229	0.02	3	420	16	< 2	8	119	0.04	< 10	< 10	51	< 10	54
B574948	299	229	0.01	4	320	18	< 2	7	63	0.04	< 10	< 10	46	< 10	32
B574949	299	229	0.01	3	210	14	2	2	20	< 0.01	< 10	10	14	< 10	46
B574950	299	229	0.01	4	190	10	4	1	21	< 0.01	< 10	< 10	10	< 10	44
B574951	299	229	0.01	4	220	16	4	4	22	0.01	< 10	< 10	24	< 10	52
B574952	299	229	0.01	4	270	8	8	2	16	< 0.01	< 10	< 10	16	< 10	38
B574953	299	229	< 0.01	3	220	12	< 2	1	16	< 0.01	< 10	< 10	10	< 10	36
B574954	299	229	0.01	3	300	6	2	4	37	0.02	< 10	10	33	< 10	54
B574955	299	229	0.01	4	220	12	< 2	3	75	0.01	< 10	10	26	< 10	60
B574956	299	229	0.03	2	270	14	2	4	82	0.03	< 10	< 10	38	< 10	38
B574957	299	229	0.02	4	190	24	2	4	86	0.03	< 10	< 10	38	< 10	56
B574958	299	229	0.06	4	330	10	< 2	7	57	0.08	< 10	< 10	57	< 10	28
B574959	299	229	0.06	2	370	6	< 2	9	65	0.09	< 10	< 10	66	< 10	18
B574960	299	229	0.04	2	400	8	2	8	71	0.08	< 10	< 10	61	< 10	20
B574961	299	229	0.03	3	460	14	4	9	64	0.07	< 10	< 10	60	< 10	32
B574962	299	229	0.04	4	510	16	< 2	10	86	0.08	< 10	< 10	65	< 10	26
B574963	299	229	0.01	3	350	10	4	8	50	0.02	< 10	< 10	42	< 10	38
B574964	299	229	0.03	4	460	18	2	7	81	0.02	< 10	< 10	46	< 10	44

CERTIFICATION: Keith Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page [illegible] :6-A
Total Pages :7
Certificate Date: 14-AUG-93
Invoice No. :I9318404
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B574965	299	229	4.2	0.61	6	70	< 0.5	< 2	2.36	0.5	22	77	2800	2.51	< 10	< 1	0.26	10	0.71	275	31
B574966	299	229	6.0	0.40	220	60	< 0.5	2	2.61	0.5	32	112	3820	3.58	< 10	< 1	0.29	10	0.73	475	91
B574967	299	229	2.6	1.24	4	130	< 0.5	< 2	2.28	0.5	31	91	1980	2.32	< 10	< 1	0.38	20	0.94	325	60
B574968	299	229	3.2	1.34	< 2	130	< 0.5	4	2.28	< 0.5	22	119	2570	2.21	< 10	< 1	0.41	20	0.89	225	141
B574969	299	229	3.0	0.70	< 2	80	< 0.5	24	3.12	0.5	18	91	2180	2.57	< 10	< 1	0.28	20	0.63	185	24
B574970	299	229	2.2	1.33	6	150	< 0.5	< 2	2.13	< 0.5	18	86	2240	1.76	< 10	< 1	0.49	10	0.95	195	143
B574971	299	229	2.4	1.39	< 2	120	< 0.5	< 2	1.49	0.5	26	52	2500	2.24	< 10	< 1	0.42	< 10	0.96	215	83
B574972	299	229	1.2	1.26	< 2	170	< 0.5	< 2	1.67	0.5	18	79	1600	1.66	< 10	< 1	0.60	10	1.00	180	124
B574973	299	229	1.6	1.32	4	130	< 0.5	< 2	1.67	< 0.5	29	54	2100	2.31	< 10	< 1	0.54	10	1.04	200	39
B574974	299	229	2.2	1.37	8	110	< 0.5	< 2	1.57	< 0.5	29	81	2760	2.61	< 10	< 1	0.51	20	0.95	200	44
B574975	299	229	2.0	1.15	< 2	140	< 0.5	< 2	1.75	< 0.5	20	67	2600	1.79	< 10	< 1	0.53	10	0.85	165	172
B574976	299	229	3.8	1.44	2	120	< 0.5	6	1.52	0.5	18	87	4060	2.36	< 10	< 1	0.59	20	1.00	225	35
B574977	299	229	2.6	1.18	6	90	< 0.5	< 2	1.91	< 0.5	28	70	2820	2.26	< 10	< 1	0.61	20	0.88	160	214
B574978	299	229	1.6	1.37	6	90	< 0.5	< 2	1.95	< 0.5	39	84	1870	2.51	< 10	< 1	0.62	20	0.93	220	44
B574979	299	229	2.0	1.16	6	110	< 0.5	10	1.91	< 0.5	28	58	1825	2.17	< 10	< 1	0.54	20	0.82	210	117
B574980	299	229	2.0	1.25	12	100	< 0.5	20	1.66	< 0.5	42	84	1870	2.86	< 10	< 1	0.68	20	0.93	235	11
B574981	299	229	1.0	1.26	8	170	< 0.5	< 2	1.54	< 0.5	30	58	1030	2.34	< 10	< 1	0.51	20	0.70	140	52
B574982	299	229	1.8	0.82	56	170	< 0.5	2	2.60	0.5	28	114	2300	2.30	< 10	< 1	0.08	20	0.95	220	24
B574983	299	229	1.8	0.56	70	130	< 0.5	< 2	2.63	< 0.5	34	72	2590	2.01	< 10	< 1	0.08	10	1.05	205	72
B574984	299	229	1.6	0.91	40	200	< 0.5	< 2	1.31	0.5	39	101	2250	2.17	< 10	< 1	0.12	20	0.43	160	37
B574985	299	229	3.2	0.57	78	80	< 0.5	2	1.25	< 0.5	28	61	4090	2.29	< 10	< 1	0.14	10	0.38	200	72
B574986	299	229	3.0	0.60	54	110	< 0.5	< 2	1.85	0.5	24	84	3750	2.10	< 10	< 1	0.12	20	0.66	215	64
B574987	299	229	5.4	0.52	72	110	< 0.5	2	1.99	< 0.5	13	58	5630	2.11	< 10	< 1	0.11	10	0.67	215	55
B574988	299	229	1.8	1.10	12	130	< 0.5	2	2.21	< 0.5	23	74	1935	2.07	< 10	< 1	0.24	10	0.52	210	26
B574989	299	229	2.4	0.95	8	70	< 0.5	24	1.70	< 0.5	19	67	2470	2.79	< 10	< 1	0.37	20	0.64	180	17
B574990	299	229	2.6	1.05	6	70	< 0.5	22	1.91	0.5	27	94	2900	2.38	< 10	< 1	0.38	20	0.52	170	50
B574991	299	229	1.0	1.55	< 2	190	< 0.5	< 2	2.22	0.5	33	45	1420	2.43	< 10	< 1	0.63	20	0.91	195	36
B574992	299	229	1.6	1.02	8	140	< 0.5	4	4.22	0.5	28	94	2010	2.15	< 10	< 1	0.37	20	0.53	335	34
B574993	299	229	1.2	1.34	14	140	< 0.5	< 2	2.02	< 0.5	28	53	1805	2.20	< 10	< 1	0.61	20	0.85	150	33
B574994	299	229	1.8	1.29	8	170	< 0.5	4	1.87	< 0.5	40	89	3460	2.12	< 10	< 1	0.43	10	0.64	135	96
B574995	299	229	2.4	1.28	8	210	< 0.5	< 2	1.64	< 0.5	28	60	3870	1.90	< 10	< 1	0.44	20	0.65	125	106
B574996	299	229	4.0	1.53	12	150	< 0.5	< 2	2.05	< 0.5	26	78	4850	2.10	< 10	< 1	0.57	10	0.79	140	90
B574997	299	229	1.6	1.30	4	150	< 0.5	< 2	1.79	< 0.5	29	82	2190	2.33	< 10	< 1	0.59	30	0.91	135	34
B574998	299	229	1.6	0.97	4	80	< 0.5	< 2	1.97	0.5	38	99	2310	3.10	< 10	< 1	0.52	10	0.72	125	51
B574999	299	229	0.8	1.49	< 2	180	< 0.5	< 2	1.60	0.5	32	101	1580	2.34	< 10	< 1	0.64	10	1.01	135	25
B575000	299	229	1.2	1.44	14	170	< 0.5	< 2	1.31	< 0.5	30	105	1840	2.63	< 10	< 1	0.61	20	0.96	115	24
B575001	299	229	1.2	1.22	< 2	130	< 0.5	< 2	1.29	< 0.5	26	86	1970	2.12	< 10	< 1	0.62	10	1.01	115	127
B575002	299	229	0.8	1.23	2	130	< 0.5	< 2	1.46	< 0.5	34	115	1410	1.95	< 10	< 1	0.65	10	0.94	125	42
B575003	299	229	1.8	1.18	14	130	< 0.5	4	1.56	< 0.5	21	63	1755	1.78	< 10	< 1	0.48	20	0.63	125	45
B575004	299	229	1.6	1.03	6	100	< 0.5	6	1.79	< 0.5	20	113	1755	1.85	< 10	< 1	0.48	20	0.77	150	37

CERTIFICATION: Stuart Buchler

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 174
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-AUG-93
Invoice No. :I9318404
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R574965	299	229	0.01	3	490	32	2	2	49	< 0.01	< 10	< 10	16	< 10	40
R574966	299	229	0.01	2	420	64	2	2	92	< 0.01	< 10	< 10	11	< 10	64
R574967	299	229	0.05	4	420	14	6	6	137	0.03	< 10	< 10	49	< 10	42
R574968	299	229	0.06	2	480	14	2	6	110	0.02	< 10	< 10	45	< 10	34
R574969	299	229	0.01	3	520	52	< 2	3	117	< 0.01	< 10	< 10	24	< 10	40
R574970	299	229	0.06	3	490	10	2	6	125	0.07	< 10	< 10	55	< 10	36
R574971	299	229	0.08	3	510	2	4	5	82	0.09	< 10	< 10	56	< 10	38
R574972	299	229	0.06	3	400	10	2	8	91	0.10	< 10	< 10	65	< 10	36
R574973	299	229	0.04	3	460	12	2	8	81	0.07	< 10	< 10	63	< 10	38
R574974	299	229	0.05	5	400	2	2	7	71	0.05	< 10	< 10	60	< 10	40
R574975	299	229	0.04	4	390	8	< 2	7	82	0.07	< 10	< 10	55	< 10	32
R574976	299	229	0.04	6	420	14	< 2	8	55	0.06	< 10	< 10	60	< 10	44
R574977	299	229	0.04	3	450	16	< 2	8	86	0.07	< 10	< 10	60	< 10	30
R574978	299	229	0.06	4	420	14	2	8	88	0.07	< 10	< 10	60	< 10	32
R574979	299	229	0.03	3	420	6	4	6	96	0.04	< 10	< 10	48	< 10	38
R574980	299	229	0.04	3	470	12	< 2	9	95	0.08	< 10	< 10	62	< 10	48
R574981	299	229	0.03	3	480	4	2	10	102	0.06	< 10	< 10	58	< 10	24
R574982	299	229	0.01	3	460	20	12	9	26	< 0.01	< 10	< 10	30	< 10	28
R574983	299	229	0.01	6	460	24	16	8	31	< 0.01	< 10	< 10	26	< 10	34
R574984	299	229	0.01	4	490	20	8	9	20	< 0.01	< 10	< 10	37	< 10	38
R574985	299	229	0.01	4	410	18	14	6	17	< 0.01	< 10	10	22	< 10	48
R574986	299	229	0.01	6	380	18	8	7	22	< 0.01	< 10	10	27	< 10	40
R574987	299	229	0.01	5	380	18	8	6	20	< 0.01	< 10	10	27	< 10	44
R574988	299	229	0.01	3	490	2	4	8	36	< 0.01	< 10	< 10	37	< 10	34
R574989	299	229	0.02	3	420	16	< 2	6	86	0.02	< 10	< 10	33	< 10	34
R574990	299	229	0.02	4	380	16	2	6	87	0.02	< 10	< 10	37	< 10	36
R574991	299	229	0.02	3	460	14	2	10	102	0.07	< 10	< 10	58	< 10	28
R574992	299	229	0.01	3	350	14	6	6	44	0.02	< 10	< 10	38	< 10	22
R574993	299	229	0.02	2	420	8	2	9	91	0.06	< 10	< 10	57	< 10	22
R574994	299	229	0.01	4	410	18	4	9	30	0.03	< 10	< 10	55	< 10	20
R574995	299	229	0.01	3	400	14	4	8	34	0.03	< 10	< 10	47	< 10	32
R574996	299	229	0.03	8	390	14	4	8	126	0.05	< 10	< 10	51	< 10	24
R574997	299	229	0.04	4	430	2	< 2	8	108	0.07	< 10	< 10	63	< 10	26
R574998	299	229	0.03	4	400	10	2	6	140	0.04	< 10	< 10	45	< 10	24
R574999	299	229	0.04	4	400	6	2	9	91	0.08	< 10	< 10	65	< 10	22
R575000	299	229	0.03	4	440	10	2	10	86	0.08	< 10	< 10	67	< 10	24
R575001	299	229	0.04	4	440	4	< 2	8	74	0.09	< 10	< 10	69	< 10	22
R575002	299	229	0.04	3	460	12	2	8	75	0.07	< 10	< 10	64	< 10	20
R575003	299	229	0.02	3	430	16	2	4	59	0.01	< 10	< 10	38	< 10	22
R575004	299	229	0.03	3	450	6	2	6	103	0.02	< 10	< 10	46	< 10	28

CERTIFICATION: Stewart Bichler

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Certificate Date: 14-AUG-93
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CERTIFICATE OF ANALYSIS A9318404

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H575005	299	229	3.2	1.01	< 2	90	< 0.5	2	1.45	0.5	16	44	3560	1.91	< 10	< 1	0.51	10	0.77	160	56
H575006	299	229	0.8	1.06	2	60	< 0.5	2	1.17	< 0.5	22	69	1445	1.50	< 10	< 1	0.43	10	0.75	140	24
H575007	299	229	2.2	1.16	14	60	< 0.5	26	1.45	0.5	40	46	1880	4.44	< 10	< 1	0.44	20	0.73	230	21
H575008	299	229	2.4	0.91	20	100	< 0.5	6	1.85	< 0.5	19	94	2470	2.41	< 10	< 1	0.35	20	0.58	150	70
H575009	299	229	1.6	0.99	12	140	< 0.5	< 2	1.96	< 0.5	21	65	2130	1.62	< 10	< 1	0.50	20	0.76	120	28
H575010	299	229	1.2	1.28	< 2	210	< 0.5	< 2	1.44	< 0.5	16	65	1525	1.89	< 10	< 1	0.68	10	1.07	100	46
H575011	299	229	1.2	1.22	< 2	160	< 0.5	< 2	1.55	< 0.5	23	54	1805	2.04	< 10	< 1	0.66	10	1.06	95	61
H575012	299	229	2.0	1.33	< 2	130	< 0.5	2	1.40	< 0.5	35	84	1930	2.44	< 10	< 1	0.80	10	1.09	95	58
H575013	299	229	2.0	0.87	2	130	< 0.5	< 2	2.10	0.5	31	70	2650	1.96	< 10	< 1	0.44	20	0.81	140	155
H575014	299	229	2.4	0.55	22	110	< 0.5	< 2	1.63	< 0.5	20	95	2040	1.95	< 10	< 1	0.17	30	0.47	145	79
H575015	299	229	2.4	0.85	4	170	< 0.5	< 2	1.53	< 0.5	17	74	2600	1.60	< 10	< 1	0.39	10	0.56	110	159
H575016	299	229	1.0	0.81	< 2	190	< 0.5	< 2	1.97	< 0.5	20	83	1390	1.72	< 10	< 1	0.40	10	0.70	100	19
H575017	299	229	1.8	0.55	4	160	< 0.5	< 2	1.90	< 0.5	20	64	1515	1.57	< 10	< 1	0.21	10	0.55	100	40
H575018	299	229	2.6	0.55	22	80	< 0.5	4	1.63	0.5	19	94	2350	2.11	< 10	< 1	0.18	20	0.42	110	44
H575019	299	229	1.4	0.53	8	200	< 0.5	2	2.05	< 0.5	20	100	2130	2.02	< 10	< 1	0.08	20	0.68	140	80
H575020	299	229	0.8	0.99	< 2	240	< 0.5	< 2	2.08	0.5	18	104	937	2.54	10	< 1	0.06	70	0.70	160	70
3166	299	229	1.8	0.51	36	170	< 0.5	< 2	0.02	< 0.5	11	85	694	2.71	< 10	< 1	0.45	20	0.07	15	180

CERTIFICATION: _____

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H575005	299	229	0.02	6	400	22	< 2	4	80	0.02	< 10	< 10	42	< 10	30
H575006	299	229	0.04	4	360	2	< 2	6	53	0.03	< 10	< 10	49	< 10	28
H575007	299	229	0.03	5	490	18	2	6	51	0.02	< 10	< 10	40	< 10	36
H575008	299	229	0.02	4	560	18	4	6	55	0.01	< 10	< 10	36	< 10	32
H575009	299	229	0.03	5	470	10	2	8	107	0.05	< 10	< 10	55	< 10	26
H575010	299	229	0.04	3	460	6	< 2	9	61	0.12	< 10	< 10	76	< 10	20
H575011	299	229	0.03	3	480	8	< 2	10	71	0.11	< 10	< 10	74	< 10	24
H575012	299	229	0.05	4	490	8	4	10	67	0.12	< 10	< 10	80	< 10	22
H575013	299	229	0.02	6	420	12	2	8	92	0.04	< 10	10	55	< 10	38
H575014	299	229	0.01	4	410	32	12	7	25	< 0.01	< 10	< 10	37	< 10	86
H575015	299	229	0.02	3	380	8	4	8	103	0.03	< 10	< 10	43	< 10	26
H575016	299	229	0.02	2	400	8	2	8	68	0.03	< 10	< 10	44	< 10	20
H575017	299	229	0.01	3	350	16	2	6	50	0.01	< 10	< 10	28	< 10	18
H575018	299	229	0.01	6	390	32	< 2	5	32	< 0.01	< 10	< 10	23	< 10	34
H575019	299	229	0.01	4	440	12	4	10	24	< 0.01	< 10	< 10	39	< 10	24
H575020	299	229	0.01	4	560	14	10	13	32	< 0.01	< 10	< 10	54	< 10	26
3166	299	229	0.01	3	420	14	6	3	83	0.01	< 10	< 10	27	< 10	16

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-AUG-93
Invoice No. : I9317934
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317934

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564519	208	276	0.02	0.028	0.14	10720
564520	208	276	0.03	0.005	0.17	10700
564521	208	273	0.03	0.005	0.14	11840
564522	208	276	0.02	0.019	0.34	10760
564523	208	273	0.03	0.033	0.48	12140
564524	208	273	0.04	0.029	0.27	12480
564525	208	273	0.30	0.024	0.41	12960
564526	208	276	0.07	0.020	0.38	10860
564527	208	276	0.02	0.020	0.45	9980
564528	208	276	0.02	0.017	0.48	9160
564529	208	276	0.01	0.018	0.31	8220
564530	208	276	0.01	0.018	0.31	11640
564531	208	276	0.01	0.017	0.55	8280
564532	208	276	0.02	0.022	0.31	10780
564533	208	273	0.02	0.022	0.24	14380
564534	208	273	0.06	0.029	0.41	12080
564535	208	273	0.38	0.034	0.65	13000
564536	208	273	0.26	0.019	0.65	12040
564537	208	273	0.15	0.010	0.17	13160
564538	208	273	0.16	0.023	0.21	12360
564539	208	273	0.32	0.031	0.41	13200
564540	208	273	0.14	0.026	0.31	12500
564541	208	273	0.16	0.007	0.14	14300
564542	208	273	0.14	0.022	0.17	13000
564543	208	273	0.17	0.018	0.34	13440
564544	208	273	0.13	0.012	0.21	12820
564545	208	273	0.15	0.009	0.10	12440
564546	208	273	0.08	0.039	0.31	12580
564547	208	273	0.04	0.045	0.41	12680
564548	208	273	0.03	0.039	0.38	12380
564549	208	276	0.02	0.037	0.55	11280
564550	208	273	0.03	0.042	0.55	12820
564551	208	273	0.04	0.019	0.38	12560
564552	208	273	0.05	0.020	0.58	11880
564553	208	273	0.03	0.020	0.27	12240
564554	208	276	0.03	0.032	0.27	11540
564555	208	273	0.01	0.019	0.27	12200
564556	208	276	0.02	0.045	0.27	11700
564557	208	276	0.02	0.041	0.31	11520
564558	208	276	0.03	0.047	0.27	11650

CERTIFICATION: Said Zeinab

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CERTIFICATE OF ANALYSIS A9317934

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
564559	208	273	0.04	0.029	0.24	12260						
564560	208	273	0.03	0.023	0.21	11860						
564561	208	276	0.06	0.032	0.27	11440						
564562	208	273	0.06	0.039	0.48	12420						
564563	208	276	0.14	0.035	0.24	9580						
564564	208	273	0.16	0.036	0.21	12720						
564565	208	273	0.10	0.055	0.21	12780						
564566	208	274	0.07	0.058	6.20	6620						
564567	208	276	0.05	0.072	0.55	7660						
564568	208	276	0.33	0.037	0.31	9020						
564569	208	276	0.39	0.046	0.24	11280						
564570	208	276	0.44	0.047	0.51	11780						
564571	208	273	0.51	0.084	0.38	11860						
564572	208	276	0.47	0.111	0.45	10920						
564573	208	276	0.16	0.068	0.17	10040						
564574	208	276	0.42	0.048	0.69	9740						
564575	208	276	0.41	0.035	0.45	10360						
564576	208	273	0.40	0.041	0.34	12180						
564577	208	276	0.42	0.032	0.38	11060						
564578	208	273	0.40	0.110	0.24	11900						
564579	208	276	0.66	0.109	0.38	11540						
564580	208	273	0.28	0.052	0.24	12360						
564581	208	276	0.36	0.024	0.27	9300						
564582	208	276	0.51	0.036	0.24	11380						
564583	208	273	0.26	0.033	0.21	12400						
564584	208	273	0.42	0.055	0.17	12040						
564585	208	273	0.22	0.025	0.24	12280						
564586	208	276	0.14	0.046	0.14	11220						
564587	208	273	0.28	0.016	0.27	12540						
564588	208	273	0.36	0.036	0.31	12740						
564589	208	273	0.22	0.044	0.17	11840						
564590	208	276	0.25	0.025	0.21	11060						
564591	208	276	0.17	0.030	0.17	10740						
564592	208	273	0.15	0.034	0.24	11840						
564593	208	276	0.15	0.106	0.38	10600						
564594	208	276	0.20	0.091	0.24	10740						
564595	208	273	0.18	0.049	0.17	12000						
564596	208	273	0.26	0.024	0.24	12540						
564597	208	276	0.12	0.036	0.45	10820						
564598	208	273	0.21	0.017	0.21	13460						

CERTIFICATION: Said Zeinab

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Y1A 3S9

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CERTIFICATE OF ANALYSIS A9317934

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564599	208	273	0.30	0.028	0.24	12440
564600	208	273	0.21	0.039	0.17	12480
564601	208	276	0.22	0.040	0.21	11640
564602	208	273	0.24	0.036	0.27	12260
564603	208	273	0.18	0.031	0.17	12880
564604	208	273	0.23	0.041	0.21	12120
564605	208	273	0.24	0.039	0.24	12800
564606	208	273	0.30	0.057	0.31	12360
564607	208	273	0.29	0.063	0.27	12320
564608	208	276	0.19	0.029	0.21	11700
564609	208	274	0.22	0.058	0.34	4980
564610	208	274	0.33	0.072	0.27	3560
564611	208	274	0.31	0.061	0.21	6940
564612	208	274	0.23	0.046	0.17	6800
564613	208	274	0.18	0.044	0.14	6800
564614	208	276	0.21	0.041	0.27	7540
564615	208	274	0.17	0.096	0.17	6960
564616	208	274	0.17	0.048	0.17	6980
564617	208	276	0.19	0.066	0.27	7720
564618	208	274	0.09	0.223	0.34	7140
564619	208	274	0.23	0.075	0.24	6780
564620	208	274	0.20	0.048	0.14	6880
564621	208	274	0.18	0.125	0.14	7200
564622	208	274	0.21	0.099	0.17	6880
564623	208	274	0.18	0.138	0.21	6880
564624	208	274	0.19	0.075	0.34	6380
564625	208	276	0.13	0.079	0.34	7520
564626	208	274	0.20	0.062	0.21	6820
564627	208	274	0.26	0.070	0.41	6920
564628	208	274	0.32	0.074	0.41	6680
564629	208	274	0.37	0.068	0.21	7220
564630	208	274	0.22	0.104	0.14	6700
564631	208	274	0.16	0.065	0.24	6780
564632	208	274	0.15	0.131	0.14	6820
564633	208	274	0.24	0.045	0.14	6560
564634	208	274	0.18	0.071	0.27	7200
564635	208	274	0.16	0.072	0.24	6980
564636	208	274	0.24	0.042	0.21	6860
564637	208	274	0.21	0.034	0.14	6600
564638	208	274	0.21	0.049	0.17	7100

CERTIFICATION: Said Zeinab

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Project : CASINO 175
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Certificate Date: 03-AUG-93
Invoice No. :I9317934
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CERTIFICATE OF ANALYSIS A9317934

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
564639	208	276	0.19	0.066	0.17	7420						
564640	208	276	0.15	0.046	0.21	7440						
564641	208	274	0.15	0.059	0.10	7060						
564642	208	274	0.20	0.108	0.10	6900						
564643	208	274	0.21	0.030	0.17	7060						
564644	208	276	0.21	0.033	0.17	7560						
564645	208	276	0.06	0.026	0.58	8460						
564646	208	276	0.14	0.061	0.21	7320						
564647	208	274	0.21	0.032	0.24	6460						
564648	208	274	0.16	0.043	0.14	6640						
564649	208	274	0.21	0.064	0.21	5400						
564650	208	274	0.17	0.086	0.17	6880						
564651	208	274	0.12	0.065	0.10	6500						
564652	208	274	0.12	0.037	0.14	6420						
564653	208	274	0.08	0.172	0.07	6900						
564654	208	274	0.08	0.068	0.10	6840						

CERTIFICATION: Said Zeinab

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Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page er :1-A
Total P s :4
Certificate Date: 04-AUG-93
Invoice No. :I9317957
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564519	299	229	2.2	0.73	54	100	< 0.5	6	0.03	< 0.5	1	81	184	5.67	10	< 1	1.26	40	0.07	10	164
564520	299	229	1.2	1.61	44	220	< 0.5	10	0.03	< 0.5	< 1	65	339	3.82	< 10	< 1	0.94	20	0.14	15	30
564521	299	229	1.4	1.49	28	130	< 0.5	8	0.03	< 0.5	< 1	66	322	4.53	< 10	< 1	1.08	20	0.11	15	34
564522	299	229	2.6	0.52	68	70	< 0.5	12	0.02	< 0.5	2	84	208	5.48	< 10	< 1	1.21	10	0.04	15	105
564523	299	229	3.0	0.59	100	50	< 0.5	16	0.02	< 0.5	4	82	318	8.07	< 10	< 1	1.63	10	0.04	10	189
564524	299	229	2.8	0.68	52	50	< 0.5	10	0.01	< 0.5	9	69	464	5.82	< 10	< 1	1.15	10	0.04	10	173
564525	299	229	4.8	0.84	40	40	< 0.5	16	0.02	< 0.5	9	84	3130	5.17	< 10	< 1	0.89	10	0.05	15	138
564526	299	229	3.6	0.71	40	80	< 0.5	4	0.01	< 0.5	3	73	666	4.56	< 10	< 1	1.13	10	0.03	10	111
564527	299	229	4.8	0.76	36	140	< 0.5	4	0.01	< 0.5	< 1	104	206	4.04	< 10	< 1	1.13	20	0.04	10	109
564528	299	229	4.4	0.63	22	180	< 0.5	10	0.01	< 0.5	< 1	66	163	2.90	< 10	< 1	0.87	20	0.04	10	85
564529	299	229	2.8	0.59	18	270	< 0.5	10	0.01	< 0.5	1	131	143	2.20	< 10	< 1	0.71	20	0.04	10	105
564530	299	229	2.2	0.53	18	150	< 0.5	6	0.01	< 0.5	< 1	118	122	3.53	< 10	< 1	0.97	30	0.03	10	96
564531	299	229	3.6	0.60	28	100	< 0.5	10	0.01	< 0.5	1	85	120	4.31	< 10	< 1	1.16	10	0.04	10	91
564532	299	229	3.8	0.52	24	140	< 0.5	6	0.01	< 0.5	1	102	167	3.84	< 10	< 1	1.01	20	0.03	10	123
564533	299	229	2.8	0.62	18	130	< 0.5	2	0.01	< 0.5	1	100	170	3.51	< 10	< 1	0.97	20	0.04	10	129
564534	299	229	2.2	0.78	32	90	< 0.5	12	0.01	< 0.5	6	161	590	3.89	< 10	< 1	0.98	20	0.04	15	162
564535	299	229	4.0	1.00	12	70	< 0.5	18	0.02	< 0.5	12	111	3800	4.72	< 10	< 1	0.67	10	0.21	50	198
564536	299	229	4.4	1.08	34	70	< 0.5	18	0.01	< 0.5	8	120	2620	4.83	< 10	< 1	0.93	10	0.15	30	104
564537	299	229	1.2	2.26	18	70	< 0.5	10	0.12	< 0.5	9	84	1445	4.30	< 10	< 1	0.86	20	0.56	50	54
564538	299	229	1.4	2.04	20	60	< 0.5	6	0.06	< 0.5	8	120	1640	4.75	< 10	< 1	1.02	20	0.64	65	135
564539	299	229	2.6	1.60	12	100	< 0.5	12	0.02	< 0.5	10	125	3410	5.14	< 10	< 1	1.04	10	0.48	70	198
564540	299	229	2.0	1.80	16	120	< 0.5	6	0.03	< 0.5	11	134	1360	5.42	< 10	< 1	0.97	20	0.58	80	152
564541	299	229	0.8	2.33	32	140	< 0.5	8	0.06	< 0.5	14	99	1605	4.50	< 10	< 1	0.86	20	0.97	110	41
564542	299	229	0.8	2.23	24	120	< 0.5	2	0.04	< 0.5	9	143	1355	4.26	< 10	< 1	0.91	40	0.68	65	124
564543	299	229	2.6	1.53	24	90	< 0.5	16	0.06	< 0.5	10	144	1670	4.49	< 10	< 1	0.99	20	0.34	45	104
564544	299	229	1.8	1.61	32	100	< 0.5	4	0.09	< 0.5	8	86	1290	4.23	< 10	< 1	0.91	20	0.35	35	69
564545	299	229	0.6	2.54	4	200	< 0.5	8	0.06	< 0.5	8	83	1350	2.50	< 10	< 1	0.72	20	0.53	50	47
564546	299	229	3.0	0.71	36	100	< 0.5	4	0.01	< 0.5	8	156	746	3.30	< 10	< 1	0.67	10	0.06	15	219
564547	299	229	3.8	0.67	34	150	< 0.5	8	0.01	< 0.5	7	120	417	3.39	< 10	< 1	0.79	20	0.05	10	262
564548	299	229	4.4	0.72	30	150	< 0.5	6	0.01	< 0.5	3	117	310	3.50	< 10	< 1	0.91	20	0.06	10	230
564549	299	229	3.8	0.62	50	90	< 0.5	12	0.01	< 0.5	1	121	150	6.22	< 10	< 1	1.38	10	0.04	10	205
564550	299	229	3.6	1.33	28	150	< 0.5	4	0.02	< 0.5	1	97	303	4.28	10	< 1	0.96	30	0.21	30	244
564551	299	229	1.6	1.65	2	280	< 0.5	4	0.02	< 0.5	3	140	336	4.06	< 10	< 1	0.83	30	0.47	55	110
564552	299	229	1.4	1.86	< 2	310	< 0.5	6	0.02	< 0.5	2	131	464	3.59	< 10	< 1	0.88	20	0.60	80	117
564553	299	229	1.6	1.93	2	250	< 0.5	6	0.02	< 0.5	2	114	279	2.85	< 10	< 1	0.82	30	0.42	40	119
564554	299	229	1.4	1.73	10	250	< 0.5	2	0.02	< 0.5	1	136	255	2.39	10	< 1	0.81	30	0.34	30	178
564555	299	229	2.2	0.68	16	230	< 0.5	4	0.01	< 0.5	< 1	162	108	2.20	< 10	< 1	0.64	20	0.06	10	117
564556	299	229	2.0	1.78	30	280	< 0.5	4	0.02	< 0.5	1	163	232	2.97	10	< 1	0.95	30	0.26	20	269
564557	299	229	2.0	1.14	26	260	< 0.5	2	0.02	< 0.5	2	163	209	3.11	< 10	< 1	0.79	30	0.14	20	238
564558	299	229	1.6	1.14	22	200	< 0.5	6	0.03	< 0.5	1	151	247	2.09	10	< 1	0.55	40	0.13	20	289

CERTIFICATION: Ian Bradley

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Y1A 3S9

Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : 19317957
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564519	299	229	0.04	< 1	1120	28	2	3	85	0.02	< 10	< 10	15	10	4
564520	299	229	0.07	1	560	20	< 2	4	34	0.02	< 10	< 10	23	< 10	16
564521	299	229	0.05	1	860	18	< 2	4	36	< 0.01	< 10	< 10	20	< 10	14
564522	299	229	0.04	1	410	188	4	1	19	< 0.01	< 10	< 10	15	< 10	12
564523	299	229	0.03	1	410	46	4	2	29	< 0.01	< 10	< 10	24	< 10	4
564524	299	229	0.03	< 1	440	32	4	2	21	< 0.01	< 10	< 10	24	< 10	4
564525	299	229	0.03	3	250	40	< 2	4	17	0.02	< 10	< 10	31	< 10	10
564526	299	229	0.02	1	150	78	< 2	3	14	0.02	< 10	< 10	27	< 10	4
564527	299	229	0.02	< 1	200	40	2	3	15	0.01	< 10	< 10	32	< 10	4
564528	299	229	0.02	< 1	140	32	< 2	2	12	< 0.01	< 10	< 10	27	< 10	2
564529	299	229	0.02	1	160	24	< 2	2	14	0.01	< 10	< 10	20	< 10	4
564530	299	229	0.02	< 1	260	14	< 2	3	20	0.01	< 10	< 10	23	10	4
564531	299	229	0.02	< 1	280	20	< 2	3	21	0.01	< 10	< 10	27	10	2
564532	299	229	0.02	1	320	16	2	4	21	0.01	< 10	< 10	27	10	4
564533	299	229	0.02	< 1	220	8	2	3	15	0.01	< 10	< 10	29	10	4
564534	299	229	0.03	2	260	14	2	3	19	0.01	< 10	< 10	28	< 10	4
564535	299	229	0.02	3	220	6	< 2	4	9	0.04	< 10	< 10	52	< 10	18
564536	299	229	0.04	3	460	18	< 2	6	23	0.03	< 10	< 10	41	< 10	12
564537	299	229	0.05	9	290	10	2	5	29	0.07	< 10	< 10	37	< 10	22
564538	299	229	0.07	8	430	8	2	6	31	0.09	< 10	< 10	46	10	18
564539	299	229	0.03	4	250	6	2	6	15	0.07	< 10	< 10	68	20	20
564540	299	229	0.06	6	340	8	2	6	25	0.07	< 10	< 10	58	10	30
564541	299	229	0.03	12	410	10	< 2	5	32	0.09	< 10	< 10	49	10	34
564542	299	229	0.07	10	490	14	< 2	5	52	0.07	< 10	< 10	40	< 10	18
564543	299	229	0.09	6	370	10	< 2	5	21	0.06	< 10	< 10	43	< 10	16
564544	299	229	0.12	7	600	8	2	4	29	0.04	< 10	< 10	30	< 10	14
564545	299	229	0.07	10	350	14	< 2	4	35	0.05	< 10	< 10	36	< 10	14
564546	299	229	0.04	2	210	12	< 2	1	17	< 0.01	< 10	< 10	10	< 10	4
564547	299	229	0.03	2	210	8	2	2	23	< 0.01	< 10	< 10	16	< 10	4
564548	299	229	0.03	< 1	340	24	2	3	38	< 0.01	< 10	< 10	19	< 10	4
564549	299	229	0.03	1	210	46	< 2	2	29	0.01	< 10	< 10	22	10	4
564550	299	229	0.07	1	480	10	2	6	39	0.04	< 10	< 10	49	10	8
564551	299	229	0.08	4	290	16	< 2	6	23	0.06	< 10	< 10	59	< 10	18
564552	299	229	0.07	2	320	10	< 2	7	25	0.06	< 10	< 10	72	< 10	20
564553	299	229	0.03	2	360	10	2	6	17	0.03	< 10	< 10	47	< 10	8
564554	299	229	0.03	4	420	12	2	7	30	0.02	< 10	< 10	40	10	8
564555	299	229	0.02	2	240	10	< 2	1	20	< 0.01	< 10	< 10	9	10	2
564556	299	229	0.04	2	540	14	4	5	44	0.02	< 10	< 10	36	10	6
564557	299	229	0.03	1	440	12	2	3	40	< 0.01	< 10	< 10	24	10	6
564558	299	229	0.02	1	670	14	2	4	118	< 0.01	< 10	< 10	25	10	4

CERTIFICATION: Hartt Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. :I9317957
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564559	299	229	1.6	1.33	22	250	< 0.5	< 2	0.03	< 0.5	2	133	360	2.61	10	< 1	0.66	40	0.22	25	166
564560	299	229	2.0	0.67	30	170	< 0.5	4	0.03	< 0.5	1	102	267	3.24	10	< 1	0.68	50	0.08	10	133
564561	299	229	1.4	0.85	26	200	< 0.5	4	0.02	< 0.5	2	190	508	2.35	< 10	< 1	0.54	30	0.16	20	183
564562	299	229	2.2	1.15	20	160	< 0.5	< 2	0.02	< 0.5	4	70	573	1.71	< 10	< 1	0.45	40	0.26	30	222
564563	299	229	1.6	0.59	12	100	< 0.5	2	0.01	< 0.5	5	32	1275	2.47	< 10	< 1	0.31	20	0.14	10	202
564564	299	229	2.4	0.71	12	160	< 0.5	4	0.02	< 0.5	6	99	1445	1.66	< 10	< 1	0.30	20	0.09	10	191
564565	299	229	2.4	0.37	14	100	< 0.5	6	0.04	< 0.5	7	73	881	2.22	10	< 1	0.16	30	0.03	5	315
564566	299	229	41.6	0.65	72	10	< 0.5	88	0.05	0.5	9	123	639	8.89	10	< 1	0.27	50	0.05	10	323
564567	299	229	4.8	0.33	84	20	< 0.5	16	0.02	< 0.5	52	68	445	8.06	< 10	< 1	0.13	20	0.02	5	392
564568	299	229	2.8	0.78	24	40	< 0.5	4	0.02	< 0.5	8	99	3250	2.84	< 10	< 1	0.25	20	0.06	10	230
564569	299	229	2.8	0.81	12	80	< 0.5	4	0.03	< 0.5	10	74	3780	1.85	< 10	< 1	0.18	40	0.14	15	293
564570	299	229	3.4	0.93	26	80	< 0.5	6	0.02	< 0.5	15	108	4510	2.08	< 10	< 1	0.35	30	0.16	20	276
564571	299	229	2.8	0.71	26	70	< 0.5	4	0.03	< 0.5	13	152	4970	2.15	< 10	< 1	0.33	20	0.09	15	468
564572	299	229	2.8	0.68	22	70	< 0.5	2	0.03	< 0.5	9	101	4940	2.13	< 10	< 1	0.33	20	0.08	10	649
564573	299	229	1.4	0.26	22	60	< 0.5	4	0.01	< 0.5	10	46	1550	2.66	< 10	< 1	0.13	10	0.01	5	378
564574	299	229	6.4	0.69	26	20	< 0.5	14	0.02	< 0.5	6	109	4290	6.68	< 10	< 1	0.29	20	0.07	10	282
564575	299	229	3.0	0.67	16	100	< 0.5	2	0.02	< 0.5	11	59	3830	1.35	< 10	< 1	0.12	20	0.07	10	174
564576	299	229	2.4	0.74	18	60	< 0.5	2	0.02	< 0.5	15	85	4100	2.63	< 10	< 1	0.25	20	0.08	10	261
564577	299	229	3.2	0.89	10	80	< 0.5	< 2	0.02	< 0.5	12	197	4200	2.23	< 10	< 1	0.26	20	0.07	15	201
564578	299	229	1.8	0.54	26	30	< 0.5	2	0.02	< 0.5	12	81	3860	4.67	< 10	< 1	0.20	20	0.03	10	669
564579	299	229	4.0	0.56	18	40	< 0.5	2	0.04	< 0.5	11	77	6430	2.98	< 10	< 1	0.14	30	0.04	5	599
564580	299	229	1.4	0.66	10	40	< 0.5	2	0.03	< 0.5	12	109	2630	3.12	< 10	< 1	0.25	20	0.05	10	312
564581	299	229	1.4	1.01	16	10	< 0.5	< 2	0.02	< 0.5	10	158	3260	4.09	< 10	< 1	0.29	10	0.14	15	146
564582	299	229	1.8	0.97	16	60	< 0.5	< 2	0.05	< 0.5	10	85	4910	2.92	< 10	< 1	0.21	30	0.06	10	218
564583	299	229	1.4	0.88	10	60	< 0.5	< 2	0.02	< 0.5	10	145	2440	2.71	< 10	< 1	0.24	20	0.09	10	212
564584	299	229	1.8	0.99	28	60	< 0.5	2	0.03	< 0.5	11	87	3930	2.76	< 10	< 1	0.24	30	0.10	10	320
564585	299	229	1.4	1.11	20	80	< 0.5	< 2	0.04	< 0.5	14	164	2020	2.51	< 10	< 1	0.36	20	0.20	20	147
564586	299	229	1.0	0.74	12	50	< 0.5	2	0.08	< 0.5	13	81	1210	2.81	< 10	< 1	0.28	20	0.09	10	255
564587	299	229	2.8	1.39	18	120	< 0.5	2	0.17	< 0.5	15	167	2720	3.01	< 10	< 1	0.43	30	0.34	225	99
564588	299	229	2.4	1.30	22	60	< 0.5	2	0.09	< 0.5	13	93	3190	2.12	< 10	< 1	0.30	20	0.18	40	219
564589	299	229	1.6	1.21	10	80	< 0.5	< 2	0.10	< 0.5	11	143	2060	2.28	< 10	< 1	0.42	20	0.36	45	256
564590	299	229	1.8	0.79	22	70	< 0.5	2	0.19	< 0.5	21	118	2380	3.33	< 10	< 1	0.39	20	0.30	140	144
564591	299	229	1.4	1.04	16	110	< 0.5	< 2	0.79	< 0.5	11	123	1630	2.23	< 10	< 1	0.38	30	0.55	95	177
564592	299	229	1.8	0.84	14	30	< 0.5	2	0.34	< 0.5	12	110	1535	3.88	< 10	< 1	0.36	20	0.32	120	212
564593	299	229	2.2	0.60	28	20	< 0.5	< 2	0.32	< 0.5	17	54	1420	5.44	< 10	< 1	0.26	20	0.35	65	619
564594	299	229	1.6	0.81	8	60	< 0.5	< 2	0.25	0.5	18	97	1840	2.74	< 10	< 1	0.31	30	0.26	70	529
564595	299	229	1.8	0.44	2	50	< 0.5	< 2	0.56	< 0.5	14	70	1750	2.64	< 10	< 1	0.21	30	0.37	110	265
564596	299	229	2.0	0.63	4	40	< 0.5	< 2	0.81	< 0.5	24	85	2420	3.10	< 10	< 1	0.30	20	0.52	130	122
564597	299	229	4.4	0.55	22	10	< 0.5	6	0.12	0.5	10	179	1090	5.87	< 10	< 1	0.27	10	0.06	15	200
564598	299	229	1.6	0.57	6	30	< 0.5	< 2	0.54	< 0.5	17	114	1970	3.16	< 10	< 1	0.23	20	0.25	65	88

CERTIFICATION: Stewart Bichler

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Y1A 3S9

Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : 19317957
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564559	299	229	0.02	2	800	8	< 2	5	205	0.01	< 10	< 10	29	< 10	10
564560	299	229	0.03	2	880	10	< 2	3	169	< 0.01	< 10	< 10	19	< 10	8
564561	299	229	0.02	3	470	4	< 2	3	55	0.01	< 10	< 10	24	< 10	8
564562	299	229	0.01	2	600	8	< 2	6	88	0.01	< 10	< 10	30	< 10	10
564563	299	229	0.01	2	470	8	< 2	5	51	< 0.01	< 10	< 10	14	< 10	6
564564	299	229	0.01	3	430	4	< 2	4	43	< 0.01	< 10	< 10	9	< 10	6
564565	299	229	< 0.01	3	810	10	< 2	4	148	< 0.01	10	< 10	4	< 10	12
564566	299	229	0.01	3	870	82	8	18	346	< 0.01	< 10	< 10	6	< 10	46
564567	299	229	< 0.01	4	460	26	< 2	7	141	< 0.01	< 10	< 10	2	< 10	18
564568	299	229	0.01	4	410	12	< 2	4	49	< 0.01	< 10	< 10	8	< 10	8
564569	299	229	< 0.01	6	650	8	< 2	5	94	< 0.01	< 10	< 10	13	< 10	14
564570	299	229	0.01	5	390	14	< 2	2	49	< 0.01	< 10	< 10	12	< 10	16
564571	299	229	0.01	4	450	6	< 2	2	79	< 0.01	< 10	< 10	7	< 10	12
564572	299	229	0.01	5	410	10	< 2	2	46	< 0.01	< 10	< 10	5	< 10	12
564573	299	229	< 0.01	2	220	8	< 2	1	7	< 0.01	< 10	< 10	< 1	< 10	8
564574	299	229	0.01	6	370	48	< 2	2	45	< 0.01	< 10	< 10	7	< 10	22
564575	299	229	< 0.01	4	580	6	< 2	3	27	< 0.01	< 10	< 10	10	< 10	12
564576	299	229	0.01	5	360	6	< 2	2	42	< 0.01	< 10	< 10	7	< 10	10
564577	299	229	0.01	7	310	2	< 2	2	15	< 0.01	< 10	< 10	11	< 10	12
564578	299	229	< 0.01	5	290	10	< 2	1	34	< 0.01	< 10	< 10	3	< 10	14
564579	299	229	< 0.01	5	600	6	2	2	42	< 0.01	< 10	< 10	3	< 10	16
564580	299	229	0.01	6	430	4	< 2	2	45	< 0.01	< 10	< 10	7	< 10	12
564581	299	229	0.01	8	450	4	< 2	3	37	< 0.01	< 10	< 10	13	< 10	14
564582	299	229	0.01	6	750	8	< 2	3	205	< 0.01	< 10	< 10	12	< 10	12
564583	299	229	0.01	6	520	6	< 2	3	13	< 0.01	< 10	< 10	14	< 10	10
564584	299	229	< 0.01	5	640	4	< 2	3	40	< 0.01	< 10	< 10	14	< 10	10
564585	299	229	0.01	5	500	6	< 2	3	15	< 0.01	< 10	< 10	20	< 10	12
564586	299	229	0.01	5	410	6	< 2	1	7	< 0.01	< 10	< 10	9	< 10	12
564587	299	229	0.01	6	500	14	< 2	3	14	0.01	< 10	< 10	24	< 10	52
564588	299	229	0.01	7	520	40	< 2	2	7	< 0.01	< 10	< 10	19	< 10	28
564589	299	229	0.01	5	330	12	< 2	2	6	0.01	< 10	< 10	19	< 10	28
564590	299	229	0.01	6	320	8	< 2	2	5	0.01	< 10	< 10	14	< 10	34
564591	299	229	0.01	4	320	6	2	3	12	0.02	< 10	< 10	22	10	20
564592	299	229	0.01	7	340	10	< 2	2	8	< 0.01	< 10	< 10	15	< 10	32
564593	299	229	< 0.01	4	480	30	2	2	26	0.01	< 10	< 10	12	< 10	32
564594	299	229	0.01	6	510	10	< 2	2	25	< 0.01	< 10	< 10	15	< 10	28
564595	299	229	< 0.01	3	480	16	< 2	2	8	< 0.01	< 10	< 10	13	< 10	22
564596	299	229	0.01	4	480	16	< 2	3	12	< 0.01	< 10	< 10	19	< 10	26
564597	299	229	< 0.01	7	320	64	< 2	1	15	< 0.01	< 10	< 10	7	< 10	42
564598	299	229	< 0.01	5	370	12	< 2	2	24	< 0.01	< 10	< 10	13	< 10	18

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564599	299	229	2.2	1.48	6	70	< 0.5	< 2	0.76	< 0.5	15	243	3000	3.05	< 10	< 1	0.63	20	0.51	105	172
564600	299	229	1.6	1.40	< 2	60	< 0.5	< 2	0.79	< 0.5	10	147	2030	2.66	< 10	< 1	0.59	20	0.78	150	219
564601	299	229	1.8	1.12	4	50	< 0.5	2	0.67	< 0.5	9	199	2080	2.78	< 10	< 1	0.48	30	0.48	140	232
564602	299	229	2.0	1.32	8	90	< 0.5	< 2	0.82	< 0.5	16	178	2390	2.59	< 10	< 1	0.52	20	0.61	115	220
564603	299	229	1.6	1.29	10	60	< 0.5	< 2	1.17	< 0.5	12	179	1660	2.60	< 10	< 1	0.54	20	0.61	95	184
564604	299	229	2.8	1.19	6	50	< 0.5	4	1.39	< 0.5	8	140	2230	2.25	< 10	< 1	0.49	30	0.67	105	238
564605	299	229	2.8	1.14	6	60	< 0.5	2	0.97	< 0.5	9	188	2390	2.25	< 10	< 1	0.51	30	0.49	90	226
564606	299	229	2.8	0.90	14	80	< 0.5	2	0.64	< 0.5	9	167	2870	2.20	< 10	< 1	0.39	30	0.37	145	326
564607	299	229	3.0	1.32	4	80	< 0.5	2	0.43	< 0.5	12	190	2890	2.56	< 10	< 1	0.44	30	0.35	155	367
564608	299	229	2.2	0.98	12	40	< 0.5	2	0.90	< 0.5	10	212	1840	3.19	< 10	< 1	0.43	20	0.43	240	170
564609	299	229	2.8	1.04	34	10	< 0.5	2	0.36	< 0.5	18	180	2130	5.16	< 10	< 1	0.52	20	0.15	75	335
564610	299	229	3.0	1.10	6	80	< 0.5	< 2	0.22	< 0.5	11	180	3290	2.08	< 10	< 1	0.44	30	0.23	50	446
564611	299	229	2.8	1.06	4	30	< 0.5	2	0.29	< 0.5	8	177	3070	3.28	< 10	< 1	0.47	20	0.21	55	371
564612	299	229	2.2	1.25	< 2	50	< 0.5	2	0.53	< 0.5	13	213	2260	2.37	< 10	< 1	0.52	30	0.30	130	260
564613	299	229	1.8	1.40	< 2	60	< 0.5	2	0.53	< 0.5	22	188	1850	2.74	< 10	< 1	0.60	20	0.31	155	266
564614	299	229	2.6	1.33	14	40	< 0.5	< 2	0.44	< 0.5	17	209	2080	3.29	< 10	< 1	0.55	20	0.26	75	244
564615	299	229	2.0	1.12	< 2	70	< 0.5	2	0.64	< 0.5	11	189	1585	2.47	< 10	< 1	0.48	30	0.34	155	555
564616	299	229	2.2	1.03	< 2	80	< 0.5	2	0.54	< 0.5	10	267	1690	2.25	< 10	< 1	0.46	20	0.33	160	283
564617	299	229	4.6	1.26	22	30	< 0.5	2	0.30	< 0.5	15	201	1825	3.78	< 10	< 1	0.55	10	0.15	35	378
564618	299	229	1.6	0.95	16	60	< 0.5	2	0.51	< 0.5	18	248	846	2.70	< 10	< 1	0.42	20	0.16	85	1335
564619	299	229	2.6	1.29	14	80	< 0.5	< 2	1.04	< 0.5	10	200	2280	2.17	< 10	< 1	0.45	30	0.44	270	436
564620	299	229	1.8	1.03	10	50	< 0.5	< 2	1.09	< 0.5	10	240	1955	2.37	< 10	< 1	0.38	30	0.38	265	273
564621	299	229	1.8	1.12	10	50	< 0.5	< 2	0.57	< 0.5	13	173	1740	2.11	< 10	< 1	0.46	20	0.20	70	726
564622	299	229	1.4	1.37	10	60	< 0.5	4	0.64	< 0.5	12	248	2230	2.52	< 10	< 1	0.54	30	0.26	95	596
564623	299	229	1.0	1.52	28	20	< 0.5	< 2	0.79	< 0.5	26	226	1770	4.80	< 10	< 1	0.50	20	0.14	35	788
564624	299	229	1.4	1.54	12	50	< 0.5	2	1.13	< 0.5	19	215	1915	2.48	< 10	< 1	0.48	30	0.26	85	451
564625	299	229	1.0	1.25	8	40	< 0.5	2	0.40	< 0.5	15	210	1270	2.64	< 10	< 1	0.55	20	0.12	15	468
564626	299	229	1.8	1.21	10	40	< 0.5	< 2	0.58	< 0.5	16	235	2060	2.78	< 10	< 1	0.51	20	0.22	50	383
564627	299	229	3.6	1.01	10	60	< 0.5	2	0.77	< 0.5	9	213	2860	2.85	< 10	< 1	0.44	40	0.35	160	448
564628	299	229	3.6	1.16	12	30	< 0.5	2	0.64	< 0.5	10	191	3170	3.45	< 10	< 1	0.54	20	0.39	140	418
564629	299	229	3.0	1.14	8	40	< 0.5	2	0.81	< 0.5	6	215	3580	2.59	< 10	< 1	0.46	30	0.45	150	358
564630	299	229	2.6	0.96	4	40	< 0.5	2	0.69	< 0.5	6	224	2160	2.89	< 10	< 1	0.38	20	0.35	125	601
564631	299	229	1.6	0.99	4	120	< 0.5	< 2	0.90	< 0.5	6	219	1515	1.79	< 10	< 1	0.34	30	0.47	170	360
564632	299	229	1.6	0.84	4	110	< 0.5	< 2	0.82	< 0.5	6	233	1430	1.66	< 10	< 1	0.29	30	0.38	175	763
564633	299	229	2.2	0.89	< 2	60	< 0.5	2	0.96	< 0.5	8	194	2470	2.49	< 10	< 1	0.32	20	0.40	220	255
564634	299	229	1.4	0.81	30	70	< 0.5	4	0.53	< 0.5	8	213	1735	2.47	< 10	< 1	0.41	20	0.34	110	399
564635	299	229	1.6	1.02	12	70	< 0.5	2	0.62	< 0.5	17	198	1610	2.29	< 10	1	0.46	30	0.26	90	437
564636	299	229	2.0	1.05	8	70	< 0.5	2	0.83	< 0.5	11	200	2360	2.29	< 10	< 1	0.44	30	0.51	180	238
564637	299	229	1.4	1.03	8	60	< 0.5	2	1.28	< 0.5	9	205	2100	2.79	< 10	< 1	0.35	30	0.54	335	184
564638	299	229	1.4	0.93	4	80	< 0.5	2	0.95	< 0.5	10	198	2030	2.69	< 10	< 1	0.34	20	0.45	195	263

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. :19317957
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564599	299	229	0.01	8	430	10	2	4	19	0.01	< 10	< 10	27	< 10	36
564600	299	229	0.01	6	390	8	2	4	16	0.03	< 10	< 10	35	< 10	36
564601	299	229	0.01	6	360	14	< 2	4	11	< 0.01	< 10	< 10	24	< 10	24
564602	299	229	0.01	6	400	8	2	4	15	0.01	< 10	< 10	29	< 10	26
564603	299	229	0.01	6	360	6	2	4	18	0.02	< 10	< 10	28	< 10	16
564604	299	229	0.02	7	340	12	< 2	4	24	0.02	< 10	< 10	28	< 10	26
564605	299	229	0.01	5	330	8	2	3	17	0.01	< 10	< 10	21	< 10	22
564606	299	229	0.01	5	320	8	2	3	10	< 0.01	< 10	< 10	18	< 10	30
564607	299	229	0.01	7	400	14	< 2	4	17	< 0.01	< 10	< 10	25	< 10	46
564608	299	229	0.01	6	320	22	2	2	14	< 0.01	< 10	< 10	15	< 10	40
564609	299	229	0.01	9	970	16	< 2	2	15	< 0.01	< 10	< 10	12	< 10	32
564610	299	229	0.01	6	380	2	2	3	20	< 0.01	< 10	< 10	18	< 10	24
564611	299	229	0.01	7	310	6	< 2	2	10	< 0.01	< 10	< 10	17	< 10	22
564612	299	229	0.01	7	420	6	2	4	17	< 0.01	< 10	< 10	24	< 10	28
564613	299	229	0.01	7	460	4	2	4	17	< 0.01	< 10	< 10	27	< 10	30
564614	299	229	0.01	8	540	18	< 2	4	21	< 0.01	< 10	< 10	26	< 10	36
564615	299	229	0.01	6	400	14	2	4	11	< 0.01	< 10	< 10	24	< 10	34
564616	299	229	0.01	6	390	14	< 2	4	12	< 0.01	< 10	< 10	23	< 10	38
564617	299	229	0.01	7	470	28	2	2	19	< 0.01	< 10	< 10	15	< 10	38
564618	299	229	0.01	7	530	8	4	2	16	< 0.01	< 10	< 10	10	< 10	22
564619	299	229	0.01	7	460	12	2	5	13	< 0.01	< 10	< 10	24	< 10	40
564620	299	229	0.01	7	510	4	2	4	13	< 0.01	< 10	< 10	19	< 10	32
564621	299	229	0.01	7	540	6	2	3	17	< 0.01	< 10	< 10	13	< 10	20
564622	299	229	0.01	7	480	8	2	3	27	< 0.01	< 10	< 10	15	< 10	22
564623	299	229	0.01	8	550	6	2	3	59	< 0.01	< 10	< 10	18	< 10	20
564624	299	229	0.01	10	800	8	2	5	61	< 0.01	< 10	< 10	32	< 10	18
564625	299	229	0.01	7	540	4	< 2	2	45	< 0.01	< 10	< 10	14	< 10	12
564626	299	229	0.01	7	500	8	< 2	3	55	< 0.01	< 10	< 10	18	< 10	16
564627	299	229	0.01	6	390	14	2	3	18	< 0.01	< 10	< 10	18	< 10	28
564628	299	229	0.01	8	340	32	2	3	18	< 0.01	< 10	< 10	20	< 10	44
564629	299	229	0.01	7	480	10	< 2	4	20	< 0.01	< 10	< 10	25	< 10	24
564630	299	229	0.01	6	380	10	2	4	27	< 0.01	< 10	< 10	18	< 10	22
564631	299	229	0.01	7	340	6	2	5	19	< 0.01	< 10	< 10	25	< 10	18
564632	299	229	0.01	6	380	4	2	4	20	< 0.01	< 10	< 10	21	< 10	20
564633	299	229	0.01	6	450	4	< 2	7	20	< 0.01	< 10	< 10	26	< 10	24
564634	299	229	0.01	6	370	6	2	3	14	< 0.01	< 10	< 10	19	< 10	16
564635	299	229	0.01	5	520	4	2	4	20	< 0.01	< 10	< 10	21	< 10	14
564636	299	229	0.01	6	410	8	2	6	20	0.01	< 10	< 10	27	< 10	20
564637	299	229	0.01	6	430	6	< 2	8	22	< 0.01	< 10	< 10	25	< 10	22
564638	299	229	0.01	5	440	8	< 2	4	21	< 0.01	< 10	< 10	19	< 10	22

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : 19317957
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564639	299	229	1.8	0.87	6	40	< 0.5	2	1.01	< 0.5	8	146	1900	3.28	< 10	< 1	0.42	20	0.56	175	377
564640	299	229	1.0	0.71	6	20	< 0.5	2	0.83	< 0.5	12	121	1510	4.27	< 10	< 1	0.33	10	0.36	190	262
564641	299	229	1.2	0.57	< 2	70	< 0.5	2	1.37	< 0.5	8	128	1440	2.99	< 10	< 1	0.22	20	0.52	330	321
564642	299	229	2.0	0.78	4	90	< 0.5	4	0.84	< 0.5	10	139	2060	2.52	< 10	< 1	0.36	20	0.44	130	642
564643	299	229	1.4	1.23	4	100	< 0.5	< 2	0.86	< 0.5	11	145	1905	2.23	< 10	< 1	0.42	20	0.70	125	154
564644	299	229	1.8	0.94	10	80	< 0.5	2	0.93	< 0.5	9	129	2060	2.47	< 10	< 1	0.49	20	0.66	115	178
564645	299	229	6.4	0.50	102	< 10	< 0.5	20	0.29	< 0.5	9	103	492	12.75	< 10	< 1	0.28	10	0.12	20	137
564646	299	229	0.8	0.74	8	30	< 0.5	< 2	0.47	< 0.5	8	132	1330	3.99	< 10	< 1	0.38	20	0.34	65	335
564647	299	229	1.2	0.98	8	40	< 0.5	< 2	0.85	< 0.5	14	145	2130	3.25	< 10	< 1	0.42	30	0.65	130	207
564648	299	229	0.8	0.87	6	110	< 0.5	< 2	0.86	< 0.5	10	132	1485	1.77	< 10	< 1	0.39	20	0.62	100	220
564649	299	229	1.4	1.20	4	150	< 0.5	< 2	0.45	< 0.5	11	146	2060	1.73	< 10	< 1	0.41	30	0.53	65	363
564650	299	229	1.2	1.24	6	150	< 0.5	< 2	0.55	< 0.5	11	133	1705	1.81	< 10	< 1	0.48	30	0.61	75	492
564651	299	229	1.0	1.40	2	190	< 0.5	< 2	1.01	< 0.5	13	120	1115	1.89	< 10	< 1	0.52	30	0.82	135	342
564652	299	229	0.6	1.32	6	80	< 0.5	< 2	1.34	< 0.5	12	93	1075	2.05	< 10	< 1	0.54	30	1.01	115	183
564653	299	229	0.4	1.06	6	40	< 0.5	< 2	1.72	< 0.5	13	178	794	3.17	< 10	< 1	0.53	40	0.44	225	959
564654	299	229	0.4	1.08	8	80	< 0.5	< 2	2.40	< 0.5	6	154	705	1.45	< 10	< 1	0.57	40	0.80	95	370

CERTIFICATION: David Bundle

Chemex Labs Ltd.

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 175
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-AUG-93
Invoice No. : I9317957
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317957

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564639	299	229	0.01	8	460	14	< 2	3	17	< 0.01	< 10	< 10	15	< 10	26
564640	299	229	0.01	5	460	8	< 2	3	14	< 0.01	< 10	< 10	15	< 10	24
564641	299	229	0.01	4	380	4	< 2	5	18	< 0.01	< 10	< 10	22	< 10	24
564642	299	229	0.01	4	440	12	2	3	21	< 0.01	< 10	< 10	17	< 10	22
564643	299	229	0.01	4	500	8	< 2	4	33	0.01	< 10	< 10	26	< 10	18
564644	299	229	0.01	4	420	14	< 2	3	21	< 0.01	< 10	< 10	19	< 10	28
564645	299	229	< 0.01	4	280	46	6	1	6	< 0.01	< 10	< 10	5	< 10	76
564646	299	229	0.01	4	370	10	< 2	2	16	< 0.01	< 10	< 10	13	< 10	14
564647	299	229	0.01	5	450	8	< 2	3	38	< 0.01	< 10	< 10	20	10	16
564648	299	229	0.02	3	340	4	< 2	4	36	0.01	< 10	< 10	24	< 10	14
564649	299	229	0.01	6	480	8	< 2	8	25	0.02	< 10	< 10	41	< 10	18
564650	299	229	0.01	7	510	8	< 2	6	26	0.03	< 10	< 10	35	< 10	14
564651	299	229	0.01	9	570	6	< 2	6	36	0.04	< 10	< 10	34	< 10	14
564652	299	229	0.03	10	530	8	< 2	4	113	0.04	< 10	< 10	30	< 10	16
564653	299	229	0.01	5	350	6	2	3	35	0.01	< 10	< 10	20	130	12
564654	299	229	0.04	4	350	6	2	6	146	0.06	< 10	< 10	41	< 10	16

CERTIFICATION:

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

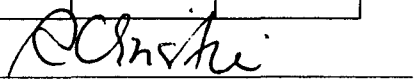
Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :4
Certificate Date: 05-AUG-93
Invoice No. :I9318116
P.O. Number :
Account :FC

** Corrected Copy

CERTIFICATE OF ANALYSIS A9318116

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573482 H	--	--	miss.	miss.	miss.	miss.						
573483 H	208	274	0.10	0.016	0.17	3840						
573484 H	208	276	0.10	0.005	0.14	7460						
573485 H	208	274	0.08	0.004	0.14	6960						
573486 H	208	274	0.06	0.003	0.17	5500						
573487 H	208	274	0.04	0.002	0.21	6740						
573488 H	208	276	0.04	0.003	0.41	9780						
573489 H	208	276	0.04	0.004	0.24	7560						
573490 H	208	276	0.04	0.002	0.07	7340						
573491 H	208	273	0.05	0.004	0.14	12260						
573492 H	208	276	0.12	0.014	0.14	9480						
573493 H	208	273	0.12	0.004	0.17	11900						
573494 H	208	276	0.70	0.030	0.45	9980						
573495 H	208	276	0.57	0.011	0.45	8920						
573496 H	208	276	0.62	0.010	0.41	10600						
573497 H	208	273	0.33	0.011	0.38	13060						
573498 H	208	273	0.39	0.013	0.27	12480						
573499 H	208	276	0.37	0.019	0.34	9160						
573500 H	208	273	0.37	0.014	0.27	13040						
573501 H	208	276	0.40	0.018	0.24	7680						
573502 H	208	276	0.27	0.010	0.24	9280						
573503 H	208	276	0.22	0.009	0.21	8180						
573504 H	208	276	0.30	0.009	0.24	10040						
573505 H	208	276	0.30	0.009	0.24	10300						
573506 H	208	276	0.20	0.006	0.21	10860						
573507 H	208	276	0.13	0.007	0.21	11600						
573508 H	208	276	0.08	0.004	0.07	10920						
573509 H	208	276	0.10	0.004	0.14	9620						
573510 H	208	273	0.09	0.004	0.07	12480						
573511 H	208	276	0.21	0.017	0.21	10760						
573512 H	208	276	0.33	0.006	0.31	9780						
573513 H	208	276	0.46	0.005	0.41	10920						
573514 H	208	276	0.33	0.006	0.24	10740						
573515 H	208	274	0.28	0.006	0.55	5100						
573516 H	208	276	0.30	0.016	0.27	7920						
573517 H	208	276	0.13	0.009	0.17	11240						
573518 H	208	276	0.15	0.007	0.14	8360						
573519 H	208	273	0.17	0.007	0.17	11860						
573520 H	208	276	0.16	0.006	0.21	10280						
573521 H	208	274	0.09	0.003	0.10	6660						

CERTIFICATION: 

** Sample 573611 H , MoS2 value edited

Chemex Labs Ltd.

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page [illegible]er :2
Total Pages :4
Certificate Date: 05-AUG-93
Invoice No. :I9318116
P.O. Number :
Account :FC

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CERTIFICATE OF ANALYSIS A9318116

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
573522 H	208 273	0.22	0.005	0.14	12180
573523 H	208 273	0.25	0.009	0.24	12160
573524 H	208 276	0.20	0.012	0.17	11440
573525 H	208 276	0.12	0.022	0.14	11660
573526 H	208 273	0.28	0.009	0.34	12220
573527 H	208 276	0.13	0.010	0.14	11420
573528 H	208 276	0.16	0.010	0.14	11200
573529 H	208 276	0.19	0.011	0.24	11560
573530 H	208 276	0.21	0.010	0.24	11280
573531 H	208 276	0.31	0.030	0.31	10380
573532 H	208 276	0.18	0.024	0.21	11400
573533 H	208 273	0.17	0.005	0.21	12200
573534 H	208 276	0.18	0.003	0.27	9280
573535 H	208 276	0.12	0.003	0.14	10440
573536 H	208 276	0.22	0.013	0.24	8680
573537 H	208 273	0.35	0.015	0.21	14600
573538 H	208 273	0.28	0.007	0.27	11920
573539 H	208 276	0.35	0.013	0.31	11360
573540 H	208 273	0.29	0.010	0.27	12440
573541 H	208 276	0.65	0.038	0.55	11080
573542 H	208 273	0.57	0.028	0.62	12080
573543 H	208 273	0.43	0.006	0.45	12080
573544 H	208 276	0.26	0.044	0.62	11320
573545 H	208 273	0.23	0.021	0.31	12260
573546 H	208 276	0.11	0.003	0.10	11440
573547 H	208 276	0.15	0.012	0.14	11600
573548 H	208 273	0.13	0.046	0.17	11960
573549 H	208 273	0.37	0.018	0.48	11860
573550 H	208 273	0.21	0.012	0.24	12140
573551 H	208 273	0.38	0.010	0.34	11820
573552 H	208 276	0.26	0.019	0.31	11780
573553 H	208 273	0.29	0.019	0.27	12260
573554 H	208 276	0.24	0.020	0.24	11780
573555 H	208 276	0.21	0.020	0.21	11420
573556 H	208 276	0.21	0.046	0.21	11620
573557 H	208 273	0.22	0.042	0.21	12100
573558 H	208 273	0.32	0.027	0.31	11980
573559 H	208 276	0.28	0.080	0.38	11460
573560 H	208 276	0.30	0.042	0.34	11220
573561 H	208 274	0.29	0.029	0.48	4600

CERTIFICATION: [signature]

** Sample 573611 H , MoS2 value edited

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. :I9318116
P.O. Number :
Account :FC

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CERTIFICATE OF ANALYSIS A9318116

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573562 H	208	274	0.26	0.051	0.34	3700						
573563 H	208	274	0.23	0.118	0.27	6500						
573564 H	208	274	0.25	0.028	0.38	7100						
573565 H	208	274	0.21	0.026	0.31	6420						
573566 H	208	274	0.12	0.034	0.14	5960						
573567 H	208	274	0.31	0.050	0.72	6520						
573568 H	208	274	0.49	0.050	0.55	6580						
573569 H	208	274	0.60	0.051	0.65	6920						
573570 H	208	274	0.55	0.026	0.72	6280						
573571 H	208	276	0.35	0.046	0.51	7540						
573572 H	208	276	0.29	0.021	0.38	7820						
573573 H	208	276	0.27	0.019	0.55	8080						
573574 H	208	276	0.34	0.051	0.51	7940						
573575 H	208	276	0.29	0.024	0.55	7720						
573576 H	208	276	0.33	0.018	0.48	7580						
573577 H	208	276	0.33	0.035	0.65	8080						
573578 H	208	276	0.44	0.018	0.93	7680						
573579 H	208	276	0.29	0.022	0.34	7780						
573580 H	208	276	0.24	0.020	0.31	8140						
573581 H	208	276	0.19	0.029	0.27	7500						
573582 H	208	276	0.19	0.039	0.27	7440						
573583 H	208	276	0.33	0.043	0.58	7400						
573584 H	208	276	0.28	0.039	0.51	7500						
573585 H	208	274	0.25	0.048	0.48	6680						
573586 H	208	274	0.31	0.014	0.31	6620						
573587 H	208	274	0.55	0.074	0.79	6500						
573588 H	208	274	0.16	0.136	1.20	7220						
573589 H	208	274	0.29	0.068	0.38	7020						
573590 H	208	274	0.23	0.097	0.27	6680						
573591 H	208	274	0.42	0.080	0.31	6640						
573592 H	208	274	0.32	0.020	0.48	6160						
573593 H	208	274	0.19	0.028	0.21	6260						
573594 H	208	274	0.11	0.026	0.17	6440						
573595 H	208	274	0.06	0.006	0.14	4160						
573596 H	208	274	0.09	0.003	0.17	3800						
573597 H	208	274	0.11	0.003	0.17	3320						
573598 H	208	274	0.11	0.014	0.14	6080						
573599 H	208	274	0.05	0.011	0.10	6940						
573600 H	208	274	0.07	0.014	0.10	7080						
573601 H	208	276	0.11	0.011	0.10	7560						

CERTIFICATION: _____

** Sample 573611 H , MoS2 value edited

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-AUG-93
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Account : FC

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CERTIFICATE OF ANALYSIS A9318116

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
573602 H	208 274	0.05	0.022	0.07	7220
573603 H	208 276	0.11	0.007	0.10	8080
573604 H	208 274	0.09	0.002	0.10	6460
573605 H	208 276	0.10	0.004	0.10	7400
573606 H	208 276	0.16	0.004	0.21	7280
573607 H	208 274	0.12	0.006	0.14	6440
573608 H	208 276	0.14	0.005	0.21	7360
573609 H	208 276	0.11	0.002	0.24	7800
573610 H	208 276	0.07	0.008	0.10	7520
573611 H	208 274	0.01	0.028	< 0.03	7160
573612 H	208 274	0.02	0.046	0.24	7020
573613 H	208 276	0.03	0.086	0.10	7560
573614 H	208 274	0.08	0.008	0.14	7080
573615 H	208 276	0.10	0.030	0.14	7720
573616 H	208 276	0.24	0.020	0.34	7740
573617 H	208 276	0.11	0.037	0.10	7480
573618 H	208 276	0.09	0.028	0.10	7460
573619 H	208 274	0.07	0.025	0.07	6560
573620 H	208 274	0.14	0.032	0.17	6860
573621 H	208 274	0.10	0.022	0.14	6680
573622 H	208 274	0.09	0.056	0.10	6800
573623 H	208 274	0.09	0.022	0.10	7100
573624 H	208 274	0.07	0.043	0.10	7180
573625 H	208 274	0.06	0.016	0.10	7220
573626 H	208 274	0.08	0.014	0.14	6780
573627 H	208 276	0.06	0.024	0.14	7420
573628 H	208 274	0.07	0.009	0.07	7120
573629 H	208 274	0.10	0.017	0.14	5820
573630 H	208 274	0.09	0.008	0.14	7220
573631 H	208 274	0.07	0.017	0.10	7220
573632 H	208 276	0.14	0.044	0.14	7860
573633 H	208 276	0.09	0.015	0.10	7720
573634 H	208 274	0.08	0.022	0.07	7060
573635 H	208 276	0.07	0.015	0.10	7940
573636 H	208 276	0.07	0.018	0.14	7300
573637 H	208 274	0.07	0.034	0.07	7220

CERTIFICATION:

** Sample 573611 H , MoS2 value edited

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Y1A 3S9

Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. : I9318117
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318117

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573482 H	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
573483 H	299	229	2.0	2.30	32	720	< 0.5	< 2	0.16	< 0.5	22	63	884	2.20	< 10	< 1	0.41	30	0.37	610	90
573484 H	299	229	0.4	3.17	14	310	< 0.5	< 2	0.34	< 0.5	31	86	941	2.59	10	< 1	0.38	20	1.02	700	29
573485 H	299	229	0.2	2.97	8	270	< 0.5	< 2	0.36	< 0.5	21	65	718	3.04	10	< 1	0.44	20	1.25	600	22
573486 H	299	229	1.2	2.72	6	220	< 0.5	2	0.34	< 0.5	12	78	537	3.44	10	< 1	0.48	20	1.33	315	26
573487 H	299	229	0.6	2.74	< 2	200	< 0.5	2	0.48	0.5	10	64	357	3.53	10	< 1	0.52	20	1.43	185	16
573488 H	299	229	1.4	2.68	< 2	280	< 0.5	< 2	0.48	0.5	8	77	397	3.22	10	< 1	0.75	20	1.52	175	15
573489 H	299	229	2.2	2.35	2	260	< 0.5	< 2	0.36	< 0.5	8	60	408	2.62	10	< 1	0.56	30	1.24	125	27
573490 H	299	229	0.8	2.60	2	240	< 0.5	< 2	0.41	< 0.5	8	70	342	3.72	< 10	< 1	0.65	10	1.60	190	13
573491 H	299	229	0.6	2.69	< 2	320	< 0.5	< 2	0.41	0.5	7	46	522	3.35	10	< 1	0.44	10	1.56	220	24
573492 H	299	229	3.2	2.28	32	310	< 0.5	< 2	0.28	1.5	3	68	1090	2.60	< 10	< 1	0.55	10	1.14	110	83
573493 H	299	229	1.6	2.01	4	360	< 0.5	< 2	0.30	< 0.5	8	50	1090	2.62	< 10	< 1	0.47	10	1.04	90	21
573494 H	299	229	7.4	1.80	54	100	< 0.5	4	0.31	0.5	16	77	6570	2.89	10	< 1	0.51	20	0.64	65	186
573495 H	299	229	7.8	1.00	656	60	< 0.5	6	0.39	2.0	17	44	6170	3.42	< 10	< 1	0.32	30	0.13	35	69
573496 H	299	229	7.8	1.36	542	60	< 0.5	2	0.41	21.5	18	69	6450	2.79	10	< 1	0.41	60	0.16	60	61
573497 H	299	229	5.6	1.29	916	60	< 0.5	< 2	0.35	3.0	15	52	3430	3.05	< 10	< 1	0.48	30	0.38	70	72
573498 H	299	229	1.4	2.17	12	240	< 0.5	6	0.33	< 0.5	16	68	3840	2.97	< 10	< 1	0.58	10	1.20	165	80
573499 H	299	229	1.2	2.03	2	160	< 0.5	< 2	0.28	0.5	16	47	3700	3.01	< 10	< 1	0.67	20	1.43	140	119
573500 H	299	229	1.2	2.27	< 2	200	< 0.5	< 2	0.38	0.5	13	66	3340	3.14	10	< 1	0.73	20	1.53	110	84
573501 H	299	229	1.0	2.11	< 2	120	< 0.5	2	0.41	0.5	13	40	3710	2.98	< 10	< 1	0.73	20	1.57	160	105
573502 H	299	229	1.0	2.65	< 2	230	< 0.5	4	0.52	1.0	14	56	2540	3.20	10	< 1	0.70	20	1.63	140	63
573503 H	299	229	1.0	2.78	< 2	190	< 0.5	< 2	0.54	3.0	20	55	2170	3.47	10	< 1	0.64	20	1.68	135	65
573504 H	299	229	1.2	2.13	14	200	< 0.5	4	0.36	1.0	17	81	2720	3.20	< 10	< 1	0.42	10	1.33	105	56
573505 H	299	229	1.4	1.89	4	230	< 0.5	< 2	0.30	3.5	18	66	2730	2.59	< 10	< 1	0.76	10	1.21	95	57
573506 H	299	229	0.8	2.13	< 2	300	< 0.5	< 2	0.35	1.0	14	59	1790	3.25	< 10	< 1	0.98	10	1.62	115	37
573507 H	299	229	0.6	0.78	4	210	< 0.5	4	1.01	< 0.5	10	66	1200	1.34	< 10	< 1	0.29	10	0.41	120	45
573508 H	299	229	0.6	0.60	2	230	< 0.5	6	0.90	< 0.5	8	110	781	1.00	< 10	< 1	0.35	10	0.08	100	31
573509 H	299	229	0.4	0.40	8	300	< 0.5	6	1.06	< 0.5	6	82	921	0.73	< 10	< 1	0.22	20	0.07	120	34
573510 H	299	229	0.4	0.73	2	330	< 0.5	< 2	0.98	0.5	7	133	916	0.83	< 10	< 1	0.35	20	0.08	130	31
573511 H	299	229	0.8	0.53	12	250	< 0.5	< 2	1.04	< 0.5	8	91	1920	1.02	< 10	< 1	0.25	20	0.16	120	109
573512 H	299	229	1.8	2.70	10	190	< 0.5	< 2	0.84	< 0.5	34	94	3030	4.52	< 10	< 1	1.24	10	2.07	195	30
573513 H	299	229	2.0	3.19	10	120	< 0.5	< 2	0.76	< 0.5	32	114	4070	4.51	10	< 1	1.67	10	2.58	160	23
573514 H	299	229	2.6	3.19	14	140	< 0.5	4	1.99	1.0	27	85	2860	4.33	10	< 1	0.95	10	2.03	370	31
573515 H	299	229	9.4	2.74	122	180	< 0.5	< 2	2.46	1.5	19	58	2550	3.49	< 10	< 1	1.29	10	1.80	1445	32
573516 H	299	229	3.8	4.12	< 2	170	< 0.5	6	2.42	1.5	17	77	2820	3.64	10	< 1	1.29	10	1.66	360	82
573517 H	299	229	0.4	1.08	12	360	< 0.5	< 2	0.70	< 0.5	9	79	1200	1.37	< 10	< 1	0.46	20	0.57	85	55
573518 H	299	229	0.6	1.81	8	210	< 0.5	< 2	0.70	< 0.5	9	94	1360	2.31	< 10	< 1	0.65	10	1.29	110	39
573519 H	299	229	0.8	1.65	< 2	180	< 0.5	6	0.89	1.0	13	77	1515	2.53	< 10	< 1	0.66	10	1.21	135	40
573520 H	299	229	0.6	1.77	2	280	< 0.5	2	0.84	< 0.5	15	94	1485	2.23	< 10	< 1	0.68	10	1.32	120	34
573521 H	299	229	0.4	2.71	< 2	540	< 0.5	< 2	1.00	< 0.5	13	80	827	3.52	< 10	< 1	1.29	10	2.01	175	19

CERTIFICATION: Jan H Bichler

Chemex Labs Ltd.

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Page er :1-B
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573482 H	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
573483 H	299	229	0.03	2	440	84	6	4	45	0.02	< 10	< 10	36	< 10	50
573484 H	299	229	0.06	4	520	10	2	9	31	0.10	< 10	< 10	72	< 10	54
573485 H	299	229	0.06	3	630	12	< 2	10	26	0.11	< 10	< 10	89	10	58
573486 H	299	229	0.07	3	760	30	< 2	9	23	0.08	< 10	< 10	92	< 10	62
573487 H	299	229	0.07	4	800	12	2	11	20	0.20	< 10	< 10	109	10	48
573488 H	299	229	0.08	4	820	< 2	< 2	13	21	0.24	< 10	< 10	114	< 10	48
573489 H	299	229	0.05	3	750	14	< 2	9	18	0.09	< 10	< 10	79	< 10	38
573490 H	299	229	0.08	3	860	< 2	< 2	12	19	0.17	< 10	< 10	113	10	52
573491 H	299	229	0.04	4	840	8	< 2	10	23	0.07	< 10	< 10	97	< 10	74
573492 H	299	229	0.06	3	720	160	14	9	20	0.06	< 10	< 10	80	< 10	216
573493 H	299	229	0.04	3	670	32	2	9	19	0.05	< 10	< 10	79	< 10	50
573494 H	299	229	0.03	5	850	144	6	7	25	0.01	< 10	< 10	63	< 10	132
573495 H	299	229	0.01	5	960	132	40	7	12	< 0.01	< 10	< 10	36	< 10	294
573496 H	299	229	0.01	6	980	138	30	6	19	< 0.01	< 10	< 10	39	10	2080
573497 H	299	229	0.01	7	860	60	46	6	18	0.01	< 10	< 10	43	< 10	278
573498 H	299	229	0.05	3	870	20	< 2	8	19	0.06	< 10	< 10	83	< 10	58
573499 H	299	229	0.06	3	850	10	2	9	15	0.08	< 10	< 10	98	< 10	54
573500 H	299	229	0.07	4	880	12	< 2	10	18	0.11	< 10	< 10	103	< 10	46
573501 H	299	229	0.06	3	840	8	< 2	11	15	0.15	< 10	< 10	106	10	52
573502 H	299	229	0.06	3	940	12	< 2	11	21	0.11	< 10	< 10	106	< 10	72
573503 H	299	229	0.04	4	730	8	< 2	12	24	0.08	< 10	< 10	108	10	82
573504 H	299	229	0.08	2	600	26	< 2	10	28	0.07	< 10	< 10	89	< 10	56
573505 H	299	229	0.07	4	560	20	< 2	12	26	0.12	< 10	< 10	98	< 10	84
573506 H	299	229	0.11	4	640	4	2	14	22	0.19	< 10	< 10	124	< 10	46
573507 H	299	229	0.05	3	240	8	< 2	3	21	0.01	< 10	< 10	23	< 10	28
573508 H	299	229	0.04	2	140	32	< 2	< 1	26	< 0.01	< 10	< 10	3	< 10	28
573509 H	299	229	0.04	2	140	18	2	< 1	28	< 0.01	< 10	< 10	2	< 10	42
573510 H	299	229	0.04	2	110	16	< 2	< 1	31	< 0.01	< 10	< 10	2	< 10	46
573511 H	299	229	0.04	2	130	8	2	1	22	< 0.01	< 10	< 10	9	< 10	20
573512 H	299	229	0.14	11	560	6	< 2	20	32	0.18	< 10	< 10	134	10	52
573513 H	299	229	0.15	19	860	< 2	< 2	23	36	0.30	< 10	< 10	167	10	52
573514 H	299	229	0.07	11	730	90	< 2	15	38	0.13	< 10	< 10	120	10	134
573515 H	299	229	0.04	8	830	84	16	18	39	0.18	< 10	< 10	131	10	118
573516 H	299	229	0.23	8	880	70	6	19	90	0.16	< 10	< 10	144	10	94
573517 H	299	229	0.06	4	240	4	< 2	3	25	0.03	< 10	< 10	32	< 10	26
573518 H	299	229	0.12	4	500	4	< 2	10	26	0.12	< 10	< 10	85	< 10	26
573519 H	299	229	0.06	4	580	30	< 2	8	22	0.09	< 10	< 10	72	< 10	98
573520 H	299	229	0.09	5	500	6	2	9	23	0.09	< 10	< 10	81	< 10	24
573521 H	299	229	0.19	5	720	< 2	< 2	15	54	0.27	< 10	< 10	144	< 10	30

CERTIFICATION: Stuart Buchan

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573522 H	299	229	13.0	2.69	10	60	< 0.5	22	2.87	< 0.5	15	92	2210	4.33	< 10	< 1	0.90	10	1.77	360	22
573523 H	299	229	1.6	2.33	8	200	< 0.5	< 2	1.90	0.5	19	42	2620	3.44	< 10	< 1	0.99	10	1.78	240	46
573524 H	299	229	1.0	1.78	4	160	< 0.5	< 2	1.92	0.5	13	151	1985	2.61	< 10	< 1	0.80	10	1.39	235	64
573525 H	299	229	0.4	1.90	12	160	< 0.5	< 2	2.63	< 0.5	14	128	1255	2.71	< 10	< 1	0.92	10	1.51	170	118
573526 H	299	229	9.0	2.57	24	160	0.5	72	2.70	0.5	28	76	2770	5.53	< 10	< 1	1.21	10	1.99	545	45
573527 H	299	229	0.4	2.68	18	220	< 0.5	< 2	3.05	1.0	15	108	1225	3.57	< 10	< 1	1.13	< 10	1.89	245	47
573528 H	299	229	0.4	2.12	14	170	0.5	< 2	1.81	< 0.5	20	110	1620	3.46	< 10	< 1	0.62	10	1.19	200	49
573529 H	299	229	0.6	2.03	34	240	0.5	< 2	1.63	< 0.5	18	117	1965	3.25	< 10	< 1	0.75	20	0.90	260	60
573530 H	299	229	1.2	1.53	20	110	< 0.5	< 2	2.53	6.5	13	132	2070	2.71	< 10	< 1	0.43	10	0.72	270	50
573531 H	299	229	1.2	3.00	12	310	0.5	< 2	1.97	< 0.5	26	86	3260	4.56	< 10	< 1	1.42	10	2.20	225	194
573532 H	299	229	0.8	3.05	4	80	< 0.5	< 2	2.53	< 0.5	17	105	1720	3.85	< 10	< 1	1.50	< 10	2.21	190	132
573533 H	299	229	1.2	2.90	8	70	< 0.5	< 2	2.79	< 0.5	14	93	1665	4.01	< 10	< 1	1.17	< 10	2.02	250	29
573534 H	299	229	2.6	2.59	8	130	0.5	< 2	2.73	0.5	14	131	1875	3.89	< 10	< 1	0.97	10	1.71	275	20
573535 H	299	229	0.4	2.10	< 2	390	< 0.5	< 2	1.77	< 0.5	11	127	1230	3.58	< 10	< 1	0.84	20	1.57	215	21
573536 H	299	229	1.8	1.54	2	250	< 0.5	2	2.13	< 0.5	12	114	2310	1.95	< 10	< 1	0.40	10	0.94	235	75
573537 H	299	229	1.8	3.13	14	80	0.5	< 2	2.94	< 0.5	24	81	3600	4.50	10	< 1	1.00	10	2.23	460	79
573538 H	299	229	1.4	2.54	30	180	0.5	< 2	2.15	< 0.5	15	88	2760	3.65	10	< 1	1.03	10	1.51	250	44
573539 H	299	229	46.0	2.25	518	120	0.5	4	4.20	4.5	15	86	3810	2.79	< 10	< 1	0.69	< 10	1.01	370	76
573540 H	299	229	1.4	2.96	14	250	0.5	< 2	2.22	< 0.5	16	90	2790	3.05	10	< 1	0.80	20	1.67	245	51
573541 H	299	229	2.0	3.17	6	230	0.5	< 2	3.80	< 0.5	13	74	6820	2.96	< 10	< 1	1.21	< 10	2.19	265	200
573542 H	299	229	1.4	3.61	4	220	0.5	< 2	3.51	< 0.5	14	50	5780	3.10	10	< 1	1.55	< 10	2.46	210	137
573543 H	299	229	1.6	3.11	4	80	< 0.5	< 2	3.22	1.5	13	58	4360	3.03	< 10	< 1	1.49	< 10	2.33	160	33
573544 H	299	229	0.4	3.05	< 2	140	< 0.5	< 2	3.57	< 0.5	13	62	2530	3.22	< 10	< 1	1.79	< 10	2.28	155	223
573545 H	299	229	0.6	1.85	6	130	< 0.5	< 2	2.61	< 0.5	13	56	1715	2.28	< 10	< 1	1.03	10	1.60	120	94
573546 H	299	229	0.4	1.71	14	160	< 0.5	< 2	2.35	< 0.5	9	100	1025	2.12	10	< 1	0.79	20	1.51	105	15
573547 H	299	229	0.6	3.70	< 2	320	0.5	< 2	2.77	0.5	13	53	1535	4.32	10	< 1	1.92	10	2.51	175	65
573548 H	299	229	0.2	2.97	4	170	0.5	< 2	2.63	< 0.5	12	68	1310	3.95	10	< 1	1.41	10	2.18	190	253
573549 H	299	229	1.6	2.16	12	60	0.5	< 2	3.55	< 0.5	17	85	3930	2.85	< 10	< 1	1.11	10	1.98	125	102
573550 H	299	229	0.4	2.39	4	70	0.5	< 2	3.44	< 0.5	13	106	2200	3.02	10	< 1	1.21	10	1.89	120	69
573551 H	299	229	2.0	1.80	8	100	0.5	< 2	3.75	0.5	12	81	3920	2.63	< 10	< 1	0.79	10	1.30	185	55
573552 H	299	229	0.6	1.85	2	100	0.5	< 2	3.24	< 0.5	10	115	2560	2.56	< 10	< 1	0.87	10	1.46	140	106
573553 H	299	229	0.8	1.64	6	80	0.5	< 2	3.26	< 0.5	12	128	2880	2.01	< 10	< 1	0.81	10	1.33	105	110
573554 H	299	229	0.6	1.53	4	200	0.5	< 2	2.68	< 0.5	7	111	2280	1.83	< 10	< 1	0.73	10	1.23	135	115
573555 H	299	229	0.8	1.24	< 2	280	0.5	< 2	3.26	< 0.5	7	121	2200	1.63	< 10	< 1	0.43	10	0.74	230	125
573556 H	299	229	0.6	1.30	12	270	0.5	< 2	2.88	< 0.5	6	89	2180	1.43	< 10	< 1	0.54	10	0.77	185	260
573557 H	299	229	0.6	0.89	10	180	0.5	< 2	2.63	< 0.5	12	153	2260	1.16	< 10	< 1	0.42	10	0.50	100	244
573558 H	299	229	0.8	0.95	2	90	< 0.5	< 2	3.40	< 0.5	9	117	3360	1.39	< 10	< 1	0.45	10	0.77	100	147
573559 H	299	229	0.8	1.28	< 2	110	0.5	< 2	3.73	< 0.5	11	128	3100	1.91	< 10	< 1	0.44	10	0.96	160	472
573560 H	299	229	1.2	1.31	< 2	140	0.5	< 2	3.16	< 0.5	11	116	2880	1.83	< 10	< 1	0.52	10	0.99	150	233
573561 H	299	229	1.2	1.09	< 2	120	< 0.5	< 2	2.38	< 0.5	9	113	2680	1.85	< 10	< 1	0.35	10	0.88	130	156

CERTIFICATION: Ian Bucklen

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. :I9318117
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318117

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573522 H	299	229	0.14	6	810	34	< 2	14	76	0.18	< 10	< 10	122	< 10	64
573523 H	299	229	0.09	6	700	30	< 2	15	68	0.19	< 10	< 10	122	< 10	72
573524 H	299	229	0.08	6	580	18	< 2	14	87	0.16	< 10	< 10	99	< 10	84
573525 H	299	229	0.08	6	540	6	2	14	70	0.19	< 10	< 10	106	< 10	36
573526 H	299	229	0.10	11	630	58	< 2	18	68	0.15	< 10	< 10	135	< 10	132
573527 H	299	229	0.11	7	590	20	< 2	17	110	0.16	< 10	< 10	132	< 10	108
573528 H	299	229	0.06	6	650	6	4	14	136	0.09	< 10	< 10	112	< 10	34
573529 H	299	229	0.02	8	960	18	2	19	97	0.14	< 10	< 10	109	< 10	48
573530 H	299	229	0.03	6	610	108	2	9	129	0.06	< 10	< 10	65	< 10	808
573531 H	299	229	0.09	10	830	8	< 2	23	73	0.23	< 10	< 10	188	< 10	46
573532 H	299	229	0.18	7	760	8	2	21	87	0.30	< 10	< 10	180	< 10	42
573533 H	299	229	0.18	7	770	8	< 2	17	103	0.22	< 10	< 10	153	< 10	54
573534 H	299	229	0.11	7	740	12	< 2	15	109	0.16	< 10	< 10	129	< 10	88
573535 H	299	229	0.08	6	690	6	< 2	15	96	0.16	< 10	< 10	120	< 10	36
573536 H	299	229	0.04	4	530	18	2	6	94	0.03	< 10	< 10	58	< 10	44
573537 H	299	229	0.10	10	910	14	< 2	20	89	0.15	< 10	< 10	169	< 10	68
573538 H	299	229	0.06	6	830	14	4	17	132	0.15	< 10	< 10	122	< 10	52
573539 H	299	229	0.03	6	930	178	104	12	135	0.07	< 10	< 10	88	< 10	198
573540 H	299	229	0.07	6	960	12	4	14	142	0.09	< 10	< 10	113	< 10	38
573541 H	299	229	0.10	11	1070	18	2	16	178	0.12	< 10	< 10	137	< 10	38
573542 H	299	229	0.22	10	980	6	< 2	20	137	0.24	< 10	< 10	175	< 10	40
573543 H	299	229	0.18	10	1170	56	< 2	19	116	0.23	< 10	< 10	156	< 10	130
573544 H	299	229	0.16	9	930	6	< 2	21	138	0.28	< 10	< 10	171	< 10	32
573545 H	299	229	0.08	9	710	6	< 2	12	97	0.17	< 10	< 10	106	< 10	28
573546 H	299	229	0.08	11	800	8	< 2	9	89	0.13	< 10	< 10	79	< 10	34
573547 H	299	229	0.20	9	1310	22	< 2	21	134	0.30	< 10	< 10	179	< 10	56
573548 H	299	229	0.17	9	1060	8	< 2	19	142	0.23	< 10	< 10	156	< 10	44
573549 H	299	229	0.07	13	850	22	< 2	16	111	0.16	< 10	< 10	128	< 10	50
573550 H	299	229	0.07	11	860	4	< 2	15	118	0.18	< 10	< 10	126	< 10	32
573551 H	299	229	0.06	10	920	8	< 2	11	144	0.10	< 10	< 10	91	< 10	46
573552 H	299	229	0.06	11	850	4	2	11	130	0.12	< 10	< 10	96	< 10	30
573553 H	299	229	0.04	11	650	6	< 2	10	129	0.09	< 10	< 10	74	< 10	22
573554 H	299	229	0.04	8	640	6	2	14	130	0.09	< 10	< 10	76	< 10	28
573555 H	299	229	0.03	7	540	16	2	6	158	0.03	< 10	< 10	46	< 10	32
573556 H	299	229	0.04	6	830	10	< 2	7	149	0.05	< 10	< 10	46	< 10	22
573557 H	299	229	0.02	8	390	6	2	3	163	0.01	< 10	< 10	25	< 10	22
573558 H	299	229	0.03	7	410	10	< 2	5	169	0.04	< 10	< 10	37	< 10	22
573559 H	299	229	0.03	10	600	8	< 2	6	264	0.03	< 10	< 10	45	< 10	30
573560 H	299	229	0.03	9	570	8	< 2	7	157	0.06	< 10	< 10	48	< 10	34
573561 H	299	229	0.03	9	480	6	2	5	134	0.02	< 10	< 10	40	< 10	32

CERTIFICATION: Hart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9318117

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573562 H	299	229	2.2	0.81	12	200	0.5	2	3.76	< 0.5	7	86	2710	1.88	< 10	< 1	0.28	< 10	0.72	290	300
573563 H	299	229	2.0	0.98	32	70	0.5	6	3.48	< 0.5	10	110	2370	2.41	< 10	< 1	0.42	10	0.79	390	684
573564 H	299	229	1.4	1.77	22	250	0.5	< 2	2.49	< 0.5	9	150	2660	2.02	< 10	< 1	0.72	20	1.22	185	170
573565 H	299	229	10.8	0.96	164	90	0.5	2	2.16	2.0	12	117	2120	2.34	< 10	< 1	0.34	20	0.71	825	144
573566 H	299	229	1.6	1.32	116	140	1.0	< 2	3.03	0.5	13	99	1185	2.43	10	< 1	0.30	20	0.67	1125	185
573567 H	299	229	32.6	0.46	626	30	< 0.5	44	3.16	10.0	9	126	3430	3.70	< 10	< 1	0.22	< 10	0.75	1445	294
573568 H	299	229	3.2	1.02	20	140	0.5	4	2.31	< 0.5	13	121	5270	2.04	< 10	< 1	0.36	20	0.73	355	295
573569 H	299	229	4.2	0.78	32	190	0.5	4	2.82	< 0.5	11	120	6590	2.28	< 10	< 1	0.26	20	0.75	605	310
573570 H	299	229	6.6	1.62	48	140	0.5	4	3.12	0.5	14	160	5910	3.29	< 10	< 1	0.63	20	0.97	490	147
573571 H	299	229	1.8	1.96	2	220	0.5	< 2	3.13	< 0.5	12	113	3620	3.12	< 10	< 1	1.06	10	1.51	205	256
573572 H	299	229	1.0	1.73	< 2	170	0.5	< 2	3.44	< 0.5	10	158	2880	2.41	< 10	< 1	0.67	20	1.18	140	110
573573 H	299	229	1.2	2.34	4	150	0.5	< 2	2.59	< 0.5	10	160	2740	3.32	< 10	< 1	1.15	10	1.64	150	96
573574 H	299	229	1.4	1.80	< 2	90	< 0.5	< 2	2.87	< 0.5	10	225	3590	2.79	< 10	< 1	1.07	10	1.45	110	274
573575 H	299	229	2.2	2.17	2	100	< 0.5	< 2	2.60	0.5	10	159	3100	3.09	< 10	< 1	1.03	10	1.59	150	127
573576 H	299	229	1.6	2.46	< 2	240	0.5	< 2	3.40	< 0.5	9	93	3360	3.20	< 10	< 1	1.08	10	1.50	270	92
573577 H	299	229	40.8	1.71	280	80	0.5	< 2	3.31	36.5	11	124	3290	2.98	< 10	1	0.77	10	1.29	2510	189
573578 H	299	229	2.2	2.53	6	70	0.5	< 2	3.00	< 0.5	11	131	4570	3.23	< 10	< 1	1.16	10	1.75	170	92
573579 H	299	229	1.6	2.30	4	100	0.5	< 2	3.09	0.5	10	116	2830	2.41	< 10	< 1	0.84	10	1.46	155	117
573580 H	299	229	1.6	2.05	8	120	0.5	< 2	3.06	< 0.5	9	164	2560	2.34	< 10	< 1	0.78	10	1.40	175	115
573581 H	299	229	1.0	1.67	6	160	0.5	< 2	2.82	< 0.5	9	202	1915	1.78	< 10	< 1	0.66	10	1.11	140	166
573582 H	299	229	1.2	1.24	6	180	0.5	2	2.92	< 0.5	8	181	1905	1.54	< 10	< 1	0.49	10	0.65	140	224
573583 H	299	229	1.4	1.44	12	90	0.5	< 2	2.69	< 0.5	12	144	3180	2.08	< 10	< 1	0.65	10	1.00	130	234
573584 H	299	229	1.2	1.82	< 2	80	0.5	< 2	2.89	0.5	8	164	2790	2.35	< 10	< 1	0.82	10	1.29	130	220
573585 H	299	229	1.4	1.43	18	130	0.5	2	3.02	0.5	10	226	2420	1.99	< 10	< 1	0.36	10	0.75	255	262
573586 H	299	229	1.2	1.88	6	120	0.5	< 2	2.82	< 0.5	10	232	3110	2.10	< 10	< 1	0.75	20	1.16	135	81
573587 H	299	229	2.4	1.51	26	240	0.5	< 2	2.69	< 0.5	12	153	5450	2.12	< 10	< 1	0.34	20	0.93	235	400
573588 H	299	229	10.2	1.11	230	10	< 0.5	38	2.38	5.5	5	167	1475	6.61	< 10	< 1	0.34	10	0.81	605	683
573589 H	299	229	2.6	1.72	14	180	0.5	< 2	2.74	< 0.5	10	161	2990	2.16	< 10	< 1	0.50	20	0.87	335	388
573590 H	299	229	3.0	1.51	18	70	0.5	2	2.38	< 0.5	8	204	2310	2.55	< 10	< 1	0.46	20	0.75	315	527
573591 H	299	229	7.6	1.18	70	30	0.5	18	2.32	< 0.5	9	177	4460	3.81	< 10	< 1	0.38	10	0.68	520	444
573592 H	299	229	2.2	1.47	32	90	0.5	4	3.24	< 0.5	12	60	3180	2.77	< 10	< 1	0.67	10	1.10	270	102
573593 H	299	229	1.6	1.60	6	360	0.5	< 2	2.86	< 0.5	13	56	1790	2.37	< 10	< 1	0.57	20	0.96	220	140
573594 H	299	229	2.6	0.72	24	70	< 0.5	10	2.49	0.5	7	62	1070	2.86	< 10	< 1	0.23	10	0.59	410	139
573595 H	299	229	0.8	1.53	< 2	430	0.5	< 2	1.67	< 0.5	7	93	564	3.11	< 10	< 1	0.54	20	1.33	225	26
573596 H	299	229	1.2	1.70	14	300	0.5	< 2	2.07	< 0.5	11	71	866	2.93	10	< 1	0.45	20	1.35	270	15
573597 H	299	229	1.0	1.25	16	310	0.5	< 2	2.03	< 0.5	9	76	1055	2.65	10	< 1	0.44	20	0.98	200	18
573598 H	299	229	1.4	0.60	28	340	0.5	< 2	2.45	0.5	6	56	1090	1.27	< 10	< 1	0.18	10	0.62	230	80
573599 H	299	229	0.8	0.42	26	660	< 0.5	2	2.11	< 0.5	2	65	485	0.73	< 10	< 1	0.16	10	0.50	175	54
573600 H	299	229	0.6	0.31	12	480	< 0.5	< 2	1.69	< 0.5	4	57	708	0.71	< 10	< 1	0.16	10	0.31	230	87
573601 H	299	229	1.2	0.45	8	420	< 0.5	2	2.04	< 0.5	4	70	1060	0.82	< 10	< 1	0.20	10	0.42	245	70

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573562 H	299	229	0.02	8	620	14	2	4	214	0.01	< 10	< 10	24	< 10	42
573563 H	299	229	0.02	10	460	16	6	4	175	0.02	< 10	< 10	28	< 10	46
573564 H	299	229	0.04	25	570	6	2	10	113	0.08	< 10	< 10	69	< 10	32
573565 H	299	229	0.02	16	410	124	32	6	98	0.02	< 10	< 10	30	< 10	110
573566 H	299	229	0.03	21	1120	22	12	7	286	0.01	< 10	< 10	31	< 10	88
573567 H	299	229	0.01	10	410	228	140	3	65	< 0.01	< 10	< 10	12	< 10	494
573568 H	299	229	0.02	14	520	12	4	8	97	0.01	< 10	< 10	37	< 10	46
573569 H	299	229	0.01	13	880	12	12	7	99	< 0.01	< 10	< 10	24	< 10	54
573570 H	299	229	0.02	17	970	12	10	14	116	0.07	< 10	< 10	73	< 10	52
573571 H	299	229	0.04	12	890	6	4	14	207	0.15	< 10	< 10	99	< 10	34
573572 H	299	229	0.04	10	540	10	< 2	10	200	0.09	< 10	< 10	70	< 10	30
573573 H	299	229	0.12	10	960	24	< 2	15	205	0.21	< 10	< 10	125	< 10	50
573574 H	299	229	0.09	10	810	12	< 2	12	120	0.21	< 10	< 10	104	< 10	34
573575 H	299	229	0.10	8	1120	20	2	12	94	0.19	< 10	< 10	119	< 10	100
573576 H	299	229	0.07	7	1150	12	< 2	13	191	0.16	< 10	< 10	116	< 10	44
573577 H	299	229	0.06	7	950	598	92	10	140	0.08	< 10	< 10	81	< 10	1620
573578 H	299	229	0.11	9	1000	12	< 2	16	144	0.19	< 10	< 10	119	< 10	46
573579 H	299	229	0.06	8	880	22	< 2	12	153	0.11	< 10	< 10	96	< 10	56
573580 H	299	229	0.07	9	720	16	< 2	11	134	0.10	< 10	< 10	89	< 10	44
573581 H	299	229	0.07	7	690	16	2	9	134	0.08	< 10	< 10	73	< 10	34
573582 H	299	229	0.06	7	590	16	2	8	154	0.04	< 10	< 10	56	< 10	44
573583 H	299	229	0.06	6	700	16	< 2	10	182	0.09	< 10	< 10	74	< 10	40
573584 H	299	229	0.07	6	750	22	< 2	11	148	0.14	< 10	< 10	95	< 10	48
573585 H	299	229	0.02	13	550	24	< 2	9	158	0.02	< 10	< 10	52	< 10	56
573586 H	299	229	0.06	8	600	16	2	10	165	0.09	< 10	< 10	72	< 10	40
573587 H	299	229	0.02	8	570	12	20	9	74	0.01	< 10	< 10	44	< 10	42
573588 H	299	229	0.01	5	450	886	172	6	55	< 0.01	< 10	< 10	23	< 10	314
573589 H	299	229	0.02	7	440	16	6	8	87	0.04	< 10	< 10	45	< 10	34
573590 H	299	229	0.01	6	450	16	4	7	85	0.01	< 10	< 10	28	< 10	32
573591 H	299	229	0.01	8	470	24	42	6	150	< 0.01	< 10	< 10	23	< 10	50
573592 H	299	229	0.03	5	1020	16	6	11	247	0.08	< 10	< 10	64	< 10	38
573593 H	299	229	0.02	3	930	8	2	10	122	0.07	< 10	< 10	58	< 10	28
573594 H	299	229	0.01	7	620	24	2	3	78	< 0.01	< 10	< 10	17	< 10	42
573595 H	299	229	0.03	15	770	6	< 2	6	198	0.09	< 10	< 10	55	< 10	38
573596 H	299	229	0.03	16	790	8	2	6	208	0.06	< 10	< 10	53	< 10	44
573597 H	299	229	0.03	14	800	6	< 2	6	432	0.06	< 10	< 10	46	< 10	54
573598 H	299	229	0.01	8	520	16	2	3	82	< 0.01	< 10	< 10	19	< 10	60
573599 H	299	229	0.01	2	370	14	2	2	60	< 0.01	< 10	< 10	8	< 10	32
573600 H	299	229	0.01	2	240	18	< 2	1	68	< 0.01	< 10	10	3	< 10	34
573601 H	299	229	0.01	2	330	26	2	2	60	< 0.01	< 10	< 10	10	< 10	40

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. :19318117
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318117

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573602 H	299	229	0.2	0.98	4	240	< 0.5	< 2	1.76	< 0.5	4	158	493	0.86	< 10	< 1	0.34	20	0.56	85	122
573603 H	299	229	0.6	1.62	4	370	< 0.5	< 2	1.53	< 0.5	8	101	1090	2.96	10	< 1	0.80	20	1.27	120	36
573604 H	299	229	0.6	1.92	8	360	< 0.5	< 2	1.69	< 0.5	6	114	864	3.19	10	< 1	0.64	20	1.29	180	13
573605 H	299	229	0.6	1.82	4	340	< 0.5	< 2	1.86	< 0.5	8	107	1035	3.37	10	< 1	0.75	30	1.29	165	26
573606 H	299	229	1.8	1.79	30	220	< 0.5	< 2	2.55	< 0.5	13	97	1580	2.68	10	< 1	0.62	20	1.03	250	24
573607 H	299	229	1.0	1.91	8	60	< 0.5	< 2	1.92	< 0.5	13	107	1265	3.51	30	< 1	0.48	30	1.32	170	39
573608 H	299	229	0.6	1.63	6	110	< 0.5	2	1.92	< 0.5	13	98	1455	2.86	10	< 1	0.57	20	1.23	140	32
573609 H	299	229	0.6	1.34	12	230	< 0.5	< 2	2.32	< 0.5	11	82	1110	2.73	< 10	< 1	0.58	20	1.07	140	18
573610 H	299	229	0.2	1.14	16	480	< 0.5	< 2	2.27	< 0.5	5	100	698	1.48	< 10	< 1	0.43	10	0.84	140	57
573611 H	299	229	< 0.2	0.59	18	760	< 0.5	< 2	1.60	< 0.5	2	69	104	0.56	< 10	< 1	0.20	30	0.66	150	192
573612 H	299	229	0.2	0.61	34	710	< 0.5	< 2	1.89	< 0.5	2	89	250	0.71	< 10	< 1	0.20	30	0.67	190	323
573613 H	299	229	0.2	0.52	42	650	< 0.5	< 2	1.74	< 0.5	2	81	340	0.75	< 10	< 1	0.17	20	0.68	145	533
573614 H	299	229	0.4	0.79	42	760	< 0.5	2	2.31	< 0.5	6	44	864	1.05	< 10	< 1	0.10	20	0.77	170	57
573615 H	299	229	1.8	0.94	68	100	< 0.5	4	1.71	< 0.5	6	106	1045	1.74	< 10	< 1	0.25	20	0.47	210	182
573616 H	299	229	2.8	1.00	130	70	< 0.5	2	1.74	< 0.5	11	58	2680	1.86	< 10	< 1	0.19	20	0.32	215	122
573617 H	299	229	1.4	0.99	22	300	0.5	< 2	2.11	< 0.5	5	73	1255	0.98	< 10	< 1	0.23	20	0.16	120	233
573618 H	299	229	0.6	0.70	20	340	< 0.5	< 2	2.09	< 0.5	5	64	977	0.87	< 10	< 1	0.20	20	0.23	140	189
573619 H	299	229	0.6	0.73	26	500	< 0.5	< 2	1.34	< 0.5	3	92	812	0.66	< 10	< 1	0.22	20	0.23	105	164
573620 H	299	229	1.6	0.63	54	350	< 0.5	< 2	1.68	< 0.5	4	73	1585	0.88	< 10	< 1	0.24	30	0.25	105	209
573621 H	299	229	1.2	0.62	100	370	< 0.5	< 2	1.74	< 0.5	3	93	1030	0.81	< 10	< 1	0.22	30	0.29	150	139
573622 H	299	229	1.8	0.46	214	220	< 0.5	4	0.44	0.5	2	72	1025	0.90	< 10	< 1	0.20	20	0.12	80	370
573623 H	299	229	1.8	0.47	156	180	< 0.5	4	1.60	0.5	3	104	923	1.07	< 10	< 1	0.21	10	0.19	175	132
573624 H	299	229	0.8	0.51	28	200	< 0.5	2	0.48	< 0.5	2	69	675	0.86	< 10	< 1	0.19	20	0.08	45	282
573625 H	299	229	0.6	0.55	12	520	< 0.5	< 2	1.59	< 0.5	2	79	587	0.58	< 10	< 1	0.18	20	0.22	80	99
573626 H	299	229	0.4	0.47	48	340	< 0.5	< 2	2.00	< 0.5	3	58	817	0.63	< 10	< 1	0.17	20	0.24	65	91
573627 H	299	229	0.4	0.48	18	200	< 0.5	< 2	1.59	< 0.5	3	83	678	0.49	< 10	< 1	0.18	20	0.20	55	160
573628 H	299	229	0.4	0.47	16	220	< 0.5	< 2	1.95	< 0.5	3	65	801	0.53	< 10	< 1	0.16	20	0.17	60	64
573629 H	299	229	0.6	0.60	16	180	< 0.5	2	1.84	< 0.5	4	88	1005	0.54	< 10	< 1	0.17	20	0.11	55	101
573630 H	299	229	0.6	0.66	26	420	< 0.5	< 2	1.71	< 0.5	4	72	878	0.63	< 10	< 1	0.16	20	0.22	65	55
573631 H	299	229	0.4	0.64	18	360	< 0.5	< 2	1.27	< 0.5	3	94	741	0.49	< 10	< 1	0.19	30	0.17	50	96
573632 H	299	229	0.6	0.66	22	470	< 0.5	2	1.69	< 0.5	3	84	1380	0.58	< 10	< 1	0.19	30	0.24	60	285
573633 H	299	229	0.2	0.79	30	200	< 0.5	< 2	1.29	< 0.5	3	90	884	0.57	< 10	< 1	0.17	30	0.22	50	97
573634 H	299	229	0.2	0.74	16	310	< 0.5	2	1.73	< 0.5	3	81	762	0.64	< 10	< 1	0.19	30	0.32	55	135
573635 H	299	229	0.2	0.84	4	390	0.5	< 2	2.18	< 0.5	4	81	678	0.69	< 10	< 1	0.17	30	0.25	65	92
573636 H	299	229	0.2	0.68	4	200	< 0.5	< 2	1.70	< 0.5	3	47	648	0.63	< 10	< 1	0.09	40	0.16	70	115
573637 H	299	229	0.2	0.67	6	100	< 0.5	< 2	2.14	< 0.5	4	61	670	0.56	< 10	< 1	0.14	30	0.13	65	220

CERTIFICATION: Ian R Bradshaw

Chemex Labs Ltd.

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 176
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-AUG-93
Invoice No. : 19318117
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318117

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573602 H	299	229	0.04	3	330	12	< 2	4	312	0.02	< 10	< 10	26	< 10	20
573603 H	299	229	0.07	15	710	8	2	8	331	0.12	< 10	< 10	58	< 10	28
573604 H	299	229	0.06	15	700	12	< 2	7	473	0.09	< 10	< 10	57	< 10	42
573605 H	299	229	0.07	16	730	14	2	8	336	0.11	< 10	< 10	58	< 10	40
573606 H	299	229	0.04	15	730	48	2	6	403	0.06	< 10	< 10	44	< 10	60
573607 H	299	229	0.06	16	740	10	< 2	7	1850	0.04	< 10	< 10	51	< 10	42
573608 H	299	229	0.05	15	770	24	< 2	7	678	0.06	< 10	< 10	50	< 10	40
573609 H	299	229	0.05	14	750	14	< 2	7	292	0.07	< 10	< 10	45	< 10	34
573610 H	299	229	0.02	9	530	20	2	5	91	0.04	< 10	< 10	28	< 10	34
573611 H	299	229	0.01	1	190	14	6	1	34	< 0.01	< 10	< 10	3	< 10	18
573612 H	299	229	0.01	2	290	20	6	3	34	< 0.01	< 10	< 10	8	< 10	28
573613 H	299	229	0.01	1	140	14	6	3	38	< 0.01	< 10	< 10	7	< 10	20
573614 H	299	229	< 0.01	3	530	16	2	12	40	< 0.01	< 10	< 10	36	< 10	32
573615 H	299	229	0.01	1	260	22	8	3	32	< 0.01	< 10	< 10	13	< 10	28
573616 H	299	229	< 0.01	3	370	28	14	6	34	< 0.01	< 10	< 10	19	< 10	32
573617 H	299	229	< 0.01	2	300	18	4	2	41	< 0.01	< 10	< 10	8	< 10	20
573618 H	299	229	< 0.01	2	270	16	4	1	29	< 0.01	< 10	< 10	5	< 10	20
573619 H	299	229	0.01	2	180	28	6	1	27	< 0.01	< 10	< 10	3	< 10	30
573620 H	299	229	0.01	1	220	14	4	1	34	< 0.01	< 10	< 10	3	< 10	28
573621 H	299	229	< 0.01	1	190	14	14	< 1	34	< 0.01	< 10	< 10	2	< 10	34
573622 H	299	229	< 0.01	1	120	22	20	< 1	16	< 0.01	< 10	< 10	< 1	< 10	64
573623 H	299	229	< 0.01	1	160	50	30	< 1	23	< 0.01	< 10	< 10	1	< 10	58
573624 H	299	229	< 0.01	1	170	12	2	< 1	16	< 0.01	< 10	< 10	< 1	< 10	14
573625 H	299	229	< 0.01	1	150	12	2	1	27	< 0.01	< 10	< 10	2	< 10	12
573626 H	299	229	< 0.01	1	160	16	< 2	1	36	< 0.01	< 10	< 10	3	< 10	20
573627 H	299	229	< 0.01	2	180	22	2	1	22	< 0.01	< 10	< 10	2	< 10	24
573628 H	299	229	< 0.01	1	280	12	2	2	27	< 0.01	< 10	< 10	6	< 10	18
573629 H	299	229	< 0.01	1	240	18	2	2	25	< 0.01	< 10	< 10	5	< 10	18
573630 H	299	229	< 0.01	1	240	14	< 2	2	35	< 0.01	< 10	< 10	7	< 10	14
573631 H	299	229	0.01	1	210	14	2	1	32	< 0.01	< 10	< 10	4	< 10	14
573632 H	299	229	0.01	2	250	14	4	2	40	< 0.01	< 10	< 10	10	< 10	16
573633 H	299	229	0.01	2	260	16	4	2	33	< 0.01	< 10	< 10	9	< 10	16
573634 H	299	229	0.01	1	230	12	2	2	43	< 0.01	< 10	< 10	9	< 10	18
573635 H	299	229	0.01	1	260	12	2	2	53	< 0.01	< 10	< 10	9	< 10	14
573636 H	299	229	< 0.01	2	270	14	2	2	27	< 0.01	< 10	< 10	9	< 10	14
573637 H	299	229	0.01	1	240	12	2	2	28	< 0.01	< 10	< 10	7	< 10	18

CERTIFICATION: Ivan M Bebbington

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 177
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-AUG-93
Invoice No. :I9318443
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318443

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
564655	208 274	0.02	0.066	0.34	6140
564656	208 273	0.02	0.094	0.34	11920
564657	208 273	0.03	0.042	0.24	12720
564658	208 276	0.03	0.046	0.34	8820
564659	208 276	0.02	0.066	0.34	10500
564660	208 276	0.02	0.054	0.27	10680
564661	208 276	0.02	0.080	0.41	8340
564662	208 273	0.03	0.068	0.58	14720
564663	208 276	0.03	0.090	0.24	11500
564664	208 276	0.02	0.164	0.24	11640
564665	208 276	0.02	0.076	0.21	10900
564666	208 274	0.03	0.073	0.58	1280
564667	208 276	0.02	0.091	0.34	7520
564668	208 276	0.02	0.134	0.27	11160
564669	208 276	0.02	0.056	0.48	11300
564670	208 274	0.01	0.036	0.34	4620
564671	208 273	0.02	0.035	0.38	12240
564672	208 276	0.02	0.053	0.41	9400
564673	208 273	0.03	0.073	0.38	13000
564674	208 276	0.02	0.044	0.34	8460
564675	208 274	0.03	0.056	0.38	5500
564676	208 276	0.02	0.049	0.45	11300
564677	208 273	0.03	0.065	0.34	12060
564678	208 273	0.02	0.061	0.48	12000
564679	208 273	0.02	0.085	0.34	12980
564680	208 273	0.02	0.102	0.31	12600
564681	208 273	0.02	0.116	0.34	12860
564682	208 273	0.02	0.114	0.38	11860
564683	208 273	0.02	0.142	0.24	13460
564684	208 273	0.02	0.071	0.34	13120
564685	208 273	0.02	0.067	0.34	12580
564686	208 273	0.01	0.064	0.24	12820
564687	208 276	0.01	0.097	0.21	9860
564688	208 273	0.01	0.106	0.17	12040
564689	208 273	< 0.01	0.043	0.10	13060
564690	208 273	< 0.01	0.040	0.07	12720
564691	208 273	< 0.01	0.019	0.07	12180
564692	208 273	< 0.01	0.024	0.14	12160
564693	208 273	< 0.01	0.046	0.14	11920
564694	208 273	0.01	0.081	0.07	12200

CERTIFICATION:

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Project : CASINO 177
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Certificate Date: 11-AUG-93
Invoice No. :I9318443
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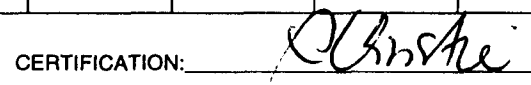
Account :FC

CERTIFICATE OF ANALYSIS A9318443

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
564695	208 276	< 0.01	0.036	0.10	10600
564696	208 276	< 0.01	0.032	< 0.03	11040
564697	208 276	0.01	0.029	< 0.03	10140
564698	208 276	0.04	0.011	0.14	9260
564699	208 276	0.01	0.010	0.07	9960
564700	208 276	0.08	0.031	0.14	10360
564701	208 273	0.10	0.025	0.10	12500
564702	208 276	0.20	0.061	0.27	11620
564703	208 276	0.01	0.007	0.14	11720
564704	208 273	0.10	0.012	0.14	13240
564705	208 273	0.01	0.012	0.21	13020
564706	208 276	0.14	0.020	0.41	11600
564707	208 276	0.04	0.018	0.12	11460
564708	208 276	0.03	0.030	0.13	10500
564709	208 276	0.02	0.012	0.20	7320
564710	208 276	0.10	0.020	0.23	9320
564711	208 274	0.11	0.015	0.07	6840
564712	208 276	0.03	0.019	< 0.03	10620
564713	208 276	0.12	0.032	0.17	8000
564714	208 273	0.02	0.017	0.10	12280
564715	208 276	0.22	0.007	0.18	11660
564716	208 273	0.04	0.009	0.22	15040
564717	208 276	0.04	0.019	0.07	10220
564718	208 276	0.02	0.018	0.03	10760
564719	208 276	0.03	0.029	0.03	11000
564720	208 276	0.03	0.022	0.03	10520
564721	208 276	0.06	0.023	< 0.03	10560
564722	208 273	0.03	0.021	0.03	12820
564723	208 276	0.03	0.030	< 0.03	9840
564724	208 273	0.03	0.089	0.03	12000
564725	208 276	0.03	0.035	0.07	10740
564726	208 273	0.08	0.035	0.07	12640
564727	208 276	0.10	0.076	0.07	10200
564728	208 273	0.06	0.049	0.03	12560
564729	208 273	0.13	0.039	0.10	11930
564730	208 273	0.11	0.008	0.12	12100
564731	208 273	0.07	0.011	0.07	12000
564732	208 276	0.10	0.009	< 0.03	9860
564733	208 276	0.08	0.005	0.03	11240
564734	208 276	0.09	0.001	0.03	8880

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 177
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-AUG-93
Invoice No. : I9318443
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318443

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564735	208	276	0.16	0.002	0.14	11460
564736	208	276	0.09	0.003	0.10	7620
564737	208	270	0.11	0.044	0.07	16940

CERTIFICATION: D. Chrétien

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Page Number :1-A
Total Pages :3
Certificate Date: 15-AUG-93
Invoice No. :I9318444
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318444

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564655	299	229	2.8	1.08	50	140	< 0.5	4	0.01	< 0.5	< 1	135	223	4.88	< 10	< 1	1.17	30	0.06	15	438
564656	299	229	2.4	0.91	78	100	< 0.5	6	0.01	< 0.5	< 1	117	176	5.44	< 10	< 1	1.18	30	0.06	15	624
564657	299	229	2.6	1.20	60	120	< 0.5	4	0.01	< 0.5	< 1	151	286	4.16	< 10	< 1	1.04	30	0.06	15	285
564658	299	229	2.4	1.61	60	130	< 0.5	6	0.01	< 0.5	1	92	254	3.13	< 10	< 1	0.95	40	0.11	15	311
564659	299	229	3.2	1.16	26	170	< 0.5	4	0.01	< 0.5	< 1	166	237	3.13	< 10	< 1	0.91	30	0.04	15	453
564660	299	229	2.6	1.36	34	200	< 0.5	6	0.01	< 0.5	< 1	131	227	2.75	< 10	< 1	0.88	30	0.06	15	366
564661	299	229	3.8	1.38	42	250	< 0.5	8	0.01	< 0.5	< 1	158	223	2.90	< 10	< 1	0.92	40	0.08	15	547
564662	299	229	3.4	1.58	32	180	< 0.5	4	0.01	< 0.5	1	134	287	3.36	10	< 1	1.01	40	0.21	30	446
564663	299	229	3.0	1.41	18	130	< 0.5	10	0.01	< 0.5	< 1	155	290	4.04	10	< 1	1.13	40	0.11	20	598
564664	299	229	2.8	0.80	32	140	< 0.5	4	0.01	< 0.5	< 1	144	167	4.42	< 10	< 1	1.12	30	0.06	10	1090
564665	299	229	2.8	0.83	22	160	< 0.5	6	0.01	< 0.5	< 1	206	170	4.21	< 10	< 1	1.09	20	0.06	15	518
564666	299	229	3.6	1.13	14	140	< 0.5	6	0.01	< 0.5	< 1	130	269	4.73	< 10	< 1	1.09	40	0.10	20	485
564667	299	229	4.0	0.98	26	120	< 0.5	8	0.01	< 0.5	< 1	155	217	5.08	< 10	< 1	1.24	30	0.07	15	601
564668	299	229	3.2	0.86	34	150	< 0.5	6	0.01	< 0.5	< 1	133	192	4.16	< 10	< 1	1.03	40	0.06	15	872
564669	299	229	4.4	0.92	28	210	< 0.5	6	0.01	< 0.5	< 1	138	236	3.04	< 10	< 1	0.85	40	0.05	15	374
564670	299	229	3.4	0.69	16	250	< 0.5	4	0.01	< 0.5	1	122	130	2.95	< 10	< 1	0.90	30	0.06	10	245
564671	299	229	3.4	0.81	18	240	< 0.5	4	0.01	< 0.5	< 1	131	184	2.62	< 10	< 1	0.79	20	0.05	10	230
564672	299	229	3.8	0.76	8	210	< 0.5	8	0.01	< 0.5	< 1	155	203	2.76	< 10	< 1	0.81	20	0.05	15	357
564673	299	229	3.4	0.90	26	130	< 0.5	4	0.01	< 0.5	< 1	111	267	3.42	< 10	< 1	0.85	30	0.06	15	486
564674	299	229	3.0	0.70	26	160	< 0.5	2	0.01	< 0.5	< 1	103	236	3.52	< 10	< 1	0.87	30	0.04	10	296
564675	299	229	3.8	0.80	22	220	< 0.5	2	0.01	< 0.5	< 1	133	275	3.24	< 10	< 1	0.88	30	0.04	10	400
564676	299	229	4.0	0.48	20	250	< 0.5	2	0.01	< 0.5	< 1	78	209	2.56	< 10	< 1	0.65	30	0.03	10	343
564677	299	229	3.0	0.82	30	200	< 0.5	< 2	0.01	< 0.5	< 1	133	308	2.91	< 10	< 1	0.77	40	0.04	15	447
564678	299	229	3.6	0.71	22	290	< 0.5	4	0.01	< 0.5	1	168	227	2.40	< 10	< 1	0.72	30	0.04	15	444
564679	299	229	3.4	0.57	30	210	< 0.5	2	0.01	< 0.5	< 1	157	177	3.22	< 10	< 1	0.84	30	0.04	10	584
564680	299	229	3.0	0.57	24	260	< 0.5	2	0.01	< 0.5	< 1	155	158	3.03	< 10	< 1	0.79	30	0.04	10	678
564681	299	229	3.6	0.43	26	220	< 0.5	4	0.01	< 0.5	< 1	69	187	3.05	10	< 1	0.72	30	0.02	5	808
564682	299	229	4.2	0.53	28	190	< 0.5	4	< 0.01	< 0.5	< 1	144	164	3.45	< 10	< 1	0.89	30	0.04	10	803
564683	299	229	3.4	0.61	16	190	< 0.5	6	0.01	< 0.5	1	141	175	3.08	< 10	< 1	0.85	20	0.06	15	995
564684	299	229	4.8	0.92	34	170	< 0.5	8	0.01	< 0.5	< 1	125	224	3.13	10	< 1	0.88	30	0.05	15	473
564685	299	229	3.8	0.65	20	160	< 0.5	2	0.01	< 0.5	< 1	152	187	3.32	< 10	< 1	0.94	20	0.05	15	444
564686	299	229	2.8	0.62	14	210	< 0.5	2	0.01	< 0.5	< 1	166	133	3.65	< 10	< 1	0.97	20	0.06	15	451
564687	299	229	2.4	0.57	16	240	< 0.5	4	0.01	< 0.5	< 1	152	98	2.90	< 10	< 1	0.85	20	0.05	15	660
564688	299	229	1.6	0.43	18	160	< 0.5	6	0.01	< 0.5	< 1	138	67	3.54	< 10	< 1	0.89	30	0.03	10	719
564689	299	229	1.4	0.67	26	170	< 0.5	2	< 0.01	< 0.5	< 1	152	34	1.54	< 10	< 1	0.65	40	0.05	10	307
564690	299	229	0.8	0.65	28	200	< 0.5	4	< 0.01	< 0.5	< 1	143	11	4.11	< 10	< 1	1.15	50	0.04	10	274
564691	299	229	0.4	0.70	24	220	< 0.5	4	< 0.01	< 0.5	< 1	141	12	2.78	< 10	< 1	0.88	40	0.06	10	134
564692	299	229	0.6	0.75	16	230	< 0.5	4	< 0.01	< 0.5	< 1	147	17	3.16	< 10	< 1	0.90	30	0.07	10	156
564693	299	229	2.0	0.88	20	140	< 0.5	8	< 0.01	< 0.5	4	169	17	2.80	< 10	< 1	0.82	30	0.09	10	338
564694	299	229	1.2	0.74	34	130	< 0.5	12	0.01	< 0.5	2	150	46	3.76	< 10	< 1	0.74	40	0.07	10	565

CERTIFICATION: Ian H Bucher

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Project : CASINO 177
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Certificate Date: 15-AUG-93
Invoice No. : I9318444
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318444

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564655	299	229	0.04	2	120	28	< 2	3	23	0.02	< 10	< 10	27	< 10	14
564656	299	229	0.04	2	250	16	< 2	3	25	< 0.01	< 10	< 10	26	< 10	14
564657	299	229	0.03	2	460	14	< 2	5	24	0.01	< 10	< 10	30	< 10	14
564658	299	229	0.02	1	220	16	< 2	6	19	0.04	< 10	< 10	35	< 10	12
564659	299	229	0.03	2	300	16	< 2	4	30	< 0.01	< 10	< 10	23	< 10	6
564660	299	229	0.03	1	390	12	< 2	5	25	0.01	< 10	< 10	31	< 10	8
564661	299	229	0.02	2	440	14	< 2	5	24	0.02	< 10	< 10	29	< 10	10
564662	299	229	0.03	3	530	6	< 2	7	27	0.03	< 10	< 10	36	< 10	14
564663	299	229	0.03	2	640	16	< 2	7	32	0.02	< 10	< 10	31	< 10	12
564664	299	229	0.04	1	460	8	< 2	3	23	0.01	< 10	< 10	16	< 10	8
564665	299	229	0.03	1	390	30	< 2	3	20	0.01	< 10	< 10	18	< 10	8
564666	299	229	0.04	2	470	12	< 2	3	26	0.01	< 10	< 10	27	< 10	16
564667	299	229	0.04	1	580	10	< 2	3	30	0.01	< 10	< 10	22	< 10	10
564668	299	229	0.03	1	640	18	< 2	3	30	< 0.01	< 10	< 10	18	< 10	8
564669	299	229	0.03	1	560	16	< 2	4	34	< 0.01	< 10	< 10	21	< 10	8
564670	299	229	0.02	2	320	14	< 2	2	21	< 0.01	< 10	< 10	12	< 10	6
564671	299	229	0.02	2	320	12	< 2	3	22	< 0.01	< 10	< 10	19	< 10	6
564672	299	229	0.02	2	330	8	< 2	3	21	< 0.01	< 10	< 10	19	< 10	6
564673	299	229	0.02	2	560	12	< 2	4	29	< 0.01	< 10	< 10	30	< 10	10
564674	299	229	0.02	1	490	10	< 2	3	30	< 0.01	< 10	< 10	22	< 10	8
564675	299	229	0.02	2	570	12	< 2	4	33	< 0.01	< 10	< 10	27	< 10	6
564676	299	229	0.02	1	390	8	< 2	2	27	< 0.01	< 10	< 10	14	< 10	6
564677	299	229	0.03	1	710	12	< 2	4	32	< 0.01	< 10	< 10	24	< 10	8
564678	299	229	0.02	2	420	10	< 2	2	30	< 0.01	< 10	< 10	17	< 10	8
564679	299	229	0.03	2	270	12	< 2	1	30	< 0.01	< 10	< 10	12	< 10	8
564680	299	229	0.02	1	370	14	< 2	2	26	< 0.01	< 10	< 10	11	< 10	6
564681	299	229	0.02	1	450	12	< 2	2	30	< 0.01	< 10	< 10	9	< 10	6
564682	299	229	0.02	3	310	20	< 2	1	23	< 0.01	< 10	< 10	10	< 10	8
564683	299	229	0.02	2	190	14	2	1	22	< 0.01	< 10	< 10	9	< 10	8
564684	299	229	0.02	2	430	16	< 2	4	36	< 0.01	< 10	< 10	16	< 10	10
564685	299	229	0.03	3	130	16	< 2	2	25	< 0.01	< 10	< 10	12	< 10	14
564686	299	229	0.02	2	140	22	< 2	1	18	< 0.01	< 10	< 10	13	< 10	12
564687	299	229	0.02	2	200	20	< 2	1	18	< 0.01	< 10	< 10	8	< 10	12
564688	299	229	0.02	1	270	18	< 2	1	22	< 0.01	< 10	< 10	6	< 10	8
564689	299	229	0.01	2	580	12	< 2	8	11	< 0.01	< 10	< 10	7	< 10	6
564690	299	229	0.01	1	580	18	< 2	3	35	< 0.01	< 10	< 10	7	10	6
564691	299	229	0.02	2	540	18	< 2	4	39	< 0.01	< 10	< 10	8	10	4
564692	299	229	0.01	1	350	26	< 2	2	19	< 0.01	< 10	< 10	11	< 10	4
564693	299	229	0.01	4	460	26	2	4	19	< 0.01	< 10	< 10	8	< 10	4
564694	299	229	0.01	3	650	20	< 2	2	85	< 0.01	< 10	< 10	13	< 10	6

CERTIFICATION: Stewart Bichler

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CERTIFICATE OF ANALYSIS A9318444

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564695	299	229	1.0	0.54	14	90	< 0.5	4	0.01	< 0.5	1	79	16	1.12	< 10	< 1	0.45	30	0.06	10	251
564696	299	229	0.8	0.63	14	100	< 0.5	2	0.01	< 0.5	4	87	31	2.70	< 10	< 1	0.56	20	0.08	10	220
564697	299	229	1.0	0.61	10	50	< 0.5	4	0.01	< 0.5	6	94	69	3.51	< 10	< 1	0.45	20	0.06	10	189
564698	299	229	1.4	0.62	8	110	< 0.5	12	0.01	< 0.5	5	70	393	2.48	< 10	< 1	0.44	20	0.07	5	66
564699	299	229	1.6	0.72	8	80	< 0.5	16	0.01	< 0.5	4	101	132	2.56	< 10	< 1	0.47	30	0.09	10	58
564700	299	229	1.4	0.67	12	40	< 0.5	6	0.01	< 0.5	8	80	835	4.51	< 10	< 1	0.44	20	0.10	10	198
564701	299	229	1.4	0.90	4	40	< 0.5	6	0.01	< 0.5	15	104	1060	5.49	< 10	< 1	0.54	10	0.11	15	164
564702	299	229	1.8	0.77	6	30	< 0.5	8	0.02	< 0.5	10	89	2260	6.43	< 10	< 1	0.47	20	0.09	10	412
564703	299	229	1.0	0.42	8	20	< 0.5	8	0.01	< 0.5	6	76	150	7.38	< 10	< 1	0.26	10	0.04	10	43
564704	299	229	1.6	0.91	4	30	< 0.5	16	0.03	< 0.5	6	104	1050	5.45	< 10	< 1	0.54	20	0.10	15	75
564705	299	229	1.6	0.67	20	10	< 0.5	6	0.03	< 0.5	3	101	95	9.29	< 10	< 1	0.42	10	0.07	10	69
564706	299	229	2.0	0.62	6	50	< 0.5	14	0.02	< 0.5	7	75	1510	4.88	< 10	< 1	0.42	20	0.08	10	134
564707	299	229	1.0	0.62	8	20	< 0.5	6	0.04	< 0.5	7	94	345	6.39	< 10	< 1	0.39	10	0.07	10	116
564708	299	229	1.0	0.38	14	40	< 0.5	12	0.02	< 0.5	8	75	289	5.82	< 10	< 1	0.24	10	0.04	5	197
564709	299	229	1.0	0.80	14	20	< 0.5	10	0.01	< 0.5	8	93	154	7.46	< 10	< 1	0.48	10	0.08	10	76
564710	299	229	1.8	0.57	18	50	< 0.5	16	0.04	< 0.5	11	72	1025	6.31	< 10	< 1	0.33	10	0.07	10	130
564711	299	229	1.8	1.03	4	60	< 0.5	16	0.04	< 0.5	5	111	1200	4.92	< 10	< 1	0.59	20	0.12	15	97
564712	299	229	0.4	0.51	20	60	< 0.5	4	0.02	< 0.5	7	74	272	4.44	< 10	< 1	0.32	20	0.05	10	127
564713	299	229	0.8	0.88	12	30	< 0.5	4	0.03	< 0.5	8	112	1255	4.45	< 10	< 1	0.51	20	0.09	10	217
564714	299	229	0.6	0.39	10	50	< 0.5	6	0.02	< 0.5	6	76	223	4.77	< 10	< 1	0.24	20	0.03	5	106
564715	299	229	3.2	1.09	30	10	0.5	14	0.09	< 0.5	13	70	2380	6.93	< 10	< 1	0.50	10	0.11	130	38
564716	299	229	1.4	0.69	46	10	< 0.5	4	0.04	< 0.5	20	86	455	11.50	< 10	< 1	0.30	10	0.06	10	54
564717	299	229	0.2	0.41	2	30	< 0.5	< 2	0.01	< 0.5	17	121	363	7.68	< 10	< 1	0.20	10	0.04	5	122
564718	299	229	0.4	0.81	< 2	60	< 0.5	4	0.03	< 0.5	12	253	223	4.47	< 10	< 1	0.40	20	0.07	20	114
564719	299	229	0.6	0.46	12	50	< 0.5	2	0.04	< 0.5	7	122	298	4.46	< 10	< 1	0.28	20	0.04	10	185
564720	299	229	0.2	0.50	4	70	< 0.5	4	0.03	< 0.5	6	152	306	3.76	< 10	< 1	0.27	30	0.04	15	140
564721	299	229	0.2	0.34	8	30	< 0.5	2	0.04	< 0.5	14	97	614	5.32	< 10	< 1	0.16	20	0.03	10	144
564722	299	229	0.2	0.58	24	30	< 0.5	4	0.02	< 0.5	26	139	285	5.87	< 10	< 1	0.34	20	0.06	10	137
564723	299	229	0.4	0.30	30	30	< 0.5	< 2	0.04	< 0.5	25	52	350	6.35	< 10	< 1	0.13	10	0.02	5	205
564724	299	229	0.2	0.58	24	20	< 0.5	2	0.06	< 0.5	37	133	330	6.59	< 10	< 1	0.31	20	0.05	10	578
564725	299	229	0.4	0.36	6	50	< 0.5	4	0.06	< 0.5	13	76	252	3.91	< 10	< 1	0.13	20	0.02	5	234
564726	299	229	0.8	0.71	20	20	< 0.5	4	0.09	< 0.5	25	125	889	5.29	< 10	< 1	0.33	20	0.06	10	225
564727	299	229	0.6	0.34	16	20	< 0.5	4	0.05	< 0.5	18	69	1020	6.39	< 10	< 1	0.16	10	0.03	5	492
564728	299	229	1.0	0.56	38	20	< 0.5	4	0.05	< 0.5	34	114	648	6.83	< 10	< 1	0.29	10	0.04	10	317
564729	299	229	1.6	0.42	28	30	< 0.5	6	0.08	< 0.5	18	73	1370	5.51	< 10	< 1	0.16	10	0.03	10	258
564730	299	229	1.2	1.00	30	20	0.5	6	0.13	< 0.5	19	81	1095	5.40	< 10	< 1	0.39	30	0.08	10	51
564731	299	229	0.8	0.87	18	40	< 0.5	2	0.16	< 0.5	5	68	757	4.55	< 10	< 1	0.30	60	0.08	10	71
564732	299	229	0.6	1.47	20	70	0.5	4	0.16	< 0.5	10	75	1085	3.86	< 10	< 1	0.47	60	0.10	20	54
564733	299	229	0.6	0.77	4	70	< 0.5	2	0.12	< 0.5	8	68	880	3.45	< 10	< 1	0.29	20	0.07	10	29
564734	299	229	0.6	0.82	14	70	< 0.5	2	0.12	< 0.5	6	82	862	3.09	< 10	< 1	0.38	10	0.06	10	4

CERTIFICATION: David Bradley

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Certificate Date: 15-AUG-93
Invoice No. : I9318444
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318444

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564695	299	229	0.02	2	200	18	< 2	1	37	< 0.01	< 10	< 10	4	< 10	4
564696	299	229	0.01	6	240	8	< 2	2	28	< 0.01	< 10	< 10	5	< 10	10
564697	299	229	0.01	8	100	14	< 2	1	17	< 0.01	< 10	< 10	5	< 10	12
564698	299	229	0.01	7	140	14	< 2	1	48	< 0.01	< 10	< 10	5	< 10	8
564699	299	229	0.01	6	150	14	< 2	1	29	< 0.01	< 10	< 10	6	< 10	6
564700	299	229	0.01	8	80	8	< 2	1	11	< 0.01	< 10	< 10	6	< 10	10
564701	299	229	0.01	11	80	14	< 2	2	24	< 0.01	< 10	< 10	9	< 10	14
564702	299	229	0.01	12	100	10	< 2	2	42	< 0.01	< 10	< 10	6	< 10	18
564703	299	229	< 0.01	9	30	24	< 2	1	12	< 0.01	< 10	< 10	3	< 10	14
564704	299	229	0.01	11	390	10	< 2	1	14	< 0.01	< 10	< 10	7	< 10	16
564705	299	229	0.01	10	230	26	< 2	1	19	< 0.01	< 10	< 10	5	< 10	22
564706	299	229	0.01	11	160	8	< 2	1	15	< 0.01	< 10	< 10	4	< 10	14
564707	299	229	0.01	11	360	16	< 2	1	15	< 0.01	< 10	< 10	4	< 10	16
564708	299	229	< 0.01	7	220	12	< 2	2	59	< 0.01	< 10	< 10	2	< 10	16
564709	299	229	0.01	7	160	14	< 2	2	22	< 0.01	< 10	< 10	5	< 10	18
564710	299	229	0.01	9	470	20	< 2	1	22	< 0.01	< 10	< 10	3	< 10	20
564711	299	229	0.01	9	500	22	< 2	2	34	< 0.01	< 10	< 10	9	< 10	30
564712	299	229	0.01	6	410	4	< 2	1	17	< 0.01	< 10	< 10	3	< 10	12
564713	299	229	0.01	7	460	4	< 2	1	16	< 0.01	< 10	< 10	6	< 10	14
564714	299	229	< 0.01	4	270	12	< 2	2	89	< 0.01	< 10	< 10	2	< 10	12
564715	299	229	0.01	10	640	26	< 2	2	25	< 0.01	< 10	< 10	7	< 10	46
564716	299	229	< 0.01	11	480	8	< 2	2	37	< 0.01	< 10	< 10	4	< 10	20
564717	299	229	0.01	7	260	4	< 2	1	38	< 0.01	< 10	< 10	2	< 10	12
564718	299	229	0.01	8	520	12	< 2	2	115	< 0.01	< 10	< 10	7	< 10	12
564719	299	229	0.01	6	440	4	< 2	< 1	28	< 0.01	< 10	< 10	2	< 10	18
564720	299	229	0.01	3	400	2	< 2	1	122	< 0.01	< 10	< 10	3	< 10	8
564721	299	229	< 0.01	4	410	4	< 2	1	176	< 0.01	< 10	< 10	2	< 10	12
564722	299	229	0.01	7	300	8	< 2	1	49	< 0.01	< 10	< 10	3	< 10	12
564723	299	229	< 0.01	6	430	4	< 2	1	70	< 0.01	< 10	< 10	1	< 10	8
564724	299	229	0.01	8	450	8	< 2	1	58	< 0.01	< 10	< 10	3	< 10	14
564725	299	229	< 0.01	3	630	8	< 2	1	107	< 0.01	< 10	< 10	1	< 10	8
564726	299	229	0.01	8	650	14	< 2	1	73	< 0.01	< 10	< 10	3	10	14
564727	299	229	< 0.01	8	420	24	< 2	1	64	< 0.01	< 10	< 10	< 1	< 10	14
564728	299	229	0.01	9	410	14	< 2	1	53	< 0.01	< 10	< 10	3	< 10	12
564729	299	229	< 0.01	9	540	16	< 2	1	30	< 0.01	< 10	< 10	3	230	12
564730	299	229	0.01	12	860	18	< 2	2	42	< 0.01	< 10	< 10	11	30	14
564731	299	229	< 0.01	11	850	6	< 2	1	19	< 0.01	< 10	< 10	10	140	14
564732	299	229	0.01	10	1160	2	< 2	3	103	< 0.01	< 10	< 10	19	40	14
564733	299	229	< 0.01	8	820	2	< 2	1	71	< 0.01	< 10	< 10	8	20	8
564734	299	229	0.01	2	790	4	< 2	1	114	< 0.01	< 10	< 10	4	< 10	6

CERTIFICATION: Stewart Bachelor

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Project : CASINO 177
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Certificate Date: 15-AUG-93
Invoice No. : I9318444
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318444

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564735	299	229	2.6	0.53	22	30	< 0.5	8	0.07	< 0.5	7	49	1675	5.28	< 10	< 1	0.13	< 10	0.02	5	15
564736	299	229	1.2	0.78	30	10	< 0.5	6	0.16	< 0.5	40	79	913	6.01	< 10	< 1	0.34	10	0.07	10	24
564737	299	229	0.4	0.66	12	70	< 0.5	2	0.11	< 0.5	12	37	1110	3.40	< 10	< 1	0.17	< 10	0.06	10	332

CERTIFICATION: Richard Sadler

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Account : FC

CERTIFICATE OF ANALYSIS A9318444

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564735	299	229	< 0.01	3	700	22	< 2	1	136	< 0.01	< 10	10	3	< 10	12
564736	299	229	0.01	8	940	14	< 2	1	104	< 0.01	< 10	< 10	4	< 10	14
564737	299	229	< 0.01	8	800	6	< 2	2	107	< 0.01	< 10	< 10	6	< 10	12

CERTIFICATION: Ivan Bruckner

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Invoice No. :I9318445
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CERTIFICATE OF ANALYSIS A9318445

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H570958	208	276	0.01	0.006	0.21	9360
H570959	208	276	0.01	0.009	0.24	11740
H570960	208	276	< 0.01	0.008	0.17	9940
H570961	208	273	0.01	0.008	0.14	13140
H570962	208	276	0.01	0.006	0.24	7900
H570963	208	274	0.01	0.004	0.17	7020
H570964	208	276	0.01	0.002	0.21	8140
H570965	208	276	0.03	0.005	0.27	10920
H570966	208	276	0.01	0.004	0.14	10940
H570967	208	276	0.02	0.005	0.24	10580
H570968	208	276	0.06	0.004	0.31	10460
H570969	208	276	0.02	0.003	0.21	11360
H570970	208	276	0.03	0.004	0.14	10360
H570971	208	276	0.03	0.009	0.24	10180
H570972	208	274	0.04	0.004	0.14	5160
H570973	208	276	0.03	0.004	0.17	10240
H570974	208	276	0.04	0.003	0.21	10200
H570975	208	276	0.04	0.004	0.21	11580
H570976	208	276	0.04	0.005	0.14	10220
H570977	208	276	0.03	0.003	0.07	11040
H570978	208	276	0.03	0.006	0.10	11480
H570979	208	276	0.04	0.014	0.14	11180
H570980	208	270	0.04	0.008	0.21	18400
H570981	208	276	0.06	0.005	0.17	11200
H570982	208	276	0.07	0.007	0.14	9020
H570983	208	276	0.03	0.007	0.17	9760
H570984	208	274	0.01	0.008	0.14	6040
H570985	208	276	< 0.01	0.006	0.10	8180
H570986	208	273	0.04	0.018	0.31	12380
H570987	208	276	0.02	0.024	0.34	11140
H570988	208	273	0.03	0.014	0.24	13160
H570989	208	273	0.04	0.006	0.24	12360
H570990	208	273	0.05	0.006	0.14	12960
H570991	208	273	0.08	0.039	0.24	12640
H570992	208	273	0.05	0.010	0.17	12500
H570993	208	273	0.05	0.025	0.41	12460
H570994	208	273	0.08	0.011	0.21	13280
H570995	208	273	0.14	0.006	0.17	12480
H570996	208	273	0.13	0.008	0.14	12500
H570997	208	273	0.22	0.008	0.24	12400

CERTIFICATION:

For Cu% for sample H571046,H571047

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CERTIFICATE OF ANALYSIS A9318445

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H570998	208	273	0.36	0.054	0.34	11980
H570999	208	273	0.41	0.022	0.58	12860
H571000	208	276	0.32	0.013	0.51	8200
H571001	208	273	0.30	0.022	0.69	12960
H571002	208	273	0.46	0.031	0.62	16200
H571003	208	276	0.26	0.013	0.34	8180
H571004	208	273	0.28	0.005	0.17	11920
H571005	208	273	0.31	0.018	0.31	11900
H571006	208	276	0.51	0.088	0.86	11520
H571007	208	273	0.11	0.004	0.27	13060
H571008	208	273	0.15	0.008	0.21	14340
H571009	208	276	0.66	0.025	0.41	11560
H571010	208	273	0.41	0.025	0.51	12780
H571011	208	273	0.41	0.088	0.62	12640
H571012	208	273	0.33	0.020	0.38	12460
H571013	208	276	0.32	0.053	0.24	10950
H571014	208	273	0.21	0.015	0.17	12380
H571015	208	276	0.18	0.017	0.21	11450
H571016	208	273	0.17	0.004	0.10	11850
H571017	208	273	0.20	0.020	0.27	12850
H571018	208	276	0.25	0.025	0.24	11420
H571019	208	273	0.25	0.017	0.27	11880
H571020	208	276	0.41	0.041	0.34	11350
H571021	208	276	0.23	0.030	0.31	9720
H571022	208	276	0.21	0.014	0.24	10150
H571023	208	276	0.20	0.031	0.17	11780
H571024	208	273	0.30	0.027	0.34	11900
H571025	208	273	0.18	0.021	0.27	13960
H571026	208	273	0.23	0.023	0.27	14860
H571027	208	276	0.36	0.023	0.34	7720
H571028	208	273	0.18	0.032	0.24	14100
H571029	208	274	0.12	0.025	0.21	6100
H571030	208	273	0.26	0.016	0.38	13860
H571031	208	273	0.28	0.020	0.34	12760
H571032	208	273	0.16	0.022	0.21	13330
H571033	208	276	0.19	0.012	0.17	10080
H571034	208	273	0.31	0.126	0.41	15880
H571035	208	273	0.61	0.073	0.82	14560
H571036	208	273	0.18	0.009	0.10	13220
H571037	208	273	0.14	0.019	0.21	13320

CERTIFICATION: A Christie

For Cu% for sample H571046,H571047

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H571038	208 276	0.24	0.023	0.27	11800
H571039	208 273	0.17	0.007	0.24	13640
H571040	208 276	0.33	0.034	0.24	8320
H571041	208 273	0.14	0.020	0.21	12900
H571042	208 270	0.12	0.019	0.21	18160
H571043	208 273	0.15	0.038	0.17	12760
H571044	208 273	0.20	0.027	0.31	12480
H571045	208 273	0.16	0.006	0.21	13340
H571046	208 273	0.24	0.015	0.41	13460
H571047	208 273	0.36	0.026	0.34	13160
H571048	208 273	0.40	0.014	0.38	13880
H571049	208 273	0.84	0.025	1.20	14080
H571050	208 273	0.39	0.012	0.41	13780
H571051	208 273	0.37	0.023	0.51	13700
H571052	208 273	0.30	0.025	0.31	13340
H571053	208 273	0.19	0.028	0.24	13420
H571054	208 273	0.21	0.151	0.27	12360
H571055	208 273	0.31	0.032	0.34	12700
H571056	208 273	0.19	0.124	1.03	12620
H571057	208 273	0.33	0.042	0.41	13040
H571058	208 273	0.26	0.154	0.14	13050
H571059	208 273	0.39	0.033	0.31	13660
H571060	208 273	0.15	0.103	0.10	13860
H571061	208 273	0.32	0.166	0.21	13340
H571062	208 273	0.27	0.022	0.21	14420
H571063	208 273	0.42	0.018	0.38	13800
H571064	208 273	0.28	0.030	0.24	12860
H571065	208 273	0.19	0.061	0.41	13400
H571066	208 273	0.31	0.059	0.34	14080
H571067	208 273	0.33	0.068	0.34	14480
H571068	208 273	0.38	0.034	0.62	14100
H571069	208 273	0.32	0.034	0.55	13780
H571070	208 273	0.20	0.047	0.27	13860
H571071	208 273	0.46	0.073	0.79	13040
H571072	208 273	0.30	0.042	0.34	12640
H571073	208 273	0.26	0.034	0.41	15380
H571074	208 273	0.19	0.087	0.27	12760
H571075	208 273	0.20	0.024	0.17	13360
H571076	208 273	0.31	0.013	0.48	13700
H571077	208 273	0.23	0.024	0.38	13900

CERTIFICATION: JChrstie

For Cu% for sample H571046,H571047

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CERTIFICATE OF ANALYSIS A9318445

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H571078	208 273	0.22	0.008	0.24	13520
H571079	208 273	0.20	0.033	0.24	13700
H571080	208 273	0.07	0.015	0.27	13740
H571081	208 273	0.23	0.017	0.27	13440
H571082	208 273	0.10	0.014	0.14	13080
H571083	208 273	0.25	0.021	0.27	12800
H571084	208 273	0.20	0.031	0.31	12960
H571085	208 273	0.18	0.026	0.21	12440
H571086	208 276	0.16	0.013	0.24	11550
H571087	208 276	0.17	0.027	0.21	11400
H571088	208 273	0.20	0.010	0.34	12180
H571089	208 273	0.19	0.034	0.17	12700
H571090	208 273	0.19	0.012	0.17	12160
H571091	208 273	0.15	0.034	0.21	12220
H571092	208 276	0.18	0.014	0.34	11720
H571093	208 273	0.19	0.014	0.65	12460
H571094	208 276	0.14	0.015	0.24	10020
H571095	208 273	0.14	0.011	0.62	12120
H571096	208 276	0.16	0.006	0.51	11060
H571097	208 276	0.21	0.017	0.45	11020
H571098	208 276	0.13	0.017	0.17	11540
H571099	208 276	0.15	0.046	0.24	11300
H571100	208 276	0.13	0.017	0.21	11520
H571101	208 276	0.11	0.036	0.24	11620
H571102	208 273	0.16	0.046	0.24	11960
H571103	208 276	0.14	0.015	0.14	11220
H571104	208 276	0.08	0.015	0.17	11720
H571105	208 273	0.10	0.010	0.10	12700
H571106	208 273	0.16	0.020	0.17	11860
H571107	208 273	0.16	0.016	0.27	11920
H571108	208 273	0.18	0.013	0.31	11860
H571109	208 273	0.17	0.030	0.24	12000
H571110	208 273	0.10	0.013	0.21	12160

CERTIFICATION: A Chrétien

For Cu% for sample H571046,H571047

Chemex Labs Ltd.

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Account :FC

CERTIFICATE OF ANALYSIS A9318446

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B570958	299	229	1.4	0.50	14	280	< 0.5	4	0.01	< 0.5	< 1	112	47	2.03	< 10	< 1	0.53	20	0.04	10	32
B570959	299	229	1.6	0.41	4	280	< 0.5	6	0.01	< 0.5	< 1	121	46	1.96	< 10	< 1	0.46	20	0.03	15	54
B570960	299	229	1.4	0.50	10	330	< 0.5	4	0.01	< 0.5	< 1	117	38	2.23	< 10	< 1	0.58	20	0.04	15	48
B570961	299	229	1.2	0.52	12	280	< 0.5	6	0.01	< 0.5	< 1	127	55	2.40	< 10	< 1	0.52	20	0.06	20	48
B570962	299	229	0.8	0.49	12	220	< 0.5	4	0.01	< 0.5	< 1	123	87	2.74	< 10	< 1	0.58	20	0.04	15	33
B570963	299	229	0.8	0.37	6	310	< 0.5	4	< 0.01	< 0.5	< 1	94	44	2.48	< 10	< 1	0.53	20	0.03	10	19
B570964	299	229	1.2	0.38	10	220	< 0.5	2	0.01	< 0.5	< 1	102	49	1.92	< 10	< 1	0.45	20	0.04	15	13
B570965	299	229	1.2	0.39	14	260	< 0.5	4	0.01	< 0.5	2	56	312	3.41	< 10	< 1	0.49	10	0.04	105	25
B570966	299	229	1.0	0.34	14	210	< 0.5	2	0.01	< 0.5	< 1	88	54	2.57	< 10	< 1	0.55	10	0.03	15	18
B570967	299	229	1.2	0.39	8	250	< 0.5	4	0.01	< 0.5	1	72	200	2.94	< 10	< 1	0.47	10	0.03	75	25
B570968	299	229	1.2	0.81	6	390	< 0.5	2	0.01	< 0.5	3	98	652	4.36	< 10	< 1	0.52	20	0.11	220	17
B570969	299	229	1.2	0.68	16	340	< 0.5	4	0.01	< 0.5	1	102	224	2.75	< 10	< 1	0.61	20	0.08	35	16
B570970	299	229	0.8	0.78	6	320	< 0.5	4	0.01	< 0.5	3	121	360	4.17	< 10	< 1	0.63	20	0.09	115	15
B570971	299	229	1.6	0.63	6	400	< 0.5	2	0.01	< 0.5	3	95	327	3.02	< 10	< 1	0.51	20	0.08	105	52
B570972	299	229	0.8	0.65	4	270	< 0.5	2	0.01	< 0.5	3	93	419	3.74	< 10	< 1	0.62	10	0.09	55	20
B570973	299	229	1.2	0.84	2	330	< 0.5	4	0.01	< 0.5	2	102	323	3.80	< 10	< 1	0.64	20	0.15	60	18
B570974	299	229	1.2	0.90	14	430	< 0.5	4	0.01	< 0.5	5	111	486	3.55	< 10	< 1	0.58	30	0.16	100	13
B570975	299	229	1.2	0.66	12	290	< 0.5	8	0.01	< 0.5	4	102	442	4.55	< 10	< 1	0.66	20	0.08	140	19
B570976	299	229	0.6	1.08	12	400	< 0.5	2	0.01	< 0.5	4	116	457	4.19	< 10	< 1	0.58	10	0.21	155	26
B570977	299	229	0.6	0.87	< 2	460	< 0.5	2	0.01	< 0.5	3	117	343	3.76	< 10	< 1	0.57	30	0.13	95	13
B570978	299	229	1.2	0.76	12	400	< 0.5	< 2	0.01	< 0.5	2	79	307	3.14	< 10	< 1	0.61	20	0.12	105	31
B570979	299	229	0.8	0.80	8	360	< 0.5	< 2	0.01	< 0.5	3	60	407	3.57	< 10	< 1	0.58	20	0.19	170	81
B570980	299	229	1.0	0.66	4	350	< 0.5	< 2	< 0.01	< 0.5	4	79	364	3.10	< 10	< 1	0.56	20	0.13	70	42
B570981	299	229	1.2	0.87	6	430	< 0.5	< 2	0.01	< 0.5	4	60	596	3.96	< 10	< 1	0.57	30	0.20	95	25
B570982	299	229	1.4	0.72	8	460	< 0.5	6	0.01	< 0.5	6	84	710	3.76	< 10	< 1	0.51	20	0.09	130	39
B570983	299	229	1.8	0.66	12	380	< 0.5	2	0.01	< 0.5	2	114	273	2.64	< 10	< 1	0.57	20	0.07	35	38
B570984	299	229	1.4	0.76	14	220	< 0.5	< 2	< 0.01	< 0.5	1	109	84	3.75	< 10	< 1	0.80	20	0.08	45	42
B570985	299	229	1.2	0.60	6	160	< 0.5	< 2	< 0.01	< 0.5	< 1	68	39	3.32	< 10	< 1	0.74	20	0.06	10	28
B570986	299	229	1.8	0.75	36	170	< 0.5	2	< 0.01	< 0.5	1	101	414	4.24	< 10	< 1	0.65	20	0.08	60	105
B570987	299	229	2.2	0.60	18	170	< 0.5	6	0.01	< 0.5	< 1	121	191	3.55	< 10	< 1	0.67	30	0.06	25	147
B570988	299	229	1.8	0.85	18	390	< 0.5	< 2	0.01	< 0.5	3	128	345	4.37	< 10	< 1	0.72	20	0.11	65	84
B570989	299	229	1.2	0.76	< 2	260	< 0.5	< 2	0.01	< 0.5	5	105	404	4.93	< 10	< 1	0.74	20	0.11	105	30
B570990	299	229	0.6	1.02	2	320	< 0.5	< 2	0.01	< 0.5	10	106	483	4.19	< 10	< 1	0.64	20	0.23	80	25
B570991	299	229	1.2	1.07	2	270	< 0.5	< 2	0.01	< 0.5	7	88	811	5.24	< 10	< 1	0.80	20	0.26	95	231
B570992	299	229	1.0	0.82	4	260	< 0.5	< 2	0.01	< 0.5	4	109	542	3.89	< 10	< 1	0.67	20	0.22	70	50
B570993	299	229	1.4	0.73	8	340	< 0.5	< 2	0.01	< 0.5	4	95	471	3.19	< 10	< 1	0.57	20	0.17	60	149
B570994	299	229	1.0	0.93	6	240	< 0.5	< 2	0.01	< 0.5	10	88	871	3.68	< 10	< 1	0.58	20	0.22	120	60
B570995	299	229	1.2	0.87	18	150	< 0.5	6	0.16	< 0.5	19	100	1475	3.10	< 10	< 1	0.42	20	0.19	145	34
B570996	299	229	1.2	1.15	6	190	< 0.5	2	0.40	< 0.5	24	73	1375	2.86	< 10	< 1	0.54	20	0.55	220	44
B570997	299	229	1.4	1.25	4	80	< 0.5	2	0.30	< 0.5	21	58	2360	3.89	< 10	< 1	0.64	10	0.67	165	38

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 178
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 15-AUG-93
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570958	299	229	0.01	1	210	12	< 2	< 1	8	< 0.01	< 10	< 10	7	< 10	8
H570959	299	229	0.01	2	200	12	< 2	< 1	11	< 0.01	< 10	< 10	7	10	10
H570960	299	229	0.02	1	150	12	< 2	< 1	6	< 0.01	< 10	< 10	7	< 10	12
H570961	299	229	0.02	< 1	180	14	< 2	< 1	6	< 0.01	< 10	< 10	12	10	16
H570962	299	229	0.02	1	280	12	< 2	< 1	7	< 0.01	< 10	< 10	12	< 10	14
H570963	299	229	0.02	2	230	14	< 2	< 1	7	< 0.01	< 10	< 10	8	< 10	8
H570964	299	229	0.01	2	180	10	< 2	< 1	7	< 0.01	< 10	< 10	7	< 10	8
H570965	299	229	0.01	2	370	16	< 2	< 1	10	< 0.01	< 10	< 10	14	< 10	24
H570966	299	229	0.02	1	270	14	< 2	< 1	9	< 0.01	< 10	< 10	7	< 10	8
H570967	299	229	0.02	2	300	20	< 2	1	10	< 0.01	< 10	< 10	12	< 10	24
H570968	299	229	0.02	2	460	30	< 2	2	12	< 0.01	< 10	< 10	32	< 10	42
H570969	299	229	0.02	1	360	24	< 2	1	13	< 0.01	< 10	< 10	15	< 10	22
H570970	299	229	0.02	3	550	16	< 2	2	16	< 0.01	< 10	< 10	27	< 10	40
H570971	299	229	0.02	2	390	8	< 2	2	16	< 0.01	< 10	< 10	18	< 10	40
H570972	299	229	0.02	2	450	6	< 2	2	15	< 0.01	< 10	< 10	18	< 10	32
H570973	299	229	0.02	1	350	8	< 2	2	15	0.01	< 10	< 10	23	< 10	32
H570974	299	229	0.02	2	380	12	< 2	2	15	< 0.01	< 10	< 10	23	< 10	44
H570975	299	229	0.02	2	450	14	< 2	2	16	< 0.01	< 10	< 10	19	< 10	36
H570976	299	229	0.02	3	360	12	< 2	2	15	0.01	< 10	< 10	34	< 10	40
H570977	299	229	0.02	2	370	12	< 2	2	15	< 0.01	< 10	< 10	25	< 10	34
H570978	299	229	0.02	3	480	14	< 2	3	17	< 0.01	< 10	< 10	19	< 10	26
H570979	299	229	0.02	1	380	12	< 2	2	15	0.01	< 10	< 10	24	< 10	38
H570980	299	229	0.02	2	360	12	< 2	1	16	< 0.01	< 10	< 10	16	< 10	28
H570981	299	229	0.02	3	420	12	< 2	3	16	0.01	< 10	< 10	28	< 10	40
H570982	299	229	0.02	2	500	18	< 2	2	15	< 0.01	< 10	< 10	17	< 10	54
H570983	299	229	0.02	2	330	12	< 2	2	15	< 0.01	< 10	< 10	13	< 10	26
H570984	299	229	0.02	1	220	8	< 2	1	13	< 0.01	< 10	< 10	11	< 10	26
H570985	299	229	0.02	1	230	12	< 2	1	11	< 0.01	< 10	< 10	8	< 10	8
H570986	299	229	0.02	1	550	14	< 2	1	11	< 0.01	< 10	< 10	10	< 10	26
H570987	299	229	0.02	1	670	14	< 2	1	11	< 0.01	< 10	< 10	10	< 10	14
H570988	299	229	0.03	1	530	22	< 2	2	16	< 0.01	< 10	< 10	21	< 10	42
H570989	299	229	0.03	2	540	8	< 2	2	17	0.01	< 10	< 10	25	< 10	42
H570990	299	229	0.02	2	420	10	< 2	2	12	0.01	< 10	< 10	28	< 10	40
H570991	299	229	0.02	2	620	12	< 2	2	22	0.01	< 10	< 10	30	< 10	44
H570992	299	229	0.02	2	290	14	< 2	2	14	0.02	< 10	< 10	26	< 10	38
H570993	299	229	0.02	3	470	14	< 2	2	13	< 0.01	< 10	< 10	19	< 10	40
H570994	299	229	0.02	3	490	16	< 2	2	13	0.01	< 10	< 10	24	< 10	46
H570995	299	229	0.01	4	370	14	< 2	1	10	< 0.01	< 10	< 10	15	< 10	40
H570996	299	229	0.02	3	510	8	< 2	2	13	0.02	< 10	< 10	23	< 10	46
H570997	299	229	0.02	4	390	10	< 2	3	10	0.03	< 10	< 10	28	< 10	46

CERTIFICATION: Stewart Bachlet

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B570998	299	229	2.0	0.99	12	140	< 0.5	2	0.07	< 0.5	17	56	4030	5.45	< 10	< 1	0.33	20	0.12	80	334
B570999	299	229	3.2	1.02	4	120	< 0.5	4	0.13	0.5	29	64	4370	4.19	< 10	< 1	0.43	10	0.18	125	136
B571000	299	229	2.6	0.65	4	90	< 0.5	< 2	0.20	0.5	30	50	3390	3.89	< 10	< 1	0.32	10	0.23	145	69
B571001	299	229	4.0	0.86	4	80	< 0.5	4	0.10	0.5	24	61	3190	3.56	< 10	< 1	0.36	10	0.26	145	130
B571002	299	229	2.4	0.66	22	10	< 0.5	10	0.08	< 0.5	31	34	4580	6.35	< 10	< 1	0.27	10	0.09	30	168
B571003	299	229	2.2	0.74	20	10	< 0.5	20	0.08	< 0.5	16	33	2770	8.03	< 10	< 1	0.21	10	0.06	15	86
B571004	299	229	2.2	0.66	18	30	< 0.5	20	0.08	< 0.5	9	30	2800	3.02	< 10	< 1	0.17	20	0.04	10	26
B571005	299	229	2.2	1.02	20	40	< 0.5	< 2	0.11	< 0.5	15	52	3320	2.81	< 10	< 1	0.26	20	0.09	55	108
B571006	299	229	3.6	0.80	14	40	< 0.5	4	0.15	< 0.5	17	52	5340	3.91	< 10	< 1	0.27	20	0.08	70	504
B571007	299	229	1.2	1.38	16	120	< 0.5	2	1.27	< 0.5	10	47	1120	2.80	10	< 1	0.23	20	0.99	375	21
B571008	299	229	1.4	1.37	8	100	< 0.5	< 2	0.88	< 0.5	12	36	1680	3.50	10	< 1	0.28	20	0.81	340	53
B571009	299	229	7.0	1.16	10	40	< 0.5	6	0.05	< 0.5	15	76	6890	2.19	< 10	< 1	0.33	20	0.09	25	150
B571010	299	229	2.6	1.29	20	130	< 0.5	< 2	0.02	< 0.5	12	75	4180	1.54	< 10	< 1	0.36	20	0.17	25	157
B571011	299	229	2.4	1.27	8	100	< 0.5	< 2	0.05	< 0.5	18	92	4270	2.13	< 10	< 1	0.39	20	0.19	75	546
B571012	299	229	2.2	1.00	4	70	< 0.5	< 2	0.02	< 0.5	12	72	3630	2.10	< 10	< 1	0.29	20	0.10	15	118
B571013	299	229	4.2	1.01	24	30	< 0.5	4	0.02	< 0.5	13	86	3460	3.86	< 10	< 1	0.31	20	0.07	20	321
B571014	299	229	1.4	0.82	12	50	< 0.5	< 2	0.05	< 0.5	12	60	2310	4.08	< 10	< 1	0.31	20	0.07	50	91
B571015	299	229	1.8	0.88	2	40	< 0.5	< 2	0.08	< 0.5	19	65	1975	2.96	< 10	< 1	0.29	10	0.10	35	90
B571016	299	229	1.0	1.12	8	60	< 0.5	< 2	0.24	< 0.5	15	39	1750	4.21	< 10	< 1	0.20	20	0.59	335	18
B571017	299	229	1.4	0.52	8	20	< 0.5	< 2	0.08	< 0.5	17	62	2170	5.11	< 10	< 1	0.25	10	0.09	90	123
B571018	299	229	1.4	0.75	6	40	< 0.5	< 2	0.07	< 0.5	19	57	2730	4.01	< 10	< 1	0.24	10	0.06	40	138
B571019	299	229	1.6	0.42	< 2	60	< 0.5	< 2	0.10	< 0.5	18	54	2520	3.53	< 10	< 1	0.22	10	0.09	80	91
B571020	299	229	4.0	0.58	12	50	< 0.5	< 2	0.02	0.5	14	50	4210	2.01	< 10	< 1	0.17	20	0.03	15	243
B571021	299	229	2.2	0.64	12	60	< 0.5	< 2	0.06	< 0.5	14	80	2590	3.40	< 10	< 1	0.24	20	0.07	80	183
B571022	299	229	1.4	0.48	2	40	< 0.5	< 2	0.05	< 0.5	14	62	2220	3.57	< 10	< 1	0.22	10	0.06	55	78
B571023	299	229	1.6	0.71	2	50	< 0.5	< 2	0.06	< 0.5	18	76	2140	3.73	< 10	< 1	0.26	10	0.08	270	195
B571024	299	229	2.0	0.75	12	70	< 0.5	< 2	0.11	< 0.5	33	67	3140	4.78	< 10	< 1	0.31	< 10	0.10	135	162
B571025	299	229	0.8	0.43	10	30	< 0.5	2	0.10	< 0.5	47	47	1975	4.96	< 10	< 1	0.23	< 10	0.07	65	140
B571026	299	229	1.4	0.66	26	30	< 0.5	2	0.09	< 0.5	33	60	2550	5.66	< 10	< 1	0.28	< 10	0.06	65	132
B571027	299	229	2.4	0.94	14	30	< 0.5	4	0.10	< 0.5	52	78	3860	5.18	< 10	< 1	0.35	< 10	0.07	50	119
B571028	299	229	1.2	0.76	12	30	< 0.5	8	0.11	< 0.5	54	71	2170	6.12	< 10	< 1	0.30	< 10	0.08	60	208
B571029	299	229	0.6	0.52	2	40	< 0.5	2	0.09	< 0.5	51	77	1220	4.62	< 10	< 1	0.22	< 10	0.08	85	136
B571030	299	229	1.6	0.40	16	40	< 0.5	10	0.09	< 0.5	37	54	2580	5.00	< 10	< 1	0.17	< 10	0.08	110	92
B571031	299	229	1.8	0.61	6	50	< 0.5	6	0.07	< 0.5	31	60	2950	4.40	< 10	< 1	0.19	< 10	0.07	105	117
B571032	299	229	0.6	0.48	18	30	< 0.5	2	0.09	< 0.5	30	58	1640	5.25	< 10	< 1	0.20	< 10	0.09	85	122
B571033	299	229	1.6	0.53	< 2	30	< 0.5	16	0.09	< 0.5	26	63	1875	4.79	< 10	< 1	0.29	< 10	0.16	100	61
B571034	299	229	2.2	0.62	12	20	< 0.5	14	0.12	< 0.5	22	67	3290	5.03	< 10	< 1	0.31	10	0.19	135	736
B571035	299	229	5.0	0.65	32	20	< 0.5	10	0.10	< 0.5	32	91	6280	5.33	< 10	< 1	0.29	10	0.14	160	429
B571036	299	229	3.4	0.82	4	20	< 0.5	12	0.10	< 0.5	19	97	2000	4.47	< 10	< 1	0.29	10	0.12	125	48
B571037	299	229	1.4	0.69	6	30	< 0.5	< 2	0.09	< 0.5	20	78	1565	3.80	< 10	< 1	0.30	20	0.11	155	107

CERTIFICATION: Stewart Buchler

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CERTIFICATE OF ANALYSIS A9318446

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H570998	299	229	0.01	6	390	8	2	2	9	< 0.01	< 10	< 10	33	< 10	44
H570999	299	229	0.01	3	470	8	< 2	1	7	< 0.01	< 10	< 10	23	< 10	38
H571000	299	229	0.01	3	470	8	2	1	7	< 0.01	< 10	< 10	21	< 10	38
H571001	299	229	0.01	4	450	16	< 2	1	8	< 0.01	< 10	< 10	21	< 10	58
H571002	299	229	0.01	3	550	10	< 2	1	7	< 0.01	< 10	< 10	17	< 10	16
H571003	299	229	< 0.01	5	770	14	< 2	2	16	< 0.01	< 10	< 10	11	< 10	14
H571004	299	229	< 0.01	5	820	20	< 2	2	13	< 0.01	< 10	10	9	< 10	30
H571005	299	229	0.01	6	690	12	2	2	13	< 0.01	< 10	10	18	< 10	24
H571006	299	229	0.01	2	610	10	< 2	1	14	< 0.01	< 10	< 10	13	< 10	34
H571007	299	229	0.03	6	1040	6	< 2	2	44	0.02	< 10	< 10	26	< 10	46
H571008	299	229	0.02	7	1080	4	< 2	2	41	< 0.01	< 10	< 10	24	< 10	44
H571009	299	229	0.01	2	530	8	2	2	15	< 0.01	< 10	< 10	16	< 10	12
H571010	299	229	0.01	4	550	10	< 2	3	12	< 0.01	< 10	10	22	< 10	16
H571011	299	229	0.01	2	440	12	4	2	7	< 0.01	< 10	< 10	22	< 10	18
H571012	299	229	0.01	3	430	14	< 2	2	11	< 0.01	< 10	< 10	16	< 10	12
H571013	299	229	0.01	5	480	28	< 2	3	11	< 0.01	< 10	10	13	< 10	42
H571014	299	229	0.01	3	400	6	< 2	1	8	< 0.01	< 10	< 10	19	< 10	12
H571015	299	229	0.01	4	610	12	< 2	1	10	< 0.01	< 10	< 10	15	< 10	12
H571016	299	229	0.02	5	920	6	< 2	1	15	< 0.01	< 10	< 10	19	< 10	38
H571017	299	229	0.01	3	400	6	< 2	1	8	< 0.01	< 10	< 10	13	< 10	10
H571018	299	229	0.01	3	520	6	< 2	1	8	< 0.01	< 10	< 10	18	< 10	12
H571019	299	229	0.01	4	420	6	< 2	1	7	< 0.01	< 10	< 10	15	< 10	14
H571020	299	229	0.01	3	480	22	4	1	9	< 0.01	< 10	< 10	7	< 10	36
H571021	299	229	0.01	4	380	8	2	1	9	< 0.01	< 10	10	20	< 10	16
H571022	299	229	0.01	2	360	8	< 2	1	6	< 0.01	< 10	< 10	11	< 10	12
H571023	299	229	0.01	1	410	8	2	1	6	< 0.01	< 10	10	14	< 10	14
H571024	299	229	0.01	2	470	10	< 2	1	7	< 0.01	< 10	< 10	17	< 10	18
H571025	299	229	0.01	2	400	4	< 2	< 1	6	< 0.01	< 10	< 10	8	< 10	8
H571026	299	229	0.01	2	530	12	< 2	1	9	< 0.01	< 10	< 10	9	< 10	12
H571027	299	229	0.01	2	530	8	< 2	1	11	< 0.01	< 10	< 10	12	< 10	12
H571028	299	229	0.01	2	510	4	< 2	1	9	< 0.01	< 10	< 10	15	< 10	10
H571029	299	229	0.01	2	320	2	< 2	< 1	4	< 0.01	< 10	< 10	11	< 10	14
H571030	299	229	< 0.01	2	330	< 2	< 2	< 1	4	< 0.01	< 10	< 10	10	< 10	16
H571031	299	229	0.01	2	450	8	< 2	1	6	< 0.01	< 10	< 10	12	< 10	16
H571032	299	229	< 0.01	3	420	4	< 2	1	8	< 0.01	< 10	< 10	10	< 10	14
H571033	299	229	0.01	3	330	4	< 2	2	5	< 0.01	< 10	< 10	16	< 10	16
H571034	299	229	0.01	3	450	6	4	3	6	< 0.01	< 10	10	24	< 10	24
H571035	299	229	0.01	7	490	6	2	1	9	< 0.01	< 10	< 10	14	< 10	20
H571036	299	229	0.01	4	520	12	2	2	10	< 0.01	< 10	< 10	16	< 10	20
H571037	299	229	0.01	1	420	6	< 2	1	11	< 0.01	< 10	< 10	13	< 10	16

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
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Project : CASINO 178
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9318446

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H571038	299	229	1.6	1.30	8	80	< 0.5	2	0.07	< 0.5	26	147	2430	3.01	< 10	< 1	0.62	10	0.44	80	137
H571039	299	229	1.6	1.36	4	110	< 0.5	< 2	0.14	< 0.5	25	112	1725	3.67	< 10	< 1	0.78	20	0.70	235	36
H571040	299	229	1.6	1.42	6	70	< 0.5	2	0.06	< 0.5	23	128	3250	2.81	< 10	< 1	0.48	30	0.26	35	183
H571041	299	229	1.0	0.97	8	30	< 0.5	< 2	0.14	< 0.5	26	113	1585	4.69	< 10	< 1	0.48	10	0.33	255	125
H571042	299	229	0.8	1.31	14	40	< 0.5	8	0.17	< 0.5	27	97	1300	3.95	< 10	< 1	0.67	10	0.76	185	106
H571043	299	229	0.8	0.99	10	50	< 0.5	4	0.16	< 0.5	31	80	1525	3.86	< 10	< 1	0.47	20	0.43	195	229
H571044	299	229	1.0	0.75	< 2	70	< 0.5	< 2	0.10	< 0.5	22	106	2020	2.21	< 10	< 1	0.23	20	0.09	125	162
H571045	299	229	1.0	0.91	12	70	< 0.5	< 2	0.11	< 0.5	29	108	1715	2.25	< 10	< 1	0.27	30	0.16	160	31
H571046	299	229	1.2	0.53	4	10	< 0.5	8	0.08	< 0.5	29	153	2560	5.56	< 10	< 1	0.32	< 10	0.10	95	86
H571047	299	229	1.4	0.51	< 2	30	< 0.5	< 2	0.05	< 0.5	32	122	3850	4.30	< 10	< 1	0.25	< 10	0.06	20	162
H571048	299	229	2.0	0.81	30	30	< 0.5	12	0.11	< 0.5	74	143	4240	4.43	< 10	< 1	0.37	< 10	0.14	145	80
H571049	299	229	3.8	0.66	16	20	< 0.5	4	0.12	0.5	45	111	8770	5.99	< 10	1	0.32	< 10	0.23	230	144
H571050	299	229	1.8	0.78	12	20	< 0.5	12	0.12	0.5	42	120	3920	8.03	< 10	< 1	0.28	< 10	0.23	310	65
H571051	299	229	1.8	0.60	46	40	< 0.5	10	0.16	1.0	58	108	3830	6.87	< 10	< 1	0.22	< 10	0.34	815	150
H571052	299	229	1.8	1.04	30	20	< 0.5	2	0.08	< 0.5	39	129	3200	4.26	< 10	< 1	0.30	< 10	0.12	185	152
H571053	299	229	0.8	0.56	10	70	< 0.5	4	0.09	< 0.5	17	128	2080	3.17	< 10	< 1	0.27	< 10	0.12	150	169
H571054	299	229	1.2	0.87	6	70	< 0.5	6	0.10	< 0.5	18	148	2250	2.13	< 10	< 1	0.24	20	0.06	55	1035
H571055	299	229	1.6	0.68	6	70	< 0.5	< 2	0.13	< 0.5	20	120	3580	2.81	< 10	< 1	0.28	10	0.09	180	225
H571056	299	229	1.4	0.66	< 2	60	< 0.5	< 2	0.06	< 0.5	23	146	2110	2.44	< 10	< 1	0.21	10	0.04	15	867
H571057	299	229	2.2	0.53	< 2	40	< 0.5	< 2	0.08	< 0.5	21	96	3530	2.63	< 10	< 1	0.17	10	0.03	15	291
H571058	299	229	1.8	0.25	2	30	< 0.5	< 2	0.09	< 0.5	32	62	2870	4.15	< 10	< 1	0.11	< 10	0.02	45	1030
H571059	299	229	3.0	0.39	< 2	40	< 0.5	4	0.07	< 0.5	29	102	4180	3.65	< 10	1	0.19	< 10	0.03	20	222
H571060	299	229	1.4	0.36	< 2	30	< 0.5	6	0.07	< 0.5	26	136	1690	4.13	< 10	< 1	0.21	< 10	0.03	15	672
H571061	299	229	2.8	0.33	< 2	50	< 0.5	2	0.07	< 0.5	20	82	3550	2.76	< 10	< 1	0.16	10	0.03	10	1080
H571062	299	229	2.8	0.43	< 2	20	< 0.5	12	0.08	< 0.5	29	131	2900	4.51	< 10	< 1	0.24	10	0.03	10	136
H571063	299	229	4.8	0.45	< 2	30	< 0.5	28	0.08	0.5	29	120	4550	4.07	< 10	< 1	0.23	10	0.04	10	105
H571064	299	229	2.0	0.49	< 2	10	< 0.5	6	0.08	< 0.5	33	116	2860	5.37	< 10	< 1	0.23	< 10	0.03	10	178
H571065	299	229	3.6	0.70	< 2	20	< 0.5	12	0.11	0.5	33	133	2170	5.45	< 10	< 1	0.31	10	0.09	110	405
H571066	299	229	1.4	0.93	< 2	40	< 0.5	< 2	0.09	< 0.5	46	141	3250	4.36	< 10	< 1	0.49	10	0.29	170	371
H571067	299	229	2.0	0.67	< 2	10	< 0.5	< 2	0.10	< 0.5	47	144	3670	5.53	< 10	< 1	0.38	< 10	0.11	80	443
H571068	299	229	2.0	0.68	4	10	< 0.5	6	0.10	< 0.5	33	138	4120	7.61	< 10	< 1	0.40	10	0.14	150	209
H571069	299	229	2.0	0.28	< 2	30	< 0.5	6	0.08	< 0.5	23	89	3420	6.93	< 10	2	0.21	< 10	0.16	155	218
H571070	299	229	2.8	0.33	6	20	< 0.5	6	0.09	< 0.5	28	107	2180	5.56	< 10	< 1	0.22	10	0.07	95	273
H571071	299	229	3.6	0.43	12	10	< 0.5	10	0.09	< 0.5	33	90	4830	7.46	< 10	< 1	0.21	< 10	0.14	275	452
H571072	299	229	1.6	0.43	< 2	10	< 0.5	4	0.08	0.5	54	95	3040	6.69	< 10	< 1	0.19	< 10	0.09	170	251
H571073	299	229	1.4	0.46	< 2	20	< 0.5	4	0.09	< 0.5	47	113	2740	5.88	< 10	< 1	0.27	< 10	0.18	245	215
H571074	299	229	1.4	0.48	< 2	40	< 0.5	< 2	0.12	< 0.5	47	114	1955	4.10	< 10	< 1	0.30	< 10	0.16	155	480
H571075	299	229	1.4	0.45	2	40	< 0.5	12	0.11	< 0.5	29	102	2150	4.09	< 10	< 1	0.25	< 10	0.15	190	155
H571076	299	229	1.6	0.83	< 2	30	< 0.5	2	0.11	< 0.5	37	123	3100	5.81	< 10	< 1	0.54	< 10	0.47	210	83
H571077	299	229	1.4	0.44	14	40	< 0.5	4	0.09	< 0.5	36	107	2300	4.06	< 10	< 1	0.21	< 10	0.08	145	155

CERTIFICATION: Stewart Buchholz

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A571038	299	229	0.01	6	470	8	< 2	3	12	0.03	< 10	10	36	< 10	16
A571039	299	229	0.02	4	410	12	< 2	3	9	0.04	< 10	< 10	37	< 10	32
A571040	299	229	0.01	4	590	16	2	3	31	0.01	< 10	< 10	27	< 10	14
A571041	299	229	0.01	4	480	14	< 2	3	7	0.01	< 10	10	25	< 10	32
A571042	299	229	0.02	3	430	12	< 2	4	12	0.04	< 10	10	42	< 10	26
A571043	299	229	0.01	2	470	14	2	4	6	0.02	< 10	< 10	33	< 10	22
A571044	299	229	0.01	4	460	4	< 2	3	12	< 0.01	< 10	10	20	< 10	18
A571045	299	229	0.01	3	560	20	< 2	4	26	< 0.01	< 10	10	28	< 10	26
A571046	299	229	0.01	4	250	8	< 2	1	8	< 0.01	< 10	< 10	12	< 10	12
A571047	299	229	0.01	3	250	6	< 2	1	13	< 0.01	< 10	< 10	7	< 10	4
A571048	299	229	0.01	6	380	12	< 2	< 1	13	< 0.01	< 10	10	11	< 10	10
A571049	299	229	0.01	5	360	2	< 2	1	10	< 0.01	< 10	< 10	12	< 10	14
A571050	299	229	0.01	6	380	30	2	1	13	< 0.01	< 10	< 10	16	< 10	20
A571051	299	229	0.01	4	330	14	8	1	10	< 0.01	< 10	< 10	23	< 10	40
A571052	299	229	0.01	6	480	< 2	4	1	27	< 0.01	< 10	10	16	< 10	22
A571053	299	229	0.01	6	350	6	2	1	16	< 0.01	< 10	10	15	< 10	16
A571054	299	229	0.01	3	530	18	6	3	24	< 0.01	< 10	10	25	10	22
A571055	299	229	0.01	4	570	12	4	2	10	< 0.01	< 10	< 10	22	10	22
A571056	299	229	0.01	4	490	10	4	1	68	< 0.01	< 10	< 10	10	< 10	10
A571057	299	229	0.01	3	500	12	2	1	62	< 0.01	< 10	< 10	6	< 10	8
A571058	299	229	< 0.01	3	410	4	6	< 1	19	< 0.01	< 10	< 10	6	< 10	6
A571059	299	229	0.01	4	310	10	< 2	< 1	10	< 0.01	< 10	< 10	6	< 10	8
A571060	299	229	0.01	4	280	8	4	< 1	9	< 0.01	< 10	< 10	6	< 10	8
A571061	299	229	< 0.01	2	300	16	6	< 1	19	< 0.01	< 10	10	7	< 10	8
A571062	299	229	0.01	3	320	6	2	< 1	12	< 0.01	< 10	< 10	5	< 10	12
A571063	299	229	0.01	6	400	20	< 2	1	33	< 0.01	< 10	< 10	5	< 10	14
A571064	299	229	0.01	6	380	12	< 2	1	37	< 0.01	< 10	10	5	10	12
A571065	299	229	0.01	6	520	20	6	2	55	< 0.01	< 10	< 10	11	10	34
A571066	299	229	0.01	4	350	8	< 2	2	12	0.01	< 10	< 10	28	10	22
A571067	299	229	0.01	6	380	58	2	1	11	< 0.01	< 10	< 10	14	10	10
A571068	299	229	0.01	8	360	12	< 2	1	8	< 0.01	< 10	< 10	19	< 10	10
A571069	299	229	0.01	5	230	4	< 2	< 1	4	< 0.01	< 10	< 10	16	< 10	14
A571070	299	229	0.01	6	350	6	< 2	< 1	6	< 0.01	< 10	< 10	7	< 10	8
A571071	299	229	< 0.01	7	300	16	4	1	5	< 0.01	< 10	< 10	13	< 10	28
A571072	299	229	0.01	10	290	12	2	1	4	< 0.01	< 10	< 10	11	< 10	16
A571073	299	229	0.01	8	310	4	< 2	1	6	< 0.01	< 10	< 10	18	< 10	16
A571074	299	229	0.01	7	470	6	2	2	7	< 0.01	< 10	< 10	17	< 10	14
A571075	299	229	0.01	4	420	14	2	1	6	< 0.01	< 10	< 10	11	< 10	18
A571076	299	229	0.01	3	410	8	< 2	2	5	0.02	< 10	< 10	25	< 10	22
A571077	299	229	0.01	5	350	6	< 2	1	8	< 0.01	< 10	< 10	11	< 10	16

CERTIFICATION: Jean Pacalle

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R571078	299	229	1.4	0.74	56	60	< 0.5	6	0.17	0.5	47	123	2380	5.15	< 10	< 1	0.24	10	0.28	565	52
R571079	299	229	1.4	0.79	18	20	< 0.5	4	0.14	< 0.5	30	106	2320	5.67	< 10	< 1	0.35	< 10	0.23	365	227
R571080	299	229	3.2	0.40	68	< 10	< 0.5	38	0.18	1.0	40	58	705	11.30	< 10	< 1	0.16	< 10	0.04	110	94
R571081	299	229	1.2	0.79	< 2	40	< 0.5	< 2	0.13	< 0.5	31	129	2590	5.07	< 10	< 1	0.42	< 10	0.20	340	109
R571082	299	229	1.2	0.82	< 2	20	< 0.5	2	0.13	< 0.5	30	127	1085	5.07	< 10	< 1	0.36	10	0.16	195	75
R571083	299	229	1.4	0.79	< 2	10	< 0.5	4	0.11	0.5	41	109	2730	5.96	< 10	< 1	0.32	< 10	0.12	100	137
R571084	299	229	0.8	1.01	< 2	30	< 0.5	6	0.15	< 0.5	55	64	2180	4.96	< 10	< 1	0.41	< 10	0.51	75	175
R571085	299	229	0.8	0.97	< 2	60	< 0.5	6	0.18	< 0.5	63	140	2020	4.59	< 10	< 1	0.33	< 10	0.17	145	167
R571086	299	229	1.0	0.58	4	50	< 0.5	2	0.13	< 0.5	32	60	1705	4.16	< 10	< 1	0.15	20	0.16	330	69
R571087	299	229	1.0	0.70	< 2	10	< 0.5	< 2	0.11	0.5	38	99	1935	5.57	< 10	< 1	0.27	< 10	0.10	20	184
R571088	299	229	0.6	0.54	< 2	20	< 0.5	6	0.10	< 0.5	30	53	2290	6.07	< 10	< 1	0.18	< 10	0.20	40	61
R571089	299	229	0.8	0.63	2	20	< 0.5	< 2	0.12	< 0.5	27	68	2090	4.82	< 10	< 1	0.24	< 10	0.16	50	215
R571090	299	229	0.8	0.73	< 2	30	< 0.5	< 2	0.13	< 0.5	40	107	2030	4.31	< 10	< 1	0.31	10	0.12	270	73
R571091	299	229	1.2	0.56	< 2	10	< 0.5	< 2	0.11	1.0	75	53	1625	6.97	< 10	< 1	0.14	< 10	0.12	50	190
R571092	299	229	1.0	0.87	< 2	20	< 0.5	6	0.14	< 0.5	66	117	1945	5.84	< 10	< 1	0.28	10	0.12	335	82
R571093	299	229	1.6	0.97	< 2	60	< 0.5	4	0.14	0.5	66	153	2130	4.41	< 10	< 1	0.40	20	0.14	420	87
R571094	299	229	2.0	0.35	20	20	< 0.5	4	0.14	< 0.5	48	63	1650	6.57	< 10	< 1	0.18	< 10	0.06	35	88
R571095	299	229	1.4	0.89	< 2	70	< 0.5	2	0.14	< 0.5	47	157	1630	4.32	< 10	< 1	0.38	10	0.15	525	65
R571096	299	229	1.2	0.55	4	50	< 0.5	6	0.14	< 0.5	54	55	1850	4.85	< 10	< 1	0.16	10	0.14	210	40
R571097	299	229	1.8	1.14	< 2	60	< 0.5	8	0.13	0.5	34	116	2200	4.21	< 10	1	0.23	20	0.21	90	101
R571098	299	229	1.4	1.04	< 2	30	< 0.5	6	0.14	0.5	31	99	1515	4.51	< 10	< 1	0.25	30	0.18	110	112
R571099	299	229	1.8	0.64	< 2	60	< 0.5	14	0.15	< 0.5	27	42	1655	3.58	< 10	< 1	0.15	30	0.13	315	255
R571100	299	229	1.2	1.28	6	80	< 0.5	< 2	0.16	< 0.5	23	109	1445	4.45	< 10	< 1	0.32	20	0.27	545	111
R571101	299	229	0.8	1.26	2	50	< 0.5	2	0.15	< 0.5	24	101	1190	4.79	< 10	3	0.48	20	0.34	325	215
R571102	299	229	1.4	0.53	< 2	70	< 0.5	2	0.13	< 0.5	19	60	1765	3.28	< 10	< 1	0.17	20	0.15	480	269
R571103	299	229	1.4	1.20	< 2	30	< 0.5	6	0.14	< 0.5	36	117	1495	4.67	< 10	< 1	0.43	10	0.16	355	88
R571104	299	229	0.8	1.01	< 2	10	< 0.5	12	0.12	< 0.5	39	134	915	4.78	< 10	< 1	0.34	10	0.16	50	82
R571105	299	229	1.2	1.13	2	20	< 0.5	6	0.11	< 0.5	27	201	1055	5.69	< 10	< 1	0.44	10	0.15	130	56
R571106	299	229	2.4	0.59	12	40	< 0.5	12	0.12	< 0.5	26	94	1690	3.47	< 10	< 1	0.19	20	0.12	205	112
R571107	299	229	1.4	1.26	2	20	< 0.5	8	0.13	< 0.5	46	162	1840	5.50	< 10	< 1	0.35	20	0.18	540	94
R571108	299	229	1.6	0.97	2	70	< 0.5	< 2	0.16	< 0.5	27	134	1935	4.20	10	< 1	0.35	50	0.36	690	76
R571109	299	229	1.8	1.23	24	40	< 0.5	< 2	0.15	< 0.5	35	144	1910	4.72	< 10	< 1	0.41	30	0.23	380	188
R571110	299	229	2.0	0.55	22	20	< 0.5	4	0.18	< 0.5	23	101	1105	7.06	< 10	< 1	0.31	10	0.19	235	78

CERTIFICATION: Peter H. Bradshaw

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 178
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 15-AUG-93
Invoice No. :I9318446
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318446

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H571078	299	229	0.01	5	430	6	4	2	9	< 0.01	< 10	< 10	35	10	32
H571079	299	229	0.01	4	410	6	< 2	2	11	< 0.01	< 10	< 10	26	< 10	24
H571080	299	229	< 0.01	3	690	44	< 2	1	21	< 0.01	< 10	< 10	7	< 10	18
H571081	299	229	0.01	4	440	4	4	2	10	< 0.01	< 10	10	21	< 10	20
H571082	299	229	0.01	6	440	4	< 2	3	7	< 0.01	< 10	< 10	19	< 10	20
H571083	299	229	0.01	7	430	4	< 2	2	7	< 0.01	< 10	< 10	14	< 10	20
H571084	299	229	0.01	4	570	4	2	3	5	0.02	< 10	< 10	32	< 10	26
H571085	299	229	0.01	6	690	12	< 2	2	6	< 0.01	< 10	10	25	< 10	22
H571086	299	229	< 0.01	5	460	6	< 2	3	4	< 0.01	< 10	10	24	< 10	36
H571087	299	229	0.01	6	450	8	< 2	1	8	< 0.01	< 10	10	10	< 10	8
H571088	299	229	0.01	2	370	4	< 2	2	6	< 0.01	< 10	< 10	21	< 10	14
H571089	299	229	0.01	3	450	8	< 2	2	8	< 0.01	< 10	10	20	< 10	12
H571090	299	229	0.01	3	490	4	< 2	1	9	< 0.01	< 10	< 10	15	70	18
H571091	299	229	< 0.01	4	400	8	< 2	2	6	< 0.01	< 10	< 10	15	< 10	32
H571092	299	229	0.01	9	540	10	< 2	2	8	< 0.01	< 10	10	19	< 10	32
H571093	299	229	0.01	6	520	8	< 2	2	9	< 0.01	< 10	10	21	< 10	38
H571094	299	229	< 0.01	8	550	40	2	1	10	< 0.01	< 10	30	6	< 10	30
H571095	299	229	0.01	7	540	14	< 2	2	7	< 0.01	< 10	< 10	17	< 10	24
H571096	299	229	< 0.01	4	550	14	< 2	2	5	< 0.01	< 10	10	18	< 10	20
H571097	299	229	0.01	6	520	12	< 2	3	6	< 0.01	< 10	10	24	< 10	26
H571098	299	229	0.01	4	570	8	< 2	3	6	< 0.01	< 10	10	26	< 10	24
H571099	299	229	< 0.01	3	630	16	< 2	3	5	< 0.01	< 10	< 10	23	< 10	28
H571100	299	229	0.01	4	610	22	2	5	7	< 0.01	< 10	< 10	38	< 10	26
H571101	299	229	0.01	4	590	6	< 2	3	7	0.01	< 10	< 10	32	< 10	26
H571102	299	229	< 0.01	3	510	10	< 2	2	4	< 0.01	< 10	< 10	20	< 10	20
H571103	299	229	0.01	6	570	12	< 2	2	8	< 0.01	< 10	< 10	22	< 10	20
H571104	299	229	0.01	6	450	2	< 2	2	9	< 0.01	< 10	< 10	14	< 10	12
H571105	299	229	0.01	6	390	8	< 2	3	10	< 0.01	< 10	< 10	20	< 10	16
H571106	299	229	< 0.01	2	410	12	< 2	2	7	< 0.01	< 10	< 10	12	< 10	18
H571107	299	229	0.01	4	470	6	< 2	4	7	< 0.01	< 10	< 10	33	< 10	22
H571108	299	229	0.01	4	570	6	< 2	7	8	0.02	< 10	< 10	46	< 10	24
H571109	299	229	0.01	4	540	6	6	2	7	< 0.01	< 10	10	30	< 10	26
H571110	299	229	0.01	5	470	6	6	1	6	< 0.01	< 10	< 10	14	< 10	16

CERTIFICATION:

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-AUG-93
Invoice No. :19318905
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318905

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564738 H	208	274	0.01	0.011	0.38	2750
564739 H	208	274	< 0.01	0.021	0.31	3060
564740 H	208	274	< 0.01	0.016	0.31	2550
564741 H	208	274	< 0.01	0.009	0.31	2000
564742 H	208	276	< 0.01	0.011	0.14	10450
564743 H	208	274	< 0.01	0.012	0.17	2350
564744 H	208	274	< 0.01	0.015	0.03	5800
564745 H	208	276	0.01	0.032	0.21	9240
564746 H	208	276	0.01	0.041	0.27	9000
564747 H	208	276	< 0.01	0.022	0.10	8360
564748 H	208	276	0.01	0.012	0.10	8660
564749 H	208	276	0.01	0.015	0.24	7760
564750 H	208	276	0.01	0.048	0.41	8840
564751 H	208	276	< 0.01	0.020	0.17	9720
564752 H	208	276	0.01	0.017	0.17	10220
564753 H	208	276	0.01	0.019	0.10	11680
564754 H	208	276	< 0.01	0.039	0.17	11060
564755 H	208	274	< 0.01	0.046	0.14	5340
564756 H	208	274	< 0.01	0.037	0.10	5720
564757 H	208	274	< 0.01	0.036	0.07	6500
564758 H	208	274	< 0.01	0.042	0.10	6380
564759 H	208	274	< 0.01	0.052	0.10	5960
564760 H	208	274	< 0.01	0.050	0.17	6320
564761 H	208	274	< 0.01	0.045	0.10	6160
564762 H	208	274	< 0.01	0.049	0.51	6080
564763 H	208	274	< 0.01	0.064	0.10	6140
564764 H	208	274	< 0.01	0.090	0.14	5880
564765 H	208	274	< 0.01	0.054	0.14	5500
564766 H	208	274	< 0.01	0.053	0.10	6140
564767 H	208	274	< 0.01	0.030	0.07	5300
564768 H	208	274	< 0.01	0.047	0.07	5340
564769 H	208	274	< 0.01	0.071	0.10	6260
564770 H	208	274	< 0.01	0.067	0.17	5980
564771 H	208	274	< 0.01	0.075	0.17	5960
564772 H	208	274	< 0.01	0.052	0.14	5400
564773 H	208	274	< 0.01	0.050	0.14	6200
564774 H	208	274	< 0.01	0.085	0.10	6100
564775 H	208	274	< 0.01	0.096	0.17	5360
564776 H	208	274	< 0.01	0.123	0.17	5620
564777 H	208	274	< 0.01	0.131	0.14	6380

CERTIFICATION: Said Zeinab

Chemex Labs Ltd.

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ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-AUG-93
Invoice No. : I9318905
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318905

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
564778 H	208 274	< 0.01	0.136	0.10	6340
564779 H	208 274	0.01	0.099	0.14	5940
564780 H	208 274	0.01	0.115	0.21	5100
564781 H	208 274	0.01	0.114	0.21	5680
564782 H	208 274	0.02	0.111	0.21	6660
564783 H	208 274	0.01	0.176	0.17	6600
564784 H	208 274	< 0.01	0.198	0.14	6480
564785 H	208 274	0.02	0.175	0.17	6580
564786 H	208 274	< 0.01	0.171	0.21	6860
564787 H	208 274	0.03	0.172	0.17	6700
564788 H	208 274	0.01	0.187	0.17	7220
564789 H	208 274	0.01	0.222	0.14	7220
564790 H	208 274	0.01	0.172	0.17	7000
564791 H	208 274	0.01	0.091	0.10	6280
564792 H	208 274	0.01	0.130	0.10	6900
564793 H	208 276	0.02	0.096	0.10	7360
564794 H	208 274	0.02	0.092	0.07	6940
564795 H	208 274	0.03	0.103	0.10	6480
564796 H	208 276	0.01	0.079	0.14	7380
564797 H	208 274	0.12	0.068	0.14	6880
564798 H	208 274	0.01	0.109	< 0.03	6960
564799 H	208 274	0.03	0.107	0.07	6900
564800 H	208 274	0.02	0.118	< 0.03	5800
564801 H	208 274	0.03	0.079	< 0.03	7080
564802 H	208 276	0.06	0.172	0.10	7340
564803 H	208 274	0.06	0.450	0.07	6520
564804 H	208 274	0.18	0.229	0.17	6360
564805 H	208 274	0.26	0.475	0.21	6820
564806 H	208 274	0.56	0.128	0.48	6540
564807 H	208 274	0.16	0.260	0.17	6840
564808 H	208 274	0.16	0.207	0.21	6840
564809 H	208 274	0.19	0.196	0.14	6960
564810 H	208 274	0.15	0.259	0.10	5680
564811 H	208 276	0.04	0.198	0.10	7420
564812 H	208 274	0.07	0.332	0.14	6620
564813 H	208 274	0.04	0.283	0.14	6600
564814 H	208 274	0.07	0.162	0.07	6900
564815 H	208 274	0.19	0.506	0.17	6300
564816 H	208 274	0.33	0.324	0.24	6600
564817 H	208 274	0.17	0.428	0.24	6280

CERTIFICATION: David Tennant

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-AUG-93
Invoice No. : I9318905
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318905

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
564818 H	208 274	0.35	0.125	0.34	6200
564819 H	208 274	0.17	0.503	0.27	6380
564820 H	208 274	0.19	0.156	0.27	7180
564821 H	208 274	0.11	0.183	0.24	6660
564822 H	208 274	0.19	0.140	0.41	6160
564823 H	208 276	0.25	0.037	0.41	7850
564824 H	208 274	0.24	0.095	0.31	7100
564825 H	208 274	0.28	0.048	0.27	6760
564826 H	208 274	0.11	0.062	0.14	6920
564827 H	208 274	0.37	0.043	0.41	6800
564828 H	208 274	0.21	0.039	0.24	6860
564829 H	208 274	0.26	0.088	0.34	7250
564830 H	208 274	0.24	0.021	0.24	6720
564831 H	208 274	0.22	0.020	0.48	6900
564832 H	208 274	0.27	0.032	0.38	6450
564833 H	208 274	0.18	0.013	0.24	6720
564834 H	208 274	0.35	0.028	0.31	6960
564835 H	208 274	0.43	0.027	0.55	6850
564836 H	208 274	0.34	0.040	0.51	6900
564837 H	208 274	0.30	0.052	0.34	6800
564838 H	208 274	0.13	0.053	0.17	6460
564839 H	208 274	0.13	0.071	0.17	6900
564840 H	208 274	0.27	0.145	0.38	7260
564841 H	208 274	0.10	0.136	0.51	7220
564842 H	208 274	0.01	0.256	0.17	7180
564843 H	208 274	0.12	0.309	0.27	6620
564844 H	208 276	0.10	0.237	1.41	7350
564845 H	208 274	0.04	0.419	0.41	6850
564846 H	208 276	0.14	0.352	0.45	8750
564847 H	208 274	0.18	0.912	0.41	5300
564848 H	208 274	0.25	0.479	0.34	7000
564849 H	208 274	0.24	0.122	0.34	6820
564850 H	208 274	0.33	0.061	0.45	6980
564851 H	208 274	0.17	0.050	0.27	6640
564852 H	208 274	0.22	0.018	0.34	6640
564853 H	208 274	0.27	0.039	0.31	6640
564854 H	208 274	0.18	0.035	0.38	6740
564855 H	208 274	0.21	0.017	0.21	6440
564856 H	208 274	0.18	0.013	0.27	6580
564857 H	208 274	0.20	0.040	0.21	6140

CERTIFICATION: Saad Zeinab

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
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CERTIFICATE OF ANALYSIS A9318905

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564858 H	208	274	0.19	0.129	0.21	4840
564859 H	208	274	0.15	0.051	0.21	7200
564860 H	208	274	0.14	0.012	0.27	6600
564861 H	208	274	0.12	0.034	0.21	6140
564862 H	208	274	0.18	0.108	0.31	6640
564863 H	208	274	0.26	0.025	0.45	6520
564864 H	208	274	0.22	0.029	0.21	6560
564865 H	208	274	0.30	0.075	0.48	6340
564866 H	208	274	0.17	0.073	0.17	6640
564867 H	208	274	0.20	0.104	0.27	6900
564868 H	208	274	0.18	0.015	0.27	6300
564869 H	208	274	0.17	0.031	0.31	7200
564870 H	208	274	0.23	0.033	0.31	6460
564871 H	208	274	0.18	0.041	0.27	6780
564872 H	208	274	0.23	0.035	0.27	6200
564873 H	208	274	0.26	0.029	0.31	6280
564874 H	208	274	0.32	0.082	0.34	6960
564875 H	208	274	0.29	0.056	0.38	6300
564876 H	208	274	0.18	0.015	0.21	6660
564877 H	208	274	0.21	0.017	0.34	6300
564878 H	208	274	0.14	0.031	0.24	6800
564879 H	208	274	0.19	0.036	0.17	4700
564880 H	208	274	0.19	0.029	0.31	6720
564881 H	208	274	0.21	0.040	0.27	6560
564882 H	208	274	0.18	0.053	0.24	6680
564883 H	208	274	0.25	0.024	0.38	6540
564884 H	208	274	0.34	0.019	0.45	6580
564885 H	208	274	0.23	0.044	0.34	6300
564886 H	208	274	0.23	0.019	0.34	6940
564887 H	208	274	0.21	0.016	0.27	7180
564888 H	208	274	0.28	0.019	0.38	6580
564889 H	208	274	0.22	0.040	0.24	6600
564890 H	208	274	0.26	0.030	0.38	6500
564891 H	208	274	0.38	0.023	0.45	6060
564892 H	208	274	0.28	0.071	0.51	7260
564893 H	208	274	0.12	0.066	0.27	7160
564894 H	208	274	0.19	0.008	0.31	7100
564895 H	208	274	0.22	0.019	0.27	6140
564896 H	208	274	0.19	0.021	0.24	6640
564897 H	208	274	0.22	0.028	0.27	6400

CERTIFICATION: Said Zeinab

Chemex Labs Ltd.

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Account :FC

CERTIFICATE OF ANALYSIS A9318905

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
564898 H	208	274	0.21	0.023	0.24	6420						
564899 H	208	274	0.21	0.010	0.21	6740						
564900 H	208	274	0.25	0.015	0.27	6900						
564901 H	208	274	0.25	0.033	0.31	6780						
564902 H	208	274	0.16	0.065	0.24	6760						
564903 H	208	274	0.19	0.006	0.21	6980						
564904 H	208	274	0.28	0.016	0.31	6920						
564905 H	208	274	0.16	0.100	0.21	6520						
564906 H	208	274	0.14	0.040	0.10	3800						
564907 H	208	274	0.18	0.067	0.24	7140						
564908 H	208	274	0.18	0.073	0.17	6840						
564909 H	208	274	0.15	0.053	0.17	6400						
564910 H	208	274	0.07	0.041	0.21	7120						
564911 H	208	274	0.17	0.026	0.24	6620						
564912 H	208	276	0.14	0.022	0.24	7320						
564913 H	208	274	0.31	0.024	0.27	6640						
564914 H	208	274	0.23	0.026	0.21	6700						
564915 H	208	274	0.30	0.048	0.31	6960						
564916 H	208	274	0.31	0.017	0.21	6600						
564917 H	208	274	0.32	0.034	0.27	7100						
564918 H	208	274	0.32	0.024	0.27	7160						
564919 H	208	276	0.26	0.042	0.21	7960						
564920 H	208	274	0.27	0.038	0.21	7000						
564921 H	208	274	0.20	0.017	0.17	7200						
564922 H	208	274	0.19	0.030	0.24	6920						
564923 H	208	274	0.32	0.082	0.51	7080						
564924 H	208	274	0.31	0.068	0.31	6720						
564925 H	208	274	0.28	0.015	0.24	6980						
564926 H	208	274	0.27	0.042	0.24	6740						
564927 H	208	274	0.14	0.062	0.14	6760						
564928 H	208	274	0.25	0.032	0.17	6580						
564929 H	208	274	0.16	0.040	0.10	6620						
564930 H	208	276	0.29	0.015	0.82	7280						
564931 H	208	274	0.33	0.056	0.58	6780						
564932 H	208	274	0.25	0.038	0.21	6680						
564933 H	208	276	0.16	0.021	0.24	7340						
564934 H	208	274	0.11	0.046	0.24	7080						
564935 H	208	274	0.19	0.022	0.10	6780						
564936 H	208	274	0.21	0.032	0.14	6750						
564937 H	208	274	0.20	0.019	0.17	7160						

CERTIFICATION: Patrick Zeinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-AUG-93
Invoice No. :19318905
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318905

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
564938 H	208	274	0.36	0.037	0.21	6920
564939 H	208	274	0.24	0.019	0.17	6840
564940 H	208	274	0.24	0.019	0.10	7180
564941 H	208	274	0.26	0.016	0.21	7000
564942 H	208	274	0.25	0.009	0.17	6680
564943 H	208	274	0.27	0.034	1.20	6940
564944 H	208	276	0.24	0.019	0.17	7400
564945 H	208	274	0.18	0.068	0.14	6680

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Page Number :1-A
Total Pages :6
Certificate Date: 25-AUG-93
Invoice No. :19318906
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564738 H	299	229	2.6	0.79	14	300	< 0.5	< 2	0.07	< 0.5	< 1	135	44	1.26	< 10	< 1	0.63	20	0.04	50	62
564739 H	299	229	1.4	0.63	18	250	< 0.5	< 2	0.02	< 0.5	1	134	37	2.36	< 10	< 1	0.79	20	0.03	15	125
564740 H	299	229	1.0	0.75	4	280	< 0.5	2	0.02	< 0.5	< 1	142	49	0.99	< 10	< 1	0.58	20	0.04	15	94
564741 H	299	229	1.2	0.73	2	170	< 0.5	< 2	0.03	< 0.5	< 1	83	15	1.12	< 10	< 1	0.60	30	0.05	20	50
564742 H	299	229	1.4	0.82	6	180	< 0.5	< 2	0.06	< 0.5	< 1	92	10	1.28	< 10	< 1	0.65	30	0.06	40	62
564743 H	299	229	0.8	0.73	26	100	< 0.5	4	0.02	< 0.5	1	77	15	4.63	< 10	< 1	1.29	20	0.05	10	66
564744 H	299	229	< 0.2	0.86	12	70	< 0.5	< 2	0.01	< 0.5	2	118	24	4.52	< 10	< 1	1.05	10	0.07	10	75
564745 H	299	229	1.2	1.87	10	50	< 0.5	< 2	0.02	< 0.5	8	184	79	4.79	< 10	< 1	1.10	10	0.14	15	178
564746 H	299	229	0.8	1.67	16	20	< 0.5	< 2	0.02	< 0.5	7	168	54	7.05	< 10	< 1	0.94	10	0.11	15	223
564747 H	299	229	0.4	1.50	14	40	< 0.5	< 2	0.01	< 0.5	4	49	40	5.46	< 10	< 1	0.91	10	0.13	5	119
564748 H	299	229	0.8	1.36	14	60	< 0.5	< 2	0.01	< 0.5	6	17	82	4.05	< 10	< 1	0.75	< 10	0.12	< 5	60
564749 H	299	229	1.2	1.52	16	30	< 0.5	< 2	0.01	< 0.5	11	46	86	5.46	< 10	< 1	0.89	10	0.12	5	83
564750 H	299	229	4.8	1.13	30	20	< 0.5	20	0.01	< 0.5	10	34	63	6.48	< 10	< 1	0.74	10	0.07	5	267
564751 H	299	229	0.4	0.81	36	70	< 0.5	< 2	0.01	< 0.5	8	32	38	4.87	< 10	< 1	0.97	< 10	0.06	5	120
564752 H	299	229	0.2	1.56	38	20	< 0.5	< 2	0.03	< 0.5	51	62	67	9.41	< 10	< 1	0.81	< 10	0.10	10	85
564753 H	299	229	0.2	0.98	38	10	< 0.5	< 2	0.01	< 0.5	47	22	61	9.94	< 10	< 1	0.72	< 10	0.06	5	101
564754 H	299	229	0.6	1.14	44	10	< 0.5	2	0.02	< 0.5	20	25	31	7.79	< 10	< 1	0.85	< 10	0.06	5	218
564755 H	299	229	0.8	1.00	28	50	< 0.5	2	0.01	< 0.5	9	125	29	4.34	< 10	< 1	0.74	20	0.05	10	264
564756 H	299	229	0.4	0.56	22	40	< 0.5	6	0.01	< 0.5	12	46	40	4.64	< 10	< 1	0.70	10	0.03	5	204
564757 H	299	229	0.8	0.80	20	170	< 0.5	8	0.01	< 0.5	4	158	42	2.60	< 10	< 1	0.76	40	0.04	10	214
564758 H	299	229	0.4	0.46	18	140	< 0.5	2	< 0.01	< 0.5	4	49	28	2.27	< 10	< 1	0.51	20	0.03	5	237
564759 H	299	229	0.4	0.74	24	50	< 0.5	< 2	0.01	< 0.5	9	157	33	4.22	< 10	< 1	0.67	20	0.04	10	281
564760 H	299	229	0.2	0.44	28	30	< 0.5	< 2	0.01	< 0.5	18	42	31	5.19	< 10	< 1	0.49	10	0.02	5	282
564761 H	299	229	0.4	0.81	24	20	< 0.5	< 2	0.01	< 0.5	32	153	42	6.40	< 10	< 1	0.70	20	0.05	10	253
564762 H	299	229	0.2	0.57	36	70	< 0.5	4	0.01	< 0.5	17	59	42	4.08	< 10	< 1	0.64	20	0.03	5	282
564763 H	299	229	0.4	0.95	18	20	< 0.5	2	0.02	< 0.5	49	178	44	7.07	< 10	< 1	0.87	10	0.05	10	335
564764 H	299	229	0.6	0.65	28	60	< 0.5	< 2	0.01	< 0.5	12	72	42	4.94	< 10	< 1	0.93	20	0.03	5	497
564765 H	299	229	0.6	1.15	16	140	< 0.5	< 2	0.01	< 0.5	5	110	28	3.82	< 10	< 1	1.11	30	0.07	10	314
564766 H	299	229	0.2	0.45	22	100	< 0.5	< 2	0.01	< 0.5	3	77	23	2.95	< 10	< 1	0.70	10	0.02	10	288
564767 H	299	229	0.2	0.85	26	40	< 0.5	< 2	0.01	< 0.5	18	157	24	6.16	< 10	< 1	0.97	10	0.03	15	155
564768 H	299	229	0.4	0.55	22	70	< 0.5	2	0.01	< 0.5	13	74	24	5.18	< 10	< 1	1.03	10	0.02	10	248
564769 H	299	229	0.4	0.54	30	80	< 0.5	< 2	0.01	< 0.5	7	91	30	5.51	< 10	< 1	1.18	10	0.03	10	391
564770 H	299	229	0.6	0.62	34	80	< 0.5	< 2	0.01	< 0.5	4	164	31	5.73	< 10	< 1	1.34	10	0.03	10	360
564771 H	299	229	0.6	0.36	22	110	< 0.5	< 2	0.01	< 0.5	3	90	34	5.78	< 10	< 1	1.32	10	0.02	5	413
564772 H	299	229	1.6	0.69	16	140	< 0.5	< 2	0.01	< 0.5	2	124	30	4.11	< 10	< 1	1.12	20	0.04	10	324
564773 H	299	229	0.6	0.35	20	110	< 0.5	< 2	0.01	< 0.5	3	91	32	6.14	< 10	< 1	1.38	10	0.02	10	318
564774 H	299	229	0.8	0.65	30	110	< 0.5	< 2	0.01	< 0.5	1	189	38	6.14	10	< 1	1.52	30	0.03	15	503
564775 H	299	229	0.6	0.27	26	140	< 0.5	< 2	0.01	< 0.5	1	67	29	5.69	< 10	< 1	1.28	20	0.01	5	588
564776 H	299	229	1.0	0.52	22	110	< 0.5	< 2	0.02	< 0.5	< 1	222	26	6.03	< 10	< 1	1.45	20	0.02	15	643
564777 H	299	229	0.6	0.59	24	140	< 0.5	< 2	0.02	< 0.5	1	144	28	4.59	< 10	< 1	1.24	30	0.03	10	748

CERTIFICATION: Jhai D Ma

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CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564738 H	299	229	0.01	1	50	20	6	1	11	< 0.01	< 10	< 10	16	< 10	4
564739 H	299	229	0.01	1	140	12	4	1	4	0.01	< 10	< 10	16	< 10	4
564740 H	299	229	0.01	1	90	12	4	1	4	< 0.01	< 10	< 10	12	< 10	4
564741 H	299	229	0.01	1	100	8	4	1	6	< 0.01	< 10	< 10	11	< 10	2
564742 H	299	229	0.02	< 1	160	20	4	1	10	< 0.01	< 10	< 10	11	< 10	2
564743 H	299	229	0.01	< 1	320	2	10	2	4	0.02	< 10	< 10	23	20	< 2
564744 H	299	229	0.02	2	150	2	2	1	2	0.01	< 10	< 10	14	10	< 2
564745 H	299	229	0.02	3	80	2	6	3	3	0.01	< 10	< 10	25	10	2
564746 H	299	229	0.01	3	60	< 2	4	3	3	0.01	< 10	< 10	22	< 10	2
564747 H	299	229	0.01	3	70	< 2	4	2	2	0.01	< 10	< 10	18	10	< 2
564748 H	299	229	0.01	4	60	6	< 2	2	2	0.01	< 10	< 10	13	10	2
564749 H	299	229	0.01	5	60	< 2	6	2	3	0.01	< 10	< 10	17	10	2
564750 H	299	229	0.01	2	70	6	32	2	3	0.01	< 10	< 10	15	< 10	4
564751 H	299	229	0.01	2	100	4	4	1	3	0.01	< 10	< 10	15	< 10	2
564752 H	299	229	0.01	5	60	6	4	4	3	0.01	< 10	< 10	22	< 10	4
564753 H	299	229	0.01	4	60	14	4	2	3	0.01	< 10	< 10	12	< 10	2
564754 H	299	229	0.01	2	40	6	4	2	6	0.01	< 10	< 10	16	< 10	2
564755 H	299	229	0.01	2	70	6	4	2	6	< 0.01	< 10	< 10	16	< 10	2
564756 H	299	229	0.01	1	90	4	2	1	4	0.01	< 10	< 10	16	< 10	2
564757 H	299	229	0.01	2	100	2	6	1	6	< 0.01	< 10	< 10	14	10	2
564758 H	299	229	0.01	< 1	90	4	4	1	5	< 0.01	< 10	< 10	11	10	2
564759 H	299	229	0.01	2	60	< 2	6	1	4	< 0.01	< 10	< 10	16	20	4
564760 H	299	229	0.01	3	60	< 2	4	1	3	< 0.01	< 10	< 10	11	10	2
564761 H	299	229	0.01	6	80	2	6	1	3	< 0.01	< 10	< 10	16	20	4
564762 H	299	229	0.01	1	80	10	4	1	4	0.01	< 10	< 10	16	10	2
564763 H	299	229	0.01	6	80	< 2	4	2	3	0.01	< 10	< 10	24	20	2
564764 H	299	229	0.01	1	110	2	6	2	4	0.01	< 10	< 10	24	20	4
564765 H	299	229	0.02	1	250	6	2	2	5	0.01	< 10	< 10	22	20	2
564766 H	299	229	0.01	< 1	170	6	6	1	7	< 0.01	< 10	< 10	16	10	4
564767 H	299	229	0.01	5	150	4	2	2	5	0.01	< 10	< 10	25	20	4
564768 H	299	229	0.01	1	210	8	4	2	4	0.02	< 10	< 10	26	20	4
564769 H	299	229	0.01	1	260	4	4	2	8	0.02	< 10	< 10	30	20	4
564770 H	299	229	0.01	1	250	8	4	2	8	0.02	< 10	< 10	32	20	4
564771 H	299	229	0.01	< 1	250	2	6	2	6	0.02	< 10	< 10	28	20	2
564772 H	299	229	0.02	1	200	2	4	1	6	0.01	< 10	< 10	21	10	2
564773 H	299	229	0.02	< 1	200	4	4	2	6	0.02	< 10	< 10	28	20	4
564774 H	299	229	0.02	< 1	280	6	6	2	10	0.02	< 10	< 10	35	20	4
564775 H	299	229	0.01	< 1	330	4	6	1	7	0.03	< 10	< 10	24	20	2
564776 H	299	229	0.03	1	390	4	8	2	9	0.04	< 10	< 10	23	30	4
564777 H	299	229	0.01	< 1	340	4	8	1	5	0.02	< 10	< 10	19	20	4

CERTIFICATION: Jhai D'Ma

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Project : CASINO 179
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Certificate Date: 25-AUG-93
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CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564778 H	299	229	0.8	0.38	16	120	< 0.5	2	0.03	< 0.5	2	103	35	3.95	< 10	< 1	0.92	30	0.02	10	803
564779 H	299	229	0.6	0.71	4	60	< 0.5	< 2	0.02	< 0.5	27	129	73	4.03	< 10	< 1	0.63	30	0.04	10	562
564780 H	299	229	0.8	0.25	8	40	< 0.5	< 2	0.01	< 0.5	31	59	74	3.67	< 10	< 1	0.26	20	0.02	5	656
564781 H	299	229	0.8	0.76	14	50	< 0.5	2	0.02	< 0.5	35	110	76	3.89	< 10	< 1	0.48	30	0.06	10	670
564782 H	299	229	1.4	0.30	14	30	< 0.5	2	0.02	< 0.5	49	69	155	5.25	< 10	< 1	0.25	10	0.02	10	656
564783 H	299	229	0.6	0.28	4	30	< 0.5	< 2	0.02	< 0.5	37	65	57	5.57	< 10	< 1	0.21	20	0.03	15	1005
564784 H	299	229	0.4	0.96	8	10	< 0.5	< 2	0.03	< 0.5	55	167	49	8.19	< 10	< 1	0.54	20	0.09	25	1100
564785 H	299	229	0.8	0.36	12	20	< 0.5	< 2	0.02	< 0.5	35	97	192	6.27	< 10	< 1	0.23	10	0.03	20	989
564786 H	299	229	0.4	0.90	12	20	< 0.5	< 2	0.02	< 0.5	28	124	36	8.41	< 10	< 1	0.50	20	0.06	10	927
564787 H	299	229	0.6	0.32	10	10	< 0.5	< 2	0.02	< 0.5	47	83	287	9.12	< 10	< 1	0.20	10	0.02	20	947
564788 H	299	229	0.4	0.90	12	20	< 0.5	< 2	0.03	< 0.5	33	126	77	8.11	< 10	< 1	0.49	20	0.06	25	1005
564789 H	299	229	0.4	0.33	22	10	< 0.5	< 2	0.02	< 0.5	30	73	63	8.93	< 10	< 1	0.21	10	0.02	20	1215
564790 H	299	229	0.4	0.98	6	20	< 0.5	2	0.02	< 0.5	22	146	120	8.02	< 10	< 1	0.52	20	0.06	15	948
564791 H	299	229	0.2	0.97	12	20	< 0.5	< 2	0.02	< 0.5	22	147	132	7.20	< 10	< 1	0.52	20	0.07	15	514
564792 H	299	229	0.4	0.46	16	20	< 0.5	< 2	0.02	< 0.5	25	96	123	7.88	< 10	< 1	0.26	10	0.04	10	693
564793 H	299	229	0.2	1.20	12	20	< 0.5	< 2	0.03	< 0.5	17	149	221	7.90	< 10	< 1	0.62	20	0.10	15	544
564794 H	299	229	0.4	0.27	14	20	< 0.5	< 2	0.03	< 0.5	11	67	242	6.39	< 10	< 1	0.17	10	0.02	10	499
564795 H	299	229	0.4	0.78	14	20	< 0.5	< 2	0.04	< 0.5	8	103	284	6.01	< 10	< 1	0.41	20	0.07	10	544
564796 H	299	229	0.4	0.36	22	10	< 0.5	< 2	0.06	< 0.5	10	81	116	7.34	< 10	< 1	0.22	10	0.03	10	404
564797 H	299	229	0.8	1.01	6	20	< 0.5	< 2	0.06	< 0.5	9	120	1165	5.77	< 10	< 1	0.51	20	0.08	15	371
564798 H	299	229	0.2	0.57	12	10	< 0.5	< 2	0.05	< 0.5	8	97	106	7.85	< 10	< 1	0.30	10	0.05	10	588
564799 H	299	229	0.2	0.69	6	10	< 0.5	< 2	0.04	< 0.5	20	73	247	9.25	< 10	< 1	0.35	10	0.08	10	569
564800 H	299	229	0.2	1.31	20	20	< 0.5	< 2	0.07	< 0.5	23	129	222	7.88	< 10	< 1	0.63	20	0.13	15	610
564801 H	299	229	0.4	0.53	26	20	< 0.5	< 2	0.07	< 0.5	27	88	244	6.48	< 10	< 1	0.28	20	0.06	10	423
564802 H	299	229	0.2	0.84	14	20	< 0.5	< 2	0.06	< 0.5	27	121	549	6.80	< 10	< 1	0.43	20	0.08	95	945
564803 H	299	229	1.4	0.48	6	20	< 0.5	< 2	0.06	< 0.5	13	68	610	6.35	< 10	< 1	0.24	20	0.05	10	2360
564804 H	299	229	1.6	1.29	18	40	< 0.5	2	0.04	< 0.5	10	158	1795	4.61	< 10	< 1	0.57	20	0.12	15	1295
564805 H	299	229	2.6	1.27	4	60	< 0.5	< 2	0.08	< 0.5	10	141	2590	4.22	10	< 1	0.53	40	0.12	15	2530
564806 H	299	229	5.6	0.81	14	40	< 0.5	< 2	0.06	0.5	16	69	5480	3.52	< 10	< 1	0.29	10	0.09	15	719
564807 H	299	229	1.6	0.95	8	20	< 0.5	< 2	0.07	< 0.5	12	114	1590	6.41	< 10	< 1	0.48	20	0.11	15	1405
564808 H	299	229	1.6	0.40	16	30	< 0.5	< 2	0.06	< 0.5	15	57	1575	4.85	< 10	< 1	0.22	10	0.04	10	1110
564809 H	299	229	2.2	0.83	16	20	< 0.5	< 2	0.07	< 0.5	16	95	1860	6.00	< 10	< 1	0.43	20	0.09	15	1055
564810 H	299	229	2.0	0.37	8	30	< 0.5	< 2	0.07	< 0.5	15	49	1535	5.26	< 10	< 1	0.20	10	0.03	5	1540
564811 H	299	229	0.8	0.90	22	20	< 0.5	< 2	0.06	< 0.5	19	110	413	6.11	< 10	< 1	0.45	20	0.08	15	1105
564812 H	299	229	1.4	0.56	10	10	< 0.5	< 2	0.06	< 0.5	30	97	667	6.76	< 10	< 1	0.28	10	0.06	10	1860
564813 H	299	229	0.8	0.45	6	10	< 0.5	< 2	0.07	< 0.5	29	58	357	6.02	< 10	< 1	0.24	10	0.06	5	1615
564814 H	299	229	0.6	1.06	8	20	< 0.5	< 2	0.07	< 0.5	22	141	693	5.62	< 10	< 1	0.54	10	0.12	15	832
564815 H	299	229	1.8	0.50	30	20	< 0.5	< 2	0.07	< 0.5	20	63	1930	5.86	< 10	< 1	0.23	10	0.06	10	2650
564816 H	299	229	3.4	1.16	18	20	< 0.5	< 2	0.09	< 0.5	28	153	3280	5.71	< 10	< 1	0.51	10	0.13	15	1715
564817 H	299	229	2.0	0.44	14	20	< 0.5	< 2	0.09	< 0.5	21	52	1435	4.79	< 10	< 1	0.22	10	0.05	10	2390

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :6
Certificate Date: 25-AUG-93
Invoice No. :I9318906
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564778 H	299	229	0.01	< 1	450	8	10	2	6	0.03	< 10	< 10	18	20	4
564779 H	299	229	0.01	4	240	6	6	2	4	0.01	< 10	< 10	14	10	4
564780 H	299	229	< 0.01	1	120	6	8	1	5	< 0.01	< 10	< 10	7	10	4
564781 H	299	229	0.01	5	180	8	6	1	10	< 0.01	< 10	< 10	13	10	6
564782 H	299	229	< 0.01	4	150	4	6	1	11	< 0.01	< 10	< 10	7	10	6
564783 H	299	229	< 0.01	3	130	8	10	1	14	< 0.01	< 10	< 10	8	70	10
564784 H	299	229	0.01	5	80	< 2	12	2	6	< 0.01	< 10	< 10	17	140	8
564785 H	299	229	< 0.01	4	90	8	12	2	10	< 0.01	< 10	< 10	8	150	6
564786 H	299	229	0.01	5	90	6	10	3	3	< 0.01	< 10	< 10	15	20	4
564787 H	299	229	< 0.01	5	60	2	10	2	4	< 0.01	< 10	< 10	9	170	2
564788 H	299	229	0.01	6	100	6	12	3	7	< 0.01	< 10	< 10	18	140	4
564789 H	299	229	< 0.01	1	110	6	14	2	4	< 0.01	< 10	< 10	11	190	4
564790 H	299	229	0.01	3	100	6	12	4	8	< 0.01	< 10	< 10	17	20	6
564791 H	299	229	0.01	4	260	< 2	4	3	16	< 0.01	< 10	< 10	14	30	8
564792 H	299	229	< 0.01	4	260	4	10	2	12	< 0.01	< 10	10	8	40	4
564793 H	299	229	0.01	4	260	6	8	4	20	< 0.01	< 10	< 10	16	20	6
564794 H	299	229	< 0.01	2	260	12	6	2	23	< 0.01	< 10	< 10	4	10	12
564795 H	299	229	0.01	3	410	10	8	3	23	< 0.01	< 10	< 10	11	10	4
564796 H	299	229	< 0.01	3	430	8	6	1	7	< 0.01	< 10	10	6	10	6
564797 H	299	229	0.01	3	560	26	4	2	9	< 0.01	< 10	10	14	10	20
564798 H	299	229	< 0.01	4	420	10	6	1	11	< 0.01	< 10	< 10	10	10	8
564799 H	299	229	< 0.01	9	430	2	10	1	17	< 0.01	< 10	10	11	20	8
564800 H	299	229	0.01	8	680	4	6	2	44	< 0.01	< 10	10	15	20	12
564801 H	299	229	< 0.01	7	500	6	4	1	13	< 0.01	< 10	10	7	10	12
564802 H	299	229	0.01	4	470	< 2	14	2	11	< 0.01	< 10	< 10	13	1100	8
564803 H	299	229	< 0.01	1	490	4	26	1	29	< 0.01	< 10	10	15	20	6
564804 H	299	229	0.01	3	570	10	14	2	37	< 0.01	< 10	10	19	20	12
564805 H	299	229	0.01	1	900	22	26	2	104	< 0.01	< 10	10	24	20	16
564806 H	299	229	< 0.01	3	470	24	6	1	25	< 0.01	< 10	10	12	10	36
564807 H	299	229	0.01	3	470	14	14	1	26	< 0.01	< 10	10	16	20	14
564808 H	299	229	< 0.01	2	370	8	12	1	31	< 0.01	< 10	20	9	10	10
564809 H	299	229	0.01	4	470	54	12	1	40	< 0.01	< 10	20	14	40	36
564810 H	299	229	< 0.01	1	490	16	16	1	62	< 0.01	< 10	10	10	10	18
564811 H	299	229	0.01	4	430	6	12	1	67	< 0.01	< 10	10	14	80	8
564812 H	299	229	0.01	3	430	16	20	1	79	< 0.01	< 10	< 10	14	30	10
564813 H	299	229	< 0.01	3	410	8	18	1	45	< 0.01	< 10	< 10	12	20	6
564814 H	299	229	0.01	6	420	< 2	6	2	51	< 0.01	< 10	< 10	15	30	6
564815 H	299	229	< 0.01	< 1	550	8	22	1	120	< 0.01	< 10	< 10	16	20	24
564816 H	299	229	0.01	2	650	12	18	2	120	< 0.01	< 10	< 10	19	20	14
564817 H	299	229	< 0.01	< 1	530	12	22	1	54	< 0.01	< 10	< 10	14	20	6

CERTIFICATION: Thai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :I9318906
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564818 H	299	229	4.4	1.50	8	30	< 0.5	2	0.09	< 0.5	18	123	4030	2.94	< 10	< 1	0.52	20	0.14	15	748
564819 H	299	229	2.4	0.63	16	10	< 0.5	6	0.11	< 0.5	24	64	2060	7.77	< 10	< 1	0.35	10	0.08	10	2980
564820 H	299	229	2.2	0.83	24	10	< 0.5	12	0.09	< 0.5	24	113	2220	6.38	< 10	< 1	0.49	10	0.11	15	908
564821 H	299	229	1.8	0.48	6	10	< 0.5	6	0.08	< 0.5	23	72	1375	5.68	< 10	< 1	0.31	10	0.07	10	1185
564822 H	299	229	2.0	0.65	28	10	< 0.5	< 2	0.09	< 0.5	24	99	2140	5.99	< 10	< 1	0.40	10	0.08	15	765
564823 H	299	229	3.2	0.47	32	< 10	< 0.5	2	0.10	< 0.5	30	42	2770	9.19	< 10	< 1	0.29	< 10	0.07	5	220
564824 H	299	229	2.2	1.08	16	10	< 0.5	< 2	0.10	< 0.5	26	99	2740	4.57	< 10	< 1	0.47	10	0.11	10	560
564825 H	299	229	2.0	1.02	16	20	< 0.5	6	0.10	< 0.5	28	98	3090	3.82	< 10	< 1	0.43	10	0.11	10	304
564826 H	299	229	1.2	0.90	28	10	< 0.5	< 2	0.08	< 0.5	45	96	1220	6.05	< 10	< 1	0.43	20	0.09	10	376
564827 H	299	229	4.0	1.19	22	20	< 0.5	< 2	0.12	< 0.5	28	102	4200	4.25	< 10	< 1	0.43	20	0.11	250	257
564828 H	299	229	2.2	0.91	8	30	< 0.5	< 2	0.08	< 0.5	29	110	2370	2.78	< 10	< 1	0.39	10	0.09	75	234
564829 H	299	229	2.6	0.49	36	10	< 0.5	< 2	0.08	< 0.5	50	65	2710	6.11	< 10	< 1	0.27	10	0.07	10	486
564830 H	299	229	2.2	0.95	26	20	< 0.5	< 2	0.10	< 0.5	44	89	2600	3.77	< 10	< 1	0.41	10	0.12	15	106
564831 H	299	229	3.0	1.21	6	40	< 0.5	6	0.12	< 0.5	33	112	2440	2.75	< 10	< 1	0.46	20	0.13	25	96
564832 H	299	229	3.2	0.93	14	60	< 0.5	< 2	0.16	< 0.5	24	99	3070	2.36	< 10	< 1	0.29	20	0.09	70	183
564833 H	299	229	2.6	1.10	6	30	< 0.5	< 2	0.13	< 0.5	26	99	2110	3.22	< 10	< 1	0.33	30	0.11	85	71
564834 H	299	229	3.4	0.98	8	30	< 0.5	8	0.12	< 0.5	40	84	3920	2.86	< 10	< 1	0.39	20	0.11	20	169
564835 H	299	229	4.2	0.61	6	20	< 0.5	< 2	0.14	< 0.5	54	46	4750	3.85	< 10	< 1	0.23	20	0.10	55	155
564836 H	299	229	4.0	1.23	< 2	40	< 0.5	4	0.11	< 0.5	29	77	3580	3.34	< 10	< 1	0.40	20	0.16	95	235
564837 H	299	229	3.4	0.88	2	30	< 0.5	< 2	0.09	< 0.5	27	82	3290	3.26	< 10	< 1	0.36	10	0.11	65	300
564838 H	299	229	1.8	0.77	8	20	< 0.5	< 2	0.06	< 0.5	46	117	1370	4.57	< 10	< 1	0.40	< 10	0.09	15	311
564839 H	299	229	1.4	0.57	< 2	30	< 0.5	14	0.08	< 0.5	21	71	1330	3.10	< 10	< 1	0.26	10	0.07	10	426
564840 H	299	229	3.2	0.89	< 2	20	< 0.5	2	0.11	< 0.5	27	95	2950	3.62	< 10	< 1	0.37	10	0.09	40	784
564841 H	299	229	1.4	0.72	4	10	< 0.5	8	0.12	< 0.5	52	98	1065	9.01	< 10	< 1	0.42	10	0.07	10	736
564842 H	299	229	< 0.2	0.66	18	< 10	< 0.5	< 2	0.17	< 0.5	61	93	54	10.20	10	< 1	0.41	20	0.04	15	1455
564843 H	299	229	1.6	0.69	14	20	< 0.5	< 2	0.14	< 0.5	22	94	1290	5.25	< 10	< 1	0.39	30	0.08	15	1885
564844 H	299	229	1.2	0.82	12	10	< 0.5	6	0.12	< 0.5	133	129	1055	7.57	< 10	< 1	0.45	20	0.08	15	1390
564845 H	299	229	1.4	0.51	14	10	< 0.5	6	0.12	< 0.5	45	107	409	7.26	< 10	< 1	0.31	20	0.04	10	2260
564846 H	299	229	1.8	0.57	8	10	< 0.5	2	0.11	< 0.5	67	104	1470	7.01	< 10	< 1	0.35	20	0.06	10	1990
564847 H	299	229	3.4	0.38	8	10	< 0.5	< 2	0.10	< 0.5	68	85	1850	7.31	< 10	< 1	0.26	20	0.04	10	4750
564848 H	299	229	3.8	0.57	18	10	< 0.5	4	0.12	< 0.5	26	98	2620	6.20	< 10	< 1	0.35	10	0.07	10	2700
564849 H	299	229	2.8	0.50	14	10	< 0.5	< 2	0.10	< 0.5	30	64	2550	6.55	< 10	< 1	0.23	10	0.07	15	686
564850 H	299	229	2.6	0.94	< 2	40	< 0.5	< 2	0.10	0.5	32	109	3420	2.20	< 10	< 1	0.33	10	0.10	15	335
564851 H	299	229	1.6	1.19	4	20	< 0.5	< 2	0.14	< 0.5	28	105	1920	2.77	< 10	< 1	0.27	20	0.08	15	299
564852 H	299	229	2.2	1.11	< 2	20	< 0.5	< 2	0.13	< 0.5	28	94	2310	3.59	< 10	< 1	0.33	10	0.09	45	101
564853 H	299	229	2.6	1.14	4	30	< 0.5	< 2	0.13	< 0.5	33	112	2760	3.09	< 10	< 1	0.31	20	0.12	105	226
564854 H	299	229	3.0	0.94	16	10	< 0.5	12	0.12	< 0.5	29	102	2010	6.20	< 10	< 1	0.45	10	0.12	15	196
564855 H	299	229	1.6	1.13	10	10	< 0.5	2	0.16	< 0.5	38	94	2200	4.36	< 10	< 1	0.30	20	0.11	90	89
564856 H	299	229	1.6	1.31	10	30	< 0.5	< 2	0.14	< 0.5	31	107	1875	3.36	< 10	< 1	0.36	20	0.13	80	68
564857 H	299	229	2.2	1.21	< 2	30	< 0.5	< 2	0.13	< 0.5	24	118	2160	3.33	< 10	< 1	0.40	20	0.16	80	241

CERTIFICATION: _____

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564818 H	299	229	0.01	5	850	24	6	2	67	< 0.01	< 10	10	17	< 10	22
564819 H	299	229	0.01	1	570	8	28	1	22	< 0.01	< 10	19	30	8	
564820 H	299	229	0.01	6	490	12	6	1	13	< 0.01	< 10	< 10	13	10	18
564821 H	299	229	< 0.01	3	410	14	10	1	7	< 0.01	< 10	< 10	10	20	14
564822 H	299	229	0.01	5	470	6	18	1	13	< 0.01	< 10	< 10	10	20	20
564823 H	299	229	< 0.01	2	480	24	4	1	9	< 0.01	< 10	< 10	6	< 10	26
564824 H	299	229	0.01	4	520	8	4	2	33	< 0.01	< 10	< 10	13	< 10	16
564825 H	299	229	0.01	6	560	6	2	2	49	< 0.01	< 10	10	13	< 10	14
564826 H	299	229	0.01	5	480	18	2	1	62	< 0.01	< 10	10	11	< 10	14
564827 H	299	229	0.01	4	620	16	4	2	41	< 0.01	< 10	10	18	< 10	34
564828 H	299	229	0.01	5	450	16	< 2	1	29	< 0.01	< 10	10	11	< 10	24
564829 H	299	229	0.01	3	390	16	4	1	25	< 0.01	< 10	< 10	8	< 10	10
564830 H	299	229	0.01	6	560	12	2	1	24	< 0.01	< 10	20	10	< 10	16
564831 H	299	229	0.01	6	640	8	< 2	2	23	< 0.01	< 10	< 10	16	< 10	32
564832 H	299	229	< 0.01	6	700	16	< 2	3	7	< 0.01	< 10	< 10	18	< 10	40
564833 H	299	229	< 0.01	5	660	16	< 2	3	8	< 0.01	< 10	< 10	18	< 10	28
564834 H	299	229	0.01	5	610	6	< 2	2	14	< 0.01	< 10	< 10	13	< 10	18
564835 H	299	229	< 0.01	6	660	8	2	2	5	< 0.01	< 10	10	15	< 10	18
564836 H	299	229	0.01	4	510	18	2	2	9	< 0.01	< 10	< 10	18	< 10	24
564837 H	299	229	0.01	6	400	18	2	1	9	< 0.01	< 10	10	11	< 10	32
564838 H	299	229	0.01	4	340	12	4	1	5	< 0.01	< 10	< 10	9	< 10	12
564839 H	299	229	< 0.01	2	290	16	2	< 1	8	< 0.01	< 10	< 10	6	< 10	12
564840 H	299	229	0.01	4	500	20	4	2	9	< 0.01	< 10	< 10	15	< 10	26
564841 H	299	229	0.01	6	480	4	6	1	4	< 0.01	< 10	< 10	12	< 10	6
564842 H	299	229	0.01	9	440	< 2	20	2	6	< 0.01	< 10	60	13	1190	2
564843 H	299	229	0.01	3	510	18	18	1	7	< 0.01	< 10	40	16	160	122
564844 H	299	229	0.01	7	470	< 2	14	2	4	< 0.01	< 10	< 10	16	70	8
564845 H	299	229	0.01	3	420	2	22	1	2	< 0.01	< 10	10	16	30	14
564846 H	299	229	0.01	4	430	8	20	1	3	< 0.01	< 10	< 10	15	10	6
564847 H	299	229	0.01	< 1	350	< 2	44	1	3	< 0.01	< 10	< 10	24	10	6
564848 H	299	229	0.01	< 1	440	12	28	1	3	< 0.01	< 10	< 10	18	< 10	16
564849 H	299	229	< 0.01	2	460	14	10	1	7	< 0.01	< 10	< 10	9	< 10	28
564850 H	299	229	0.01	3	530	8	< 2	2	11	< 0.01	< 10	10	12	< 10	14
564851 H	299	229	0.01	7	740	8	2	3	9	< 0.01	< 10	< 10	19	< 10	28
564852 H	299	229	< 0.01	6	530	10	< 2	3	7	< 0.01	< 10	< 10	19	< 10	24
564853 H	299	229	< 0.01	5	590	14	< 2	3	7	< 0.01	< 10	< 10	19	< 10	30
564854 H	299	229	0.01	7	500	24	4	2	5	< 0.01	< 10	< 10	14	< 10	20
564855 H	299	229	< 0.01	6	650	12	2	5	7	< 0.01	< 10	< 10	29	< 10	26
564856 H	299	229	0.01	6	550	8	< 2	3	8	< 0.01	< 10	< 10	23	< 10	20
564857 H	299	229	0.01	5	500	12	< 2	3	8	< 0.01	< 10	< 10	20	< 10	28

CERTIFICATION: John D'Mar

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :19318906
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564858 H	299	229	2.6	0.95	< 2	30	< 0.5	4	0.20	< 0.5	29	91	2040	3.38	< 10	< 1	0.34	10	0.11	45	816
564859 H	299	229	1.6	0.75	8	20	< 0.5	< 2	0.13	< 0.5	27	88	1630	4.44	< 10	< 1	0.28	10	0.09	60	318
564860 H	299	229	2.0	0.68	2	30	< 0.5	6	0.15	< 0.5	34	84	1480	3.86	< 10	< 1	0.32	10	0.12	40	64
564861 H	299	229	1.2	1.02	12	20	< 0.5	2	0.14	< 0.5	29	80	1350	4.70	< 10	< 1	0.29	20	0.13	105	202
564862 H	299	229	1.8	0.78	8	30	< 0.5	< 2	0.13	< 0.5	30	83	1885	3.01	< 10	< 1	0.21	30	0.11	110	660
564863 H	299	229	2.2	1.62	6	30	< 0.5	< 2	0.14	< 0.5	49	91	2610	2.99	< 10	< 1	0.33	20	0.13	75	146
564864 H	299	229	2.2	1.47	14	40	< 0.5	2	0.16	< 0.5	28	115	2280	2.55	< 10	< 1	0.38	20	0.15	75	171
564865 H	299	229	3.4	0.66	12	20	< 0.5	< 2	0.14	< 0.5	27	52	3130	4.80	< 10	< 1	0.18	20	0.12	210	454
564866 H	299	229	1.4	1.36	6	30	< 0.5	< 2	0.16	< 0.5	38	101	1805	3.70	< 10	< 1	0.30	20	0.13	200	393
564867 H	299	229	1.6	0.62	12	30	< 0.5	4	0.16	< 0.5	29	62	2110	3.46	< 10	< 1	0.15	30	0.09	160	663
564868 H	299	229	1.6	1.19	18	40	< 0.5	< 2	0.16	< 0.5	31	86	1880	3.74	< 10	< 1	0.24	20	0.12	380	87
564869 H	299	229	2.6	1.37	30	10	< 0.5	2	0.14	< 0.5	54	96	1925	5.09	10	< 1	0.42	20	0.12	90	185
564870 H	299	229	2.2	0.60	8	60	< 0.5	2	0.14	< 0.5	35	49	2440	2.76	< 10	< 1	0.16	20	0.09	150	213
564871 H	299	229	2.0	1.20	6	20	< 0.5	< 2	0.13	< 0.5	44	87	1980	3.81	< 10	< 1	0.32	20	0.10	90	239
564872 H	299	229	1.6	0.73	2	70	< 0.5	< 2	0.15	< 0.5	33	107	2490	2.30	< 10	< 1	0.20	20	0.11	115	208
564873 H	299	229	2.2	1.28	2	40	< 0.5	< 2	0.13	< 0.5	30	103	2840	2.77	< 10	< 1	0.33	20	0.14	120	159
564874 H	299	229	3.0	1.00	22	20	< 0.5	< 2	0.19	< 0.5	36	112	3430	3.49	< 10	< 1	0.40	40	0.14	35	502
564875 H	299	229	3.6	0.41	12	10	< 0.5	< 2	0.22	< 0.5	34	55	3110	4.35	< 10	< 1	0.18	20	0.09	25	340
564876 H	299	229	2.2	1.20	8	60	< 0.5	< 2	0.15	< 0.5	32	95	1910	2.97	< 10	< 1	0.23	20	0.14	220	82
564877 H	299	229	2.0	0.48	6	80	< 0.5	< 2	0.13	< 0.5	28	29	2300	2.21	< 10	< 1	0.12	20	0.10	115	95
564878 H	299	229	1.4	1.01	< 2	20	< 0.5	< 2	0.19	< 0.5	62	92	1445	4.15	< 10	< 1	0.37	20	0.12	35	190
564879 H	299	229	1.6	1.12	< 2	40	< 0.5	< 2	0.12	< 0.5	42	110	1965	2.85	< 10	< 1	0.36	20	0.12	55	216
564880 H	299	229	1.8	0.87	20	40	< 0.5	< 2	0.19	< 0.5	32	84	2060	3.68	< 10	< 1	0.21	30	0.11	315	172
564881 H	299	229	2.2	1.62	2	100	< 0.5	< 2	0.14	< 0.5	28	127	2180	3.17	10	< 1	0.40	30	0.18	670	235
564882 H	299	229	1.8	1.05	< 2	60	< 0.5	2	0.16	< 0.5	26	113	1860	3.73	10	< 1	0.31	40	0.23	315	310
564883 H	299	229	2.2	1.60	2	40	< 0.5	< 2	0.12	< 0.5	41	103	2620	3.73	< 10	< 1	0.58	20	0.22	255	135
564884 H	299	229	2.2	1.07	8	110	< 0.5	< 2	0.15	< 0.5	26	116	3420	2.92	< 10	< 1	0.36	20	0.34	390	104
564885 H	299	229	1.4	1.55	< 2	110	< 0.5	< 2	0.15	< 0.5	29	130	2320	2.83	< 10	< 1	0.58	20	0.46	425	268
564886 H	299	229	1.4	1.03	< 2	130	< 0.5	< 2	0.22	< 0.5	27	152	2380	2.85	< 10	< 1	0.42	20	0.40	660	102
564887 H	299	229	1.2	1.85	2	80	< 0.5	< 2	0.19	< 0.5	31	104	2090	3.57	< 10	< 1	0.45	20	0.60	260	86
564888 H	299	229	2.0	1.12	8	90	< 0.5	< 2	0.24	< 0.5	24	102	2930	2.87	< 10	< 1	0.36	20	0.39	310	103
564889 H	299	229	2.0	1.48	< 2	120	< 0.5	< 2	0.21	< 0.5	26	140	2250	2.42	< 10	< 1	0.55	20	0.53	160	234
564890 H	299	229	1.8	1.53	< 2	120	< 0.5	< 2	0.22	< 0.5	27	145	2330	2.51	< 10	< 1	0.57	20	0.55	165	242
564891 H	299	229	1.8	1.53	< 2	120	< 0.5	< 2	0.22	< 0.5	27	142	2310	2.49	< 10	< 1	0.57	20	0.54	165	240
564892 H	299	229	1.8	1.52	8	120	< 0.5	< 2	0.22	< 0.5	26	143	2310	2.50	< 10	< 1	0.57	20	0.54	165	240
564893 H	299	229	0.2	0.20	< 2	10	< 0.5	< 2	0.02	< 0.5	2	18	282	0.28	< 10	< 1	0.07	< 10	0.07	15	27
564894 H	299	229	1.4	1.11	4	80	< 0.5	4	0.79	< 0.5	22	53	2030	2.70	< 10	< 1	0.37	20	1.17	135	41
564895 H	299	229	1.8	1.73	< 2	60	< 0.5	2	0.52	< 0.5	22	140	2290	3.21	< 10	< 1	0.52	20	1.03	100	100
564896 H	299	229	1.6	1.83	< 2	110	< 0.5	< 2	0.42	< 0.5	20	134	2040	2.27	10	< 1	0.55	20	0.96	135	120
564897 H	299	229	1.6	1.78	2	140	< 0.5	< 2	0.41	< 0.5	18	157	2260	2.16	< 10	< 1	0.67	20	0.68	120	162

CERTIFICATION: Jhai D Ma

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
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Page Number :4-B
Total Pages :6
Certificate Date: 25-AUG-93
Invoice No. :19318906
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CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564858 H	299	229	0.01	4	510	10	8	2	7	< 0.01	< 10	< 10	17	< 10	16
564859 H	299	229	< 0.01	4	520	6	2	2	5	< 0.01	< 10	< 10	13	< 10	24
564860 H	299	229	< 0.01	8	520	12	< 2	1	4	< 0.01	< 10	< 10	10	< 10	28
564861 H	299	229	< 0.01	4	550	8	2	3	4	< 0.01	< 10	< 10	19	< 10	30
564862 H	299	229	< 0.01	5	560	12	4	3	6	< 0.01	< 10	< 10	20	< 10	26
564863 H	299	229	0.01	6	640	6	< 2	4	7	< 0.01	< 10	< 10	30	< 10	38
564864 H	299	229	0.01	4	540	6	< 2	4	8	< 0.01	< 10	< 10	26	< 10	30
564865 H	299	229	< 0.01	4	540	6	4	3	6	< 0.01	< 10	< 10	20	< 10	36
564866 H	299	229	0.01	6	590	12	4	4	7	< 0.01	< 10	< 10	27	< 10	40
564867 H	299	229	< 0.01	3	580	14	6	4	5	< 0.01	< 10	< 10	22	< 10	32
564868 H	299	229	< 0.01	4	620	4	< 2	6	6	< 0.01	< 10	< 10	33	< 10	26
564869 H	299	229	0.01	4	670	12	< 2	3	6	< 0.01	< 10	10	23	< 10	54
564870 H	299	229	< 0.01	5	570	8	2	4	4	< 0.01	< 10	< 10	24	< 10	34
564871 H	299	229	< 0.01	5	540	12	4	2	6	< 0.01	< 10	< 10	18	< 10	52
564872 H	299	229	< 0.01	5	550	12	2	3	7	< 0.01	< 10	< 10	19	< 10	24
564873 H	299	229	0.01	6	520	10	< 2	4	7	< 0.01	< 10	< 10	25	< 10	26
564874 H	299	229	0.01	3	490	2	6	2	7	< 0.01	< 10	< 10	16	< 10	20
564875 H	299	229	< 0.01	5	520	6	4	1	4	< 0.01	< 10	< 10	10	< 10	20
564876 H	299	229	< 0.01	5	550	8	< 2	6	5	< 0.01	< 10	10	31	< 10	22
564877 H	299	229	< 0.01	4	500	4	< 2	3	4	< 0.01	< 10	10	18	< 10	16
564878 H	299	229	0.01	6	590	4	4	3	6	< 0.01	< 10	< 10	18	200	16
564879 H	299	229	0.01	6	490	4	2	3	6	< 0.01	< 10	< 10	19	10	16
564880 H	299	229	< 0.01	3	680	4	2	6	6	< 0.01	< 10	10	34	< 10	28
564881 H	299	229	0.01	5	540	4	< 2	7	9	< 0.01	< 10	10	46	< 10	16
564882 H	299	229	< 0.01	4	640	< 2	2	6	9	< 0.01	< 10	10	36	< 10	18
564883 H	299	229	0.01	4	490	< 2	< 2	4	10	< 0.01	< 10	10	31	< 10	18
564884 H	299	229	< 0.01	6	630	4	< 2	8	7	0.02	< 10	< 10	45	< 10	20
564885 H	299	229	0.01	6	430	< 2	2	7	8	0.03	< 10	< 10	49	< 10	20
564886 H	299	229	0.01	3	450	< 2	< 2	6	10	0.02	< 10	< 10	39	< 10	14
564887 H	299	229	0.01	5	540	4	< 2	7	10	0.01	< 10	< 10	42	< 10	22
564888 H	299	229	0.01	5	520	2	< 2	6	10	0.01	< 10	< 10	35	< 10	22
564889 H	299	229	0.01	4	490	4	2	6	10	0.03	< 10	< 10	42	< 10	22
564890 H	299	229	0.01	6	510	< 2	4	6	10	0.03	< 10	< 10	43	< 10	22
564891 H	299	229	0.01	6	510	2	2	6	10	0.03	< 10	< 10	43	< 10	22
564892 H	299	229	0.01	5	490	4	< 2	6	10	0.03	< 10	< 10	43	< 10	22
564893 H	299	229	< 0.01	< 1	70	< 2	< 2	< 1	1	< 0.01	< 10	< 10	4	< 10	2
564894 H	299	229	0.02	4	510	2	< 2	4	25	0.02	< 10	< 10	41	< 10	16
564895 H	299	229	0.01	4	460	< 2	2	4	23	0.01	< 10	< 10	35	< 10	14
564896 H	299	229	0.02	4	470	< 2	2	6	21	0.02	< 10	< 10	49	< 10	16
564897 H	299	229	0.01	5	540	< 2	2	6	17	0.02	< 10	10	45	< 10	12

CERTIFICATION: Jhai D'Ma

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CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564898 H	299	229	1.4	1.17	4	130	0.5	< 2	0.45	< 0.5	20	82	2160	2.06	< 10	< 1	0.52	30	0.75	115	124
564899 H	299	229	1.4	1.19	4	100	0.5	< 2	0.45	< 0.5	22	44	2040	2.31	< 10	< 1	0.44	30	0.76	90	50
564900 H	299	229	1.6	1.12	6	170	0.5	< 2	0.40	< 0.5	20	85	2440	1.84	< 10	< 1	0.45	20	0.68	135	84
564901 H	299	229	1.6	1.45	4	210	0.5	< 2	0.45	< 0.5	16	63	2570	1.92	< 10	< 1	0.62	30	0.92	145	192
564902 H	299	229	1.4	0.81	10	80	0.5	< 2	0.24	< 0.5	16	118	1620	3.04	< 10	< 1	0.37	20	0.33	35	384
564903 H	299	229	1.2	1.26	2	130	0.5	< 2	0.61	< 0.5	25	68	1920	2.51	< 10	< 1	0.49	20	0.81	125	33
564904 H	299	229	1.8	1.57	8	170	0.5	< 2	0.51	< 0.5	21	84	2770	2.15	< 10	< 1	0.61	30	1.05	155	84
564905 H	299	229	1.2	1.11	2	160	0.5	< 2	0.64	0.5	13	69	1530	1.80	< 10	< 1	0.53	50	0.81	100	552
564906 H	299	229	1.0	1.25	2	100	0.5	< 2	0.59	0.5	13	97	1360	2.43	< 10	< 1	0.47	40	0.91	80	203
564907 H	299	229	1.6	0.86	2	100	0.5	< 2	0.64	< 0.5	18	62	1875	2.26	< 10	< 1	0.46	20	0.68	95	353
564908 H	299	229	1.6	0.98	4	100	0.5	< 2	0.38	< 0.5	16	128	1855	2.49	< 10	< 1	0.52	20	0.63	75	392
564909 H	299	229	1.6	0.76	2	30	0.5	< 2	0.60	< 0.5	29	87	1490	4.59	< 10	< 1	0.44	20	0.45	70	281
564910 H	299	229	1.4	0.69	6	10	0.5	< 2	0.30	0.5	73	106	708	8.49	< 10	< 1	0.43	10	0.26	45	203
564911 H	299	229	2.0	0.82	2	20	0.5	< 2	0.45	< 0.5	41	88	1735	4.98	< 10	< 1	0.44	10	0.43	80	137
564912 H	299	229	1.8	0.70	16	10	0.5	< 2	0.30	< 0.5	160	117	1390	7.68	< 10	< 1	0.39	20	0.25	65	111
564913 H	299	229	2.8	0.81	12	110	< 0.5	< 2	0.15	< 0.5	25	96	3240	2.41	< 10	< 1	0.25	20	0.24	35	194
564914 H	299	229	2.2	1.25	12	90	0.5	< 2	0.19	< 0.5	22	137	2330	2.70	< 10	< 1	0.47	30	0.49	195	130
564915 H	299	229	2.4	0.79	2	60	< 0.5	< 2	0.20	< 0.5	19	80	3020	2.94	< 10	< 1	0.25	20	0.25	380	250
564916 H	299	229	2.6	0.80	6	40	< 0.5	< 2	0.15	< 0.5	26	95	3080	3.18	< 10	< 1	0.18	10	0.13	425	89
564917 H	299	229	2.8	0.48	14	20	0.5	< 2	0.94	< 0.5	24	90	3210	5.17	< 10	< 1	0.21	10	0.25	275	173
564918 H	299	229	3.0	0.57	2	80	< 0.5	8	1.46	< 0.5	19	119	3270	2.74	< 10	< 1	0.23	10	0.57	345	113
564919 H	299	229	2.8	0.55	2	60	0.5	4	0.76	< 0.5	24	102	2610	3.15	< 10	< 1	0.23	10	0.34	285	232
564920 H	299	229	2.6	0.66	6	60	0.5	< 2	0.64	< 0.5	20	126	2830	2.77	< 10	< 1	0.32	20	0.35	150	200
564921 H	299	229	1.8	0.80	< 2	60	0.5	2	0.82	< 0.5	23	94	2080	2.82	< 10	< 1	0.36	30	0.62	210	77
564922 H	299	229	1.6	0.75	6	40	0.5	< 2	0.33	< 0.5	33	102	1895	3.60	< 10	< 1	0.27	20	0.26	320	153
564923 H	299	229	2.8	0.58	4	30	0.5	4	0.61	< 0.5	22	92	3290	4.08	< 10	< 1	0.33	20	0.34	125	426
564924 H	299	229	2.4	0.70	6	40	0.5	< 2	0.20	< 0.5	20	117	3210	3.26	< 10	< 1	0.31	20	0.15	135	382
564925 H	299	229	2.4	0.70	2	20	0.5	8	0.14	< 0.5	20	117	2890	3.61	< 10	< 1	0.27	10	0.12	35	91
564926 H	299	229	3.0	0.70	2	30	0.5	2	0.13	< 0.5	21	91	2810	3.11	< 10	< 1	0.24	20	0.11	35	233
564927 H	299	229	1.4	0.53	< 2	20	0.5	2	0.20	< 0.5	13	132	1410	4.27	< 10	< 1	0.30	20	0.08	90	337
564928 H	299	229	3.6	0.49	4	30	0.5	2	0.17	< 0.5	15	98	2570	3.32	< 10	< 1	0.24	20	0.09	90	186
564929 H	299	229	1.6	0.63	2	20	0.5	< 2	0.12	< 0.5	18	129	1655	3.99	< 10	< 1	0.31	20	0.10	20	231
564930 H	299	229	3.6	0.49	8	20	0.5	4	0.14	0.5	18	79	3090	4.67	< 10	< 1	0.27	20	0.09	230	81
564931 H	299	229	4.8	0.65	22	20	0.5	12	0.14	< 0.5	22	119	3450	4.10	< 10	< 1	0.24	20	0.11	110	329
564932 H	299	229	2.2	0.56	6	30	0.5	< 2	0.14	< 0.5	16	85	2520	4.14	< 10	< 1	0.22	20	0.11	115	208
564933 H	299	229	1.6	0.91	12	10	0.5	< 2	0.21	< 0.5	20	190	1630	5.96	< 10	< 1	0.50	10	0.13	300	115
564934 H	299	229	1.2	0.60	4	10	0.5	4	0.09	< 0.5	16	111	1135	5.97	< 10	< 1	0.26	10	0.08	60	255
564935 H	299	229	1.4	0.64	4	60	0.5	< 2	0.15	< 0.5	22	110	1960	2.48	< 10	< 1	0.16	20	0.10	95	116
564936 H	299	229	1.6	0.44	6	30	< 0.5	< 2	0.13	< 0.5	20	92	2150	2.84	< 10	< 1	0.17	10	0.08	35	190
564937 H	299	229	1.4	0.63	6	20	< 0.5	< 2	0.17	< 0.5	18	94	2100	3.63	< 10	< 1	0.27	20	0.10	100	111

CERTIFICATION: John D'Mar

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :I9318906
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564898 H	299	229	0.01	4	510	4	< 2	4	21	0.02	< 10	< 10	33	< 10	16
564899 H	299	229	0.01	4	500	12	< 2	4	23	0.02	< 10	< 10	32	< 10	18
564900 H	299	229	0.01	3	450	2	< 2	4	19	0.02	< 10	< 10	33	< 10	22
564901 H	299	229	0.01	3	560	12	2	8	21	0.04	< 10	< 10	52	< 10	26
564902 H	299	229	0.01	3	390	6	< 2	4	10	0.01	< 10	< 10	23	< 10	16
564903 H	299	229	0.01	3	490	6	< 2	6	24	0.03	< 10	< 10	39	< 10	26
564904 H	299	229	0.02	3	470	6	< 2	7	26	0.04	< 10	< 10	53	< 10	28
564905 H	299	229	0.01	4	490	10	< 2	6	24	0.03	< 10	< 10	37	< 10	28
564906 H	299	229	0.01	4	510	12	< 2	4	24	0.02	< 10	< 10	30	< 10	40
564907 H	299	229	0.01	4	500	6	< 2	4	18	0.02	< 10	< 10	26	< 10	28
564908 H	299	229	0.01	4	460	4	2	5	13	0.04	< 10	< 10	31	< 10	28
564909 H	299	229	0.01	4	340	6	< 2	3	16	0.02	< 10	< 10	19	< 10	20
564910 H	299	229	0.01	11	360	8	< 2	1	7	< 0.01	< 10	< 10	9	< 10	18
564911 H	299	229	0.01	6	450	4	< 2	3	9	< 0.01	< 10	< 10	16	< 10	24
564912 H	299	229	0.01	7	410	6	< 2	2	7	< 0.01	< 10	< 10	10	320	22
564913 H	299	229	< 0.01	6	510	8	< 2	6	6	0.01	< 10	< 10	26	< 10	30
564914 H	299	229	0.01	5	660	8	< 2	9	7	0.04	< 10	< 10	44	< 10	32
564915 H	299	229	< 0.01	6	500	4	< 2	7	7	0.01	< 10	< 10	30	< 10	28
564916 H	299	229	< 0.01	4	520	4	< 2	7	6	< 0.01	< 10	< 10	28	< 10	28
564917 H	299	229	< 0.01	4	330	4	< 2	3	13	< 0.01	< 10	< 10	12	< 10	28
564918 H	299	229	< 0.01	5	460	14	2	6	13	< 0.01	< 10	< 10	21	< 10	26
564919 H	299	229	< 0.01	4	480	16	< 2	3	8	< 0.01	< 10	< 10	13	< 10	24
564920 H	299	229	< 0.01	6	510	12	< 2	4	9	< 0.01	< 10	< 10	15	< 10	18
564921 H	299	229	0.01	4	530	4	< 2	6	10	0.01	< 10	< 10	25	10	20
564922 H	299	229	< 0.01	7	630	< 2	< 2	6	6	< 0.01	< 10	< 10	24	< 10	22
564923 H	299	229	< 0.01	6	450	< 2	< 2	3	8	< 0.01	< 10	< 10	12	90	16
564924 H	299	229	< 0.01	5	500	2	< 2	3	6	< 0.01	< 10	< 10	14	< 10	18
564925 H	299	229	< 0.01	6	530	8	< 2	2	5	< 0.01	< 10	< 10	11	< 10	18
564926 H	299	229	< 0.01	6	550	10	< 2	4	4	< 0.01	< 10	< 10	15	< 10	20
564927 H	299	229	0.01	6	450	2	< 2	1	6	< 0.01	< 10	< 10	5	< 10	12
564928 H	299	229	< 0.01	6	530	8	< 2	1	6	< 0.01	< 10	< 10	6	< 10	20
564929 H	299	229	< 0.01	6	510	8	< 2	1	5	< 0.01	< 10	< 10	7	< 10	16
564930 H	299	229	< 0.01	5	460	38	2	2	6	< 0.01	< 10	< 10	7	< 10	30
564931 H	299	229	< 0.01	6	460	40	4	2	6	< 0.01	< 10	< 10	9	< 10	28
564932 H	299	229	< 0.01	4	440	4	< 2	2	4	< 0.01	< 10	< 10	8	< 10	20
564933 H	299	229	0.01	8	520	2	< 2	2	6	< 0.01	< 10	< 10	11	< 10	16
564934 H	299	229	< 0.01	6	350	6	< 2	1	3	< 0.01	< 10	< 10	7	< 10	20
564935 H	299	229	< 0.01	7	640	12	< 2	4	4	< 0.01	< 10	< 10	13	< 10	24
564936 H	299	229	< 0.01	5	470	4	< 2	2	4	< 0.01	< 10	< 10	8	< 10	18
564937 H	299	229	< 0.01	5	460	2	< 2	2	6	< 0.01	< 10	< 10	10	< 10	16

CERTIFICATION: Jhai D Ma

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ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 179
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :6-A
Total Pages :6
Certificate Date: 25-AUG-93
Invoice No. :I9318906
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564938 H	299	229	2.4	0.54	6	50	< 0.5	< 2	0.16	< 0.5	17	67	3690	3.11	< 10	< 1	0.16	20	0.11	130	235
564939 H	299	229	1.8	1.18	6	60	< 0.5	< 2	0.19	< 0.5	17	144	2560	2.55	< 10	< 1	0.31	20	0.14	185	118
564940 H	299	229	2.0	0.92	4	30	< 0.5	< 2	0.24	< 0.5	19	129	2540	3.79	< 10	< 1	0.36	20	0.14	295	118
564941 H	299	229	2.0	1.19	2	80	< 0.5	< 2	0.21	< 0.5	21	115	2770	2.69	< 10	< 1	0.25	20	0.17	390	89
564942 H	299	229	1.8	0.43	8	50	< 0.5	< 2	0.35	< 0.5	14	76	2590	2.97	< 10	< 1	0.14	20	0.14	425	56
564943 H	299	229	2.0	0.74	12	40	< 0.5	< 2	1.18	< 0.5	15	124	2680	2.92	< 10	< 1	0.30	20	0.50	365	195
564944 H	299	229	1.6	0.26	4	30	< 0.5	< 2	1.03	< 0.5	20	62	2320	2.97	< 10	< 1	0.14	10	0.53	130	110
564945 H	299	229	1.4	0.66	4	80	< 0.5	< 2	0.46	< 0.5	14	141	1855	1.89	< 10	< 1	0.32	20	0.23	95	403

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Total Pages :6
Certificate Date: 25-AUG-93
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CERTIFICATE OF ANALYSIS A9318906

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564938 H	299	229	< 0.01	6	510	2	< 2	4	5	< 0.01	< 10	< 10	13	< 10	18
564939 H	299	229	0.01	6	530	6	< 2	4	7	< 0.01	< 10	< 10	21	< 10	20
564940 H	299	229	0.01	6	480	2	< 2	3	7	< 0.01	< 10	< 10	16	< 10	18
564941 H	299	229	< 0.01	6	560	8	< 2	8	7	< 0.01	< 10	< 10	32	< 10	22
564942 H	299	229	< 0.01	6	510	4	< 2	5	6	< 0.01	< 10	< 10	17	< 10	20
564943 H	299	229	0.01	6	470	4	4	4	9	< 0.01	< 10	< 10	18	< 10	18
564944 H	299	229	< 0.01	4	310	2	2	3	8	< 0.01	< 10	< 10	15	< 10	16
564945 H	299	229	0.01	4	380	< 2	2	2	9	< 0.01	< 10	< 10	10	< 10	12

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Project : CASINO 180
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Certificate Date: 11-AUG-93
Invoice No. :I9318407
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CERTIFICATE OF ANALYSIS A9318407

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
573638 H	208 274	0.16	0.004	0.07	2340
573639 H	208 274	0.44	0.004	0.10	3180
573640 H	208 274	0.46	0.006	0.07	6240
573641 H	208 274	0.51	0.003	0.21	5260
573642 H	208 274	0.22	0.004	0.07	4350
573643 H	208 274	0.17	0.011	0.07	6480
573644 H	208 274	0.16	0.003	0.07	4440
573645 H	208 273	0.29	0.003	0.21	13150
573646 H	208 276	0.34	0.013	0.21	9200
573647 H	208 276	0.30	0.007	0.17	10840
573648 H	208 276	0.31	0.007	0.10	9780
573649 H	208 276	0.34	0.009	0.10	9380
573650 H	208 276	0.19	0.003	0.14	10900
573651 H	208 276	0.17	0.005	0.10	9950
573652 H	208 274	0.19	0.002	0.34	4780
573653 H	208 274	0.10	0.001	0.07	6000
573654 H	208 276	0.19	0.003	0.10	11560
573655 H	208 276	0.34	0.004	0.34	9000
573656 H	208 276	0.22	0.004	0.34	9600
573657 H	208 276	0.13	0.002	0.10	10200
573658 H	208 274	0.18	0.002	0.17	6760
573659 H	208 273	0.18	0.007	0.17	14250
573660 H	208 276	0.13	0.003	0.14	11700
573661 H	208 274	0.17	0.002	0.14	4180
573662 H	208 276	0.20	0.003	0.24	11300
573663 H	208 276	0.18	0.002	0.14	8000
573664 H	208 276	0.11	0.001	0.10	7960
573665 H	208 276	0.10	0.002	0.07	10920
573666 H	208 276	0.10	0.002	0.10	7540
573667 H	208 276	0.10	0.004	0.10	9280
573668 H	208 273	0.08	0.002	0.10	14520
573669 H	208 276	0.14	0.002	0.17	10320
573670 H	208 276	0.41	0.004	2.54	11420
573671 H	208 276	0.09	0.002	0.10	11000
573672 H	208 276	0.11	0.005	0.14	7760
573673 H	208 274	0.27	0.001	0.34	5680
573674 H	208 274	0.16	0.008	0.21	6950
573675 H	208 274	0.13	0.001	0.17	1575
573676 H	208 276	0.28	0.004	0.38	11520
573677 H	208 274	0.16	0.065	0.55	5160

CERTIFICATION: A Chatu

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Project : CASINO 180
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-AUG-93
Invoice No. :19318407
P.O. Number :
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CERTIFICATE OF ANALYSIS A9318407

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
573678 H	208	274	0.09	0.030	0.58	5520
573679 H	208	276	0.25	0.014	0.34	10500
573680 H	208	276	0.25	0.010	0.31	11760
573681 H	208	273	0.19	0.011	0.21	11940
573682 H	208	276	0.21	0.007	0.31	11640
573683 H	208	273	0.21	0.006	0.24	12200
573684 H	208	273	0.15	0.003	0.14	12060
573685 H	208	273	0.13	0.003	0.14	12280
573686 H	208	276	0.16	0.005	0.21	11320
573687 H	208	276	0.17	0.006	0.24	11540
573688 H	208	276	0.15	0.018	0.14	9660
573689 H	208	273	0.13	0.002	0.17	13540
573690 H	208	273	0.15	0.001	0.14	11980
573691 H	208	273	0.20	0.002	0.21	14500
573692 H	208	273	0.15	0.003	0.10	13500
573693 H	208	273	0.19	0.010	0.21	12820
573694 H	208	273	0.26	0.005	0.31	13340
573695 H	208	273	0.25	0.003	0.24	12600
573696 H	208	273	0.43	0.003	0.55	13740
573697 H	208	273	0.33	0.005	0.21	15000
573698 H	208	273	0.14	0.014	0.17	14220
573699 H	208	273	0.21	0.008	0.17	13480
573700 H	208	273	0.26	0.009	0.21	13200
573701 H	208	273	0.27	0.004	0.31	13540
573702 H	208	273	0.16	0.018	0.17	13820
573703 H	208	273	0.11	0.002	0.10	13580
573704 H	208	273	0.13	0.009	0.14	12620
573705 H	208	273	0.15	0.004	0.17	13240
573706 H	208	273	0.11	0.015	0.14	12580
573707 H	208	273	0.22	0.006	0.21	12600
573708 H	208	273	0.13	0.012	0.14	12660
573709 H	208	273	0.15	0.015	0.17	13740
573710 H	208	273	0.14	0.006	0.14	13240
573711 H	208	273	0.22	0.009	0.17	13200
573712 H	208	273	0.15	0.004	0.17	13080
573713 H	208	273	0.19	0.006	0.17	12760
573714 H	208	273	0.09	0.009	0.10	13360
573715 H	208	273	0.21	0.007	0.24	13060
573716 H	208	273	0.19	0.016	0.21	13160
573717 H	208	273	0.19	0.114	0.14	13640

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
573718 H	208 273	0.15	0.008	0.17	14040
573719 H	208 273	0.38	0.009	0.31	13080
573720 H	208 273	0.36	0.008	0.27	13420
573721 H	208 273	0.13	0.004	0.14	13300
573722 H	208 273	0.21	0.024	0.24	13380
573723 H	208 273	0.13	0.023	0.14	12580
573724 H	208 273	0.21	0.009	0.17	13080
573725 H	208 273	0.16	0.003	0.10	13660
573726 H	208 276	0.14	0.009	0.10	11720
573727 H	208 273	0.19	0.006	0.17	12600
573728 H	208 273	0.22	0.010	0.17	13180
573729 H	208 273	0.12	0.002	0.10	13120
573730 H	208 273	0.08	0.007	0.07	12940
573731 H	208 273	0.05	0.001	0.03	13300
573732 H	208 273	0.29	0.005	0.17	13540
573733 H	208 273	0.24	0.024	0.69	14960
573734 H	208 276	0.13	0.004	0.10	7320
573735 H	208 276	0.11	0.002	0.10	11620
573736 H	208 273	0.16	0.009	0.10	14640
573737 H	208 276	0.11	0.015	0.10	9860
573738 H	208 273	0.07	0.003	0.07	13380
573739 H	208 270	0.12	0.004	0.03	17460
573740 H	208 273	0.15	0.002	0.07	14220
573741 H	208 273	0.07	0.006	< 0.03	14320
573742 H	208 273	0.08	0.006	0.07	12260
573743 H	208 273	0.12	0.005	0.31	13180
573744 H	208 273	0.40	0.004	0.89	13580
573745 H	208 273	0.22	0.006	0.24	13600
573746 H	208 273	0.07	0.006	0.14	12560
573747 H	208 273	0.09	0.006	0.10	12980
573748 H	208 273	0.14	0.008	0.27	12120
573749 H	208 273	0.12	0.004	0.14	11880
573750 H	208 273	0.14	0.006	0.21	14260
573751 H	208 273	0.37	0.007	0.38	13440
573752 H	208 273	0.20	0.002	0.17	14140
573753 H	208 273	0.31	0.003	0.34	12360
573754 H	208 273	0.34	0.004	0.31	13860
573755 H	208 273	0.14	0.006	0.10	12720
573756 H	208 273	0.23	0.001	0.17	14080
573757 H	208 273	0.13	0.008	0.10	13420

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
573758 H	208	273	0.11	0.003	0.07	14100
573759 H	208	273	0.36	0.003	0.27	13500
573760 H	208	273	0.17	0.005	0.31	12880
573761 H	208	273	0.19	0.003	0.07	13400
573762 H	208	273	0.12	0.005	0.07	12700
573763 H	208	273	0.11	0.005	0.07	14360
573764 H	208	273	0.12	0.018	0.07	13320
573765 H	208	273	0.15	0.003	0.10	13640
573766 H	208	273	0.10	0.001	0.03	13360

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Project : CASINO 180
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-AUG-93
Invoice No. : I9318408
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318408

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573638 H	299	229	1.2	2.52	2	380	< 0.5	< 2	0.13	< 0.5	12	79	1620	2.66	< 10	< 1	0.56	10	0.63	45	21
573639 H	299	229	0.8	3.19	26	110	< 0.5	< 2	0.36	< 0.5	31	72	4760	3.76	10	< 1	0.67	30	1.11	75	17
573640 H	299	229	0.6	3.18	< 2	210	< 0.5	12	0.34	< 0.5	27	50	4820	3.86	10	< 1	0.62	30	1.21	100	26
573641 H	299	229	1.0	3.05	16	150	< 0.5	14	0.38	< 0.5	27	57	5530	3.52	10	< 1	0.78	30	1.27	140	12
573642 H	299	229	0.8	0.82	22	80	< 0.5	4	0.07	< 0.5	14	126	2340	1.31	< 10	< 1	0.24	10	0.05	15	24
573643 H	299	229	0.2	0.83	24	110	< 0.5	6	0.07	< 0.5	15	215	1840	1.39	< 10	< 1	0.31	10	0.03	15	69
573644 H	299	229	0.4	0.76	26	100	< 0.5	< 2	0.06	< 0.5	12	144	1715	1.34	< 10	< 1	0.29	20	0.03	10	20
573645 H	299	229	0.8	0.82	36	100	< 0.5	< 2	0.06	< 0.5	22	173	3150	1.51	< 10	< 1	0.28	10	0.03	15	21
573646 H	299	229	1.2	0.85	32	180	< 0.5	< 2	0.07	< 0.5	18	137	3570	1.49	< 10	< 1	0.31	20	0.03	10	93
573647 H	299	229	1.0	0.64	30	210	< 0.5	< 2	0.09	< 0.5	15	144	3220	1.34	< 10	< 1	0.23	20	0.03	20	45
573648 H	299	229	0.8	0.59	26	120	< 0.5	4	0.06	< 0.5	24	102	3370	1.93	< 10	< 1	0.20	20	0.02	10	47
573649 H	299	229	0.6	0.72	24	150	< 0.5	< 2	0.08	< 0.5	21	106	3890	1.55	< 10	< 1	0.20	20	0.03	25	58
573650 H	299	229	0.6	0.36	14	80	< 0.5	< 2	0.11	< 0.5	18	120	1960	1.30	< 10	< 1	0.16	10	0.04	40	20
573651 H	299	229	0.6	1.36	20	110	< 0.5	< 2	0.34	1.0	38	126	1770	2.88	< 10	< 1	0.57	10	0.67	360	32
573652 H	299	229	0.8	1.32	28	130	< 0.5	< 2	0.58	2.0	36	123	1915	3.46	< 10	< 1	0.50	20	0.68	500	6
573653 H	299	229	0.4	2.12	< 2	150	< 0.5	< 2	1.86	0.5	30	123	962	3.47	< 10	< 1	0.88	10	1.51	290	3
573654 H	299	229	0.6	2.16	16	170	< 0.5	< 2	0.66	< 0.5	33	101	1855	3.53	< 10	< 1	0.93	20	1.43	345	16
573655 H	299	229	0.6	3.63	8	110	1.0	< 2	0.49	0.5	39	161	3390	5.23	10	< 1	1.95	10	2.82	585	21
573656 H	299	229	1.6	4.43	36	40	1.0	< 2	1.47	1.5	43	173	2280	5.56	10	< 1	1.11	10	2.23	770	15
573657 H	299	229	0.6	1.35	10	60	1.0	8	1.98	1.5	39	120	1365	4.68	10	< 1	0.56	20	1.29	515	9
573658 H	299	229	1.0	1.64	12	120	< 0.5	8	2.63	0.5	26	106	1860	3.80	10	< 1	0.62	10	1.09	320	11
573659 H	299	229	0.8	1.37	6	130	< 0.5	< 2	1.56	1.0	31	108	1820	3.31	10	< 1	0.51	30	0.86	250	39
573660 H	299	229	0.8	2.12	< 2	150	< 0.5	8	1.44	0.5	28	121	1300	3.82	10	< 1	0.65	20	1.21	135	19
573661 H	299	229	0.8	3.56	< 2	250	< 0.5	< 2	1.22	1.0	34	41	1660	5.20	10	< 1	1.09	10	2.37	215	4
573662 H	299	229	1.6	2.59	8	170	< 0.5	< 2	1.35	0.5	25	56	2050	4.44	10	< 1	0.62	10	1.75	210	13
573663 H	299	229	1.2	3.05	< 2	150	< 0.5	6	0.95	1.0	25	63	1700	4.61	10	< 1	0.98	10	1.90	185	3
573664 H	299	229	0.8	3.42	< 2	200	< 0.5	< 2	1.22	0.5	24	64	1095	4.95	10	< 1	0.99	10	2.03	200	3
573665 H	299	229	0.8	2.76	6	100	< 0.5	< 2	1.18	0.5	26	75	1025	4.39	10	< 1	0.92	10	1.79	170	7
573666 H	299	229	1.6	2.52	< 2	60	< 0.5	4	3.04	0.5	26	70	1120	4.96	10	< 1	0.66	20	1.38	285	10
573667 H	299	229	1.0	3.26	24	50	< 0.5	4	2.59	< 0.5	47	37	1015	5.99	10	< 1	0.84	10	2.05	280	16
573668 H	299	229	0.8	3.69	6	80	< 0.5	6	2.04	0.5	20	63	832	5.41	10	< 1	0.84	10	2.06	265	6
573669 H	299	229	1.2	1.82	32	50	< 0.5	< 2	2.39	0.5	36	75	1425	4.55	10	< 1	0.41	10	1.00	640	6
573670 H	299	229	11.0	1.65	1065	20	< 0.5	34	2.04	10.0	25	82	4400	5.77	10	< 1	0.55	10	0.85	1000	16
573671 H	299	229	0.6	2.03	< 2	180	< 0.5	< 2	1.08	0.5	22	141	942	3.37	10	< 1	0.66	20	1.27	160	12
573672 H	299	229	0.6	1.81	16	160	< 0.5	< 2	0.99	< 0.5	20	140	1090	2.99	10	< 1	0.47	20	1.17	170	23
573673 H	299	229	1.8	1.88	18	90	< 0.5	20	1.87	< 0.5	32	142	3000	3.99	< 10	< 1	0.30	20	0.87	300	7
573674 H	299	229	0.8	2.03	16	90	< 0.5	12	1.76	< 0.5	28	115	1720	3.62	< 10	< 1	0.53	20	1.10	280	44
573675 H	299	229	0.8	2.88	8	260	< 0.5	< 2	1.69	< 0.5	22	82	1360	3.98	10	< 1	0.82	20	1.61	265	4
573676 H	299	229	2.0	1.37	24	100	< 0.5	6	2.01	< 0.5	19	163	2860	2.51	< 10	< 1	0.37	20	0.63	265	14
573677 H	299	229	1.8	0.94	14	< 10	< 0.5	92	1.24	< 0.5	13	135	1640	>15.00	< 10	< 1	0.46	10	0.40	160	320

CERTIFICATION: Ian Buchler

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Project : CASINO 180
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :4
Certificate Date: 16-AUG-93
Invoice No. :19318408
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318408

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573638 H	299	229	0.02	8	570	14	6	7	14	0.05	< 10	< 10	48	< 10	24
573639 H	299	229	0.02	10	1500	8	2	9	37	0.06	< 10	< 10	81	< 10	34
573640 H	299	229	0.02	12	1020	8	< 2	9	14	0.06	< 10	10	80	< 10	36
573641 H	299	229	0.03	12	970	12	< 2	11	20	0.08	< 10	< 10	93	< 10	102
573642 H	299	229	0.01	6	280	4	16	1	6	< 0.01	< 10	< 10	6	< 10	18
573643 H	299	229	0.01	24	210	12	22	< 1	7	< 0.01	< 10	10	4	< 10	18
573644 H	299	229	0.01	3	180	4	14	< 1	7	< 0.01	< 10	< 10	3	< 10	22
573645 H	299	229	0.01	9	240	6	28	< 1	7	< 0.01	< 10	< 10	4	< 10	20
573646 H	299	229	0.01	7	260	8	38	< 1	7	< 0.01	< 10	10	4	< 10	22
573647 H	299	229	0.01	6	230	4	24	< 1	8	< 0.01	< 10	< 10	3	< 10	20
573648 H	299	229	0.01	8	220	10	28	< 1	6	< 0.01	< 10	< 10	3	< 10	50
573649 H	299	229	0.01	7	310	10	20	1	7	< 0.01	< 10	< 10	6	< 10	26
573650 H	299	229	0.01	6	170	14	8	< 1	6	< 0.01	< 10	< 10	2	< 10	22
573651 H	299	229	0.01	19	340	4	4	7	18	0.03	< 10	< 10	62	< 10	100
573652 H	299	229	0.01	26	690	12	2	10	11	0.04	< 10	< 10	55	< 10	92
573653 H	299	229	0.03	18	520	< 2	< 2	12	26	0.09	< 10	< 10	84	< 10	56
573654 H	299	229	0.03	23	740	4	< 2	9	20	0.10	< 10	< 10	70	< 10	88
573655 H	299	229	0.06	42	700	< 2	< 2	18	20	0.26	< 10	< 10	144	10	128
573656 H	299	229	0.10	52	820	< 2	< 2	12	53	0.16	< 10	< 10	112	20	146
573657 H	299	229	0.01	34	580	16	< 2	10	26	0.04	< 10	< 10	68	10	96
573658 H	299	229	0.01	23	730	6	8	9	29	0.05	< 10	< 10	61	10	56
573659 H	299	229	0.02	20	590	6	10	6	27	0.03	< 10	< 10	36	< 10	54
573660 H	299	229	0.05	13	820	8	2	7	28	0.06	< 10	< 10	63	< 10	30
573661 H	299	229	0.09	6	1300	< 2	2	15	42	0.18	< 10	< 10	144	10	46
573662 H	299	229	0.05	4	1380	2	4	8	29	0.11	< 10	< 10	90	< 10	52
573663 H	299	229	0.18	4	1220	< 2	4	13	67	0.24	< 10	< 10	124	10	42
573664 H	299	229	0.24	4	1380	< 2	< 2	14	93	0.27	< 10	< 10	146	10	32
573665 H	299	229	0.14	4	1040	4	2	13	54	0.13	< 10	< 10	120	< 10	42
573666 H	299	229	0.02	5	1070	12	4	12	39	0.06	< 10	< 10	100	10	52
573667 H	299	229	0.07	3	1250	< 2	< 2	15	46	0.11	< 10	< 10	135	10	50
573668 H	299	229	0.21	3	1370	8	2	15	95	0.14	< 10	< 10	134	20	54
573669 H	299	229	0.05	2	1200	< 2	8	7	47	0.02	< 10	< 10	65	10	46
573670 H	299	229	0.03	4	1060	36	258	6	41	0.02	< 10	< 10	46	< 10	314
573671 H	299	229	0.09	7	680	2	2	10	39	0.08	< 10	< 10	73	< 10	30
573672 H	299	229	0.06	8	570	18	2	8	30	0.03	< 10	< 10	58	< 10	34
573673 H	299	229	0.02	6	840	6	2	4	45	< 0.01	< 10	< 10	37	< 10	72
573674 H	299	229	0.04	6	960	2	12	7	50	0.03	< 10	< 10	54	< 10	32
573675 H	299	229	0.08	6	1180	4	2	9	61	0.09	< 10	< 10	87	< 10	46
573676 H	299	229	0.01	4	810	6	4	3	40	< 0.01	< 10	< 10	27	< 10	22
573677 H	299	229	0.01	1	950	30	2	3	34	0.01	< 10	< 10	25	< 10	18

CERTIFICATION: Ian Buchanan

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WHITEHORSE, YT
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Project : CASINO 180
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-AUG-93
Invoice No. :I9318408
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318408

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573678 H	299	229	0.8	0.40	16	10	< 0.5	38	1.27	< 0.5	22	62	958	>15.00	< 10	< 1	0.27	10	0.47	105	170
573679 H	299	229	1.4	0.91	12	40	< 0.5	< 2	2.35	< 0.5	17	48	2560	4.66	< 10	< 1	0.43	10	1.14	170	81
573680 H	299	229	1.4	1.16	18	180	< 0.5	2	2.63	< 0.5	18	65	2630	2.06	< 10	< 1	0.30	20	1.05	160	63
573681 H	299	229	1.2	1.03	12	310	< 0.5	6	2.65	< 0.5	10	128	1970	1.50	< 10	< 1	0.30	20	1.10	210	67
573682 H	299	229	1.2	1.03	16	160	< 0.5	< 2	2.58	< 0.5	22	82	2250	2.41	< 10	< 1	0.26	20	0.93	220	39
573683 H	299	229	1.2	0.59	20	110	< 0.5	< 2	1.23	< 0.5	14	118	2180	1.18	< 10	< 1	0.21	20	0.27	90	38
573684 H	299	229	1.0	0.81	2	90	< 0.5	2	1.74	< 0.5	12	113	1485	1.31	< 10	< 1	0.20	30	0.35	80	17
573685 H	299	229	0.6	1.11	8	90	< 0.5	6	1.94	< 0.5	11	115	1360	1.67	< 10	< 1	0.22	20	0.53	120	18
573686 H	299	229	0.8	1.18	20	150	< 0.5	6	2.32	< 0.5	15	117	1750	1.97	< 10	< 1	0.27	20	0.65	225	26
573687 H	299	229	0.8	1.57	12	110	< 0.5	< 2	2.07	< 0.5	17	99	1690	2.56	< 10	< 1	0.28	10	1.00	245	34
573688 H	299	229	3.0	2.08	22	190	< 0.5	6	1.87	< 0.5	19	77	1450	3.42	< 10	< 1	0.45	10	1.36	420	114
573689 H	299	229	1.2	1.92	20	220	< 0.5	4	1.67	< 0.5	17	96	1285	2.88	< 10	< 1	0.45	10	1.16	375	9
573690 H	299	229	1.0	1.64	30	200	< 0.5	< 2	2.43	< 0.5	15	87	1485	2.65	< 10	< 1	0.33	20	0.96	350	1
573691 H	299	229	1.2	3.79	32	70	< 0.5	< 2	2.55	< 0.5	30	78	2050	4.75	< 10	< 1	1.67	< 10	2.92	310	6
573692 H	299	229	0.6	2.44	10	190	< 0.5	4	2.63	< 0.5	23	71	1590	3.64	< 10	< 1	0.75	10	1.54	185	15
573693 H	299	229	0.8	2.79	14	290	< 0.5	14	3.40	< 0.5	25	65	1930	4.43	10	< 1	0.91	10	1.99	245	49
573694 H	299	229	1.4	2.00	40	150	< 0.5	4	2.26	< 0.5	18	55	2730	2.89	< 10	< 1	0.56	20	1.28	125	27
573695 H	299	229	1.2	1.81	24	160	< 0.5	6	2.37	< 0.5	19	76	2470	3.13	< 10	< 1	0.55	20	1.08	190	12
573696 H	299	229	5.6	1.43	56	70	< 0.5	140	2.73	< 0.5	21	64	4430	3.72	< 10	< 1	0.31	10	0.95	280	11
573697 H	299	229	3.2	1.40	30	100	< 0.5	58	2.31	< 0.5	23	69	3490	3.67	< 10	< 1	0.38	10	1.00	250	29
573698 H	299	229	2.0	1.17	40	230	< 0.5	6	2.28	< 0.5	14	88	1440	1.84	< 10	< 1	0.34	10	0.73	270	79
573699 H	299	229	1.8	1.36	26	230	< 0.5	12	1.53	< 0.5	17	139	2180	1.72	< 10	< 1	0.28	20	0.62	130	42
573700 H	299	229	2.0	0.86	58	270	< 0.5	4	2.02	< 0.5	14	101	2810	1.36	< 10	< 1	0.18	20	0.83	150	51
573701 H	299	229	1.4	0.94	58	200	< 0.5	2	1.80	< 0.5	18	99	2810	2.49	< 10	< 1	0.10	20	0.69	585	18
573702 H	299	229	0.8	0.95	36	320	< 0.5	< 2	1.83	< 0.5	16	83	1640	1.58	< 10	< 1	0.12	20	0.78	150	106
573703 H	299	229	0.6	1.43	2	100	< 0.5	< 2	0.98	< 0.5	13	96	1110	2.39	< 10	< 1	0.25	20	1.03	140	9
573704 H	299	229	0.8	0.81	26	250	< 0.5	2	1.76	< 0.5	14	98	1410	1.56	< 10	< 1	0.22	20	0.55	120	53
573705 H	299	229	1.6	0.50	18	120	< 0.5	4	1.70	< 0.5	19	110	1575	2.17	< 10	< 1	0.23	10	0.51	175	22
573706 H	299	229	0.8	0.73	16	210	< 0.5	< 2	1.72	< 0.5	17	126	1055	1.35	< 10	< 1	0.20	20	0.63	130	89
573707 H	299	229	1.2	1.04	18	180	< 0.5	< 2	1.93	< 0.5	12	114	2220	1.37	< 10	< 1	0.25	20	0.53	135	35
573708 H	299	229	1.2	0.95	16	290	< 0.5	< 2	2.21	< 0.5	11	119	1375	1.41	< 10	< 1	0.27	30	0.44	135	74
573709 H	299	229	0.8	1.00	4	270	< 0.5	< 2	1.72	< 0.5	9	149	1500	1.51	< 10	< 1	0.26	30	0.51	160	85
573710 H	299	229	0.8	1.07	32	340	< 0.5	12	1.94	< 0.5	13	113	1395	1.93	< 10	< 1	0.20	20	0.56	170	30
573711 H	299	229	1.0	0.93	54	490	< 0.5	< 2	2.25	< 0.5	9	138	2270	1.58	< 10	< 1	0.25	20	0.66	270	54
573712 H	299	229	0.6	1.04	2	200	< 0.5	< 2	2.06	< 0.5	11	92	1460	1.62	< 10	< 1	0.21	20	0.53	105	16
573713 H	299	229	1.2	0.78	56	280	< 0.5	< 2	2.23	< 0.5	11	130	1845	1.62	< 10	< 1	0.24	20	0.42	175	27
573714 H	299	229	0.4	0.86	44	280	< 0.5	< 2	1.85	< 0.5	12	108	849	1.65	< 10	< 1	0.22	20	0.58	160	56
573715 H	299	229	0.8	0.74	22	300	< 0.5	< 2	1.97	< 0.5	13	157	2090	1.42	< 10	< 1	0.25	20	0.61	235	40
573716 H	299	229	4.6	0.56	418	30	< 0.5	12	1.05	1.0	10	161	2020	3.79	< 10	< 1	0.32	10	0.34	585	93
573717 H	299	229	2.8	0.42	474	70	< 0.5	2	1.71	< 0.5	15	94	1995	2.56	< 10	< 1	0.25	10	0.57	1600	718

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573678 H	299	229	0.01	2	1010	12	6	2	428	< 0.01	< 10	< 10	12	< 10	10
573679 H	299	229	0.01	2	1270	2	2	7	63	0.03	< 10	< 10	48	< 10	18
573680 H	299	229	0.01	4	1180	2	< 2	6	61	0.01	< 10	< 10	36	< 10	16
573681 H	299	229	0.01	3	470	< 2	4	4	49	< 0.01	< 10	< 10	24	< 10	22
573682 H	299	229	0.01	4	520	8	2	7	39	< 0.01	< 10	< 10	35	< 10	24
573683 H	299	229	0.01	2	360	6	2	< 1	26	< 0.01	< 10	< 10	3	< 10	18
573684 H	299	229	0.04	3	480	< 2	2	2	102	< 0.01	< 10	< 10	11	< 10	16
573685 H	299	229	0.04	2	620	6	2	2	138	< 0.01	< 10	< 10	20	< 10	22
573686 H	299	229	0.04	4	710	2	< 2	2	163	< 0.01	< 10	< 10	25	< 10	28
573687 H	299	229	0.06	2	820	2	< 2	4	112	0.01	< 10	< 10	44	< 10	42
573688 H	299	229	0.06	4	780	2	< 2	7	60	0.04	< 10	10	65	< 10	66
573689 H	299	229	0.06	6	840	12	4	6	58	0.03	< 10	< 10	56	< 10	60
573690 H	299	229	0.02	2	930	20	2	4	150	< 0.01	< 10	< 10	46	< 10	74
573691 H	299	229	0.18	13	1000	10	4	18	147	0.25	< 10	< 10	164	< 10	52
573692 H	299	229	0.13	3	1110	< 2	< 2	12	257	0.12	< 10	< 10	107	< 10	32
573693 H	299	229	0.10	3	1070	12	2	15	343	0.13	< 10	< 10	137	< 10	34
573694 H	299	229	0.04	3	1020	16	6	11	153	0.07	< 10	< 10	85	< 10	22
573695 H	299	229	0.02	4	990	6	4	12	306	0.06	< 10	< 10	82	< 10	24
573696 H	299	229	0.03	2	960	42	8	6	341	0.01	< 10	< 10	54	< 10	38
573697 H	299	229	0.03	3	1020	2	6	6	169	0.01	< 10	< 10	53	< 10	42
573698 H	299	229	0.01	2	800	2	4	4	238	< 0.01	< 10	< 10	30	< 10	22
573699 H	299	229	0.02	5	580	12	8	4	45	< 0.01	< 10	< 10	29	< 10	24
573700 H	299	229	0.01	4	510	4	18	4	26	< 0.01	< 10	< 10	19	< 10	26
573701 H	299	229	0.01	7	670	6	6	10	24	< 0.01	< 10	< 10	46	< 10	32
573702 H	299	229	0.01	6	560	8	8	7	33	< 0.01	< 10	< 10	32	< 10	22
573703 H	299	229	0.06	3	480	< 2	< 2	7	33	0.02	< 10	< 10	49	< 10	24
573704 H	299	229	0.02	3	370	< 2	4	2	53	< 0.01	< 10	< 10	15	< 10	16
573705 H	299	229	0.01	5	340	6	4	1	25	< 0.01	< 10	< 10	10	< 10	16
573706 H	299	229	0.02	3	350	2	4	2	34	< 0.01	< 10	< 10	18	< 10	22
573707 H	299	229	0.03	3	490	4	2	3	45	< 0.01	< 10	< 10	22	< 10	40
573708 H	299	229	0.02	4	600	< 2	< 2	1	56	< 0.01	< 10	< 10	13	< 10	50
573709 H	299	229	0.04	3	550	< 2	< 2	2	54	< 0.01	< 10	< 10	23	< 10	28
573710 H	299	229	0.02	3	610	6	12	2	56	< 0.01	< 10	< 10	21	< 10	34
573711 H	299	229	0.01	2	600	6	12	2	45	< 0.01	< 10	< 10	18	< 10	24
573712 H	299	229	0.03	3	570	8	2	2	60	< 0.01	< 10	< 10	19	< 10	20
573713 H	299	229	0.01	3	570	20	10	2	56	< 0.01	< 10	< 10	15	< 10	30
573714 H	299	229	0.02	3	570	6	8	2	136	< 0.01	< 10	< 10	17	< 10	18
573715 H	299	229	0.01	3	480	4	4	1	39	< 0.01	< 10	< 10	12	< 10	22
573716 H	299	229	< 0.01	5	380	38	76	1	17	< 0.01	< 10	< 10	6	< 10	96
573717 H	299	229	0.01	3	530	14	24	2	21	< 0.01	< 10	< 10	15	< 10	52

CERTIFICATION: [signature]

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 180
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-AUG-93
Invoice No. :19318408
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318408

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573718 H	299	229	3.0	0.55	66	60	< 0.5	6	1.56	< 0.5	20	83	1445	3.71	< 10	< 1	0.29	10	0.59	900	42
573719 H	299	229	1.8	0.83	20	230	< 0.5	< 2	1.79	< 0.5	17	124	3510	1.57	< 10	< 1	0.34	20	0.78	130	48
573720 H	299	229	1.4	0.43	54	220	< 0.5	< 2	1.13	< 0.5	12	108	3470	1.04	< 10	< 1	0.20	20	0.34	120	45
573721 H	299	229	0.4	0.37	14	180	< 0.5	< 2	1.19	< 0.5	12	93	1205	1.13	< 10	< 1	0.19	20	0.19	95	17
573722 H	299	229	1.6	0.36	14	140	< 0.5	< 2	1.50	1.0	16	79	2050	1.40	< 10	< 1	0.19	10	0.41	235	137
573723 H	299	229	0.8	0.58	2	100	< 0.5	< 2	2.02	< 0.5	22	74	1160	1.81	< 10	< 1	0.19	10	0.59	260	119
573724 H	299	229	0.6	0.48	18	110	< 0.5	< 2	1.43	< 0.5	26	60	1955	1.90	< 10	< 1	0.15	20	0.49	120	48
573725 H	299	229	0.8	1.03	24	250	< 0.5	< 2	2.12	< 0.5	15	97	1425	1.87	< 10	< 1	0.28	10	0.65	150	17
573726 H	299	229	0.6	0.80	16	170	< 0.5	< 2	1.94	< 0.5	28	124	1415	2.51	< 10	< 1	0.14	20	0.76	170	48
573727 H	299	229	1.0	0.79	20	300	< 0.5	< 2	1.66	< 0.5	23	144	1880	1.82	< 10	< 1	0.16	20	0.55	140	36
573728 H	299	229	0.8	0.72	22	210	< 0.5	< 2	1.77	< 0.5	20	113	2070	1.51	< 10	< 1	0.17	20	0.47	105	58
573729 H	299	229	0.6	1.38	< 2	250	< 0.5	< 2	1.30	< 0.5	16	82	1150	2.17	< 10	< 1	0.39	10	0.98	120	11
573730 H	299	229	0.4	1.24	< 2	100	< 0.5	< 2	1.00	< 0.5	19	92	730	2.05	< 10	< 1	0.30	10	0.83	100	40
573731 H	299	229	0.4	1.37	6	290	< 0.5	< 2	1.07	< 0.5	15	118	498	2.45	< 10	< 1	0.39	10	0.84	135	6
573732 H	299	229	4.2	1.86	8	60	< 0.5	6	3.02	0.5	24	61	2710	4.74	< 10	< 1	0.53	10	1.08	320	27
573733 H	299	229	3.0	3.00	6	120	< 0.5	< 2	1.69	1.0	29	71	2320	4.70	< 10	< 1	1.07	10	2.18	415	127
573734 H	299	229	0.4	2.49	6	230	< 0.5	< 2	1.02	< 0.5	19	60	1250	3.67	< 10	< 1	0.87	10	1.72	160	22
573735 H	299	229	0.4	3.61	2	140	< 0.5	< 2	1.43	< 0.5	23	66	1025	4.41	< 10	< 1	1.24	< 10	2.55	280	9
573736 H	299	229	5.8	3.10	10	70	< 0.5	4	1.70	5.0	29	65	1530	5.01	< 10	< 1	1.04	10	2.16	350	51
573737 H	299	229	1.8	3.29	< 2	400	< 0.5	< 2	2.50	0.5	20	70	1025	4.30	< 10	< 1	0.95	10	2.11	1640	90
573738 H	299	229	0.8	3.80	16	150	< 0.5	< 2	2.08	3.0	20	80	687	4.67	< 10	< 1	1.33	10	2.39	700	5
573739 H	299	229	0.8	2.61	< 2	140	< 0.5	< 2	1.40	< 0.5	24	84	1100	4.30	< 10	< 1	0.76	10	1.78	275	13
573740 H	299	229	0.4	3.18	< 2	70	< 0.5	< 2	1.65	0.5	37	70	1460	5.62	< 10	< 1	1.14	10	2.12	325	3
573741 H	299	229	0.2	2.97	< 2	110	< 0.5	< 2	2.26	< 0.5	22	98	663	4.59	< 10	< 1	1.04	10	1.99	405	30
573742 H	299	229	0.2	3.67	6	150	< 0.5	< 2	2.63	< 0.5	27	92	831	4.87	< 10	< 1	1.04	10	2.25	415	28
573743 H	299	229	0.4	3.71	2	100	< 0.5	< 2	2.50	< 0.5	27	69	1170	4.53	< 10	< 1	1.02	10	2.22	350	21
573744 H	299	229	1.6	3.40	4	140	< 0.5	< 2	1.51	< 0.5	28	98	3920	4.12	< 10	< 1	1.33	10	2.29	205	14
573745 H	299	229	1.4	1.99	8	160	< 0.5	< 2	1.79	1.0	14	99	2160	3.06	< 10	< 1	0.62	10	1.28	290	27
573746 H	299	229	0.6	0.60	2	170	< 0.5	< 2	1.06	< 0.5	6	156	708	0.95	< 10	< 1	0.22	20	0.25	55	26
573747 H	299	229	0.6	0.65	4	180	< 0.5	< 2	1.37	< 0.5	8	140	917	1.07	< 10	< 1	0.20	20	0.29	55	29
573748 H	299	229	1.2	0.39	4	230	< 0.5	< 2	1.81	< 0.5	7	114	1665	0.93	< 10	< 1	0.20	20	0.10	75	44
573749 H	299	229	0.6	0.77	2	190	< 0.5	< 2	1.71	< 0.5	17	120	1230	1.33	< 10	< 1	0.23	10	0.42	75	13
573750 H	299	229	0.6	1.31	< 2	190	< 0.5	< 2	1.17	< 0.5	17	83	1450	2.03	< 10	< 1	0.34	10	0.89	105	29
573751 H	299	229	1.6	2.47	< 2	310	< 0.5	< 2	1.39	0.5	17	87	3810	3.28	< 10	< 1	0.88	10	1.75	155	36
573752 H	299	229	0.6	3.25	< 2	260	< 0.5	< 2	1.44	< 0.5	23	79	1955	4.10	< 10	< 1	1.24	10	2.16	175	10
573753 H	299	229	1.6	1.69	4	300	< 0.5	< 2	1.15	< 0.5	16	90	3210	2.30	< 10	< 1	0.57	10	1.13	120	15
573754 H	299	229	1.4	3.77	2	240	< 0.5	< 2	1.65	< 0.5	24	109	3430	4.13	< 10	< 1	1.52	10	2.63	235	22
573755 H	299	229	0.4	3.72	< 2	190	< 0.5	< 2	1.56	0.5	26	85	1465	4.85	< 10	< 1	1.55	10	2.59	270	30
573756 H	299	229	1.8	3.26	4	110	< 0.5	< 2	1.15	< 0.5	25	116	2250	4.52	< 10	< 1	1.35	10	2.46	235	6
573757 H	299	229	0.4	3.20	2	130	< 0.5	< 2	1.26	< 0.5	20	101	1330	4.50	< 10	< 1	1.45	10	2.30	205	47

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 180
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-AUG-93
Invoice No. :19318408
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318408

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573718 H	299	229	0.01	3	440	34	4	1	57	< 0.01	< 10	10	11	< 10	72
573719 H	299	229	0.02	6	310	4	2	3	176	0.01	< 10	< 10	28	< 10	34
573720 H	299	229	0.01	4	220	6	2	< 1	32	< 0.01	< 10	< 10	3	< 10	22
573721 H	299	229	0.02	3	230	6	2	< 1	97	< 0.01	< 10	< 10	2	< 10	14
573722 H	299	229	0.01	3	250	48	4	< 1	71	< 0.01	< 10	< 10	4	< 10	142
573723 H	299	229	0.01	3	470	10	2	4	25	< 0.01	< 10	< 10	25	< 10	20
573724 H	299	229	0.01	4	490	12	2	4	22	< 0.01	< 10	10	23	< 10	24
573725 H	299	229	0.02	3	360	10	4	4	129	0.01	< 10	< 10	32	< 10	20
573726 H	299	229	0.01	5	600	4	4	9	25	< 0.01	< 10	10	35	< 10	18
573727 H	299	229	0.01	6	490	18	6	6	29	< 0.01	< 10	< 10	27	< 10	24
573728 H	299	229	0.01	4	510	16	4	3	28	< 0.01	< 10	10	14	< 10	36
573729 H	299	229	0.04	2	440	2	< 2	8	41	0.05	< 10	< 10	58	< 10	22
573730 H	299	229	0.05	2	360	2	2	6	35	0.03	< 10	< 10	45	< 10	18
573731 H	299	229	0.08	4	540	4	< 2	7	50	0.07	< 10	< 10	48	< 10	20
573732 H	299	229	0.05	1	1220	18	2	11	111	0.08	< 10	< 10	80	< 10	46
573733 H	299	229	0.08	2	1240	18	< 2	17	74	0.19	< 10	< 10	163	< 10	160
573734 H	299	229	0.13	2	1080	< 2	< 2	14	188	0.20	< 10	< 10	122	< 10	24
573735 H	299	229	0.15	4	1210	2	2	16	336	0.25	< 10	< 10	157	< 10	40
573736 H	299	229	0.09	4	1210	152	6	14	90	0.14	< 10	< 10	135	< 10	462
573737 H	299	229	0.09	3	1220	32	6	14	72	0.11	< 10	< 10	129	< 10	134
573738 H	299	229	0.22	3	1330	64	2	19	290	0.28	< 10	< 10	167	< 10	234
573739 H	299	229	0.13	6	1200	12	< 2	14	121	0.23	< 10	< 10	130	< 10	36
573740 H	299	229	0.19	4	1290	8	2	18	249	0.28	< 10	< 10	167	< 10	42
573741 H	299	229	0.22	4	1240	8	4	16	163	0.29	< 10	< 10	166	< 10	44
573742 H	299	229	0.16	2	1270	22	2	18	305	0.26	< 10	< 10	169	< 10	58
573743 H	299	229	0.16	5	1280	16	2	18	335	0.27	< 10	< 10	179	< 10	66
573744 H	299	229	0.13	7	1140	14	< 2	20	191	0.25	< 10	< 10	177	< 10	30
573745 H	299	229	0.08	4	890	52	4	8	207	0.08	< 10	< 10	79	< 10	174
573746 H	299	229	0.05	3	280	18	< 2	1	27	< 0.01	< 10	< 10	7	< 10	16
573747 H	299	229	0.04	3	290	12	< 2	1	36	< 0.01	< 10	< 10	8	< 10	8
573748 H	299	229	0.03	3	280	4	2	< 1	38	< 0.01	< 10	< 10	3	< 10	12
573749 H	299	229	0.03	4	400	8	< 2	1	59	< 0.01	< 10	< 10	17	< 10	16
573750 H	299	229	0.07	1	660	4	< 2	5	42	0.03	< 10	< 10	47	< 10	18
573751 H	299	229	0.10	4	1200	8	< 2	12	77	0.16	< 10	< 10	105	< 10	24
573752 H	299	229	0.15	4	1460	16	< 2	15	127	0.23	< 10	< 10	131	< 10	24
573753 H	299	229	0.08	4	720	6	< 2	8	51	0.09	< 10	< 10	75	< 10	20
573754 H	299	229	0.16	7	1120	12	2	20	94	0.26	< 10	< 10	197	< 10	32
573755 H	299	229	0.18	3	1400	12	< 2	21	125	0.32	< 10	< 10	194	< 10	38
573756 H	299	229	0.14	6	1230	16	4	20	119	0.28	< 10	< 10	179	< 10	42
573757 H	299	229	0.14	6	1030	16	2	20	115	0.29	< 10	< 10	172	< 10	34

CERTIFICATION: Ian Bichler

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Project : CASINO 180
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573758 H	299	229	0.8	3.51	38	160	< 0.5	< 2	1.47	< 0.5	21	47	1080	4.48	< 10	< 1	1.49	20	2.35	335	9
573759 H	299	229	3.4	3.58	70	160	< 0.5	< 2	2.23	< 0.5	21	50	3570	4.62	< 10	< 1	1.36	10	2.66	545	13
573760 H	299	229	10.6	2.29	274	120	< 0.5	< 2	2.35	50.0	13	54	1650	3.54	< 10	< 1	0.94	20	1.39	1120	24
573761 H	299	229	2.8	1.95	30	110	< 0.5	4	2.91	0.5	16	88	1840	3.95	< 10	< 1	0.74	20	1.33	605	14
573762 H	299	229	0.8	2.72	16	210	< 0.5	< 2	2.64	< 0.5	14	113	1115	3.64	< 10	< 1	1.10	20	1.77	255	20
573763 H	299	229	0.8	2.72	14	130	< 0.5	< 2	2.14	< 0.5	17	84	1105	4.05	< 10	< 1	1.04	30	1.90	300	19
573764 H	299	229	0.6	3.26	22	100	< 0.5	< 2	2.58	< 0.5	21	118	1150	4.49	< 10	< 1	1.46	20	2.08	230	94
573765 H	299	229	0.8	3.00	16	70	< 0.5	< 2	1.81	< 0.5	26	95	1420	4.99	< 10	< 1	1.16	20	1.83	215	8
573766 H	299	229	0.6	3.19	12	80	< 0.5	< 2	2.30	< 0.5	20	88	950	4.29	< 10	< 1	1.35	20	2.09	240	6

CERTIFICATION: Ian Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573758 H	299	229	0.19	5	1370	< 2	6	21	198	0.30	< 10	< 10	195	< 10	50
573759 H	299	229	0.11	10	1190	6	6	18	92	0.22	< 10	< 10	176	< 10	82
573760 H	299	229	0.09	6	1140	950	176	14	125	0.13	< 10	< 10	107	< 10	2560
573761 H	299	229	0.08	7	990	16	4	11	81	0.10	< 10	< 10	83	< 10	78
573762 H	299	229	0.16	5	1190	< 2	< 2	15	127	0.20	< 10	< 10	133	< 10	42
573763 H	299	229	0.15	3	1160	< 2	2	15	106	0.25	< 10	< 10	152	< 10	44
573764 H	299	229	0.18	5	1310	< 2	2	19	142	0.27	< 10	< 10	170	< 10	40
573765 H	299	229	0.20	6	1170	< 2	< 2	15	108	0.26	< 10	< 10	153	< 10	42
573766 H	299	229	0.20	5	1340	< 2	2	17	123	0.29	< 10	< 10	166	< 10	40

CERTIFICATION: Ian H Bradshaw

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-181
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
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Certificate Date: 14-AUG-93
Invoice No. :I9318546
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318546

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575021 H	208	276	0.01	0.059	1.30	8880
575022 H	208	276	0.01	0.122	0.96	8560
575023 H	208	276	0.01	0.119	1.85	10660
575024 H	208	274	0.01	0.084	0.27	7030
575025 H	208	276	< 0.01	0.054	0.14	9260
575026 H	208	276	< 0.01	0.080	0.27	8520
575027 H	208	276	< 0.01	0.057	0.41	8020
575028 H	208	276	< 0.01	0.024	0.10	10020
575029 H	208	274	< 0.01	0.020	0.14	4500
575030 H	208	274	< 0.01	0.004	0.10	920
575031 H	208	274	< 0.01	0.007	0.10	4020
575032 H	208	274	< 0.01	0.008	0.14	5880
575033 H	208	274	< 0.01	0.011	0.79	7260
575034 H	208	276	< 0.01	0.020	0.17	9180
575035 H	208	276	< 0.01	0.046	0.14	10760
575036 H	208	276	< 0.01	0.120	0.21	10260
575037 H	208	273	< 0.01	0.048	0.07	12000
575038 H	208	276	< 0.01	0.082	0.10	11240
575039 H	208	276	< 0.01	0.102	0.14	11060
575040 H	208	276	0.01	0.242	0.17	9440
575041 H	208	276	0.01	0.215	0.14	10340
575042 H	208	276	0.02	0.135	0.45	10140
575043 H	208	276	0.02	0.102	0.38	10060
575044 H	208	276	0.01	0.132	0.17	10580
575045 H	208	276	0.01	0.057	0.21	9700
575046 H	208	273	0.01	0.077	0.48	12700
575047 H	208	276	0.01	0.044	0.17	7740
575048 H	208	276	0.10	0.073	0.62	10760
575049 H	208	276	0.01	0.191	0.24	10500
575050 H	208	276	0.04	0.156	0.34	10560
575051 H	208	276	0.22	0.208	0.31	11680
575052 H	208	276	0.88	0.174	0.48	11160
575053 H	208	276	0.41	0.137	0.31	10480
575054 H	208	273	0.45	0.159	0.31	12000
575055 H	208	273	0.76	0.151	0.41	12420
575056 H	208	276	0.71	0.257	0.41	10560
575057 H	208	276	0.47	0.160	0.34	10000
575058 H	208	276	0.35	0.243	0.21	9700
575059 H	208	276	0.46	0.180	0.38	10280
575060 H	208	274	0.36	0.120	0.31	3760

CERTIFICATION: Saul Zinnab

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9318546

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575061 H	208	276	0.48	0.161	0.24	10520
575062 H	208	276	1.19	0.310	0.93	11400
575063 H	208	273	0.31	0.185	0.17	13100
575064 H	208	273	0.36	0.189	0.21	12200
575065 H	208	276	0.34	0.175	0.17	11520
575066 H	208	276	0.47	0.361	0.31	11700
575067 H	208	273	0.45	0.340	0.41	12240
575068 H	208	273	1.25	0.213	0.86	11860
575069 H	208	276	0.92	0.616	2.88	11020
575070 H	208	273	1.35	0.655	1.27	12440
575071 H	208	273	1.85	0.725	1.54	11860
575072 H	208	276	1.85	1.280	1.03	10920
575073 H	208	276	1.13	0.802	0.99	11760
575074 H	208	273	1.80	1.240	1.75	12180
575075 H	208	276	0.31	0.749	0.31	11360
575076 H	208	276	1.97	0.806	1.54	10540
575077 H	208	276	0.45	1.490	0.45	10520
575078 H	208	273	0.25	1.200	1.58	11860
575079 H	208	276	0.12	0.594	0.24	10980
575080 H	208	273	0.55	0.554	0.48	12760

CERTIFICATION: Emil Ermala

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9318547

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575021 H	299 229	2.0	0.36	6	300	< 0.5	< 2	0.02	< 0.5	1	107	92	1.81	< 10	< 1	0.50	60	0.02	15	411
575022 H	299 229	2.8	0.38	14	290	< 0.5	< 2	0.01	< 0.5	1	107	75	1.94	< 10	< 1	0.55	90	0.02	10	879
575023 H	299 229	3.6	0.43	10	320	< 0.5	2	0.01	< 0.5	1	133	105	1.84	< 10	< 1	0.53	80	0.02	10	812
575024 H	299 229	1.4	0.32	14	210	< 0.5	< 2	0.01	< 0.5	3	84	53	2.70	< 10	< 1	0.60	40	0.01	10	598
575025 H	299 229	0.4	0.36	12	210	< 0.5	2	< 0.01	< 0.5	6	136	35	2.61	< 10	< 1	0.58	30	0.01	10	368
575026 H	299 229	0.4	0.37	6	300	< 0.5	2	0.02	< 0.5	2	101	43	2.25	< 10	< 1	0.58	40	0.01	10	563
575027 H	299 229	1.8	0.49	22	260	< 0.5	2	0.01	< 0.5	2	144	40	2.65	< 10	< 1	0.71	40	0.02	10	392
575028 H	299 229	0.4	0.36	14	320	< 0.5	< 2	0.01	< 0.5	1	108	33	1.10	< 10	< 1	0.37	40	0.01	10	168
575029 H	299 229	0.2	0.41	8	520	< 0.5	< 2	0.02	< 0.5	1	154	26	1.07	< 10	< 1	0.39	60	0.01	20	134
575030 H	299 229	0.2	0.40	2	190	< 0.5	< 2	0.01	< 0.5	1	117	26	0.23	< 10	< 1	0.26	20	0.02	15	29
575031 H	299 229	0.6	0.50	6	320	< 0.5	< 2	0.02	< 0.5	1	134	29	0.30	< 10	< 1	0.31	30	0.02	20	46
575032 H	299 229	1.4	0.34	2	820	< 0.5	2	0.01	< 0.5	1	114	26	0.32	< 10	< 1	0.23	30	0.01	15	54
575033 H	299 229	1.6	0.41	4	1000	< 0.5	< 2	0.02	< 0.5	2	148	36	0.33	< 10	< 1	0.25	20	0.02	15	70
575034 H	299 229	0.2	0.33	2	910	< 0.5	< 2	0.02	< 0.5	1	123	22	0.55	< 10	< 1	0.27	20	0.01	15	134
575035 H	299 229	0.6	0.34	2	590	< 0.5	2	0.01	< 0.5	1	134	26	1.15	< 10	< 1	0.37	20	0.01	10	305
575036 H	299 229	2.6	0.30	10	400	< 0.5	2	0.01	< 0.5	< 1	92	36	1.85	< 10	< 1	0.38	10	0.01	10	836
575037 H	299 229	0.6	0.34	14	260	< 0.5	< 2	0.01	< 0.5	< 1	86	28	1.41	< 10	< 1	0.39	20	0.01	10	313
575038 H	299 229	0.6	0.36	22	290	< 0.5	< 2	0.01	< 0.5	< 1	84	33	2.22	< 10	< 1	0.53	30	0.01	10	591
575039 H	299 229	2.4	0.44	28	390	< 0.5	2	0.01	< 0.5	1	100	44	2.27	< 10	< 1	0.57	30	0.02	10	703
575040 H	299 229	4.4	0.34	72	210	< 0.5	2	0.01	< 0.5	< 1	105	88	5.01	< 10	< 1	0.85	30	0.01	10	1640
575041 H	299 229	1.4	0.41	54	240	< 0.5	< 2	0.01	< 0.5	< 1	111	112	5.36	< 10	< 1	0.91	20	0.02	10	1440
575042 H	299 229	1.2	0.34	98	310	< 0.5	< 2	0.01	< 0.5	< 1	97	193	4.63	< 10	< 1	0.48	20	0.02	15	883
575043 H	299 229	1.2	0.44	62	360	< 0.5	2	0.01	< 0.5	1	113	198	3.09	< 10	< 1	0.31	30	0.02	15	678
575044 H	299 229	1.8	0.38	34	170	< 0.5	2	0.03	< 0.5	1	80	145	1.76	< 10	< 1	0.26	30	0.01	15	873
575045 H	299 229	0.8	0.48	8	210	< 0.5	2	0.02	< 0.5	1	125	68	0.60	< 10	< 1	0.30	40	0.03	20	396
575046 H	299 229	1.8	0.44	4	500	< 0.5	< 2	0.02	< 0.5	1	124	98	0.96	< 10	< 1	0.36	20	0.03	20	540
575047 H	299 229	1.2	0.50	8	540	< 0.5	< 2	0.01	< 0.5	1	143	56	1.02	< 10	< 1	0.37	20	0.03	15	298
575048 H	299 229	2.2	0.53	14	160	< 0.5	2	0.02	< 0.5	7	143	1100	1.80	< 10	< 1	0.31	30	0.03	20	510
575049 H	299 229	1.4	0.47	26	340	< 0.5	2	0.04	< 0.5	1	129	127	1.99	< 10	< 1	0.32	30	0.02	20	1235
575050 H	299 229	2.6	0.64	38	240	< 0.5	2	0.07	< 0.5	4	114	417	2.13	10	< 1	0.28	40	0.04	20	1070
575051 H	299 229	2.4	0.74	20	30	< 0.5	4	0.06	< 0.5	22	88	2380	4.20	< 10	< 1	0.25	30	0.03	15	1375
575052 H	299 229	2.2	0.91	22	50	< 0.5	6	0.08	< 0.5	16	83	>10000	3.03	10	< 1	0.24	30	0.03	15	1160
575053 H	299 229	2.4	0.91	20	80	< 0.5	6	0.07	0.5	22	102	4550	2.91	< 10	< 1	0.30	30	0.06	20	951
575054 H	299 229	1.4	0.78	26	30	< 0.5	2	0.08	0.5	29	84	5080	4.00	< 10	< 1	0.22	30	0.03	15	1080
575055 H	299 229	1.2	1.02	20	50	< 0.5	4	0.07	< 0.5	15	146	8610	2.78	< 10	< 1	0.35	20	0.06	20	987
575056 H	299 229	1.2	0.96	20	30	< 0.5	6	0.08	< 0.5	30	139	8050	4.52	< 10	< 1	0.32	30	0.04	20	1680
575057 H	299 229	1.2	0.89	12	50	< 0.5	2	0.08	< 0.5	28	149	5160	3.95	< 10	< 1	0.30	30	0.04	20	1030
575058 H	299 229	2.4	0.77	20	20	< 0.5	6	0.06	< 0.5	27	176	3700	5.52	< 10	< 1	0.29	30	0.03	20	1535
575059 H	299 229	1.2	0.76	16	30	< 0.5	6	0.09	< 0.5	21	104	4960	4.37	< 10	< 1	0.26	30	0.03	15	1160
575060 H	299 229	0.8	0.64	4	70	< 0.5	6	0.07	< 0.5	24	80	3960	2.57	< 10	< 1	0.18	20	0.02	10	804

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

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CERTIFICATE OF ANALYSIS A9318547

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575021 H	299	229	0.01	1	90	30	2	< 1	12	< 0.01	< 10	< 10	8	20	6
575022 H	299	229	0.01	1	110	32	2	1	10	< 0.01	< 10	< 10	6	30	4
575023 H	299	229	0.01	2	110	30	2	< 1	12	< 0.01	< 10	< 10	6	20	4
575024 H	299	229	0.02	1	80	22	2	< 1	9	< 0.01	< 10	< 10	6	10	6
575025 H	299	229	0.01	2	70	24	2	< 1	8	< 0.01	< 10	< 10	7	30	6
575026 H	299	229	0.01	< 1	100	28	2	< 1	12	< 0.01	< 10	< 10	5	20	4
575027 H	299	229	0.01	2	210	76	4	1	29	< 0.01	< 10	< 10	7	20	6
575028 H	299	229	0.01	2	90	20	2	< 1	13	< 0.01	< 10	< 10	3	10	4
575029 H	299	229	0.01	2	110	32	< 2	< 1	16	< 0.01	< 10	< 10	5	10	4
575030 H	299	229	0.01	1	20	14	< 2	< 1	7	< 0.01	< 10	< 10	3	< 10	2
575031 H	299	229	0.01	1	30	30	< 2	< 1	9	< 0.01	< 10	< 10	3	10	2
575032 H	299	229	0.01	1	30	22	< 2	< 1	11	< 0.01	< 10	< 10	2	< 10	2
575033 H	299	229	0.01	2	30	24	< 2	< 1	14	< 0.01	< 10	< 10	3	10	4
575034 H	299	229	0.01	2	20	14	< 2	< 1	12	< 0.01	< 10	< 10	2	< 10	2
575035 H	299	229	0.01	2	30	20	< 2	< 1	11	< 0.01	< 10	< 10	2	10	2
575036 H	299	229	0.01	2	100	114	2	< 1	14	< 0.01	< 10	< 10	7	< 10	4
575037 H	299	229	0.01	< 1	100	30	2	< 1	21	< 0.01	< 10	< 10	3	10	4
575038 H	299	229	0.01	1	150	30	2	< 1	31	< 0.01	< 10	< 10	4	10	4
575039 H	299	229	0.01	1	230	46	4	< 1	56	< 0.01	< 10	< 10	4	10	6
575040 H	299	229	0.03	1	510	126	10	< 1	140	< 0.01	< 10	< 10	2	20	8
575041 H	299	229	0.02	1	510	56	8	< 1	96	< 0.01	< 10	< 10	2	20	8
575042 H	299	229	0.01	< 1	730	34	10	< 1	169	< 0.01	< 10	< 10	2	10	12
575043 H	299	229	0.01	1	450	34	6	< 1	92	< 0.01	< 10	< 10	2	10	16
575044 H	299	229	0.01	< 1	440	18	8	< 1	258	< 0.01	< 10	< 10	< 1	10	10
575045 H	299	229	0.01	1	210	16	2	< 1	121	< 0.01	< 10	< 10	2	10	6
575046 H	299	229	0.01	1	110	32	2	< 1	66	< 0.01	< 10	< 10	1	< 10	12
575047 H	299	229	0.01	2	140	18	2	< 1	80	< 0.01	< 10	< 10	2	< 10	4
575048 H	299	229	0.01	4	300	18	2	< 1	155	< 0.01	< 10	< 10	2	10	6
575049 H	299	229	0.01	2	620	26	8	< 1	319	< 0.01	< 10	< 10	1	10	8
575050 H	299	229	0.01	4	1080	90	12	1	466	< 0.01	< 10	< 10	3	< 10	28
575051 H	299	229	0.01	12	650	28	8	2	234	< 0.01	< 10	< 10	2	< 10	26
575052 H	299	229	0.01	9	980	20	10	3	400	< 0.01	< 10	< 10	2	10	40
575053 H	299	229	0.01	9	780	50	4	2	335	< 0.01	< 10	< 10	3	< 10	86
575054 H	299	229	0.01	9	800	38	4	2	366	< 0.01	< 10	< 10	2	< 10	80
575055 H	299	229	0.01	8	600	22	2	2	233	< 0.01	< 10	< 10	4	10	20
575056 H	299	229	0.01	14	680	22	6	2	281	< 0.01	< 10	< 10	2	10	30
575057 H	299	229	0.01	11	660	12	4	1	265	< 0.01	< 10	< 10	3	< 10	46
575058 H	299	229	0.01	11	470	12	8	1	117	< 0.01	< 10	< 10	1	< 10	26
575059 H	299	229	0.01	11	840	12	6	1	345	< 0.01	< 10	< 10	1	< 10	24
575060 H	299	229	0.01	10	550	16	2	1	211	< 0.01	< 10	< 10	1	< 10	24

CERTIFICATION: Hart Richler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575061 H	299	229	2.2	0.88	18	30	0.5	4	0.08	1.0	46	64	5160	4.92	< 10	< 1	0.22	20	0.04	20	997
575062 H	299	229	2.8	0.77	28	50	< 0.5	4	0.06	< 0.5	34	95	>10000	3.79	< 10	< 1	0.24	30	0.04	20	1925
575063 H	299	229	0.4	1.24	28	30	0.5	4	0.09	< 0.5	31	139	3450	4.92	< 10	< 1	0.30	30	0.06	20	1160
575064 H	299	229	0.6	0.93	18	20	0.5	4	0.07	< 0.5	46	98	3990	4.70	< 10	< 1	0.21	20	0.04	15	1235
575065 H	299	229	1.6	1.22	18	10	< 0.5	2	0.07	0.5	74	165	3880	6.01	< 10	< 1	0.40	20	0.06	25	1105
575066 H	299	229	1.2	1.19	22	40	0.5	6	0.10	< 0.5	45	131	5180	4.06	10	< 1	0.27	30	0.04	20	2180
575067 H	299	229	1.0	1.04	22	60	0.5	2	0.07	< 0.5	45	134	5110	4.42	< 10	< 1	0.30	20	0.06	15	2070
575068 H	299	229	3.2	0.86	224	30	< 0.5	2	0.06	0.5	32	72	>10000	3.63	< 10	< 1	0.24	20	0.04	10	1355
575069 H	299	229	1.6	1.25	622	60	0.5	4	0.09	0.5	49	122	>10000	4.82	< 10	< 1	0.34	30	0.06	15	3790
575070 H	299	229	3.2	1.23	246	10	0.5	4	0.09	0.5	58	87	>10000	4.81	< 10	< 1	0.33	30	0.06	15	3920
575071 H	299	229	12.0	1.12	1400	20	< 0.5	2	0.08	3.5	28	145	>10000	6.53	< 10	< 1	0.43	20	0.07	25	4090
575072 H	299	229	14.0	1.05	420	30	0.5	< 2	0.12	1.5	32	93	>10000	4.49	< 10	< 1	0.31	30	0.06	20	7190
575073 H	299	229	5.4	1.20	44	20	0.5	6	0.08	0.5	46	114	>10000	5.04	< 10	< 1	0.34	10	0.07	15	4590
575074 H	299	229	4.8	1.06	66	60	0.5	2	0.10	0.5	42	70	>10000	4.21	< 10	< 1	0.28	20	0.06	15	7080
575075 H	299	229	2.0	1.48	32	80	0.5	4	0.12	< 0.5	53	159	3660	3.78	< 10	< 1	0.38	20	0.04	20	4740
575076 H	299	229	5.8	1.74	58	70	0.5	< 2	0.15	1.0	56	74	>10000	3.80	< 10	< 1	0.28	20	0.06	15	4920
575077 H	299	229	2.6	1.71	56	70	0.5	4	0.15	1.0	49	130	5050	3.88	< 10	< 1	0.33	20	0.08	780	8470
575078 H	299	229	1.2	0.98	830	30	0.5	6	0.12	2.5	33	69	2540	3.97	< 10	< 1	0.21	10	0.04	310	6470
575079 H	299	229	0.6	1.03	116	30	< 0.5	< 2	0.11	1.5	38	139	1315	5.04	< 10	< 1	0.34	20	0.09	830	3530
575080 H	299	229	1.2	1.11	30	30	0.5	4	0.11	0.5	38	64	5960	3.51	< 10	< 1	0.24	10	0.06	155	3340

CERTIFICATION: Stewart Bradley

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-181
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :2
Certificate Date: 15-AUG-93
Invoice No. :I9318547
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318547

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575061 H	299	229	0.01	15	670	132	6	2	254	< 0.01	< 10	< 10	3	< 10	122
575062 H	299	229	0.01	13	440	52	14	1	116	< 0.01	< 10	< 10	< 1	10	52
575063 H	299	229	0.01	14	800	14	6	2	317	< 0.01	< 10	< 10	5	< 10	34
575064 H	299	229	0.01	16	510	14	4	1	152	< 0.01	< 10	< 10	3	< 10	30
575065 H	299	229	0.01	13	540	60	4	2	229	< 0.01	< 10	< 10	6	< 10	70
575066 H	299	229	0.01	14	970	36	8	2	437	< 0.01	< 10	< 10	< 1	< 10	42
575067 H	299	229	0.01	14	530	16	4	2	205	< 0.01	< 10	< 10	1	10	30
575068 H	299	229	0.01	11	530	18	8	1	218	< 0.01	< 10	< 10	3	10	70
575069 H	299	229	0.01	19	760	20	20	2	314	< 0.01	< 10	< 10	< 1	20	96
575070 H	299	229	0.01	21	730	8	30	2	250	< 0.01	< 10	< 10	< 1	20	64
575071 H	299	229	0.01	16	590	12	306	2	224	< 0.01	< 10	< 10	< 1	30	254
575072 H	299	229	0.01	15	910	16	146	2	288	< 0.01	< 10	< 10	< 1	40	122
575073 H	299	229	0.01	17	640	12	18	2	197	< 0.01	< 10	< 10	< 1	20	54
575074 H	299	229	0.01	17	770	4	40	2	206	< 0.01	< 10	< 10	< 1	40	50
575075 H	299	229	0.01	19	910	4	14	3	232	< 0.01	< 10	< 10	< 1	10	36
575076 H	299	229	0.01	20	1310	40	16	4	386	< 0.01	< 10	10	2	40	108
575077 H	299	229	0.01	18	970	< 2	26	3	160	< 0.01	< 10	10	3	20	88
575078 H	299	229	0.01	17	660	< 2	28	1	79	< 0.01	< 10	10	< 1	10	90
575079 H	299	229	0.01	14	460	< 2	12	1	40	< 0.01	< 10	< 10	4	10	48
575080 H	299	229	0.01	14	610	< 2	12	2	114	< 0.01	< 10	< 10	5	< 10	26

CERTIFICATION:

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Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-AUG-93
Invoice No. :19318907
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318907

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571111 H	208 276	< 0.01	0.003	0.21	7760
571112 H	208 274	< 0.01	0.003	0.34	2120
571113 H	208 276	< 0.01	0.003	0.31	8620
571114 H	208 276	< 0.01	0.002	0.24	8660
571115 H	208 276	< 0.01	0.002	0.24	7880
571116 H	208 276	< 0.01	0.004	0.34	9980
571117 H	208 276	< 0.01	0.002	0.27	11160
571118 H	208 276	< 0.01	0.002	0.14	11360
571119 H	208 274	< 0.01	0.002	0.27	7220
571120 H	208 276	< 0.01	0.006	0.41	8700
571121 H	208 276	< 0.01	0.009	0.48	11500
571122 H	208 276	< 0.01	0.006	0.45	9820
571123 H	208 276	< 0.01	0.005	0.48	8940
571124 H	208 273	< 0.01	0.006	0.62	12060
571125 H	208 276	< 0.01	0.005	0.45	11060
571126 H	208 276	< 0.01	0.008	0.89	9660
571127 H	208 276	< 0.01	0.010	0.65	9800
571128 H	208 276	< 0.01	0.005	0.55	10160
571129 H	208 276	< 0.01	0.007	0.72	10120
571130 H	208 276	< 0.01	0.011	0.34	10220
571131 H	208 276	< 0.01	0.010	0.38	10900
571132 H	208 276	< 0.01	0.008	0.51	10380
571133 H	208 274	< 0.01	0.007	0.38	94200
571134 H	208 274	< 0.01	0.011	0.38	94600
571135 H	208 274	< 0.01	0.011	0.45	93600
571136 H	208 276	< 0.01	0.008	0.65	10120
571137 H	208 276	< 0.01	0.009	0.99	10800
571138 H	208 276	< 0.01	0.006	0.38	10700
571139 H	208 276	0.01	0.004	0.38	10320
571140 H	208 273	0.01	0.003	0.31	12320
571141 H	208 273	0.01	0.004	0.24	12320
571142 H	208 276	0.01	0.004	0.34	9320
571143 H	208 276	0.01	0.004	1.23	11560
571144 H	208 276	< 0.01	0.010	0.31	11560
571145 H	208 276	< 0.01	0.008	0.34	10920
571146 H	208 276	< 0.01	0.007	0.82	10760
571147 H	208 276	< 0.01	0.007	0.24	10080
571148 H	208 276	0.01	0.006	0.21	11220
571149 H	208 274	0.01	0.005	0.24	4200
571150 H	208 273	0.01	0.005	0.14	12320

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Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2
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Certificate Date: 21-AUG-93
Invoice No. :I9318907
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318907

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571151 H	208	276	< 0.01	0.005	0.17	11780						
571152 H	208	276	< 0.01	0.009	0.21	11040						
571153 H	208	274	< 0.01	0.010	0.31	4180						
571154 H	208	273	< 0.01	0.006	0.27	12540						
571155 H	208	276	< 0.01	0.006	0.27	7560						
571156 H	208	276	< 0.01	0.010	0.27	11000						
571157 H	208	276	< 0.01	0.006	0.24	9840						
571158 H	208	276	0.01	0.016	0.34	11220						
571159 H	208	274	0.01	0.020	0.34	3620						
571160 H	208	276	0.01	0.022	0.48	11120						
571161 H	208	276	< 0.01	0.011	0.38	11320						
571162 H	208	273	< 0.01	0.017	0.34	12340						
571163 H	208	276	< 0.01	0.019	0.41	11180						
571164 H	208	273	0.01	0.010	0.14	12180						
571165 H	208	276	0.02	0.005	0.24	11260						
571166 H	208	276	0.02	0.004	0.21	9540						
571167 H	208	273	0.05	0.003	0.24	12440						
571168 H	208	276	0.06	0.005	0.10	11760						
571169 H	208	276	0.12	0.005	0.17	11780						
571170 H	208	276	0.11	0.006	0.31	11580						
571171 H	208	276	0.22	0.010	0.21	11240						
571172 H	208	276	0.22	0.014	0.24	11080						
571173 H	208	273	0.22	0.006	0.27	12180						
571174 H	208	276	0.15	0.003	0.21	8940						
571175 H	208	273	0.12	0.005	0.10	12820						
571176 H	208	273	0.16	0.014	0.31	15100						
571177 H	208	274	0.04	0.004	0.10	1180						
571178 H	208	273	0.12	0.005	0.21	13920						
571179 H	208	276	0.15	0.003	0.14	11680						
571180 H	208	273	0.13	0.005	0.21	13200						
571181 H	208	276	0.05	0.005	0.14	10720						
571182 H	208	273	0.10	0.007	0.17	12380						
571183 H	208	273	0.15	0.006	0.27	12720						
571184 H	208	276	0.12	0.005	0.21	10460						
571185 H	208	274	0.10	0.006	0.17	4440						
571186 H	208	276	0.12	0.010	0.38	11520						
571187 H	208	276	0.09	0.006	0.69	8840						
571188 H	208	273	0.11	0.006	0.17	13060						
571189 H	208	273	0.13	0.005	0.21	14480						
571190 H	208	273	0.14	0.011	0.17	14320						

CERTIFICATION:

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Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
Total Pages :4
Certificate Date: 21-AUG-93
Invoice No. :I9318907
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318907

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571191 H	208 273	0.13	0.078	0.34	12800
571192 H	208 276	0.24	0.016	0.65	8000
571193 H	208 273	0.05	0.007	0.24	13440
571194 H	208 273	0.09	0.004	0.41	13480
571195 H	208 273	0.21	0.004	0.21	12800
571196 H	208 274	0.13	0.015	0.34	6540
571197 H	208 273	0.12	0.005	0.31	13160
571198 H	208 273	0.10	0.009	0.21	12340
571199 H	208 276	0.11	0.009	0.21	7660
571200 H	208 273	0.12	0.009	0.21	12940
571201 H	208 274	0.09	0.005	0.17	5100
571202 H	208 273	0.09	0.004	0.14	13000
571203 H	208 273	0.08	0.009	0.21	12080
571204 H	208 273	0.05	0.007	0.21	13400
571205 H	208 276	0.02	0.002	0.24	9340
571206 H	208 273	0.05	0.007	0.21	12260
571207 H	208 273	0.04	0.001	0.14	14360
571208 H	208 273	0.05	0.001	0.17	12500
571209 H	208 273	0.04	0.001	0.14	12480
571210 H	208 276	0.10	0.002	0.24	11580
571211 H	208 276	0.08	0.002	0.14	10600
571212 H	208 276	0.09	0.003	0.24	9180
571213 H	208 276	0.08	0.004	0.17	9600
571214 H	208 276	0.10	0.002	0.24	9520
571215 H	208 273	0.05	0.002	0.21	11980
571216 H	208 276	0.06	0.002	0.17	10940
571217 H	208 273	0.09	0.005	0.14	12000
571218 H	208 276	0.09	0.002	0.17	10180
571219 H	208 276	0.10	0.004	0.17	8280
571220 H	208 273	0.08	0.002	0.21	12640
571221 H	208 274	0.11	0.002	0.10	7020
571222 H	208 276	0.14	0.001	0.14	11140
571223 H	208 276	0.11	0.001	0.24	11580
571224 H	208 273	0.08	0.003	0.07	12120
571225 H	208 273	0.08	0.016	0.07	12020
571226 H	208 273	0.07	0.003	0.10	12960
571227 H	208 273	0.11	0.003	0.14	12040
571228 H	208 273	0.09	0.004	0.07	13080
571229 H	208 276	0.07	0.001	< 0.03	9900
571230 H	208 273	0.04	0.001	< 0.03	11920

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Y1A 3S9

Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-AUG-93
Invoice No. : I9318907
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318907

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
571231 H	208	273	0.04	0.003	0.10	14660
571232 H	208	273	0.09	0.002	< 0.03	12680
571233 H	208	273	0.04	0.002	< 0.03	12700
571234 H	208	276	0.16	0.002	0.21	9280
571235 H	208	273	0.14	0.002	0.10	12820
571236 H	208	273	0.04	0.002	< 0.03	13600
571237 H	208	273	0.03	< 0.001	< 0.03	12940
571238 H	208	273	0.08	0.013	< 0.03	12680
571239 H	208	276	0.02	< 0.001	< 0.03	7580
571240 H	208	276	0.02	0.007	< 0.03	10220
571241 H	208	273	0.04	0.001	< 0.03	12640
571242 H	208	276	0.05	0.001	< 0.03	11760
571243 H	208	273	0.04	0.002	< 0.03	12600
571244 H	208	273	0.06	0.004	0.21	13040
571245 H	208	273	0.04	0.003	0.27	12520
571246 H	208	273	0.03	0.002	0.10	12240
571247 H	208	273	0.10	0.001	< 0.03	12500
571248 H	208	276	0.04	0.001	< 0.03	11560
571249 H	208	273	0.04	< 0.001	< 0.03	12880
571250 H	208	273	0.04	0.001	< 0.03	11980
571251 H	208	276	0.04	0.002	< 0.03	11720
571252 H	208	276	0.04	0.001	< 0.03	11000
571253 H	208	276	0.07	0.015	< 0.03	7520
571254 H	208	274	0.06	0.015	< 0.03	6660
571255 H	208	273	0.03	0.003	0.03	12620
571256 H	208	276	0.05	0.003	< 0.03	9480
571257 H	208	276	0.07	0.002	< 0.03	11420
571258 H	208	276	0.05	0.002	< 0.03	11660

CERTIFICATION: _____

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Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Number :1-A
Total Pages :4
Certificate Date: 25-AUG-93
Invoice No. :I9318908
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318908

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571111 H	299	229	1.0	0.39	6	300	< 0.5	4	0.02	< 0.5	< 1	92	19	1.98	< 10	< 1	0.62	20	0.03	10	8
571112 H	299	229	1.8	0.45	12	230	< 0.5	18	0.01	< 0.5	< 1	74	10	2.41	< 10	< 1	0.76	20	0.03	10	10
571113 H	299	229	1.8	0.47	18	300	< 0.5	28	0.02	< 0.5	< 1	72	12	2.16	< 10	< 1	0.68	20	0.03	5	13
571114 H	299	229	1.0	0.56	20	350	< 0.5	6	0.01	< 0.5	< 1	92	7	1.80	< 10	< 1	0.69	20	0.03	10	7
571115 H	299	229	1.4	0.56	16	260	< 0.5	6	0.01	< 0.5	< 1	120	13	2.21	< 10	< 1	0.69	20	0.04	10	7
571116 H	299	229	2.0	0.63	18	160	< 0.5	4	0.01	< 0.5	< 1	84	8	3.06	< 10	< 1	0.95	20	0.04	10	21
571117 H	299	229	1.2	0.49	12	200	< 0.5	4	0.01	< 0.5	< 1	96	10	2.62	< 10	< 1	0.84	10	0.03	10	8
571118 H	299	229	0.8	0.57	12	200	< 0.5	2	0.01	< 0.5	< 1	70	12	2.84	< 10	< 1	0.85	10	0.04	10	6
571119 H	299	229	1.2	0.53	22	130	< 0.5	4	0.01	< 0.5	< 1	83	31	3.25	10	< 1	1.01	20	0.03	10	6
571120 H	299	229	2.0	0.61	22	210	< 0.5	6	< 0.01	< 0.5	< 1	82	15	2.71	< 10	< 1	0.74	20	0.04	20	28
571121 H	299	229	2.8	0.47	14	270	< 0.5	6	< 0.01	< 0.5	< 1	78	19	2.88	< 10	< 1	0.64	20	0.03	15	42
571122 H	299	229	4.0	0.52	20	220	< 0.5	12	0.01	< 0.5	< 1	91	14	3.17	< 10	< 1	0.83	20	0.03	10	30
571123 H	299	229	2.6	0.50	14	310	< 0.5	2	< 0.01	< 0.5	< 1	93	18	2.83	< 10	< 1	0.75	10	0.03	10	21
571124 H	299	229	2.6	0.60	24	260	< 0.5	8	< 0.01	< 0.5	< 1	78	22	3.84	< 10	< 1	0.79	10	0.04	20	29
571125 H	299	229	1.8	0.50	20	180	< 0.5	8	< 0.01	< 0.5	< 1	70	21	4.17	< 10	< 1	0.62	30	0.03	10	20
571126 H	299	229	2.0	0.52	20	270	< 0.5	4	< 0.01	< 0.5	< 1	78	21	3.14	< 10	< 1	0.78	10	0.03	10	44
571127 H	299	229	2.0	0.48	32	250	< 0.5	18	< 0.01	< 0.5	< 1	69	14	4.19	< 10	< 1	0.78	30	0.02	10	52
571128 H	299	229	2.0	0.62	20	230	< 0.5	20	< 0.01	< 0.5	< 1	59	26	3.51	< 10	< 1	0.76	30	0.03	5	22
571129 H	299	229	2.6	0.49	20	330	< 0.5	10	< 0.01	< 0.5	< 1	71	15	3.00	< 10	< 1	0.66	20	0.02	10	33
571130 H	299	229	2.6	0.55	28	370	< 0.5	8	< 0.01	< 0.5	< 1	67	17	3.05	< 10	< 1	0.59	20	0.03	15	62
571131 H	299	229	2.4	0.54	34	470	< 0.5	14	0.01	< 0.5	< 1	70	17	3.10	< 10	< 1	0.63	20	0.03	20	48
571132 H	299	229	2.2	0.41	34	310	< 0.5	6	< 0.01	< 0.5	< 1	68	20	2.29	< 10	< 1	0.55	10	0.02	20	36
571133 H	299	229	2.4	0.41	14	370	< 0.5	8	< 0.01	< 0.5	< 1	61	19	1.53	< 10	< 1	0.49	20	0.02	10	32
571134 H	299	229	3.4	0.47	20	450	< 0.5	6	< 0.01	< 0.5	< 1	58	28	1.88	< 10	< 1	0.61	20	0.03	10	58
571135 H	299	229	2.8	0.49	16	460	< 0.5	6	0.01	< 0.5	< 1	61	30	2.48	< 10	< 1	0.56	20	0.03	30	57
571136 H	299	229	5.0	0.60	12	380	< 0.5	14	< 0.01	< 0.5	< 1	70	26	2.05	< 10	< 1	0.65	20	0.04	15	41
571137 H	299	229	12.6	0.51	18	230	< 0.5	18	0.01	< 0.5	< 1	86	26	3.62	< 10	< 1	0.91	10	0.03	10	48
571138 H	299	229	5.0	0.52	22	210	< 0.5	18	0.01	< 0.5	< 1	82	37	2.92	< 10	< 1	0.64	20	0.03	15	25
571139 H	299	229	5.6	0.47	22	380	< 0.5	6	0.01	< 0.5	< 1	74	50	2.15	< 10	< 1	0.47	10	0.04	15	15
571140 H	299	229	5.6	0.61	26	380	< 0.5	4	0.01	< 0.5	1	100	136	2.54	< 10	< 1	0.54	20	0.06	65	9
571141 H	299	229	6.4	0.54	26	260	< 0.5	12	0.01	< 0.5	< 1	101	121	2.69	< 10	< 1	0.57	20	0.04	45	14
571142 H	299	229	2.0	0.62	18	200	< 0.5	2	0.01	< 0.5	< 1	102	70	2.38	< 10	< 1	0.62	10	0.06	20	16
571143 H	299	229	2.8	0.72	18	270	< 0.5	16	0.01	< 0.5	< 1	129	63	2.27	< 10	< 1	0.73	20	0.05	20	19
571144 H	299	229	1.6	0.77	20	320	< 0.5	4	0.01	< 0.5	< 1	111	33	2.36	< 10	< 1	0.74	30	0.06	15	54
571145 H	299	229	1.0	0.68	16	310	< 0.5	2	0.01	< 0.5	< 1	100	26	2.14	< 10	< 1	0.78	20	0.05	10	37
571146 H	299	229	2.6	0.61	66	180	< 0.5	8	0.01	< 0.5	< 1	73	18	3.15	< 10	< 1	1.09	20	0.04	5	37
571147 H	299	229	1.4	0.60	16	260	< 0.5	< 2	0.01	< 0.5	< 1	102	23	2.15	< 10	< 1	0.71	20	0.04	10	35
571148 H	299	229	1.4	0.64	22	240	< 0.5	< 2	0.01	< 0.5	< 1	95	69	2.21	< 10	< 1	0.69	20	0.05	15	26
571149 H	299	229	1.8	0.63	30	250	< 0.5	2	0.01	< 0.5	< 1	106	72	2.14	< 10	< 1	0.61	20	0.05	15	22
571150 H	299	229	1.2	0.72	30	220	< 0.5	< 2	0.01	< 0.5	< 1	102	107	2.35	< 10	< 1	0.66	20	0.06	10	21

CERTIFICATION: Ivan Bradley

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

ıber :1-B
Total Pages :4
Certificate Date: 25-AUG-93
Invoice No. :I9318908
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318908

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571111 H	299	229	0.01	2	90	36	< 2	< 1	9	< 0.01	< 10	< 10	6	< 10	6
571112 H	299	229	0.01	1	70	22	< 2	1	5	< 0.01	< 10	< 10	7	< 10	6
571113 H	299	229	0.01	1	150	36	< 2	1	8	< 0.01	< 10	< 10	7	< 10	6
571114 H	299	229	0.01	1	70	14	< 2	< 1	4	< 0.01	< 10	< 10	7	< 10	4
571115 H	299	229	0.02	1	120	20	< 2	1	7	< 0.01	< 10	< 10	9	< 10	4
571116 H	299	229	0.02	2	90	32	< 2	1	5	< 0.01	< 10	< 10	9	< 10	6
571117 H	299	229	0.02	2	80	14	< 2	1	6	< 0.01	< 10	< 10	8	< 10	6
571118 H	299	229	0.01	< 1	120	14	< 2	1	8	< 0.01	< 10	< 10	11	< 10	6
571119 H	299	229	0.02	1	200	18	< 2	2	11	< 0.01	< 10	< 10	13	< 10	6
571120 H	299	229	0.02	1	70	140	< 2	1	3	0.01	< 10	< 10	11	< 10	14
571121 H	299	229	0.01	2	80	12	< 2	1	3	0.01	< 10	< 10	12	170	6
571122 H	299	229	0.02	1	90	24	< 2	1	4	0.01	< 10	< 10	14	< 10	6
571123 H	299	229	0.02	1	70	12	< 2	1	3	0.01	< 10	< 10	12	< 10	6
571124 H	299	229	0.02	< 1	100	8	< 2	1	4	0.01	< 10	< 10	15	< 10	8
571125 H	299	229	0.01	1	70	12	< 2	1	3	0.01	< 10	< 10	15	20	6
571126 H	299	229	0.01	1	70	8	< 2	1	3	0.01	< 10	< 10	14	< 10	6
571127 H	299	229	0.01	1	140	8	< 2	1	4	0.02	< 10	< 10	16	10	8
571128 H	299	229	0.01	2	240	8	< 2	1	9	< 0.01	< 10	< 10	12	< 10	6
571129 H	299	229	0.01	1	70	8	< 2	< 1	3	0.01	< 10	< 10	12	< 10	6
571130 H	299	229	0.01	2	70	10	< 2	1	3	0.01	< 10	< 10	13	< 10	6
571131 H	299	229	0.01	2	80	14	< 2	1	6	0.01	< 10	< 10	13	20	8
571132 H	299	229	0.01	1	80	14	< 2	< 1	5	< 0.01	< 10	< 10	9	< 10	8
571133 H	299	229	0.01	2	70	14	< 2	< 1	3	< 0.01	< 10	< 10	7	< 10	4
571134 H	299	229	0.01	1	110	14	< 2	1	4	< 0.01	< 10	< 10	8	< 10	6
571135 H	299	229	0.01	2	150	18	< 2	1	7	< 0.01	< 10	< 10	10	< 10	12
571136 H	299	229	0.01	1	120	22	< 2	1	3	< 0.01	< 10	< 10	11	< 10	6
571137 H	299	229	0.01	3	130	28	< 2	1	3	0.01	< 10	< 10	11	< 10	8
571138 H	299	229	0.01	2	160	24	< 2	1	3	< 0.01	< 10	< 10	13	< 10	6
571139 H	299	229	0.01	1	180	12	< 2	1	6	< 0.01	< 10	< 10	9	< 10	10
571140 H	299	229	0.01	1	300	8	< 2	1	8	< 0.01	< 10	< 10	10	< 10	28
571141 H	299	229	0.01	2	360	8	< 2	1	9	< 0.01	< 10	< 10	10	< 10	26
571142 H	299	229	0.01	1	330	16	< 2	1	12	< 0.01	< 10	< 10	9	< 10	12
571143 H	299	229	0.02	2	300	22	< 2	1	14	< 0.01	< 10	< 10	9	< 10	8
571144 H	299	229	0.01	2	180	12	< 2	1	13	< 0.01	< 10	< 10	12	< 10	6
571145 H	299	229	0.01	2	150	14	< 2	1	13	< 0.01	< 10	< 10	9	< 10	4
571146 H	299	229	0.01	1	140	54	6	1	14	< 0.01	< 10	< 10	9	< 10	6
571147 H	299	229	0.02	1	100	18	2	1	12	< 0.01	< 10	< 10	7	< 10	4
571148 H	299	229	0.01	2	220	8	< 2	1	12	< 0.01	< 10	< 10	10	< 10	8
571149 H	299	229	0.01	2	440	8	< 2	1	18	< 0.01	< 10	< 10	8	< 10	8
571150 H	299	229	0.01	1	440	30	< 2	1	14	< 0.01	< 10	< 10	11	< 10	6

CERTIFICATION: Hart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :19318908
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318908

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571151 H	299	229	1.2	0.28	2	290	< 0.5	4	0.01	< 0.5	< 1	81	38	2.00	< 10	< 1	0.48	20	0.02	5	25
571152 H	299	229	1.6	0.81	2	290	< 0.5	8	0.01	< 0.5	1	142	36	2.79	< 10	< 1	0.86	10	0.04	10	44
571153 H	299	229	1.4	0.29	6	260	< 0.5	6	0.01	< 0.5	< 1	91	38	3.99	< 10	< 1	0.51	10	0.02	45	50
571154 H	299	229	1.0	0.71	2	270	< 0.5	8	0.01	< 0.5	1	175	46	2.13	< 10	< 1	0.75	20	0.04	10	28
571155 H	299	229	1.2	0.30	2	180	< 0.5	4	0.01	< 0.5	1	108	45	1.84	< 10	< 1	0.49	10	0.02	10	28
571156 H	299	229	2.4	0.70	6	240	< 0.5	2	0.01	< 0.5	1	187	44	2.34	< 10	< 1	0.78	10	0.04	15	52
571157 H	299	229	1.2	0.34	2	170	< 0.5	4	0.01	< 0.5	1	108	35	1.11	< 10	< 1	0.36	20	0.02	10	28
571158 H	299	229	1.6	0.83	2	190	< 0.5	6	0.01	0.5	1	176	51	2.53	< 10	< 1	0.57	20	0.06	20	86
571159 H	299	229	2.2	0.33	2	180	< 0.5	10	0.01	< 0.5	< 1	118	78	5.71	< 10	< 1	0.37	10	0.03	45	103
571160 H	299	229	2.8	0.71	2	300	< 0.5	6	0.01	< 0.5	1	184	55	3.09	< 10	< 1	0.64	20	0.04	30	118
571161 H	299	229	2.0	0.34	4	190	< 0.5	6	0.01	< 0.5	5	119	44	3.08	< 10	< 1	0.46	10	0.02	20	48
571162 H	299	229	1.8	0.75	4	230	< 0.5	2	0.01	< 0.5	9	182	53	3.46	< 10	< 1	0.60	20	0.04	35	91
571163 H	299	229	2.2	0.29	6	180	< 0.5	4	0.01	< 0.5	5	124	47	2.69	< 10	< 1	0.53	10	0.01	10	102
571164 H	299	229	1.4	0.65	6	160	< 0.5	2	0.01	< 0.5	9	167	51	2.32	< 10	< 1	0.65	20	0.04	10	53
571165 H	299	229	1.4	0.45	2	150	< 0.5	2	0.02	< 0.5	15	133	143	2.10	< 10	< 1	0.42	20	0.04	10	26
571166 H	299	229	0.4	1.15	2	70	< 0.5	4	0.02	< 0.5	31	186	166	3.14	< 10	< 1	0.67	20	0.10	15	13
571167 H	299	229	1.2	0.61	2	60	< 0.5	4	0.02	< 0.5	30	143	510	3.20	10	< 1	0.33	20	0.07	15	13
571168 H	299	229	0.6	1.45	2	40	< 0.5	< 2	0.04	< 0.5	28	195	656	4.23	10	< 1	0.73	40	0.13	20	22
571169 H	299	229	1.2	0.68	2	50	< 0.5	4	0.02	< 0.5	46	124	1260	4.11	< 10	< 1	0.37	10	0.10	20	22
571170 H	299	229	1.4	1.24	6	20	< 0.5	2	0.03	< 0.5	67	171	1210	5.60	< 10	< 1	0.65	20	0.13	20	30
571171 H	299	229	1.2	0.56	4	30	< 0.5	8	0.03	< 0.5	106	105	2440	5.07	10	< 1	0.30	20	0.07	10	45
571172 H	299	229	1.2	1.30	6	40	< 0.5	2	0.03	< 0.5	37	147	2370	4.18	10	< 1	0.64	30	0.11	15	72
571173 H	299	229	0.6	1.28	2	20	< 0.5	6	0.03	< 0.5	47	155	2350	5.38	< 10	< 1	0.65	20	0.13	15	27
571174 H	299	229	0.4	0.99	2	30	< 0.5	4	0.03	< 0.5	36	121	1530	4.13	< 10	< 1	0.49	10	0.09	10	6
571175 H	299	229	0.4	0.40	4	20	< 0.5	< 2	0.03	< 0.5	41	88	1200	5.26	< 10	< 1	0.21	10	0.05	10	15
571176 H	299	229	0.8	1.23	10	10	< 0.5	2	0.06	< 0.5	58	150	1680	6.55	< 10	< 1	0.57	10	0.11	15	70
571177 H	299	229	0.8	0.48	10	20	< 0.5	6	0.05	< 0.5	28	91	489	5.84	< 10	< 1	0.20	10	0.04	10	16
571178 H	299	229	1.2	1.37	34	10	< 0.5	< 2	0.08	< 0.5	32	137	1295	6.71	< 10	< 1	0.53	10	0.13	15	18
571179 H	299	229	0.8	0.90	12	60	< 0.5	8	0.08	< 0.5	63	95	1610	3.59	< 10	< 1	0.25	10	0.09	15	7
571180 H	299	229	1.2	1.52	2	20	< 0.5	4	0.09	< 0.5	34	141	1375	5.14	< 10	< 1	0.60	10	0.16	190	20
571181 H	299	229	0.4	0.62	10	10	< 0.5	8	0.08	< 0.5	39	73	533	4.82	< 10	< 1	0.20	< 10	0.05	10	17
571182 H	299	229	1.0	1.64	24	30	< 0.5	12	0.11	< 0.5	40	199	998	6.51	< 10	< 1	0.69	10	0.15	175	30
571183 H	299	229	1.6	0.94	8	20	< 0.5	6	0.11	< 0.5	54	113	1595	7.69	< 10	< 1	0.32	< 10	0.10	220	25
571184 H	299	229	1.4	1.78	6	90	< 0.5	2	0.11	0.5	31	196	1380	4.00	< 10	< 1	0.71	10	0.18	70	15
571185 H	299	229	0.8	0.84	2	20	< 0.5	4	0.10	< 0.5	39	112	1070	4.69	< 10	< 1	0.30	< 10	0.08	15	21
571186 H	299	229	1.8	1.61	4	50	< 0.5	< 2	0.12	0.5	41	181	1335	6.29	< 10	< 1	0.65	10	0.16	460	44
571187 H	299	229	18.0	0.78	280	40	< 0.5	52	0.11	< 0.5	25	110	907	>15.00	< 10	< 1	0.31	< 10	0.08	30	22
571188 H	299	229	1.8	1.60	18	30	< 0.5	8	0.12	< 0.5	32	197	1195	6.62	< 10	< 1	0.68	< 10	0.16	145	24
571189 H	299	229	1.0	1.06	4	60	< 0.5	2	0.14	< 0.5	27	117	1410	4.20	< 10	< 1	0.34	< 10	0.12	170	22
571190 H	299	229	1.0	1.62	2	40	< 0.5	4	0.14	< 0.5	27	173	1425	5.53	< 10	< 1	0.67	10	0.21	525	50

CERTIFICATION: Ivan Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571151 H	299	229	0.01	1	190	40	< 2	< 1	8	< 0.01	< 10	< 10	6	< 10	4
571152 H	299	229	0.02	1	160	24	< 2	1	8	< 0.01	< 10	< 10	13	10	4
571153 H	299	229	0.01	1	170	22	< 2	< 1	7	< 0.01	< 10	< 10	11	30	16
571154 H	299	229	0.01	2	140	10	< 2	1	6	< 0.01	< 10	< 10	10	10	4
571155 H	299	229	0.01	< 1	100	16	< 2	< 1	4	< 0.01	< 10	< 10	4	< 10	2
571156 H	299	229	0.02	2	120	38	< 2	1	9	< 0.01	< 10	< 10	10	10	4
571157 H	299	229	0.01	2	80	16	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	8
571158 H	299	229	0.01	2	90	8	< 2	1	4	< 0.01	< 10	< 10	15	20	6
571159 H	299	229	0.01	1	130	10	4	< 1	4	< 0.01	< 10	< 10	17	20	12
571160 H	299	229	0.01	2	140	14	< 2	1	6	< 0.01	< 10	< 10	14	20	10
571161 H	299	229	0.01	3	100	8	< 2	< 1	3	< 0.01	< 10	< 10	9	10	6
571162 H	299	229	0.02	2	210	8	2	1	6	< 0.01	< 10	< 10	16	10	8
571163 H	299	229	0.01	2	290	16	2	1	13	< 0.01	< 10	< 10	8	10	2
571164 H	299	229	0.01	3	220	20	< 2	1	14	< 0.01	< 10	< 10	8	10	4
571165 H	299	229	0.01	3	230	16	< 2	1	20	< 0.01	< 10	< 10	4	< 10	4
571166 H	299	229	0.02	5	170	12	< 2	2	13	< 0.01	< 10	< 10	10	10	4
571167 H	299	229	0.01	4	180	2	2	2	24	< 0.01	< 10	< 10	5	< 10	6
571168 H	299	229	0.02	4	430	12	< 2	4	61	< 0.01	< 10	< 10	13	10	6
571169 H	299	229	0.01	4	140	20	< 2	1	17	< 0.01	< 10	< 10	6	< 10	6
571170 H	299	229	0.02	6	200	18	2	3	29	< 0.01	< 10	< 10	12	10	12
571171 H	299	229	0.01	4	310	14	2	3	63	< 0.01	< 10	< 10	6	10	4
571172 H	299	229	0.02	4	340	16	2	4	64	< 0.01	< 10	< 10	15	20	8
571173 H	299	229	0.02	6	280	6	4	3	46	< 0.01	< 10	< 10	14	10	8
571174 H	299	229	0.01	4	310	2	< 2	2	45	< 0.01	< 10	< 10	10	10	6
571175 H	299	229	0.01	5	310	2	< 2	2	31	< 0.01	< 10	< 10	3	10	6
571176 H	299	229	0.02	7	550	8	< 2	3	65	< 0.01	< 10	< 10	12	10	8
571177 H	299	229	< 0.01	4	490	26	2	2	82	< 0.01	< 10	< 10	4	10	14
571178 H	299	229	0.01	4	800	38	< 2	2	62	< 0.01	< 10	< 10	12	20	16
571179 H	299	229	0.01	4	840	8	< 2	2	72	< 0.01	< 10	< 10	7	10	12
571180 H	299	229	0.02	4	690	12	< 2	2	30	< 0.01	< 10	< 10	16	10	20
571181 H	299	229	< 0.01	5	650	8	2	1	36	< 0.01	< 10	< 10	6	10	8
571182 H	299	229	0.02	7	680	26	4	2	28	< 0.01	< 10	< 10	17	20	18
571183 H	299	229	0.01	6	630	8	2	1	18	< 0.01	< 10	< 10	13	20	28
571184 H	299	229	0.02	7	710	6	< 2	2	39	< 0.01	< 10	< 10	16	10	20
571185 H	299	229	0.01	4	590	14	< 2	1	46	< 0.01	< 10	< 10	8	10	14
571186 H	299	229	0.02	6	600	22	2	2	34	< 0.01	< 10	< 10	19	20	28
571187 H	299	229	0.01	4	540	126	6	2	59	< 0.01	< 10	< 10	8	10	34
571188 H	299	229	0.02	8	600	24	< 2	2	53	< 0.01	< 10	< 10	16	10	24
571189 H	299	229	0.01	7	710	10	< 2	1	42	< 0.01	< 10	< 10	12	10	26
571190 H	299	229	0.02	6	560	14	< 2	2	20	< 0.01	< 10	< 10	21	20	30

CERTIFICATION: Ian Bradley

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
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Project : CASINO 182
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9318908

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571191 H	299	229	1.6	1.40	12	50	< 0.5	< 2	0.12	< 0.5	34	132	1355	6.46	< 10	< 1	0.64	10	0.17	405	443
571192 H	299	229	3.2	0.95	32	20	< 0.5	< 2	0.16	< 0.5	25	71	2720	6.89	< 10	< 1	0.38	10	0.12	250	94
571193 H	299	229	3.0	1.35	36	10	< 0.5	4	0.14	< 0.5	39	129	551	10.75	< 10	< 1	0.65	10	0.13	90	32
571194 H	299	229	2.4	0.90	24	10	< 0.5	6	0.14	< 0.5	30	77	917	9.08	< 10	< 1	0.36	< 10	0.10	100	21
571195 H	299	229	5.4	0.65	16	90	< 0.5	6	0.16	< 0.5	30	86	2140	5.20	< 10	< 1	0.28	10	0.10	355	25
571196 H	299	229	1.4	1.06	< 2	110	< 0.5	< 2	0.09	< 0.5	58	154	1310	6.44	< 10	< 1	0.54	< 10	0.14	290	75
571197 H	299	229	1.4	0.75	2	80	< 0.5	2	0.16	< 0.5	45	108	1325	5.29	< 10	< 1	0.28	10	0.10	330	32
571198 H	299	229	1.2	1.31	< 2	160	< 0.5	< 2	0.17	< 0.5	21	168	1080	4.92	< 10	< 1	0.58	10	0.20	520	44
571199 H	299	229	1.4	0.66	< 2	140	< 0.5	< 2	0.18	0.5	23	82	1150	4.41	< 10	< 1	0.29	20	0.15	650	53
571200 H	299	229	1.2	1.42	< 2	130	< 0.5	< 2	0.19	0.5	29	146	1315	5.58	< 10	< 1	0.62	10	0.16	360	54
571201 H	299	229	0.8	0.65	2	140	< 0.5	< 2	0.20	0.5	22	97	964	4.77	< 10	< 1	0.29	20	0.11	755	30
571202 H	299	229	0.6	1.37	4	160	< 0.5	< 2	0.23	0.5	26	143	973	5.58	< 10	< 1	0.51	10	0.16	670	21
571203 H	299	229	1.2	0.61	6	90	< 0.5	< 2	0.18	< 0.5	29	89	818	5.51	< 10	< 1	0.26	10	0.09	275	47
571204 H	299	229	1.2	1.15	46	60	< 0.5	2	0.15	< 0.5	55	125	461	8.46	< 10	< 1	0.55	10	0.12	150	35
571205 H	299	229	1.8	0.50	44	60	< 0.5	< 2	0.16	0.5	22	101	205	9.80	< 10	< 1	0.27	< 10	0.07	150	14
571206 H	299	229	1.8	1.27	24	100	< 0.5	2	0.19	< 0.5	22	142	509	7.73	< 10	< 1	0.57	10	0.14	505	34
571207 H	299	229	0.6	0.94	6	70	< 0.5	2	0.17	< 0.5	24	118	419	6.86	< 10	< 1	0.46	10	0.12	285	3
571208 H	299	229	0.6	1.16	2	60	< 0.5	< 2	0.17	< 0.5	29	135	498	6.75	< 10	< 1	0.54	10	0.15	285	1
571209 H	299	229	0.8	1.00	14	80	< 0.5	4	0.14	< 0.5	32	103	442	7.43	< 10	< 1	0.51	< 10	0.12	210	3
571210 H	299	229	1.6	1.11	8	70	< 0.5	2	0.14	< 0.5	35	117	1025	5.77	< 10	< 1	0.45	10	0.18	250	11
571211 H	299	229	1.2	0.74	10	100	< 0.5	6	0.25	1.0	13	77	786	4.33	< 10	< 1	0.26	20	0.12	410	6
571212 H	299	229	0.8	1.01	4	140	< 0.5	< 2	0.15	< 0.5	27	112	928	4.11	< 10	< 1	0.44	10	0.16	110	11
571213 H	299	229	1.2	0.94	8	100	< 0.5	2	0.15	< 0.5	37	124	839	5.10	< 10	< 1	0.40	10	0.12	165	13
571214 H	299	229	2.8	1.01	8	40	< 0.5	< 2	0.14	< 0.5	43	117	1055	6.61	< 10	< 1	0.47	< 10	0.13	140	10
571215 H	299	229	1.0	0.88	24	100	< 0.5	4	0.19	< 0.5	23	113	520	5.99	< 10	< 1	0.40	10	0.14	440	5
571216 H	299	229	1.2	0.75	4	80	< 0.5	< 2	0.18	0.5	26	99	632	5.49	< 10	< 1	0.38	10	0.11	310	3
571217 H	299	229	1.2	0.91	< 2	90	< 0.5	< 2	0.15	< 0.5	54	102	949	5.43	< 10	< 1	0.42	10	0.15	375	20
571218 H	299	229	1.2	0.95	2	80	< 0.5	2	0.16	< 0.5	44	121	971	5.62	< 10	< 1	0.41	10	0.13	515	7
571219 H	299	229	3.8	0.99	< 2	80	< 0.5	14	0.15	< 0.5	46	120	1035	5.65	< 10	< 1	0.45	10	0.13	375	16
571220 H	299	229	1.2	1.15	4	130	< 0.5	< 2	0.15	< 0.5	32	130	848	4.41	< 10	< 1	0.42	20	0.13	335	5
571221 H	299	229	1.0	1.05	< 2	150	< 0.5	< 2	0.14	< 0.5	38	128	1215	4.08	< 10	< 1	0.48	10	0.14	130	6
571222 H	299	229	1.4	0.99	< 2	130	< 0.5	4	0.14	< 0.5	39	122	1380	4.06	< 10	< 1	0.44	10	0.15	300	2
571223 H	299	229	2.4	1.06	2	130	< 0.5	2	0.16	0.5	25	120	1190	5.46	< 10	< 1	0.52	10	0.15	700	5
571224 H	299	229	1.2	1.09	4	110	< 0.5	2	0.14	< 0.5	25	125	792	4.91	< 10	< 1	0.50	10	0.15	170	11
571225 H	299	229	1.0	0.65	< 2	130	< 0.5	4	0.16	0.5	26	65	895	4.41	< 10	< 1	0.28	10	0.11	880	91
571226 H	299	229	1.0	1.03	6	170	< 0.5	2	0.20	< 0.5	27	133	809	4.35	< 10	< 1	0.48	10	0.14	770	10
571227 H	299	229	0.8	1.05	2	120	< 0.5	2	0.15	< 0.5	32	116	1150	4.94	< 10	< 1	0.49	10	0.15	500	12
571228 H	299	229	0.8	0.79	6	100	< 0.5	2	0.14	< 0.5	29	78	963	4.92	< 10	< 1	0.35	10	0.12	760	16
571229 H	299	229	0.8	1.10	< 2	140	< 0.5	6	0.14	< 0.5	31	124	737	3.75	< 10	< 1	0.47	10	0.15	65	4
571230 H	299	229	0.4	0.60	4	110	< 0.5	4	0.10	< 0.5	40	98	449	3.75	< 10	< 1	0.27	10	0.08	30	3

CERTIFICATION:

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571191 H	299	229	0.02	6	430	16	6	2	19	< 0.01	< 10	< 10	19	10	26
571192 H	299	229	0.01	4	660	44	4	1	21	< 0.01	< 10	< 10	12	10	36
571193 H	299	229	0.02	4	520	32	4	2	22	< 0.01	< 10	< 10	15	10	18
571194 H	299	229	0.01	4	520	32	2	1	9	< 0.01	< 10	< 10	11	20	24
571195 H	299	229	0.01	4	570	22	4	1	11	< 0.01	< 10	< 10	10	< 10	32
571196 H	299	229	0.02	5	290	12	2	1	11	< 0.01	< 10	< 10	12	< 10	16
571197 H	299	229	0.01	6	610	14	4	1	35	< 0.01	< 10	10	10	< 10	24
571198 H	299	229	0.02	3	590	12	< 2	2	18	< 0.01	< 10	< 10	18	10	32
571199 H	299	229	0.01	3	580	8	< 2	1	20	< 0.01	< 10	< 10	14	10	32
571200 H	299	229	0.02	4	740	16	2	2	41	< 0.01	< 10	10	19	20	24
571201 H	299	229	0.01	3	630	8	< 2	1	21	< 0.01	< 10	< 10	16	10	32
571202 H	299	229	0.01	4	820	14	< 2	3	47	< 0.01	< 10	< 10	27	10	34
571203 H	299	229	0.01	4	650	12	2	1	45	< 0.01	< 10	10	10	< 10	20
571204 H	299	229	0.02	6	580	56	< 2	2	25	< 0.01	< 10	< 10	15	10	28
571205 H	299	229	0.01	5	580	42	4	1	21	< 0.01	< 10	< 10	7	< 10	32
571206 H	299	229	0.02	5	540	26	4	2	26	< 0.01	< 10	10	16	10	26
571207 H	299	229	0.02	8	560	24	2	1	13	< 0.01	< 10	10	11	10	16
571208 H	299	229	0.02	4	650	8	< 2	1	21	< 0.01	< 10	10	13	10	16
571209 H	299	229	0.02	5	530	14	< 2	1	15	< 0.01	< 10	10	< 10	< 10	12
571210 H	299	229	0.01	4	550	38	< 2	1	27	< 0.01	< 10	10	14	< 10	22
571211 H	299	229	< 0.01	9	870	66	< 2	2	12	< 0.01	< 10	< 10	12	< 10	72
571212 H	299	229	0.01	4	580	12	2	1	9	< 0.01	< 10	< 10	13	< 10	22
571213 H	299	229	0.01	5	600	6	2	1	19	< 0.01	< 10	10	11	< 10	20
571214 H	299	229	0.01	6	550	6	6	1	14	< 0.01	< 10	< 10	11	< 10	26
571215 H	299	229	0.01	8	660	10	< 2	1	9	< 0.01	< 10	< 10	10	< 10	34
571216 H	299	229	0.01	9	630	20	< 2	1	9	< 0.01	< 10	< 10	8	< 10	26
571217 H	299	229	0.01	7	580	20	< 2	1	7	< 0.01	< 10	< 10	11	< 10	20
571218 H	299	229	0.01	4	590	8	< 2	2	8	< 0.01	< 10	10	14	< 10	22
571219 H	299	229	0.01	4	580	36	< 2	1	14	< 0.01	< 10	< 10	13	< 10	24
571220 H	299	229	0.01	4	580	6	< 2	2	9	< 0.01	< 10	< 10	17	< 10	36
571221 H	299	229	0.01	6	540	14	< 2	1	8	< 0.01	< 10	< 10	12	< 10	18
571222 H	299	229	0.01	4	530	6	2	1	6	< 0.01	< 10	< 10	12	< 10	20
571223 H	299	229	0.01	4	580	22	2	2	7	< 0.01	< 10	< 10	15	< 10	28
571224 H	299	229	0.01	6	530	6	< 2	1	7	< 0.01	< 10	< 10	13	< 10	14
571225 H	299	229	0.01	5	570	6	< 2	2	7	< 0.01	< 10	< 10	15	< 10	28
571226 H	299	229	0.01	4	740	4	< 2	2	8	< 0.01	< 10	< 10	16	< 10	20
571227 H	299	229	0.02	4	530	6	< 2	1	8	< 0.01	< 10	< 10	15	< 10	20
571228 H	299	229	0.01	3	520	6	2	1	6	< 0.01	< 10	< 10	12	< 10	20
571229 H	299	229	0.01	4	550	10	< 2	1	7	< 0.01	< 10	< 10	13	< 10	24
571230 H	299	229	0.01	3	380	12	< 2	1	6	< 0.01	< 10	< 10	6	< 10	12

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571231 H	299	229	0.6	0.47	46	30	< 0.5	< 2	0.08	< 0.5	77	56	347	9.55	< 10	< 1	0.23	10	0.05	50	5
571232 H	299	229	0.6	1.01	10	50	< 0.5	< 2	0.11	< 0.5	27	125	852	5.42	< 10	< 1	0.49	10	0.10	290	6
571233 H	299	229	0.6	0.61	< 2	90	< 0.5	< 2	0.13	0.5	20	65	344	5.14	< 10	< 1	0.27	10	0.09	400	6
571234 H	299	229	1.4	0.71	36	20	< 0.5	< 2	0.12	0.5	37	57	1615	10.40	< 10	< 1	0.26	< 10	0.10	225	6
571235 H	299	229	0.8	0.52	22	20	< 0.5	< 2	0.12	0.5	29	37	1455	10.60	< 10	< 1	0.22	10	0.08	180	2
571236 H	299	229	0.6	0.62	< 2	70	< 0.5	< 2	0.11	< 0.5	19	88	371	4.79	< 10	< 1	0.30	20	0.08	215	1
571237 H	299	229	0.6	0.57	< 2	50	< 0.5	< 2	0.12	< 0.5	18	64	320	4.54	< 10	< 1	0.23	20	0.10	95	< 1
571238 H	299	229	0.8	0.52	< 2	60	< 0.5	< 2	0.13	< 0.5	26	60	840	5.14	< 10	< 1	0.19	20	0.09	485	63
571239 H	299	229	0.6	0.43	2	50	< 0.5	< 2	0.11	< 0.5	20	59	223	5.55	< 10	< 1	0.20	10	0.06	485	2
571240 H	299	229	0.6	0.36	6	50	< 0.5	< 2	0.13	< 0.5	61	51	228	6.16	< 10	< 1	0.16	< 10	0.04	430	37
571241 H	299	229	0.6	0.62	4	70	< 0.5	< 2	0.16	< 0.5	36	62	386	4.97	< 10	< 1	0.28	10	0.08	55	1
571242 H	299	229	0.8	0.64	4	40	< 0.5	< 2	0.12	< 0.5	39	89	519	5.97	< 10	< 1	0.28	10	0.07	85	3
571243 H	299	229	0.8	0.81	< 2	80	< 0.5	< 2	0.12	< 0.5	19	101	409	4.41	< 10	< 1	0.39	10	0.10	85	14
571244 H	299	229	0.4	0.47	88	< 10	< 0.5	< 2	0.07	2.0	30	72	599	>15.00	< 10	< 1	0.22	< 10	0.05	100	18
571245 H	299	229	0.4	0.66	78	< 10	< 0.5	< 2	0.09	1.0	44	87	379	>15.00	< 10	< 1	0.29	10	0.07	130	11
571246 H	299	229	0.8	0.45	36	20	< 0.5	< 2	0.11	0.5	57	47	312	10.40	< 10	< 1	0.22	10	0.07	15	10
571247 H	299	229	1.8	0.40	8	70	< 0.5	< 2	0.11	0.5	34	45	1020	4.81	< 10	< 1	0.24	10	0.06	20	6
571248 H	299	229	0.6	0.95	2	70	< 0.5	< 2	0.13	< 0.5	21	113	450	5.23	< 10	< 1	0.41	10	0.11	300	4
571249 H	299	229	1.4	0.52	2	60	< 0.5	< 2	0.12	< 0.5	16	63	435	5.52	< 10	< 1	0.27	10	0.08	260	< 1
571250 H	299	229	0.6	0.60	6	70	< 0.5	< 2	0.11	< 0.5	44	53	376	5.51	< 10	< 1	0.30	10	0.09	130	1
571251 H	299	229	0.4	0.36	2	60	< 0.5	< 2	0.13	< 0.5	60	48	385	5.00	< 10	< 1	0.18	10	0.06	30	6
571252 H	299	229	0.8	0.47	< 2	60	< 0.5	< 2	0.13	< 0.5	38	53	338	5.79	< 10	< 1	0.22	10	0.08	145	2
571253 H	299	229	1.2	0.48	14	60	< 0.5	< 2	0.12	< 0.5	59	48	689	5.89	< 10	< 1	0.18	< 10	0.11	390	79
571254 H	299	229	0.8	0.40	< 2	60	< 0.5	< 2	0.12	< 0.5	54	50	613	4.69	< 10	< 1	0.23	10	0.07	30	79
571255 H	299	229	1.2	0.43	4	40	< 0.5	< 2	0.12	< 0.5	44	63	272	6.39	< 10	< 1	0.26	10	0.09	30	15
571256 H	299	229	1.2	0.68	2	50	< 0.5	< 2	0.14	< 0.5	42	58	535	6.06	< 10	< 1	0.26	10	0.13	400	12
571257 H	299	229	0.8	0.55	2	80	< 0.5	< 2	0.14	< 0.5	35	71	665	4.01	< 10	< 1	0.31	10	0.10	150	11
571258 H	299	229	0.8	0.52	2	40	< 0.5	< 2	0.11	< 0.5	36	58	448	4.74	< 10	< 1	0.29	10	0.09	50	5

CERTIFICATION: Ian H Bucholz

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Account :FC

CERTIFICATE OF ANALYSIS A9318908

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571231 H	299	229	0.01	5	300	4	< 2	1	3	< 0.01	< 10	< 10	3	< 10	20
571232 H	299	229	0.02	5	440	2	< 2	1	9	< 0.01	< 10	< 10	10	< 10	18
571233 H	299	229	0.01	5	540	4	< 2	1	8	< 0.01	< 10	< 10	7	< 10	36
571234 H	299	229	0.01	5	530	2	< 2	1	10	< 0.01	< 10	< 10	8	< 10	38
571235 H	299	229	< 0.01	4	530	20	< 2	1	4	< 0.01	< 10	< 10	6	< 10	30
571236 H	299	229	0.01	4	440	8	< 2	1	5	< 0.01	< 10	< 10	9	< 10	30
571237 H	299	229	< 0.01	4	490	16	< 2	1	6	< 0.01	< 10	< 10	8	< 10	32
571238 H	299	229	< 0.01	4	520	2	< 2	1	5	< 0.01	< 10	< 10	8	< 10	28
571239 H	299	229	< 0.01	3	410	14	< 2	1	4	< 0.01	< 10	< 10	5	< 10	26
571240 H	299	229	< 0.01	4	540	6	< 2	< 1	5	< 0.01	< 10	< 10	4	< 10	18
571241 H	299	229	0.01	3	660	4	< 2	1	8	< 0.01	< 10	< 10	8	< 10	24
571242 H	299	229	0.01	4	540	4	< 2	1	11	< 0.01	< 10	< 10	8	< 10	22
571243 H	299	229	0.01	3	470	4	< 2	1	6	< 0.01	< 10	< 10	9	< 10	28
571244 H	299	229	< 0.01	5	250	22	< 2	1	2	< 0.01	< 10	< 10	4	< 10	76
571245 H	299	229	0.01	6	320	6	< 2	1	3	< 0.01	< 10	< 10	8	< 10	34
571246 H	299	229	< 0.01	6	480	12	< 2	1	3	< 0.01	< 10	< 10	4	< 10	28
571247 H	299	229	< 0.01	4	480	18	< 2	< 1	4	< 0.01	< 10	< 10	4	< 10	32
571248 H	299	229	0.01	6	510	8	< 2	2	6	< 0.01	< 10	< 10	13	< 10	36
571249 H	299	229	< 0.01	4	480	12	< 2	1	3	< 0.01	< 10	< 10	7	< 10	32
571250 H	299	229	0.01	4	450	10	< 2	1	4	< 0.01	< 10	< 10	8	< 10	30
571251 H	299	229	< 0.01	4	530	4	< 2	< 1	4	< 0.01	< 10	< 10	4	< 10	22
571252 H	299	229	< 0.01	4	520	8	< 2	1	4	< 0.01	< 10	< 10	6	< 10	24
571253 H	299	229	< 0.01	5	460	2	< 2	1	3	< 0.01	< 10	< 10	7	< 10	28
571254 H	299	229	0.01	5	490	6	< 2	< 1	4	< 0.01	< 10	< 10	4	< 10	18
571255 H	299	229	0.01	5	500	14	< 2	1	4	< 0.01	< 10	< 10	4	< 10	30
571256 H	299	229	0.01	5	570	2	< 2	2	4	< 0.01	< 10	< 10	13	< 10	32
571257 H	299	229	0.01	4	610	< 2	< 2	1	6	< 0.01	< 10	< 10	8	< 10	26
571258 H	299	229	0.01	4	460	6	< 2	1	4	< 0.01	< 10	< 10	6	< 10	20

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
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Certificate Date: 24-AUG-93
Invoice No. :I9319252
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319252

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H569519	208	274	< 0.01	0.007	0.10	7120
H569520	208	274	< 0.01	0.004	0.14	5600
H569521	208	274	< 0.01	0.006	0.07	2940
H569522	208	276	< 0.01	0.006	0.14	7460
H569523	208	276	< 0.01	0.003	0.21	7460
H569524	208	273	< 0.01	0.003	0.07	13020
H569525	208	276	< 0.01	0.005	< 0.03	10540
H569526	208	273	< 0.01	0.006	0.17	12600
H569527	208	276	< 0.01	0.004	< 0.03	7950
H569528	208	276	< 0.01	0.004	< 0.03	9120
H569529	208	276	< 0.01	0.007	< 0.03	9660
H569530	208	276	< 0.01	0.004	< 0.03	11600
H569531	208	276	< 0.01	0.005	0.10	11040
H569532	208	273	0.01	0.005	0.17	11920
H569533	208	276	< 0.01	0.006	0.10	11060
H569534	208	276	< 0.01	0.010	0.17	11600
H569535	208	276	< 0.01	0.008	0.27	11520
H569536	208	276	0.02	0.003	0.14	11740
H569537	208	273	0.01	0.006	0.31	13560
H569538	208	276	0.01	0.006	0.21	9600
H569539	208	274	0.01	0.005	0.10	1500
H569540	208	273	0.01	0.004	0.17	11860
H569541	208	276	0.01	0.009	0.27	11280
H569542	208	273	0.03	0.005	0.21	12480
H569543	208	276	0.01	0.002	0.24	10980
H569544	208	273	0.01	0.005	0.21	12380
H569545	208	276	0.01	0.005	0.24	10000
H569546	208	273	0.02	0.006	0.14	12400
H569547	208	276	0.01	0.013	0.14	11000
H569548	208	273	0.02	0.007	0.07	11960
H569549	208	276	0.02	0.010	0.24	11780
H569550	208	273	0.02	0.009	0.17	12480
H569551	208	276	0.03	0.011	0.21	11500
H569552	208	273	0.05	0.005	0.17	11900
H569553	208	273	0.04	0.009	0.21	11980
H569554	208	273	0.04	0.011	0.14	12060
H569555	208	273	0.04	0.010	0.31	12960
H569556	208	273	0.06	0.009	0.27	13020
H569557	208	276	0.08	0.006	0.24	11540
H569558	208	273	0.12	0.004	0.17	12380

CERTIFICATION: D Chrétien

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WHITEHORSE, YT
Y1A 3S9

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CERTIFICATE OF ANALYSIS A9319252

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H569559	208	273	0.26	0.029	0.34	13060
H569560	208	273	0.26	0.016	0.21	12800
H569561	208	273	0.11	0.010	0.17	11920
H569562	208	273	0.22	0.009	0.24	13280
H569563	208	273	0.15	0.005	0.17	13300
H569564	208	273	0.14	0.005	0.24	12340
H569565	208	273	0.25	0.007	0.27	12400
H569566	208	273	0.17	0.010	0.34	13620
H569567	208	273	0.33	0.014	0.31	14580
H569568	208	273	0.19	0.020	0.21	13860
H569569	208	273	0.11	0.010	0.14	14220
H569570	208	276	0.21	0.019	0.27	10540
H569571	208	273	0.14	0.006	0.21	13760
H569572	208	273	0.22	0.030	0.27	13540
H569573	208	273	0.15	0.007	0.27	13720
H569574	208	273	0.16	0.011	0.24	13920
H569575	208	273	0.10	0.006	0.21	13320
H569576	208	273	0.14	0.009	0.21	13020
H569577	208	273	0.16	0.043	0.24	12040
H569578	208	273	0.25	0.010	0.34	14480
H569579	208	273	0.13	0.006	0.17	12920
H569580	208	273	0.14	0.012	0.27	13680
H569581	208	273	0.18	0.030	0.34	12080
H569582	208	273	0.20	0.042	0.31	13200
H569583	208	273	0.17	0.014	0.31	13240
H569584	208	273	0.11	0.007	0.21	13620
H569585	208	273	0.11	0.011	0.14	12380
H569586	208	273	0.15	0.030	0.17	13300
H569587	208	273	0.17	0.035	0.24	13120
H569588	208	273	0.19	0.018	0.21	13100
H569589	208	273	0.19	0.030	0.24	12500
H569590	208	273	0.21	0.014	0.24	13320
H569591	208	273	0.18	0.019	0.21	13200
H569592	208	273	0.21	0.013	0.31	12680
H569593	208	273	0.16	0.018	0.14	13720
H569594	208	273	0.17	0.015	0.14	12820
H569595	208	273	0.22	0.072	0.24	12500
H569596	208	273	0.16	0.042	0.17	12650
H569597	208	273	0.20	0.017	0.17	12780
H569598	208	273	0.11	0.008	0.14	13480

CERTIFICATION: A. Ghirlhi

Chemex Labs Ltd.

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
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Certificate Date: 24-AUG-93
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CERTIFICATE OF ANALYSIS A9319252

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H569599	208	276	0.16	0.014	0.21	8860
H569600	208	273	0.18	0.011	0.34	13060
H569601	208	273	0.20	0.026	0.34	13100
H569602	208	276	0.21	0.025	0.38	11060
H569603	208	273	0.29	0.028	0.48	12160
H569604	208	273	0.30	0.031	0.48	13420
H569605	208	273	0.23	0.024	0.21	16280
H569606	208	273	0.18	0.032	0.27	12540
H569607	208	273	0.18	0.013	0.51	12620
H569608	208	273	0.16	0.014	0.24	13340
H569609	208	273	0.18	0.012	0.21	13160
H569610	208	273	0.17	0.025	0.21	12860
H569611	208	273	0.14	0.024	0.17	13220
H569612	208	273	0.12	0.022	0.17	13440
H569613	208	273	0.09	0.016	0.14	12760
H569614	208	273	0.12	0.021	0.21	13160
H569615	208	273	0.11	0.010	0.14	12760
H569616	208	273	0.16	0.027	0.17	12940
H569617	208	273	0.14	0.016	0.14	13320
H569618	208	273	0.20	0.044	0.27	12380
H569619	208	273	0.22	0.040	0.17	12340
H569620	208	273	0.18	0.024	0.21	13040
H569621	208	273	0.30	0.066	0.41	12600
H569622	208	273	0.18	0.014	0.21	12560
H569623	208	276	0.13	0.053	0.14	11660
H569624	208	273	0.15	0.102	0.14	12100
H569625	208	273	0.20	0.035	0.24	12560
H569626	208	273	0.15	0.011	0.27	12940
H569627	208	273	0.19	0.012	0.34	13100
H569628	208	273	0.22	0.019	0.34	12540
H569629	208	273	0.12	0.030	0.14	12980
H569630	208	273	0.14	0.097	0.17	12520
H569631	208	276	0.18	0.024	0.21	10960
H569632	208	276	0.21	0.043	0.34	11750
H569633	208	273	0.21	0.030	0.17	13480
H569634	208	273	0.19	0.034	0.24	12500
H569635	208	273	0.14	0.011	0.21	15600
H569636	208	276	0.19	0.065	0.17	11200
H569637	208	276	0.17	0.021	0.24	11700
H569638	208	273	0.18	0.031	0.21	13300

CERTIFICATION: Okrshi

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-AUG-93
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CERTIFICATE OF ANALYSIS A9319252

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H569639	208	273	0.15	0.039	0.21	12700
H569640	208	276	0.17	0.020	0.27	9260
H569641	208	273	0.16	0.034	0.24	13700
H569642	208	276	0.23	0.025	0.27	11480
H569643	208	273	0.12	0.026	0.10	12240
H569644	208	276	0.19	0.085	0.27	7780
H569645	208	273	0.16	0.010	0.24	12560
H569646	208	270	0.24	0.043	0.27	18700
H569647	208	276	0.17	0.066	0.10	11760
H569648	208	273	0.22	0.042	0.24	12200
H569649	208	276	0.13	0.048	0.21	11480
H569650	208	273	0.43	0.118	0.58	12460
H569651	208	273	0.28	0.062	0.38	13100
H569652	208	273	0.24	0.017	0.38	13480
H569653	208	273	0.20	0.016	0.27	12860
H569654	208	273	0.32	0.010	0.38	12760
H569655	208	273	0.28	0.013	0.45	12680
H569656	208	273	0.28	0.024	0.51	12680
H569657	208	273	0.18	0.024	0.27	13460
H569658	208	273	0.24	0.068	0.31	11960
H569659	208	273	0.13	0.014	0.21	12280
H569660	208	273	0.24	0.017	0.31	12840
H569661	208	273	0.22	0.033	0.34	14980
H569662	208	273	0.15	0.025	0.34	12940
H569663	208	273	0.10	0.019	0.24	13400
H569664	208	273	0.13	0.014	0.24	14340
H569665	208	273	0.16	0.019	0.21	14520
H569666	208	273	0.21	0.033	0.31	13180
H569667	208	273	0.19	0.044	0.24	12720
H569668	208	273	0.17	0.015	0.24	12720
H569669	208	273	0.14	0.075	0.24	12300
H569670	208	273	0.12	0.023	0.24	13740
H569671	208	273	0.12	0.031	0.17	12520
H569672	208	273	0.17	0.032	0.21	12840
H569673	208	273	0.29	0.032	0.27	13140
H569674	208	273	0.22	0.023	0.31	13500
H569675	208	273	0.20	0.033	0.34	13700
H569676	208	273	0.14	0.017	0.27	12720
H569677	208	273	0.19	0.022	0.31	13540
H569678	208	273	0.18	0.021	0.62	13660

CERTIFICATION: O'Shafe

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-AUG-93
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CERTIFICATE OF ANALYSIS A9319252

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H569679	208	273	0.25	0.015	0.31	13840						
H569680	208	273	0.28	0.024	0.41	13400						
H569681	208	273	0.23	0.022	0.38	14600						
H569682	208	273	0.19	0.013	0.34	13560						
H569683	208	273	0.23	0.020	0.27	12400						
H569684	208	273	0.20	0.007	0.45	13660						
H569685	208	273	0.14	0.029	0.89	12420						
H569686	208	273	0.14	0.020	0.14	14020						
H569687	208	273	0.08	0.013	0.21	12760						
H569688	208	273	0.08	0.012	0.27	12850						
H569689	208	273	0.21	0.007	0.45	13700						
H569690	208	273	0.24	0.011	0.14	13140						
H569691	208	276	0.25	0.006	0.27	9520						
H569692	208	273	0.24	0.015	0.31	13300						
H569693	208	276	0.23	0.011	0.34	9080						
H569694	208	276	0.30	0.012	0.27	7840						
H569695	208	273	0.32	0.017	0.41	13960						
H569696	208	273	0.21	0.014	0.17	13880						
H569697	208	273	0.18	0.012	0.24	14060						
H569698	208	273	0.19	0.010	0.24	13180						
H569699	208	273	0.12	0.011	0.10	13660						
H569700	208	273	0.19	0.009	0.10	14440						
H569701	208	273	0.18	0.009	0.10	14140						
H569702	208	273	0.16	0.013	0.14	13040						
H569703	208	273	0.11	0.009	0.03	13340						
H569704	208	273	0.14	0.014	0.10	13160						
H569705	208	273	0.15	0.011	0.07	13760						
H569706	208	276	0.12	0.064	< 0.03	11060						
H569707	208	273	0.10	0.017	< 0.03	13660						
H569708	208	273	0.18	0.011	0.10	13360						
H569709	208	273	0.12	0.008	0.03	13240						
H569710	208	276	0.12	0.009	< 0.03	10620						
H569711	208	273	0.19	0.012	0.31	13960						
H569712	208	273	0.14	0.006	0.07	13380						
H569713	208	273	0.14	0.006	0.10	14160						
H569714	208	273	0.23	0.011	0.14	13600						
H569715	208	273	0.15	0.011	0.21	14680						
H569716	208	273	0.10	0.005	< 0.03	12840						
H569717	208	273	0.14	0.004	< 0.03	14320						
H569718	208	273	0.24	0.010	0.21	13700						

CERTIFICATION: D. Grieve

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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CERTIFICATE OF ANALYSIS A9319252

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H569719	208	273	0.16	0.010	0.31	14450
H569720	208	273	0.14	0.005	0.07	13660
H569721	208	273	0.10	0.005	< 0.03	14780
H569722	208	273	0.10	0.009	0.14	14100
H569723	208	273	0.12	0.001	< 0.03	13560
H569724	208	273	0.06	< 0.001	< 0.03	13640
H569725	208	273	0.07	0.002	0.14	14060
H569726	208	273	0.06	0.002	< 0.03	13620
H569727	208	273	0.04	< 0.001	< 0.03	13500
H569728	208	273	0.09	< 0.001	< 0.03	13160
H569729	208	273	0.10	0.001	< 0.03	14360
H569730	208	273	0.06	0.002	< 0.03	13100
H569731	208	273	0.05	< 0.001	< 0.03	13240
H569732	208	273	0.05	0.003	< 0.03	12780

CERTIFICATION: _____

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 1-A
Total Pages : 6
Certificate Date: 25-AUG-93
Invoice No. : 19319253
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319253

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B569519	299	229	0.8	0.30	12	140	< 0.5	2	0.03	< 0.5	< 1	49	18	0.94	< 10	< 1	0.34	20	0.03	15	32
B569520	299	229	0.8	0.44	8	150	< 0.5	2	0.01	< 0.5	< 1	109	18	0.68	< 10	< 1	0.45	20	0.03	15	19
B569521	299	229	0.8	0.44	20	150	< 0.5	2	0.02	< 0.5	< 1	149	21	1.03	< 10	< 1	0.50	30	0.02	20	30
B569522	299	229	1.6	0.62	14	200	< 0.5	14	0.02	< 0.5	< 1	100	26	0.73	< 10	< 1	0.53	40	0.06	20	33
B569523	299	229	1.2	0.47	4	150	< 0.5	4	0.01	< 0.5	< 1	120	21	0.48	< 10	< 1	0.40	40	0.04	10	14
B569524	299	229	0.6	0.43	6	190	< 0.5	2	0.01	< 0.5	< 1	90	14	0.63	< 10	< 1	0.39	10	0.03	10	15
B569525	299	229	0.6	0.35	< 2	120	< 0.5	< 2	< 0.01	< 0.5	< 1	163	14	0.56	< 10	< 1	0.35	10	0.02	10	16
B569526	299	229	1.2	0.43	8	130	< 0.5	2	0.01	< 0.5	< 1	84	15	0.56	< 10	< 1	0.36	20	0.04	10	20
B569527	299	229	0.8	0.47	2	190	< 0.5	< 2	0.01	< 0.5	< 1	126	16	0.44	< 10	< 1	0.40	30	0.04	15	11
B569528	299	229	1.2	0.40	4	180	< 0.5	< 2	0.02	< 0.5	< 1	85	15	0.59	< 10	< 1	0.31	10	0.03	15	16
B569529	299	229	1.4	0.35	10	240	< 0.5	12	0.01	< 0.5	< 1	113	15	1.44	< 10	< 1	0.48	20	0.02	10	34
B569530	299	229	1.6	0.41	22	290	< 0.5	12	0.01	< 0.5	< 1	90	23	2.47	< 10	< 1	0.73	20	0.03	10	17
B569531	299	229	1.0	0.52	10	260	< 0.5	12	0.01	< 0.5	< 1	158	32	2.34	< 10	< 1	0.63	20	0.03	15	14
B569532	299	229	2.0	0.56	28	310	< 0.5	8	0.01	< 0.5	< 1	98	76	2.32	< 10	< 1	0.64	30	0.04	15	26
B569533	299	229	0.8	0.55	10	360	< 0.5	< 2	< 0.01	< 0.5	< 1	130	25	1.99	< 10	< 1	0.62	20	0.04	15	26
B569534	299	229	1.2	0.56	12	280	< 0.5	4	< 0.01	< 0.5	< 1	117	25	1.90	< 10	< 1	0.61	10	0.04	15	58
B569535	299	229	1.8	0.42	14	250	< 0.5	2	< 0.01	< 0.5	< 1	70	39	2.57	< 10	< 1	0.61	10	0.03	10	43
B569536	299	229	1.0	1.01	20	210	< 0.5	< 2	0.01	< 0.5	< 1	116	194	2.48	< 10	< 1	0.69	30	0.07	20	19
B569537	299	229	2.0	0.88	46	150	< 0.5	4	0.01	< 0.5	< 1	161	127	3.28	< 10	< 1	0.95	20	0.07	20	28
B569538	299	229	1.4	0.59	28	180	< 0.5	< 2	0.01	< 0.5	< 1	86	129	2.96	< 10	< 1	0.73	20	0.04	15	24
B569539	299	229	1.2	0.37	20	170	< 0.5	< 2	< 0.01	< 0.5	< 1	46	88	3.11	< 10	< 1	0.77	20	0.02	5	27
B569540	299	229	1.4	0.50	34	170	< 0.5	2	0.01	< 0.5	< 1	90	107	2.89	< 10	< 1	0.66	10	0.03	15	23
B569541	299	229	2.2	0.74	24	290	< 0.5	< 2	0.01	< 0.5	< 1	199	107	2.30	< 10	< 1	0.70	10	0.06	20	47
B569542	299	229	1.8	0.60	86	190	< 0.5	< 2	0.01	< 0.5	< 1	101	235	3.10	< 10	< 1	0.64	20	0.04	20	23
B569543	299	229	3.0	0.62	34	150	< 0.5	4	0.01	< 0.5	< 1	145	59	2.66	< 10	< 1	0.76	30	0.04	15	11
B569544	299	229	2.4	0.52	22	280	< 0.5	2	< 0.01	< 0.5	< 1	109	64	2.33	< 10	< 1	0.56	20	0.05	15	30
B569545	299	229	1.6	0.38	10	280	< 0.5	2	< 0.01	< 0.5	< 1	76	88	2.19	< 10	< 1	0.49	20	0.03	10	29
B569546	299	229	1.4	0.67	32	270	< 0.5	< 2	0.01	< 0.5	< 1	99	156	2.35	< 10	< 1	0.62	30	0.05	15	34
B569547	299	229	1.2	0.83	36	250	< 0.5	< 2	0.01	< 0.5	< 1	150	129	2.11	< 10	< 1	0.67	30	0.07	20	68
B569548	299	229	0.8	0.83	24	340	< 0.5	< 2	< 0.01	< 0.5	< 1	110	177	1.73	< 10	< 1	0.63	30	0.08	20	29
B569549	299	229	3.8	0.62	48	220	< 0.5	2	0.01	< 0.5	< 1	60	204	2.68	< 10	< 1	0.67	20	0.05	15	56
B569550	299	229	1.8	0.87	46	190	< 0.5	< 2	0.01	< 0.5	< 1	94	210	2.44	< 10	< 1	0.69	20	0.06	15	51
B569551	299	229	1.0	1.09	36	450	< 0.5	< 2	0.01	< 0.5	1	86	293	1.62	< 10	< 1	0.46	20	0.15	35	67
B569552	299	229	1.2	0.90	18	280	< 0.5	< 2	0.01	< 0.5	3	94	528	2.55	< 10	< 1	0.45	20	0.10	40	24
B569553	299	229	1.8	1.02	36	220	< 0.5	< 2	0.01	< 0.5	< 1	125	357	2.34	< 10	< 1	0.58	20	0.09	20	39
B569554	299	229	0.6	1.05	18	410	< 0.5	< 2	0.01	< 0.5	1	103	358	1.93	< 10	< 1	0.57	20	0.14	30	55
B569555	299	229	1.4	0.62	28	380	< 0.5	< 2	0.01	< 0.5	2	63	393	1.95	< 10	< 1	0.41	20	0.04	30	58
B569556	299	229	1.8	0.80	30	340	< 0.5	< 2	0.01	< 0.5	7	91	628	3.05	< 10	< 1	0.51	10	0.07	55	46
B569557	299	229	1.2	1.12	36	280	< 0.5	< 2	0.01	< 0.5	11	103	766	2.63	< 10	< 1	0.56	30	0.21	70	30
B569558	299	229	2.4	0.62	76	50	< 0.5	< 2	0.02	< 0.5	17	38	1200	4.05	< 10	< 1	0.39	20	0.06	60	20

CERTIFICATION: Hunt Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H569519	299	229	0.01	2	110	24	< 2	< 1	7	< 0.01	< 10	< 10	2	< 10	12
H569520	299	229	0.01	2	80	22	< 2	< 1	7	< 0.01	< 10	< 10	4	< 10	8
H569521	299	229	0.01	2	120	26	4	< 1	10	< 0.01	< 10	< 10	4	< 10	8
H569522	299	229	0.02	1	90	24	2	1	8	< 0.01	< 10	< 10	4	< 10	6
H569523	299	229	0.01	2	70	20	2	< 1	6	< 0.01	< 10	< 10	3	< 10	6
H569524	299	229	0.01	2	40	14	< 2	< 1	4	< 0.01	< 10	< 10	3	< 10	6
H569525	299	229	0.01	3	30	16	< 2	< 1	3	< 0.01	< 10	< 10	3	< 10	8
H569526	299	229	0.01	2	30	20	2	< 1	3	< 0.01	< 10	< 10	3	< 10	8
H569527	299	229	0.01	3	40	26	2	< 1	5	< 0.01	< 10	< 10	3	< 10	14
H569528	299	229	0.01	1	40	38	2	< 1	4	< 0.01	< 10	< 10	3	< 10	6
H569529	299	229	0.01	1	110	78	< 2	< 1	5	< 0.01	< 10	< 10	3	< 10	8
H569530	299	229	0.02	1	230	50	< 2	< 1	8	< 0.01	< 10	< 10	6	< 10	8
H569531	299	229	0.02	3	170	40	< 2	< 1	8	< 0.01	< 10	< 10	10	< 10	12
H569532	299	229	0.02	< 1	230	38	2	< 1	10	< 0.01	< 10	< 10	8	< 10	12
H569533	299	229	0.02	2	130	26	< 2	< 1	7	< 0.01	< 10	< 10	10	< 10	8
H569534	299	229	0.02	1	80	16	< 2	< 1	6	< 0.01	< 10	< 10	6	< 10	12
H569535	299	229	0.02	1	140	30	< 2	< 1	8	< 0.01	< 10	< 10	7	< 10	10
H569536	299	229	0.02	1	530	20	< 2	3	16	< 0.01	10	< 10	30	< 10	14
H569537	299	229	0.03	2	420	26	2	1	14	< 0.01	< 10	< 10	14	< 10	12
H569538	299	229	0.02	1	460	18	< 2	1	15	< 0.01	< 10	< 10	13	< 10	12
H569539	299	229	0.03	1	380	16	< 2	1	15	< 0.01	< 10	< 10	8	< 10	8
H569540	299	229	0.02	2	360	20	< 2	1	11	< 0.01	< 10	< 10	13	< 10	10
H569541	299	229	0.02	2	280	86	< 2	1	9	< 0.01	< 10	< 10	13	< 10	16
H569542	299	229	0.02	1	600	24	2	2	16	< 0.01	< 10	< 10	15	< 10	32
H569543	299	229	0.03	2	330	36	2	1	11	< 0.01	< 10	< 10	8	< 10	12
H569544	299	229	0.01	1	240	26	2	< 1	8	< 0.01	< 10	< 10	11	< 10	10
H569545	299	229	0.01	2	300	22	< 2	1	11	< 0.01	< 10	< 10	8	< 10	8
H569546	299	229	0.02	2	540	18	< 2	2	16	< 0.01	< 10	< 10	15	< 10	12
H569547	299	229	0.02	2	530	12	2	2	16	< 0.01	< 10	< 10	16	< 10	10
H569548	299	229	0.02	2	490	10	< 2	2	16	< 0.01	< 10	< 10	17	< 10	12
H569549	299	229	0.02	1	680	170	4	2	20	< 0.01	< 10	< 10	14	< 10	12
H569550	299	229	0.02	2	700	20	< 2	2	18	< 0.01	< 10	< 10	20	< 10	10
H569551	299	229	0.01	2	760	18	< 2	3	15	0.01	< 10	< 10	27	< 10	14
H569552	299	229	0.01	2	570	8	2	2	12	< 0.01	< 10	< 10	23	< 10	34
H569553	299	229	0.02	2	750	18	< 2	2	18	< 0.01	< 10	< 10	19	< 10	12
H569554	299	229	0.02	2	620	8	2	2	14	< 0.01	< 10	< 10	20	< 10	18
H569555	299	229	0.01	2	630	24	2	2	14	< 0.01	< 10	< 10	14	< 10	40
H569556	299	229	0.02	2	470	16	< 2	1	11	< 0.01	< 10	< 10	20	< 10	76
H569557	299	229	0.01	4	530	8	< 2	3	13	0.01	< 10	< 10	26	< 10	64
H569558	299	229	0.01	3	590	44	< 2	1	10	< 0.01	< 10	< 10	9	< 10	50

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B569559	299 229	2.0	1.39	38	90	< 0.5	< 2	0.04	< 0.5	26	108	2590	2.47	< 10	< 1	0.33	20	0.10	60	165
B569560	299 229	1.2	1.43	12	120	< 0.5	< 2	0.18	< 0.5	31	76	2780	2.32	< 10	< 1	0.42	20	0.16	100	112
B569561	299 229	0.6	1.17	4	150	< 0.5	< 2	0.77	< 0.5	25	61	1020	3.08	< 10	< 1	0.50	20	0.59	440	49
B569562	299 229	1.8	0.81	20	120	< 0.5	< 2	0.62	< 0.5	25	71	2200	3.39	< 10	< 1	0.33	20	0.36	345	48
B569563	299 229	1.2	0.90	8	130	< 0.5	< 2	0.73	0.5	27	126	1415	3.47	< 10	< 1	0.50	30	0.41	390	24
B569564	299 229	1.4	0.92	8	130	< 0.5	< 2	0.36	< 0.5	31	70	1345	3.70	< 10	< 1	0.37	20	0.32	395	27
B569565	299 229	1.6	1.22	12	110	< 0.5	< 2	0.19	0.5	30	109	2390	3.46	< 10	< 1	0.43	20	0.22	165	34
B569566	299 229	1.4	1.01	< 2	180	< 0.5	< 2	1.00	< 0.5	29	84	1625	3.21	< 10	< 1	0.46	30	0.68	330	50
B569567	299 229	1.8	1.01	< 2	100	< 0.5	< 2	0.40	0.5	38	102	3150	4.23	< 10	< 1	0.43	20	0.45	235	67
B569568	299 229	1.2	0.86	< 2	120	< 0.5	< 2	0.87	0.5	26	58	1885	2.91	< 10	< 1	0.38	30	0.54	250	95
B569569	299 229	1.0	0.94	< 2	130	< 0.5	< 2	0.77	< 0.5	26	126	1055	2.93	< 10	< 1	0.40	20	0.56	250	48
B569570	299 229	2.0	0.80	8	100	< 0.5	< 2	1.01	0.5	30	114	2090	3.42	< 10	< 1	0.41	20	0.54	435	94
B569571	299 229	1.2	1.06	< 2	130	< 0.5	< 2	0.94	< 0.5	24	121	1310	3.04	< 10	< 1	0.36	20	0.61	225	22
B569572	299 229	1.2	0.82	< 2	180	< 0.5	< 2	1.38	< 0.5	20	81	2070	2.05	< 10	< 1	0.37	20	0.74	200	155
B569573	299 229	1.2	0.78	< 2	110	< 0.5	< 2	0.85	< 0.5	25	83	1420	2.33	< 10	< 1	0.36	20	0.53	155	32
B569574	299 229	1.0	0.90	2	100	< 0.5	< 2	1.01	< 0.5	26	71	1575	2.35	< 10	< 1	0.40	30	0.71	210	56
B569575	299 229	0.6	1.30	4	200	< 0.5	2	0.87	< 0.5	21	129	952	2.01	< 10	< 1	0.49	20	0.88	195	22
B569576	299 229	1.6	0.95	6	100	< 0.5	2	1.07	< 0.5	23	97	1350	2.57	< 10	< 1	0.41	20	0.69	205	45
B569577	299 229	1.2	0.94	6	120	< 0.5	2	0.84	< 0.5	21	154	1535	2.22	< 10	< 1	0.41	20	0.58	180	241
B569578	299 229	1.6	1.16	4	100	< 0.5	< 2	1.16	< 0.5	22	84	2630	2.63	< 10	< 1	0.48	20	0.82	145	57
B569579	299 229	1.0	1.20	4	140	< 0.5	2	0.96	< 0.5	22	103	1395	2.65	< 10	< 1	0.51	30	0.54	195	30
B569580	299 229	1.0	1.17	6	130	< 0.5	< 2	0.80	< 0.5	28	107	1385	2.79	< 10	< 1	0.43	30	0.41	300	64
B569581	299 229	1.8	1.18	4	100	< 0.5	2	0.67	< 0.5	24	152	1775	2.99	< 10	< 1	0.47	30	0.32	280	153
B569582	299 229	1.2	1.08	2	140	< 0.5	< 2	0.86	< 0.5	19	165	1970	2.70	< 10	< 1	0.48	40	0.47	210	226
B569583	299 229	1.2	1.15	6	180	< 0.5	< 2	1.01	< 0.5	20	119	1735	2.40	< 10	< 1	0.43	30	0.63	165	70
B569584	299 229	0.8	1.42	6	240	< 0.5	< 2	0.87	< 0.5	22	157	1190	2.49	< 10	< 1	0.50	30	0.85	215	41
B569585	299 229	0.6	1.54	8	170	< 0.5	< 2	0.40	< 0.5	20	157	1110	2.96	< 10	< 1	0.58	30	0.86	185	54
B569586	299 229	0.8	1.38	4	110	< 0.5	2	0.81	< 0.5	20	158	1470	2.10	< 10	< 1	0.61	30	0.75	110	154
B569587	299 229	1.2	1.39	18	80	< 0.5	< 2	1.43	< 0.5	29	147	1740	2.88	< 10	< 1	0.56	30	0.92	190	174
B569588	299 229	1.2	1.48	16	130	< 0.5	< 2	1.01	< 0.5	29	157	1895	3.18	< 10	< 1	0.57	20	0.86	185	97
B569589	299 229	1.2	1.07	12	110	< 0.5	< 2	0.73	< 0.5	23	177	1885	3.79	< 10	< 1	0.49	20	0.46	290	172
B569590	299 229	2.4	1.11	28	40	< 0.5	4	0.51	< 0.5	23	146	2060	4.80	< 10	< 1	0.61	10	0.31	240	65
B569591	299 229	1.8	1.21	8	100	< 0.5	2	0.79	< 0.5	27	171	1910	3.50	< 10	< 1	0.65	20	0.66	215	99
B569592	299 229	1.2	1.27	14	100	< 0.5	< 2	0.42	0.5	28	183	2100	4.10	< 10	< 1	0.65	10	0.69	200	67
B569593	299 229	1.0	1.35	8	110	< 0.5	< 2	0.27	< 0.5	26	165	1570	3.48	< 10	< 1	0.55	10	0.49	250	96
B569594	299 229	1.4	1.26	14	150	< 0.5	2	0.31	< 0.5	16	202	1815	2.42	< 10	< 1	0.58	10	0.49	190	81
B569595	299 229	1.0	1.54	14	90	< 0.5	< 2	0.36	< 0.5	22	132	2100	3.09	< 10	< 1	0.75	20	0.78	170	384
B569596	299 229	1.0	1.98	12	190	< 0.5	< 2	0.50	< 0.5	18	155	1535	2.45	10	< 1	0.86	40	1.21	195	224
B569597	299 229	0.6	1.67	10	80	< 0.5	< 2	0.40	< 0.5	16	152	2120	3.08	< 10	< 1	0.75	20	1.01	135	93
B569598	299 229	0.8	1.83	4	130	< 0.5	< 2	0.38	1.0	24	107	1155	2.92	10	< 1	0.65	20	1.13	240	43

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :I9319253
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319253

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R569559	299 229	0.01	7	630	12	4	2	19	< 0.01	< 10	< 10	15	< 10	44
R569560	299 229	0.01	5	520	6	< 2	2	12	< 0.01	< 10	< 10	15	< 10	52
R569561	299 229	0.02	4	430	2	< 2	2	14	< 0.01	< 10	< 10	21	< 10	70
R569562	299 229	0.01	4	300	8	< 2	1	13	< 0.01	< 10	< 10	12	< 10	72
R569563	299 229	0.01	4	390	8	< 2	1	13	< 0.01	< 10	< 10	12	< 10	72
R569564	299 229	0.01	3	410	6	< 2	1	9	< 0.01	< 10	< 10	17	< 10	80
R569565	299 229	0.01	6	430	10	< 2	1	8	< 0.01	< 10	< 10	15	< 10	54
R569566	299 229	0.01	3	410	6	< 2	2	19	< 0.01	< 10	< 10	21	< 10	68
R569567	299 229	0.01	4	340	6	< 2	1	10	< 0.01	< 10	< 10	20	< 10	60
R569568	299 229	0.01	3	310	14	< 2	2	16	< 0.01	< 10	< 10	16	< 10	64
R569569	299 229	0.02	4	420	4	< 2	2	16	< 0.01	< 10	< 10	21	< 10	54
R569570	299 229	0.01	5	340	10	< 2	2	14	< 0.01	< 10	< 10	15	< 10	66
R569571	299 229	0.02	4	410	6	< 2	2	19	< 0.01	< 10	< 10	20	< 10	46
R569572	299 229	0.01	3	650	6	2	2	21	< 0.01	< 10	< 10	17	< 10	44
R569573	299 229	0.01	4	340	4	< 2	1	15	< 0.01	< 10	< 10	13	< 10	40
R569574	299 229	0.01	3	370	6	< 2	2	17	< 0.01	< 10	< 10	18	< 10	42
R569575	299 229	0.02	5	390	6	< 2	3	24	0.01	< 10	< 10	27	< 10	40
R569576	299 229	0.01	4	320	8	< 2	2	21	< 0.01	< 10	< 10	21	< 10	34
R569577	299 229	0.02	5	250	6	< 2	2	20	< 0.01	< 10	< 10	17	< 10	40
R569578	299 229	0.02	5	340	6	2	4	28	0.01	< 10	< 10	33	< 10	32
R569579	299 229	0.02	4	390	4	< 2	3	19	0.01	< 10	< 10	29	< 10	34
R569580	299 229	0.02	5	460	4	< 2	3	18	< 0.01	< 10	< 10	28	10	42
R569581	299 229	0.01	6	380	12	2	3	11	< 0.01	< 10	< 10	22	< 10	50
R569582	299 229	0.02	4	330	4	< 2	3	17	< 0.01	< 10	< 10	23	< 10	42
R569583	299 229	0.02	5	350	6	2	3	22	< 0.01	< 10	< 10	24	< 10	40
R569584	299 229	0.03	6	450	6	< 2	4	22	0.01	< 10	< 10	32	< 10	42
R569585	299 229	0.04	6	440	4	2	4	16	0.02	< 10	< 10	44	< 10	40
R569586	299 229	0.03	6	320	4	< 2	4	17	0.01	< 10	< 10	30	< 10	28
R569587	299 229	0.02	6	410	8	< 2	3	21	0.01	< 10	< 10	27	< 10	36
R569588	299 229	0.02	5	330	12	< 2	4	15	0.01	< 10	< 10	31	< 10	42
R569589	299 229	0.01	6	410	4	< 2	2	10	< 0.01	< 10	< 10	24	< 10	46
R569590	299 229	0.01	7	520	30	< 2	2	15	< 0.01	< 10	< 10	17	< 10	48
R569591	299 229	0.02	7	340	12	< 2	4	15	0.01	< 10	< 10	35	< 10	48
R569592	299 229	0.03	6	260	158	< 2	4	17	0.03	< 10	< 10	44	< 10	76
R569593	299 229	0.02	6	380	12	< 2	3	10	0.02	< 10	< 10	32	< 10	48
R569594	299 229	0.02	5	340	10	< 2	3	12	0.01	< 10	< 10	29	< 10	46
R569595	299 229	0.02	5	340	4	< 2	7	10	0.03	< 10	< 10	51	< 10	36
R569596	299 229	0.02	6	390	2	2	8	16	0.06	< 10	< 10	60	< 10	36
R569597	299 229	0.02	7	430	4	< 2	6	16	0.04	< 10	< 10	48	< 10	34
R569598	299 229	0.02	10	520	14	< 2	4	13	0.02	< 10	< 10	36	< 10	94

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :6
Certificate Date: 25-AUG-93
Invoice No. :I9319253
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CERTIFICATE OF ANALYSIS A9319253

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H569599	299	229	1.6	1.46	6	170	< 0.5	2	0.28	< 0.5	22	116	1505	2.72	< 10	< 1	0.64	20	0.95	230	78
H569600	299	229	1.2	1.44	10	200	< 0.5	< 2	0.27	< 0.5	23	87	1740	2.97	< 10	< 1	0.61	20	0.76	260	59
H569601	299	229	1.0	1.52	8	190	< 0.5	< 2	0.76	< 0.5	21	124	1950	2.24	10	< 1	0.72	40	0.93	155	144
H569602	299	229	1.4	1.12	12	120	< 0.5	< 2	0.55	< 0.5	29	80	2100	3.29	< 10	< 1	0.60	30	0.60	235	124
H569603	299	229	1.4	1.26	4	180	< 0.5	< 2	0.54	< 0.5	28	133	2890	3.26	10	< 1	0.75	30	0.69	200	145
H569604	299	229	2.4	0.78	8	120	< 0.5	6	0.41	< 0.5	17	87	3170	3.59	< 10	< 1	0.43	20	0.35	180	177
H569605	299	229	2.2	0.99	8	130	< 0.5	12	0.28	< 0.5	29	110	2300	3.62	< 10	< 1	0.54	20	0.38	240	121
H569606	299	229	1.2	1.19	4	160	< 0.5	< 2	0.68	< 0.5	18	80	1730	2.58	< 10	< 1	0.65	30	0.84	230	173
H569607	299	229	1.4	1.08	8	110	< 0.5	2	0.46	< 0.5	26	108	1810	2.97	10	< 1	0.59	40	0.67	225	66
H569608	299	229	1.2	0.95	10	100	< 0.5	2	0.44	0.5	24	70	1545	3.23	< 10	< 1	0.57	30	0.57	205	70
H569609	299	229	1.4	1.17	12	120	< 0.5	< 2	0.42	3.5	20	154	1805	3.07	10	< 1	0.65	50	0.47	235	58
H569610	299	229	1.4	0.95	10	90	< 0.5	4	0.84	3.0	17	135	1630	3.96	10	< 1	0.58	60	0.61	195	119
H569611	299	229	1.2	1.23	14	160	< 0.5	2	0.81	3.0	23	148	1300	2.86	< 10	< 1	0.63	40	0.68	190	128
H569612	299	229	0.6	1.44	4	170	< 0.5	< 2	0.83	< 0.5	20	151	1085	2.50	< 10	< 1	0.70	20	0.82	140	113
H569613	299	229	0.6	1.57	4	270	< 0.5	< 2	0.66	< 0.5	17	151	854	2.29	10	< 1	0.76	30	0.97	160	77
H569614	299	229	0.8	1.61	8	190	< 0.5	< 2	0.61	< 0.5	18	167	1075	2.50	10	< 1	0.74	30	0.81	160	112
H569615	299	229	0.4	1.54	6	130	< 0.5	< 2	0.57	< 0.5	20	172	1030	2.52	10	< 1	0.75	40	0.76	115	45
H569616	299	229	0.8	1.71	12	240	< 0.5	< 2	0.90	< 0.5	16	194	1545	2.05	10	< 1	0.78	40	0.83	120	131
H569617	299	229	0.8	1.62	6	200	< 0.5	< 2	0.99	< 0.5	18	169	1300	2.22	10	< 1	0.72	30	0.84	160	78
H569618	299	229	1.2	1.69	12	110	< 0.5	< 2	0.77	< 0.5	15	163	1895	2.28	< 10	< 1	0.67	30	0.78	180	238
H569619	299	229	1.8	1.43	18	130	< 0.5	< 2	0.81	< 0.5	13	149	2130	2.07	< 10	< 1	0.59	30	0.67	235	217
H569620	299	229	1.2	0.61	2	110	< 0.5	< 2	0.67	< 0.5	29	73	1770	2.42	< 10	< 1	0.17	20	0.25	170	117
H569621	299	229	3.0	1.11	10	70	< 0.5	4	1.06	< 0.5	18	98	2920	3.89	< 10	< 1	0.51	30	0.58	190	366
H569622	299	229	1.2	0.64	2	90	< 0.5	< 2	0.89	< 0.5	21	75	1730	2.54	< 10	< 1	0.36	20	0.49	255	85
H569623	299	229	0.6	1.01	4	120	< 0.5	< 2	0.47	< 0.5	18	98	1275	2.44	< 10	< 1	0.68	40	0.59	70	312
H569624	299	229	0.8	0.84	10	80	< 0.5	< 2	0.78	< 0.5	14	61	1510	1.98	< 10	< 1	0.52	30	0.78	105	643
H569625	299	229	1.4	1.27	8	80	< 0.5	< 2	0.55	< 0.5	20	124	2030	2.58	< 10	< 1	0.79	30	0.68	110	201
H569626	299	229	1.0	1.30	2	140	< 0.5	< 2	0.67	< 0.5	23	77	1435	2.42	< 10	< 1	0.78	20	1.03	180	62
H569627	299	229	1.4	1.67	6	150	< 0.5	< 2	0.61	< 0.5	26	141	2030	3.09	< 10	< 1	0.76	30	0.76	195	66
H569628	299	229	1.4	0.88	4	130	< 0.5	< 2	0.82	< 0.5	22	79	2430	2.56	< 10	< 1	0.49	30	0.72	185	103
H569629	299	229	0.6	1.62	12	130	< 0.5	< 2	0.84	< 0.5	18	114	1225	2.15	10	< 1	0.73	30	0.98	120	169
H569630	299	229	0.8	0.90	< 2	160	< 0.5	< 2	0.76	< 0.5	15	102	1435	1.79	< 10	< 1	0.48	30	0.64	120	619
H569631	299	229	1.2	1.51	4	200	< 0.5	< 2	0.66	< 0.5	20	145	1830	2.11	< 10	< 1	0.64	30	0.61	180	138
H569632	299	229	2.2	1.01	6	140	< 0.5	2	0.74	< 0.5	26	65	2250	2.69	< 10	< 1	0.48	40	0.68	185	267
H569633	299	229	2.4	1.50	4	140	< 0.5	2	0.75	< 0.5	22	144	2100	2.59	10	< 1	0.60	40	0.56	205	169
H569634	299	229	1.6	1.11	8	170	< 0.5	< 2	0.63	< 0.5	19	53	1955	2.26	< 10	< 1	0.57	30	0.79	160	207
H569635	299	229	2.2	1.37	8	120	< 0.5	< 2	0.55	< 0.5	21	75	1410	2.77	< 10	< 1	0.60	20	0.70	235	49
H569636	299	229	1.8	0.77	< 2	80	< 0.5	< 2	0.70	< 0.5	41	63	2020	2.92	< 10	< 1	0.40	30	0.53	255	378
H569637	299	229	0.8	1.68	10	120	< 0.5	< 2	0.52	< 0.5	24	124	1760	2.52	< 10	< 1	0.62	30	0.78	150	111
H569638	299	229	0.8	1.28	6	240	< 0.5	< 2	0.74	< 0.5	23	62	1780	2.00	< 10	< 1	0.68	30	1.01	145	176

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B569599	299	229	0.02	7	460	10	< 2	4	11	0.03	< 10	< 10	40	< 10	48
B569600	299	229	0.01	4	400	10	< 2	4	10	0.02	< 10	< 10	40	< 10	46
B569601	299	229	0.02	6	420	2	< 2	6	12	0.03	< 10	< 10	47	< 10	34
B569602	299	229	0.01	5	510	6	< 2	4	7	0.02	< 10	< 10	34	< 10	36
B569603	299	229	0.01	6	520	< 2	< 2	3	9	0.02	< 10	< 10	35	< 10	40
B569604	299	229	0.01	4	360	6	< 2	2	10	< 0.01	< 10	< 10	22	< 10	42
B569605	299	229	0.01	6	460	8	< 2	2	8	< 0.01	< 10	< 10	24	< 10	50
B569606	299	229	0.01	6	410	6	< 2	4	14	0.03	< 10	< 10	38	< 10	48
B569607	299	229	0.01	6	390	6	< 2	3	15	0.02	< 10	< 10	32	< 10	38
B569608	299	229	0.01	3	420	30	< 2	3	14	0.02	< 10	< 10	33	< 10	74
B569609	299	229	0.01	6	410	142	< 2	6	11	0.01	< 10	< 10	40	< 10	188
B569610	299	229	0.01	6	390	96	< 2	4	12	0.01	< 10	< 10	32	< 10	164
B569611	299	229	0.02	7	410	120	2	4	15	0.01	< 10	< 10	31	< 10	172
B569612	299	229	0.03	4	460	4	< 2	4	21	0.02	< 10	< 10	35	< 10	32
B569613	299	229	0.06	4	440	2	< 2	6	20	0.05	< 10	< 10	53	< 10	30
B569614	299	229	0.04	5	450	18	2	4	16	0.02	< 10	< 10	39	< 10	26
B569615	299	229	0.03	5	390	2	< 2	4	17	0.02	< 10	< 10	38	< 10	22
B569616	299	229	0.02	6	380	8	2	7	19	0.03	< 10	< 10	44	< 10	30
B569617	299	229	0.02	4	440	2	< 2	7	16	0.02	< 10	< 10	44	< 10	32
B569618	299	229	0.01	5	430	4	2	6	14	0.02	< 10	< 10	39	< 10	36
B569619	299	229	0.01	5	430	10	4	5	12	0.01	< 10	< 10	33	< 10	40
B569620	299	229	< 0.01	10	710	8	< 2	3	8	< 0.01	< 10	< 10	12	< 10	54
B569621	299	229	0.01	11	600	12	2	2	10	< 0.01	< 10	< 10	17	< 10	42
B569622	299	229	0.01	5	470	2	2	3	10	< 0.01	< 10	< 10	22	< 10	38
B569623	299	229	0.02	4	260	< 2	< 2	4	10	0.02	< 10	< 10	38	< 10	20
B569624	299	229	0.01	4	430	2	2	4	9	0.02	< 10	< 10	38	< 10	30
B569625	299	229	0.02	6	280	6	2	4	14	0.03	< 10	< 10	43	< 10	36
B569626	299	229	0.02	5	510	2	2	7	17	0.08	< 10	< 10	56	< 10	52
B569627	299	229	0.02	6	500	16	2	6	16	0.03	< 10	< 10	47	< 10	58
B569628	299	229	0.01	4	450	2	2	5	12	0.03	< 10	< 10	37	< 10	28
B569629	299	229	0.02	4	460	2	2	7	36	0.04	< 10	< 10	47	< 10	26
B569630	299	229	0.01	4	700	2	2	6	12	0.02	< 10	< 10	33	< 10	24
B569631	299	229	0.01	6	510	2	< 2	7	12	0.03	< 10	< 10	43	< 10	32
B569632	299	229	0.01	7	520	12	2	8	11	0.03	< 10	< 10	42	< 10	34
B569633	299	229	0.01	6	480	8	< 2	7	10	0.02	< 10	< 10	41	< 10	34
B569634	299	229	0.01	4	470	6	< 2	5	14	0.03	< 10	< 10	40	< 10	28
B569635	299	229	0.01	10	590	6	2	3	14	0.01	< 10	< 10	29	< 10	42
B569636	299	229	< 0.01	8	620	4	< 2	3	8	0.01	< 10	< 10	20	< 10	48
B569637	299	229	0.01	6	550	4	2	7	13	0.03	< 10	< 10	42	< 10	46
B569638	299	229	0.01	5	450	< 2	2	7	16	0.04	< 10	< 10	48	< 10	26

CERTIFICATION: Ian Bachlet

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#569639	299	229	0.6	0.99	2	190	< 0.5	< 2	0.71	< 0.5	25	145	1580	2.10	< 10	< 1	0.53	30	0.64	130	244
#569640	299	229	1.0	0.65	2	190	< 0.5	< 2	0.17	< 0.5	17	64	2000	1.84	< 10	< 1	0.17	50	0.18	60	160
#569641	299	229	1.0	0.67	< 2	120	< 0.5	< 2	0.15	< 0.5	23	54	1705	2.82	< 10	< 1	0.24	20	0.21	180	230
#569642	299	229	1.8	0.53	< 2	120	< 0.5	< 2	0.75	< 0.5	30	112	2770	2.87	< 10	< 1	0.20	30	0.30	340	175
#569643	299	229	0.8	0.91	< 2	210	< 0.5	< 2	0.67	< 0.5	22	113	1370	1.99	< 10	< 1	0.37	30	0.38	185	166
#569644	299	229	1.0	0.78	< 2	170	< 0.5	< 2	1.64	< 0.5	24	96	2080	2.47	< 10	< 1	0.30	30	0.60	305	506
#569645	299	229	0.8	1.37	< 2	110	< 0.5	< 2	0.40	< 0.5	25	107	1805	2.54	< 10	< 1	0.78	30	0.62	125	60
#569646	299	229	1.8	0.96	4	110	< 0.5	< 2	0.56	< 0.5	36	104	2760	2.27	< 10	< 1	0.40	30	0.28	195	255
#569647	299	229	2.0	1.05	2	90	< 0.5	2	0.79	< 0.5	28	124	1965	2.47	< 10	< 1	0.39	40	0.33	340	379
#569648	299	229	2.2	0.96	10	190	< 0.5	< 2	1.00	< 0.5	23	145	2480	2.13	< 10	< 1	0.39	40	0.41	415	240
#569649	299	229	1.6	1.04	< 2	120	< 0.5	< 2	1.12	< 0.5	39	136	1565	3.46	< 10	< 1	0.45	20	0.46	385	268
#569650	299	229	2.0	0.85	40	150	< 0.5	< 2	0.88	< 0.5	28	103	5110	2.33	< 10	< 1	0.42	30	0.42	180	722
#569651	299	229	1.4	1.18	< 2	150	< 0.5	< 2	0.74	< 0.5	21	89	3020	2.14	< 10	< 1	0.69	40	0.70	155	367
#569652	299	229	1.6	0.88	2	80	< 0.5	< 2	0.13	< 0.5	43	74	2820	3.84	< 10	< 1	0.48	20	0.22	175	104
#569653	299	229	0.8	1.05	4	60	< 0.5	< 2	0.20	< 0.5	38	86	2350	4.39	< 10	< 1	0.59	30	0.38	170	88
#569654	299	229	4.2	0.99	4	30	< 0.5	8	0.48	0.5	34	127	3730	4.58	< 10	< 1	0.45	20	0.28	245	59
#569655	299	229	1.8	0.60	4	80	< 0.5	< 2	0.27	< 0.5	40	51	3250	4.04	< 10	< 1	0.34	30	0.32	170	71
#569656	299	229	1.4	0.94	< 2	110	< 0.5	< 2	0.21	< 0.5	36	88	3210	3.89	< 10	< 1	0.53	40	0.31	165	132
#569657	299	229	1.2	0.65	< 2	120	< 0.5	< 2	0.29	< 0.5	59	49	2050	4.18	< 10	< 1	0.38	30	0.34	190	136
#569658	299	229	2.0	1.02	4	30	< 0.5	< 2	0.53	< 0.5	56	99	2750	4.77	< 10	< 1	0.46	30	0.35	160	394
#569659	299	229	1.6	0.52	< 2	30	< 0.5	< 2	0.28	< 0.5	24	43	1430	5.70	< 10	< 1	0.29	30	0.37	200	76
#569660	299	229	1.4	0.89	4	70	< 0.5	< 2	0.31	< 0.5	25	86	2530	4.66	< 10	< 1	0.51	20	0.49	155	88
#569661	299	229	2.4	0.43	10	30	< 0.5	< 2	0.41	< 0.5	37	45	2400	5.46	< 10	< 1	0.26	30	0.29	140	188
#569662	299	229	2.8	0.88	58	30	< 0.5	< 2	0.38	< 0.5	33	87	1615	6.64	< 10	< 1	0.49	20	0.26	180	129
#569663	299	229	2.6	0.98	78	10	< 0.5	< 2	0.53	0.5	39	104	1135	8.43	< 10	< 1	0.51	20	0.33	230	101
#569664	299	229	2.2	1.04	124	10	< 0.5	< 2	0.39	0.5	49	150	1480	9.93	< 10	< 1	0.58	10	0.23	105	72
#569665	299	229	2.4	0.97	54	10	< 0.5	2	0.27	0.5	65	107	1785	9.14	< 10	< 1	0.53	30	0.19	120	100
#569666	299	229	1.8	1.14	6	20	< 0.5	< 2	0.23	< 0.5	47	111	2260	5.72	10	< 1	0.60	50	0.31	170	174
#569667	299	229	3.8	0.84	24	10	< 0.5	6	0.22	0.5	42	158	2090	7.00	10	< 1	0.50	50	0.22	205	229
#569668	299	229	3.6	1.00	30	20	< 0.5	< 2	0.17	< 0.5	63	132	1900	6.16	< 10	< 1	0.45	30	0.22	315	78
#569669	299	229	2.2	0.86	40	30	< 0.5	< 2	0.25	< 0.5	36	124	1495	5.53	< 10	< 1	0.34	30	0.19	305	398
#569670	299	229	1.6	1.01	24	60	< 0.5	< 2	0.21	0.5	31	122	1330	5.05	< 10	< 1	0.53	40	0.40	295	118
#569671	299	229	1.6	1.00	34	40	< 0.5	< 2	0.35	< 0.5	37	147	1290	6.74	< 10	< 1	0.36	30	0.36	495	157
#569672	299	229	1.2	0.90	20	90	< 0.5	< 2	0.26	< 0.5	32	110	1825	5.47	< 10	< 1	0.51	30	0.47	245	170
#569673	299	229	3.0	0.93	16	20	< 0.5	< 2	0.21	< 0.5	47	119	3200	5.61	< 10	< 1	0.39	30	0.21	270	174
#569674	299	229	2.8	0.71	32	30	< 0.5	< 2	0.21	< 0.5	67	121	2280	6.62	< 10	< 1	0.39	20	0.20	270	113
#569675	299	229	3.2	0.61	28	10	< 0.5	< 2	0.31	< 0.5	25	93	2160	8.52	< 10	< 1	0.33	20	0.29	200	166
#569676	299	229	2.8	0.66	24	10	< 0.5	< 2	0.37	< 0.5	58	118	1490	9.15	< 10	< 1	0.33	20	0.26	215	79
#569677	299	229	2.4	0.73	22	20	< 0.5	< 2	0.36	< 0.5	36	160	2100	6.06	< 10	< 1	0.40	30	0.38	230	122
#569678	299	229	2.0	0.91	18	20	< 0.5	< 2	0.37	< 0.5	59	132	1995	6.02	< 10	< 1	0.36	30	0.26	250	110

CERTIFICATION:

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9319253

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H569639	299	229	0.01	5	530	2	< 2	4	10	0.02	< 10	< 10	31	< 10	26
H569640	299	229	< 0.01	6	630	6	< 2	7	8	< 0.01	< 10	< 10	33	< 10	34
H569641	299	229	< 0.01	9	600	2	< 2	2	7	< 0.01	< 10	< 10	16	< 10	38
H569642	299	229	< 0.01	8	560	8	< 2	4	8	< 0.01	< 10	< 10	16	< 10	46
H569643	299	229	0.01	6	500	6	< 2	6	9	< 0.01	< 10	< 10	26	< 10	28
H569644	299	229	0.01	4	710	6	2	7	12	< 0.01	< 10	< 10	28	< 10	30
H569645	299	229	0.01	4	430	< 2	< 2	6	10	0.03	< 10	< 10	40	< 10	26
H569646	299	229	0.01	6	570	4	2	3	9	< 0.01	< 10	< 10	22	< 10	28
H569647	299	229	0.01	7	490	12	2	4	10	< 0.01	< 10	< 10	20	< 10	34
H569648	299	229	0.01	5	350	12	4	3	9	< 0.01	< 10	< 10	15	< 10	36
H569649	299	229	0.01	7	450	8	2	2	9	< 0.01	< 10	< 10	14	< 10	34
H569650	299	229	0.01	6	440	4	4	3	11	< 0.01	< 10	< 10	15	< 10	30
H569651	299	229	0.02	6	310	2	2	6	12	0.03	< 10	< 10	40	< 10	20
H569652	299	229	0.01	6	260	4	< 2	2	8	< 0.01	< 10	< 10	20	< 10	28
H569653	299	229	0.01	6	370	< 2	< 2	3	11	0.02	< 10	< 10	28	< 10	30
H569654	299	229	0.01	6	370	4	< 2	3	10	< 0.01	< 10	< 10	21	< 10	36
H569655	299	229	0.01	7	240	< 2	< 2	2	9	< 0.01	< 10	< 10	20	< 10	34
H569656	299	229	0.01	6	240	4	< 2	2	9	< 0.01	< 10	< 10	21	< 10	32
H569657	299	229	0.01	7	320	< 2	< 2	2	7	0.01	< 10	< 10	22	< 10	28
H569658	299	229	0.01	8	370	4	2	2	12	< 0.01	< 10	< 10	18	< 10	34
H569659	299	229	< 0.01	6	240	4	< 2	1	14	< 0.01	< 10	< 10	17	< 10	32
H569660	299	229	0.01	4	190	< 2	< 2	2	10	0.01	< 10	< 10	28	< 10	36
H569661	299	229	< 0.01	6	230	6	< 2	1	6	< 0.01	< 10	< 10	13	< 10	38
H569662	299	229	0.01	6	290	28	< 2	1	7	< 0.01	< 10	< 10	15	< 10	42
H569663	299	229	0.01	6	300	30	< 2	2	8	< 0.01	< 10	< 10	17	< 10	66
H569664	299	229	0.01	7	380	42	< 2	1	7	< 0.01	< 10	< 10	10	< 10	64
H569665	299	229	0.01	8	520	32	< 2	2	7	< 0.01	< 10	< 10	10	< 10	46
H569666	299	229	0.01	7	510	4	< 2	2	12	< 0.01	< 10	< 10	18	< 10	32
H569667	299	229	0.01	8	390	28	< 2	1	8	< 0.01	< 10	< 10	11	< 10	54
H569668	299	229	0.01	8	340	14	10	1	10	< 0.01	< 10	< 10	14	< 10	42
H569669	299	229	0.01	7	410	16	4	2	11	< 0.01	< 10	< 10	16	< 10	32
H569670	299	229	0.01	7	330	14	4	3	9	0.01	< 10	< 10	25	< 10	42
H569671	299	229	0.01	7	500	16	2	3	10	< 0.01	< 10	< 10	26	< 10	38
H569672	299	229	0.01	7	310	4	2	2	9	0.01	< 10	< 10	31	< 10	36
H569673	299	229	0.01	6	440	16	< 2	2	11	< 0.01	< 10	< 10	16	< 10	28
H569674	299	229	0.01	8	300	16	4	1	7	< 0.01	< 10	< 10	12	< 10	34
H569675	299	229	0.01	8	360	26	2	1	8	< 0.01	< 10	< 10	18	< 10	40
H569676	299	229	0.01	7	300	12	< 2	2	7	< 0.01	< 10	< 10	18	< 10	36
H569677	299	229	0.01	8	270	6	2	3	11	< 0.01	< 10	< 10	29	< 10	34
H569678	299	229	0.01	9	320	8	< 2	2	10	< 0.01	< 10	< 10	22	< 10	26

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Project : CASINO 183
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CERTIFICATE OF ANALYSIS A9319253

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H569679	299	229	1.6	0.72	8	60	< 0.5	< 2	0.24	< 0.5	38	55	2880	5.83	10	< 1	0.39	30	0.43	305	117
H569680	299	229	2.4	1.29	8	70	< 0.5	4	0.38	< 0.5	47	63	3390	5.92	10	< 1	0.65	30	0.49	325	182
H569681	299	229	3.2	0.51	30	30	< 0.5	2	0.39	< 0.5	21	53	2450	6.52	10	< 1	0.27	30	0.42	405	155
H569682	299	229	2.0	1.10	4	40	< 0.5	4	0.24	< 0.5	28	68	1855	5.33	10	< 1	0.49	50	0.34	255	91
H569683	299	229	2.2	1.15	10	20	< 0.5	< 2	0.18	< 0.5	31	87	2200	4.92	10	< 1	0.48	40	0.18	260	134
H569684	299	229	2.8	1.17	8	60	< 0.5	2	0.20	< 0.5	39	63	2100	5.10	10	< 1	0.46	30	0.27	490	48
H569685	299	229	1.2	0.72	6	60	< 0.5	< 2	0.32	< 0.5	35	49	1495	5.33	< 10	< 1	0.32	30	0.37	450	194
H569686	299	229	0.8	0.96	2	50	< 0.5	8	0.26	0.5	35	71	1485	7.01	< 10	< 1	0.54	20	0.43	315	133
H569687	299	229	1.8	0.66	14	30	< 0.5	< 2	0.31	< 0.5	48	37	911	5.74	< 10	< 1	0.32	20	0.23	230	91
H569688	299	229	1.6	1.44	4	70	0.5	< 2	0.24	< 0.5	42	39	844	3.59	< 10	< 1	0.37	20	0.17	240	79
H569689	299	229	3.6	0.52	26	10	< 0.5	8	0.48	0.5	60	38	2270	6.26	< 10	< 1	0.25	10	0.20	85	48
H569690	299	229	3.4	0.82	6	10	< 0.5	4	0.22	0.5	84	69	2630	8.49	< 10	< 1	0.40	10	0.14	45	76
H569691	299	229	3.0	0.47	2	20	< 0.5	< 2	0.18	< 0.5	44	49	2730	7.17	< 10	< 1	0.21	30	0.20	340	49
H569692	299	229	2.6	0.87	2	70	< 0.5	< 2	0.27	< 0.5	26	83	2390	7.32	10	< 1	0.59	30	0.51	185	101
H569693	299	229	2.8	0.82	4	70	< 0.5	< 2	0.22	< 0.5	38	62	2540	7.21	10	< 1	0.59	50	0.68	175	79
H569694	299	229	2.8	1.12	2	40	< 0.5	< 2	0.40	< 0.5	45	79	3240	5.86	10	< 1	0.68	40	0.49	160	82
H569695	299	229	3.8	0.58	12	20	< 0.5	6	0.56	< 0.5	53	58	3370	6.40	10	< 1	0.31	30	0.33	375	111
H569696	299	229	2.6	1.08	2	20	< 0.5	< 2	0.40	< 0.5	52	85	2260	6.27	< 10	< 1	0.63	30	0.27	75	91
H569697	299	229	2.2	0.67	36	20	< 0.5	16	0.55	< 0.5	43	54	1875	6.92	10	< 1	0.33	40	0.41	180	78
H569698	299	229	3.0	0.96	58	20	< 0.5	8	0.46	< 0.5	48	92	2120	6.25	< 10	< 1	0.55	20	0.26	140	69
H569699	299	229	1.6	0.80	2	30	< 0.5	2	0.49	< 0.5	53	47	1290	4.36	< 10	< 1	0.40	10	0.25	115	73
H569700	299	229	2.6	0.77	6	20	< 0.5	12	0.58	< 0.5	46	77	2160	5.37	< 10	< 1	0.43	20	0.31	140	67
H569701	299	229	1.6	0.47	2	30	< 0.5	< 2	0.41	< 0.5	42	52	2010	5.77	< 10	< 1	0.30	20	0.29	120	64
H569702	299	229	1.6	0.96	2	40	< 0.5	< 2	0.50	< 0.5	46	86	1735	5.32	< 10	< 1	0.57	20	0.42	170	87
H569703	299	229	1.2	0.90	2	40	< 0.5	2	0.30	< 0.5	48	71	1140	4.94	< 10	< 1	0.52	20	0.39	165	60
H569704	299	229	1.4	0.72	2	40	< 0.5	2	0.37	< 0.5	31	65	1500	5.01	< 10	< 1	0.41	10	0.35	140	91
H569705	299	229	1.6	0.68	2	40	< 0.5	2	0.38	< 0.5	41	47	1555	4.64	< 10	< 1	0.36	10	0.35	185	83
H569706	299	229	1.4	0.91	2	20	< 0.5	2	1.19	< 0.5	42	81	1180	5.47	10	< 1	0.38	10	0.48	145	398
H569707	299	229	1.0	1.03	2	40	< 0.5	2	0.50	< 0.5	59	98	1015	5.35	< 10	< 1	0.47	10	0.29	70	106
H569708	299	229	2.0	0.96	6	20	< 0.5	< 2	0.64	< 0.5	55	74	1850	5.99	< 10	< 1	0.54	20	0.53	145	74
H569709	299	229	1.6	1.23	2	30	< 0.5	4	0.40	< 0.5	46	133	1260	5.78	< 10	< 1	0.75	30	0.51	115	52
H569710	299	229	1.4	1.21	2	40	< 0.5	< 2	0.37	< 0.5	36	140	1315	4.75	< 10	< 1	0.81	30	0.69	130	60
H569711	299	229	3.6	1.15	12	10	< 0.5	6	0.82	< 0.5	76	179	2010	7.54	10	< 1	0.65	30	0.45	125	71
H569712	299	229	1.2	0.78	2	10	< 0.5	14	0.65	< 0.5	59	113	1265	6.58	< 10	< 1	0.43	20	0.35	90	36
H569713	299	229	1.4	1.05	2	30	< 0.5	8	0.43	< 0.5	35	109	1395	5.41	< 10	< 1	0.67	20	0.50	105	37
H569714	299	229	2.4	0.88	4	30	< 0.5	6	0.65	< 0.5	56	135	2360	5.89	< 10	< 1	0.52	20	0.38	75	71
H569715	299	229	2.0	1.28	16	20	< 0.5	6	0.91	< 0.5	87	127	1535	7.15	10	< 1	0.70	10	0.63	95	64
H569716	299	229	0.6	0.96	2	20	< 0.5	2	0.54	< 0.5	120	111	1030	7.22	< 10	< 1	0.61	10	0.49	50	32
H569717	299	229	1.2	1.39	2	30	< 0.5	2	0.39	< 0.5	86	105	1470	5.37	< 10	< 1	0.95	10	0.85	70	22
H569718	299	229	1.8	1.37	2	60	< 0.5	2	0.37	< 0.5	83	125	2300	4.66	< 10	< 1	0.90	20	0.75	80	57

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H569679	299	229	0.01	6	400	4	2	3	7	0.01	< 10	< 10	33	10	24
H569680	299	229	0.01	7	600	2	6	3	12	0.01	< 10	< 10	42	20	28
H569681	299	229	< 0.01	7	440	8	12	2	9	< 0.01	< 10	< 10	26	20	38
H569682	299	229	0.01	6	360	4	< 2	3	15	< 0.01	< 10	< 10	31	10	22
H569683	299	229	0.01	5	390	6	2	3	16	< 0.01	< 10	< 10	27	10	20
H569684	299	229	0.01	7	400	12	4	3	10	< 0.01	< 10	< 10	33	10	30
H569685	299	229	< 0.01	5	430	12	2	3	11	< 0.01	< 10	< 10	35	10	34
H569686	299	229	0.01	7	330	< 2	4	3	14	0.01	< 10	< 10	37	10	34
H569687	299	229	< 0.01	9	660	26	< 2	1	10	< 0.01	< 10	< 10	17	20	62
H569688	299	229	< 0.01	10	690	24	< 2	2	10	< 0.01	< 10	< 10	18	< 10	72
H569689	299	229	< 0.01	9	660	40	< 2	1	10	< 0.01	< 10	< 10	8	10	68
H569690	299	229	0.01	9	360	26	2	1	10	< 0.01	< 10	< 10	12	10	38
H569691	299	229	< 0.01	7	370	10	2	2	8	< 0.01	< 10	< 10	22	10	38
H569692	299	229	0.01	5	420	< 2	2	3	13	0.02	< 10	< 10	41	20	28
H569693	299	229	0.01	5	350	< 2	2	3	10	0.03	< 10	< 10	46	10	30
H569694	299	229	0.01	5	290	< 2	< 2	2	12	0.01	< 10	< 10	32	20	26
H569695	299	229	< 0.01	8	440	6	6	1	10	< 0.01	< 10	< 10	18	20	34
H569696	299	229	0.01	8	380	10	< 2	2	13	< 0.01	< 10	< 10	19	10	20
H569697	299	229	< 0.01	8	460	8	2	2	13	< 0.01	< 10	< 10	17	20	38
H569698	299	229	0.01	8	490	18	4	2	15	< 0.01	< 10	< 10	16	10	32
H569699	299	229	< 0.01	8	500	8	< 2	2	18	< 0.01	< 10	< 10	13	10	30
H569700	299	229	0.01	6	350	8	2	2	18	< 0.01	< 10	10	19	10	30
H569701	299	229	0.01	4	300	< 2	2	2	12	< 0.01	< 10	< 10	20	10	20
H569702	299	229	0.01	6	430	4	2	3	13	0.01	< 10	10	31	10	38
H569703	299	229	0.01	5	440	< 2	< 2	2	15	0.01	< 10	< 10	27	10	24
H569704	299	229	0.01	6	380	< 2	< 2	2	12	< 0.01	< 10	< 10	23	10	20
H569705	299	229	0.01	4	410	4	< 2	2	12	< 0.01	< 10	< 10	23	10	24
H569706	299	229	0.01	4	1450	< 2	4	3	29	< 0.01	< 10	< 10	27	20	22
H569707	299	229	0.01	4	650	< 2	2	2	22	< 0.01	< 10	< 10	23	20	16
H569708	299	229	0.01	6	490	14	< 2	3	13	0.01	< 10	< 10	29	20	32
H569709	299	229	0.02	6	310	12	< 2	3	12	0.02	< 10	< 10	32	20	22
H569710	299	229	0.02	5	300	4	< 2	4	13	0.03	< 10	< 10	40	10	26
H569711	299	229	0.02	7	410	26	< 2	3	14	< 0.01	< 10	< 10	24	20	28
H569712	299	229	0.01	7	370	4	< 2	3	12	< 0.01	< 10	< 10	22	10	18
H569713	299	229	0.02	4	320	< 2	< 2	3	15	0.02	< 10	< 10	32	10	20
H569714	299	229	0.01	6	300	6	< 2	2	14	< 0.01	< 10	< 10	19	10	22
H569715	299	229	0.02	5	390	24	2	3	18	< 0.01	< 10	< 10	25	20	48
H569716	299	229	0.01	7	330	4	< 2	2	13	0.01	< 10	< 10	23	10	14
H569717	299	229	0.02	4	320	< 2	< 2	3	11	0.04	< 10	< 10	40	10	20
H569718	299	229	0.02	6	360	< 2	< 2	3	10	0.04	< 10	< 10	38	10	16

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :6-A
Total Pages :6
Certificate Date: 25-AUG-93
Invoice No. :19319253
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319253

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H569719	299	229	1.2	1.73	< 2	50	< 0.5	2	0.36	< 0.5	56	149	1550	4.76	< 10	< 1	1.12	20	0.98	140	62
H569720	299	229	0.8	1.01	2	10	< 0.5	6	0.45	< 0.5	192	87	1455	6.86	< 10	< 1	0.65	10	0.68	165	34
H569721	299	229	0.6	1.52	< 2	10	< 0.5	2	0.30	< 0.5	89	147	1015	6.04	< 10	< 1	0.99	10	0.79	85	33
H569722	299	229	0.6	1.10	2	40	< 0.5	2	0.43	< 0.5	93	129	1020	6.10	< 10	< 1	0.69	20	0.52	95	58
H569723	299	229	0.8	1.33	14	50	< 0.5	4	0.67	< 0.5	56	199	1275	5.46	< 10	< 1	0.71	10	0.62	95	12
H569724	299	229	0.2	1.68	< 2	50	< 0.5	4	0.96	< 0.5	33	130	645	4.11	10	< 1	0.57	20	0.92	145	3
H569725	299	229	0.8	1.43	6	70	< 0.5	< 2	0.91	< 0.5	39	165	766	4.39	< 10	< 1	0.47	20	0.57	175	14
H569726	299	229	0.4	1.83	4	10	< 0.5	2	0.95	< 0.5	75	168	634	4.62	10	< 1	0.79	10	0.92	120	19
H569727	299	229	0.2	1.62	< 2	80	0.5	< 2	1.08	< 0.5	40	189	374	3.57	< 10	< 1	0.64	10	0.79	110	5
H569728	299	229	1.0	1.50	< 2	40	0.5	6	1.12	< 0.5	30	148	904	4.26	10	< 1	0.50	20	0.69	170	1
H569729	299	229	0.8	1.84	< 2	30	< 0.5	4	1.22	0.5	33	134	963	4.45	10	< 1	0.68	20	1.02	150	8
H569730	299	229	0.4	1.62	< 2	20	< 0.5	2	1.01	< 0.5	62	132	553	5.33	10	< 1	0.57	20	0.88	180	15
H569731	299	229	0.6	1.66	< 2	40	< 0.5	< 2	0.82	< 0.5	59	165	474	4.48	< 10	< 1	0.47	20	0.58	210	7
H569732	299	229	0.4	1.45	< 2	70	< 0.5	12	0.72	< 0.5	36	193	475	3.55	< 10	< 1	0.40	20	0.37	160	26

CERTIFICATION: Ian J. Bradley

Chemex Labs Ltd.

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 183
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :I9319253
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319253

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H569719	299	229	0.02	4	410	< 2	2	5	11	0.06	< 10	< 10	51	20	24
H569720	299	229	0.01	8	430	< 2	2	3	9	0.03	< 10	< 10	33	20	20
H569721	299	229	0.02	4	360	2	< 2	4	11	0.04	< 10	10	46	20	16
H569722	299	229	0.01	6	340	4	< 2	3	12	0.02	< 10	< 10	27	20	12
H569723	299	229	0.01	6	500	2	2	3	11	0.02	< 10	< 10	31	10	16
H569724	299	229	0.02	3	510	8	< 2	6	42	0.04	< 10	< 10	47	10	18
H569725	299	229	0.01	5	530	6	< 2	4	19	0.01	< 10	< 10	31	10	20
H569726	299	229	0.03	6	500	4	2	6	116	0.06	< 10	< 10	49	20	20
H569727	299	229	0.01	4	390	6	2	4	22	0.03	< 10	10	35	10	20
H569728	299	229	0.01	4	550	12	2	6	25	0.02	< 10	< 10	36	10	24
H569729	299	229	0.02	4	520	6	< 2	8	56	0.06	< 10	< 10	56	20	26
H569730	299	229	0.01	5	530	8	< 2	6	28	0.04	< 10	< 10	44	20	36
H569731	299	229	0.01	7	660	8	2	7	15	0.03	< 10	< 10	43	10	38
H569732	299	229	0.01	4	510	6	< 2	5	15	< 0.01	< 10	< 10	32	10	38

CERTIFICATION: Stewart Bradshaw

Chemex Labs Ltd.

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Y1A 3S9

Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :4
Certificate Date: 27-AUG-93
Invoice No. :I9319254
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319254

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566133	208	276	0.07	0.056	0.27	7640						
H566134	208	276	0.06	0.035	< 0.03	9280						
H566135	208	276	0.07	0.023	< 0.03	7940						
H566136	208	274	0.20	0.042	< 0.03	3860						
H566137	208	274	0.15	0.050	< 0.03	7200						
H566138	208	274	0.20	0.029	0.21	5980						
H566139	208	276	0.31	0.028	0.07	7620						
H566140	208	276	0.97	0.031	0.27	8980						
H566141	208	274	0.17	0.019	0.10	5520						
H566142	208	273	0.11	0.027	0.17	12060						
H566143	208	276	0.11	0.043	0.31	8840						
H566144	208	276	0.13	0.020	0.21	9860						
H566145	208	276	0.10	0.016	0.17	9680						
H566146	208	274	0.25	0.042	0.27	6740						
H566147	208	276	0.18	0.078	0.69	8300						
H566148	208	276	0.20	0.115	0.89	10440						
H566149	208	276	0.35	0.038	0.48	10660						
H566150	208	276	0.19	0.032	0.27	11120						
H566151	208	276	0.18	0.063	0.27	10100						
H566152	208	276	0.24	0.117	0.99	11140						
H566153	208	276	0.36	0.172	1.27	10340						
H566154	208	276	0.37	0.093	0.69	11450						
H566155	208	276	0.17	0.102	0.48	10650						
H566156	208	276	0.11	0.097	0.89	10220						
H566157	208	276	0.19	0.043	0.14	10240						
H566158	208	276	0.68	0.099	0.72	10200						
H566159	208	276	0.42	0.034	0.34	9480						
H566160	208	274	1.00	0.049	0.75	5340						
H566161	208	274	0.58	0.050	0.51	3740						
H566162	208	274	0.43	0.050	0.31	6200						
H566163	208	274	0.50	0.046	0.45	7200						
H566164	208	274	1.07	0.084	0.86	6400						
H566165	208	274	0.90	0.067	0.96	6000						
H566166	208	276	0.50	0.039	0.45	11000						
H566167	208	274	0.73	0.039	0.62	6120						
H566168	208	276	0.41	0.070	0.38	9900						
H566169	208	276	0.41	0.040	0.51	8560						
H566170	208	276	0.18	0.113	0.21	9960						
H566171	208	274	0.21	0.029	0.17	4800						
H566172	208	274	0.25	0.143	0.38	6120						

CERTIFICATION: _____

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-AUG-93
Invoice No. : I9319254
P.O. Number :
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CERTIFICATE OF ANALYSIS A9319254

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566173	208	276	0.26	0.093	0.48	11640						
H566174	208	274	0.35	0.195	0.45	6740						
H566175	208	274	0.28	0.149	0.41	3940						
H566176	208	274	0.23	0.023	0.34	7020						
H566177	208	274	0.23	0.022	0.34	3740						
H566178	208	276	0.30	0.026	0.38	11380						
H566179	208	276	0.27	0.047	0.38	9200						
H566180	208	274	0.38	0.038	0.51	7000						
H566181	208	274	0.22	0.049	0.34	2960						
H566182	208	274	0.30	0.051	0.45	4400						
H566183	208	274	0.31	0.055	0.55	6520						
H566184	208	274	0.34	0.049	0.45	6700						
H566185	208	276	0.22	0.083	0.41	8220						
H566186	208	276	0.27	0.094	0.51	9520						
H566187	208	274	0.21	0.061	0.27	6300						
H566188	208	276	0.17	0.042	0.27	8380						
H566189	208	274	0.21	0.097	0.34	6520						
H566190	208	276	0.18	0.051	0.27	10140						
H566191	208	276	0.12	0.092	0.21	11400						
H566192	208	274	0.10	0.081	0.24	6400						
H566193	208	274	0.13	0.129	0.27	6380						
H566194	208	276	0.19	0.050	0.41	7940						
H566195	208	276	0.20	0.088	0.45	11620						
H566196	208	274	0.18	0.046	0.62	7000						
H566197	208	273	0.28	0.166	0.48	13580						
H566198	208	273	0.26	0.108	0.58	13320						
H566199	208	273	0.10	0.054	0.21	13300						
H566200	208	273	0.06	0.009	0.14	13140						
H566201	208	273	0.11	0.009	0.14	12420						
H566202	208	273	0.05	0.005	0.07	14000						
H566203	208	273	0.08	0.012	0.10	11860						
H566204	208	273	0.07	0.010	0.14	15480						
H566205	208	273	0.07	0.016	0.10	12700						
H566206	208	273	0.13	0.055	0.27	13020						
H566207	208	273	0.15	0.060	0.21	13120						
H566208	208	273	0.11	0.094	0.17	13100						
H566209	208	273	0.11	0.093	0.27	12980						
H566210	208	273	0.11	0.166	0.21	12960						
H566211	208	273	0.22	0.070	0.48	11860						
H566212	208	273	0.20	0.095	0.45	12940						

CERTIFICATION: _____

Chemex Labs Ltd.

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WHITEHORSE, YT
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Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-AUG-93
Invoice No. : I9319254
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319254

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H566213	208	273	0.23	0.119	0.45	13560
H566214	208	273	0.34	0.078	0.51	13240
H566215	208	273	0.24	0.035	0.41	13060
H566216	208	273	0.27	0.066	0.34	12860
H566217	208	273	0.16	0.100	0.34	13360
H566218	208	273	0.17	0.083	0.41	13700
H566219	208	273	0.09	0.163	0.17	13500
H566220	208	273	0.09	0.120	0.24	13800
H566221	208	273	0.13	0.081	0.21	13240
H566222	208	273	0.12	0.052	0.27	13460
H566223	208	273	0.08	0.063	0.21	13360
H566224	208	273	0.11	0.086	0.24	12620
H566225	208	273	0.11	0.062	0.21	12360
H566226	208	273	0.16	0.050	0.27	13180
H566227	208	273	0.22	0.059	0.34	13040
H566228	208	273	0.13	0.048	0.17	14180
H566229	208	273	0.13	0.081	0.27	12620
H566230	208	273	0.11	0.111	0.24	13500
H566231	208	273	0.11	0.042	0.24	13520
H566232	208	273	0.14	0.137	0.24	12350
H566233	208	273	0.10	0.092	0.21	13560
H566234	208	273	0.12	0.084	0.21	13100
H566235	208	273	0.11	0.052	0.17	12940
H566236	208	276	0.11	0.133	0.24	11760
H566237	208	273	0.17	0.072	0.24	13100
H566238	208	273	0.11	0.075	0.21	13300
H566239	208	273	0.14	0.030	0.27	12960
H566240	208	273	0.14	0.073	0.31	12080
H566241	208	276	0.12	0.076	0.27	10890
H566242	208	276	0.09	0.136	0.14	10560
H566243	208	273	0.10	0.093	0.21	15680
H566244	208	274	0.10	0.106	0.24	6240
H566245	208	274	0.07	0.089	0.21	6540
H566246	208	276	0.10	0.111	0.17	7320
H566247	208	276	0.10	0.173	0.24	7480
H566248	208	274	0.08	0.202	0.21	7020
H566249	208	274	0.13	0.081	0.21	7040
H566250	208	276	0.11	0.094	0.17	7640
H566251	208	274	0.12	0.103	0.27	7080
H566252	208	276	0.19	0.055	0.27	7420

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Certificate Date: 27-AUG-93
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Account :FC

CERTIFICATE OF ANALYSIS A9319254

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566253	208	276	0.08	0.085	0.17	7380						
H566254	208	276	0.10	0.087	0.17	7760						
H566255	208	276	0.11	0.060	0.34	7660						
H566256	208	276	0.06	0.163	0.07	7420						
H566257	208	274	0.09	0.120	0.17	7040						
H566258	208	274	0.08	0.071	0.24	7100						
H566259	208	276	0.11	0.036	0.21	8080						
H566260	208	274	0.03	0.028	0.07	7260						
H566261	208	274	0.08	0.046	0.21	7240						
H566262	208	276	0.08	0.049	0.14	7880						
H566263	208	276	0.09	0.107	0.17	7540						
H566264	208	276	0.07	0.100	0.14	7800						
H566265	208	274	0.05	0.116	0.07	6900						
H566266	208	276	0.08	0.086	0.21	7460						
H566267	208	274	0.13	0.066	0.21	7120						
H566268	208	274	0.13	0.120	0.34	6900						
H566269	208	274	0.09	0.057	0.17	7080						
H566270	208	274	0.06	0.022	0.10	7220						
H566271	208	276	0.07	0.090	0.14	7500						
H566272	208	276	0.05	0.112	0.10	7420						
H566273	208	274	0.07	0.041	0.14	7240						
H566274	208	276	0.07	0.038	0.14	7460						
H566275	208	276	0.06	0.061	0.07	7420						
H566276	208	276	0.06	0.046	0.07	7740						
H566277	208	276	0.07	0.033	0.14	7640						
H566278	208	274	0.08	0.028	0.10	7140						
H566279	208	274	0.06	0.019	0.07	7240						
H566280	208	274	0.06	0.043	0.07	7160						
H566281	208	276	0.08	0.032	0.10	7340						
H566282	208	276	0.04	0.024	0.07	7580						

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :4
Certificate Date: 26-AUG-93
Invoice No. :I9319255
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319255

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566133	299	229	1.6	0.94	2	210	< 0.5	4	0.10	< 0.5	4	154	712	1.65	< 10	< 1	0.38	30	0.25	50	354
H566134	299	229	2.0	0.66	16	190	< 0.5	2	0.04	< 0.5	3	160	615	1.58	10	< 1	0.34	50	0.09	35	217
H566135	299	229	1.6	1.91	8	440	0.5	4	0.19	< 0.5	8	99	813	3.63	10	< 1	0.63	30	1.12	135	145
H566136	299	229	2.4	2.55	2	410	1.0	8	0.28	< 0.5	9	87	2060	3.93	10	< 1	0.52	40	1.23	200	243
H566137	299	229	4.2	2.23	16	530	1.0	4	0.28	< 0.5	8	86	1565	3.58	10	< 1	0.51	20	1.22	165	290
H566138	299	229	2.2	2.67	28	320	0.5	4	0.37	0.5	12	92	2090	4.19	10	< 1	0.53	30	1.27	200	173
H566139	299	229	0.8	2.09	< 2	980	0.5	4	0.34	1.0	23	99	3170	3.57	10	< 1	0.82	30	1.40	310	162
H566140	299	229	0.8	2.77	14	370	1.0	< 2	0.49	1.5	15	94	9840	3.34	20	< 1	0.77	70	1.30	160	180
H566141	299	229	0.6	2.89	20	550	0.5	< 2	0.33	0.5	14	104	1700	4.20	10	< 1	0.83	20	1.22	145	107
H566142	299	229	1.0	2.79	28	420	0.5	4	0.33	0.5	11	80	1240	3.42	10	< 1	0.71	30	1.03	125	165
H566143	299	229	1.2	2.11	18	210	0.5	6	0.19	0.5	12	91	1165	3.28	10	< 1	0.46	40	0.49	90	256
H566144	299	229	1.2	2.14	36	270	0.5	< 2	0.18	0.5	10	59	1385	3.80	10	< 1	0.44	30	0.46	80	123
H566145	299	229	1.2	1.75	34	450	0.5	< 2	0.18	0.5	8	67	1040	3.03	10	< 1	0.44	30	0.49	75	94
H566146	299	229	1.6	2.77	36	1390	1.0	4	0.32	1.0	13	45	2540	6.86	10	< 1	0.74	40	1.01	125	233
H566147	299	229	2.4	1.37	36	160	0.5	< 2	0.12	< 0.5	6	65	1800	3.21	10	< 1	0.35	30	0.28	45	472
H566148	299	229	3.2	1.54	18	200	0.5	< 2	0.06	< 0.5	6	82	1905	3.05	10	< 1	0.53	50	0.41	40	686
H566149	299	229	2.2	0.97	18	220	< 0.5	< 2	0.05	< 0.5	7	126	3720	1.39	< 10	< 1	0.33	40	0.23	30	240
H566150	299	229	2.0	0.93	16	760	< 0.5	2	0.03	< 0.5	4	161	1860	1.29	< 10	< 1	0.34	30	0.20	30	203
H566151	299	229	1.6	0.95	20	510	< 0.5	4	0.02	< 0.5	4	217	1805	1.28	< 10	< 1	0.35	60	0.10	20	369
H566152	299	229	3.4	1.43	14	180	0.5	2	0.04	< 0.5	6	149	2670	2.40	10	< 1	0.64	80	0.50	45	749
H566153	299	229	3.2	1.06	12	390	< 0.5	< 2	0.04	< 0.5	4	131	3820	2.03	< 10	< 1	0.45	40	0.32	40	1105
H566154	299	229	3.4	0.91	18	210	< 0.5	< 2	0.02	< 0.5	6	114	4060	1.95	< 10	< 1	0.47	40	0.31	55	573
H566155	299	229	4.2	0.51	8	170	0.5	14	0.02	< 0.5	2	134	1750	3.69	< 10	< 1	0.25	40	0.04	15	651
H566156	299	229	3.2	2.46	4	440	0.5	2	0.17	< 0.5	7	91	1125	3.33	10	< 1	0.99	40	1.23	105	583
H566157	299	229	1.0	1.45	10	320	0.5	8	0.14	< 0.5	7	54	2020	3.33	10	< 1	0.61	40	1.00	105	252
H566158	299	229	2.2	1.11	< 2	210	< 0.5	< 2	0.07	0.5	7	141	7070	1.78	10	< 1	0.54	60	0.52	60	627
H566159	299	229	1.0	2.77	< 2	500	< 0.5	6	0.32	0.5	15	32	4360	4.38	10	< 1	1.25	40	1.91	155	207
H566160	299	229	2.6	3.67	< 2	220	1.0	< 2	0.28	1.0	15	59	9710	3.27	10	< 1	1.78	60	2.37	165	278
H566161	299	229	1.4	2.55	< 2	370	0.5	< 2	0.26	0.5	11	31	5900	3.02	10	< 1	1.02	30	1.77	135	310
H566162	299	229	1.4	2.15	6	330	0.5	2	0.26	< 0.5	15	69	4490	2.87	10	< 1	0.98	30	1.49	120	295
H566163	299	229	1.6	1.51	< 2	140	< 0.5	< 2	0.12	1.0	13	118	5260	2.62	< 10	< 1	0.78	20	1.00	90	289
H566164	299	229	3.2	1.99	12	210	0.5	14	0.21	0.5	14	56	>10000	4.40	10	< 1	1.08	30	1.40	120	490
H566165	299	229	2.8	1.73	< 2	210	0.5	< 2	0.19	1.0	19	98	9070	3.51	10	< 1	0.79	30	1.33	115	411
H566166	299	229	1.2	3.12	< 2	550	0.5	< 2	0.38	1.0	14	59	4740	4.29	10	< 1	1.36	30	2.11	175	226
H566167	299	229	2.4	2.43	< 2	310	0.5	2	0.38	1.5	14	66	7280	3.96	10	< 1	1.03	40	1.65	150	226
H566168	299	229	1.8	2.30	< 2	390	0.5	8	0.40	9.5	14	74	4340	3.53	10	< 1	0.94	50	1.61	205	440
H566169	299	229	2.2	1.64	< 2	170	0.5	< 2	0.23	19.5	18	66	4100	3.84	10	< 1	0.63	60	1.09	445	233
H566170	299	229	1.2	1.65	< 2	220	0.5	< 2	0.21	9.5	16	84	1815	2.72	10	< 1	0.50	30	0.89	610	686
H566171	299	229	1.2	1.70	2	240	0.5	< 2	0.21	11.5	24	126	2120	2.56	10	< 1	0.49	30	0.90	735	191
H566172	299	229	1.6	1.60	< 2	260	0.5	2	0.20	5.0	23	109	2490	2.44	10	< 1	0.47	30	0.84	570	916

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. :I9319255
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319255

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566133	299	229	0.02	6	300	8	4	3	16	0.01	< 10	< 10	23	< 10	66
H566134	299	229	0.02	4	150	12	4	1	13	< 0.01	< 10	< 10	8	< 10	66
H566135	299	229	0.04	15	700	6	2	6	27	0.09	< 10	< 10	60	10	68
H566136	299	229	0.02	13	760	18	6	5	50	0.03	< 10	< 10	52	10	108
H566137	299	229	0.02	14	830	20	6	4	27	0.04	< 10	< 10	49	10	96
H566138	299	229	0.02	18	880	24	6	6	15	0.04	< 10	< 10	56	10	140
H566139	299	229	0.03	20	860	12	4	8	30	0.12	< 10	< 10	69	10	116
H566140	299	229	0.02	22	880	8	6	8	14	0.07	< 10	< 10	64	10	120
H566141	299	229	0.02	20	810	10	4	8	19	0.11	< 10	< 10	69	10	144
H566142	299	229	0.02	16	930	12	8	8	24	0.09	< 10	< 10	64	10	118
H566143	299	229	0.01	12	920	14	10	8	12	0.04	< 10	< 10	57	10	152
H566144	299	229	0.01	14	1010	4	12	8	14	0.04	< 10	< 10	54	10	154
H566145	299	229	0.01	9	890	12	18	7	18	0.04	< 10	10	48	10	86
H566146	299	229	0.01	9	1360	14	50	12	49	0.08	< 10	< 10	131	20	136
H566147	299	229	0.01	4	1000	14	14	11	10	0.02	< 10	< 10	81	10	78
H566148	299	229	0.01	5	870	10	14	10	13	0.04	< 10	< 10	71	< 10	72
H566149	299	229	0.01	4	220	8	6	2	8	< 0.01	< 10	< 10	18	< 10	38
H566150	299	229	0.02	6	180	6	< 2	2	21	< 0.01	< 10	10	15	< 10	36
H566151	299	229	0.02	6	150	8	4	1	18	< 0.01	< 10	< 10	10	< 10	34
H566152	299	229	0.01	6	440	14	6	7	10	0.05	< 10	< 10	55	10	52
H566153	299	229	0.02	4	330	10	8	4	13	0.02	< 10	< 10	35	< 10	52
H566154	299	229	0.01	4	260	14	4	4	11	0.01	< 10	< 10	29	< 10	50
H566155	299	229	0.01	3	150	22	8	1	9	< 0.01	< 10	< 10	7	< 10	48
H566156	299	229	0.06	4	880	8	6	12	13	0.15	< 10	< 10	99	10	54
H566157	299	229	0.02	11	750	2	6	6	10	0.09	< 10	< 10	61	10	72
H566158	299	229	0.05	7	290	6	4	4	16	0.03	< 10	< 10	33	< 10	30
H566159	299	229	0.04	8	1280	8	2	16	11	0.22	< 10	10	147	10	50
H566160	299	229	0.05	12	1160	6	4	16	14	0.15	< 10	< 10	126	10	62
H566161	299	229	0.04	10	1040	6	2	13	12	0.16	< 10	< 10	116	10	50
H566162	299	229	0.06	7	810	6	4	12	16	0.16	< 10	< 10	101	10	46
H566163	299	229	0.06	6	440	4	< 2	9	13	0.11	< 10	< 10	85	< 10	48
H566164	299	229	0.05	10	870	6	2	13	12	0.16	< 10	< 10	133	10	54
H566165	299	229	0.06	13	690	2	2	9	18	0.11	< 10	< 10	101	10	48
H566166	299	229	0.07	13	1160	10	2	19	18	0.28	< 10	< 10	172	10	78
H566167	299	229	0.08	13	1170	8	< 2	13	17	0.19	< 10	< 10	118	< 10	92
H566168	299	229	0.08	12	1170	8	2	13	19	0.21	< 10	< 10	107	10	102
H566169	299	229	0.04	10	740	6	2	8	11	0.07	< 10	< 10	76	< 10	174
H566170	299	229	0.03	8	590	2	6	4	14	0.01	< 10	< 10	40	10	172
H566171	299	229	0.04	10	550	10	2	3	16	< 0.01	< 10	< 10	37	< 10	228
H566172	299	229	0.04	9	450	14	4	3	12	< 0.01	< 10	< 10	35	10	192

CERTIFICATION: Jhai D'Mo

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9319255

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566173	299	229	1.2	2.17	< 2	250	< 0.5	< 2	0.30	7.0	19	79	2690	4.18	10	< 1	1.07	30	1.49	395	531
H566174	299	229	1.8	1.69	< 2	170	< 0.5	< 2	0.18	9.5	15	99	3780	2.50	10	< 1	0.75	30	1.00	225	1035
H566175	299	229	1.4	1.46	< 2	170	< 0.5	< 2	0.21	4.0	13	124	2840	1.99	10	< 1	0.62	40	0.94	275	817
H566176	299	229	1.2	1.46	< 2	130	< 0.5	< 2	0.23	4.0	15	108	2550	2.53	10	< 1	0.60	20	1.04	410	136
H566177	299	229	0.8	1.49	< 2	200	< 0.5	< 2	0.22	5.0	17	94	2420	3.15	10	< 1	0.62	20	1.06	490	120
H566178	299	229	1.2	1.82	< 2	240	< 0.5	< 2	0.24	3.5	14	89	3060	3.06	20	< 1	0.83	30	1.43	240	132
H566179	299	229	1.2	1.76	< 2	220	< 0.5	< 2	0.23	6.0	12	106	2810	2.65	20	< 1	0.86	30	1.42	130	284
H566180	299	229	2.0	1.31	< 2	100	< 0.5	< 2	0.31	0.5	14	67	4180	2.43	10	< 1	0.64	30	1.13	175	230
H566181	299	229	1.2	1.38	< 2	170	< 0.5	< 2	0.24	< 0.5	10	84	2260	2.03	20	< 1	0.88	30	1.16	205	279
H566182	299	229	1.4	1.74	< 2	240	< 0.5	< 2	0.35	0.5	15	108	3280	3.09	20	< 1	0.98	30	1.31	350	311
H566183	299	229	2.2	1.97	< 2	230	< 0.5	< 2	0.29	< 0.5	15	113	3480	3.26	20	< 1	1.04	20	1.48	270	327
H566184	299	229	1.8	1.59	4	210	< 0.5	< 2	0.57	< 0.5	14	87	3810	3.10	20	< 1	0.89	30	1.29	250	292
H566185	299	229	2.4	0.83	60	180	< 0.5	< 2	0.76	0.5	11	101	2270	1.99	10	< 1	0.51	40	0.70	540	516
H566186	299	229	2.4	0.97	10	90	< 0.5	2	0.85	0.5	14	72	3060	2.98	10	< 1	0.54	30	0.76	335	595
H566187	299	229	2.0	1.08	6	40	< 0.5	< 2	0.58	0.5	8	123	2280	3.86	10	< 1	0.66	40	0.78	190	354
H566188	299	229	1.4	0.77	< 2	60	< 0.5	2	1.07	0.5	10	75	1790	2.80	10	< 1	0.40	20	0.80	180	237
H566189	299	229	1.8	0.96	4	50	< 0.5	6	0.98	0.5	15	123	2280	2.85	10	< 1	0.57	30	0.78	170	558
H566190	299	229	1.2	1.34	< 2	140	< 0.5	< 2	1.30	< 0.5	11	79	1860	2.85	10	< 1	0.56	20	1.03	270	290
H566191	299	229	1.2	0.74	2	90	< 0.5	< 2	0.67	< 0.5	6	138	1300	2.26	10	< 1	0.42	40	0.39	130	530
H566192	299	229	1.2	1.60	< 2	70	< 0.5	< 2	1.02	0.5	15	105	1050	3.72	20	< 1	0.77	30	0.94	370	469
H566193	299	229	0.8	1.47	2	80	< 0.5	2	1.48	< 0.5	12	137	1325	3.55	10	< 1	0.67	30	0.95	240	699
H566194	299	229	1.6	1.93	< 2	290	< 0.5	< 2	1.35	< 0.5	11	121	2000	2.70	20	< 1	0.61	30	1.00	180	279
H566195	299	229	1.8	1.70	4	190	< 0.5	2	2.26	0.5	11	121	2100	3.08	10	< 1	0.71	20	1.00	180	498
H566196	299	229	0.8	2.34	4	370	< 0.5	< 2	0.87	< 0.5	11	105	1875	3.27	20	< 1	1.30	20	1.79	150	267
H566197	299	229	1.6	0.88	12	120	< 0.5	2	2.04	< 0.5	9	117	2920	1.83	10	< 1	0.45	20	0.72	85	884
H566198	299	229	1.6	1.20	8	130	< 0.5	2	1.85	< 0.5	8	117	2810	2.17	10	< 1	0.56	20	0.89	110	610
H566199	299	229	0.4	1.17	< 2	100	< 0.5	< 2	2.47	< 0.5	8	122	1010	2.01	10	< 1	0.54	10	0.91	75	328
H566200	299	229	< 0.2	1.76	2	220	< 0.5	< 2	1.66	< 0.5	8	126	656	3.53	20	< 1	0.57	10	1.36	95	42
H566201	299	229	1.0	1.59	2	230	< 0.5	< 2	2.12	1.0	7	136	1110	3.10	10	< 1	0.59	< 10	1.30	225	39
H566202	299	229	< 0.2	1.46	< 2	300	< 0.5	< 2	2.05	< 0.5	8	107	487	3.27	10	< 1	0.59	< 10	1.27	190	19
H566203	299	229	< 0.2	1.97	2	330	< 0.5	< 2	1.70	< 0.5	8	147	839	3.47	20	< 1	0.75	< 10	1.40	120	56
H566204	299	229	0.2	1.68	2	290	< 0.5	< 2	1.63	< 0.5	7	116	705	3.36	10	< 1	0.65	< 10	1.30	120	42
H566205	299	229	0.2	1.58	< 2	300	< 0.5	< 2	1.65	< 0.5	7	114	713	3.52	10	< 1	0.63	< 10	1.28	150	77
H566206	299	229	0.4	1.24	4	110	< 0.5	< 2	2.24	< 0.5	6	101	1355	2.45	10	< 1	0.65	< 10	1.09	95	287
H566207	299	229	1.2	0.56	2	100	< 0.5	4	2.19	< 0.5	3	186	1580	1.05	10	< 1	0.30	10	0.41	55	332
H566208	299	229	0.8	0.58	8	30	< 0.5	2	2.75	< 0.5	4	63	1140	2.00	10	< 1	0.36	< 10	0.59	70	512
H566209	299	229	0.4	2.00	< 2	120	< 0.5	< 2	3.42	< 0.5	7	77	1105	3.02	10	< 1	0.99	< 10	1.48	125	520
H566210	299	229	1.2	1.10	4	40	< 0.5	< 2	4.36	< 0.5	5	110	1285	1.87	10	< 1	0.57	< 10	0.80	90	1015
H566211	299	229	1.6	0.92	2	90	< 0.5	2	2.54	< 0.5	6	118	2400	1.51	10	< 1	0.50	10	0.73	85	423
H566212	299	229	1.2	1.30	< 2	60	< 0.5	< 2	2.62	< 0.5	8	151	2100	2.12	20	< 1	0.84	10	1.12	110	525

CERTIFICATION: John D'Mar

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566173	299	229	0.04	7	980	< 2	4	11	12	0.10	< 10	< 10	86	< 10	136
H566174	299	229	0.04	8	650	4	8	6	11	0.04	< 10	< 10	34	< 10	104
H566175	299	229	0.07	8	620	4	4	7	13	0.05	< 10	< 10	37	< 10	96
H566176	299	229	0.08	6	430	4	< 2	10	14	0.07	< 10	< 10	59	< 10	116
H566177	299	229	0.06	7	460	2	2	9	13	0.06	< 10	< 10	61	< 10	134
H566178	299	229	0.07	7	580	< 2	2	12	14	0.11	< 10	< 10	88	< 10	74
H566179	299	229	0.06	6	550	< 2	2	12	13	0.11	< 10	< 10	82	< 10	50
H566180	299	229	0.03	7	500	< 2	< 2	8	12	0.06	< 10	< 10	55	< 10	66
H566181	299	229	0.06	6	500	4	< 2	12	15	0.11	< 10	< 10	74	< 10	66
H566182	299	229	0.07	7	580	2	< 2	13	19	0.12	< 10	< 10	87	< 10	98
H566183	299	229	0.07	9	650	< 2	2	13	20	0.14	< 10	< 10	97	< 10	78
H566184	299	229	0.06	7	590	< 2	4	11	24	0.11	< 10	< 10	76	< 10	68
H566185	299	229	0.03	6	400	4	30	6	27	0.03	< 10	< 10	29	< 10	78
H566186	299	229	0.02	6	740	< 2	6	6	21	0.02	< 10	< 10	30	< 10	86
H566187	299	229	0.01	6	450	2	2	4	19	0.01	< 10	< 10	23	< 10	58
H566188	299	229	0.03	4	560	2	< 2	3	28	< 0.01	< 10	< 10	22	< 10	48
H566189	299	229	0.04	4	580	4	4	4	32	0.02	< 10	< 10	24	< 10	50
H566190	299	229	0.04	4	750	< 2	2	7	31	0.03	< 10	< 10	49	< 10	68
H566191	299	229	0.03	3	410	4	4	2	25	< 0.01	< 10	< 10	8	< 10	44
H566192	299	229	0.03	5	780	< 2	4	7	26	0.06	< 10	< 10	52	< 10	106
H566193	299	229	0.02	6	740	< 2	4	7	30	0.03	< 10	< 10	51	< 10	56
H566194	299	229	0.03	7	470	< 2	2	10	33	0.05	< 10	< 10	70	< 10	42
H566195	299	229	0.03	6	810	2	6	8	38	0.05	< 10	< 10	65	< 10	44
H566196	299	229	0.07	8	810	< 2	2	17	29	0.20	< 10	< 10	121	< 10	36
H566197	299	229	0.03	5	380	< 2	8	4	90	0.01	< 10	< 10	19	< 10	20
H566198	299	229	0.04	4	490	2	6	8	132	0.04	< 10	< 10	45	< 10	22
H566199	299	229	0.04	6	480	< 2	4	6	224	0.06	< 10	< 10	45	< 10	18
H566200	299	229	0.07	14	780	< 2	2	7	192	0.08	< 10	< 10	59	< 10	22
H566201	299	229	0.07	15	800	12	< 2	6	341	0.07	< 10	< 10	52	< 10	60
H566202	299	229	0.05	14	770	< 2	< 2	6	186	0.08	< 10	< 10	53	< 10	28
H566203	299	229	0.08	15	820	< 2	< 2	8	207	0.11	< 10	< 10	62	< 10	26
H566204	299	229	0.06	14	770	< 2	2	7	215	0.10	< 10	< 10	58	< 10	24
H566205	299	229	0.06	13	750	< 2	< 2	6	288	0.10	< 10	< 10	56	< 10	28
H566206	299	229	0.04	9	500	2	4	7	171	0.09	< 10	< 10	49	< 10	22
H566207	299	229	0.04	4	210	4	4	2	125	< 0.01	< 10	< 10	11	< 10	14
H566208	299	229	0.02	3	370	2	4	4	167	0.03	< 10	< 10	18	< 10	16
H566209	299	229	0.04	5	830	< 2	4	13	139	0.16	< 10	< 10	87	< 10	26
H566210	299	229	0.03	5	490	2	10	7	275	0.07	< 10	< 10	38	< 10	20
H566211	299	229	0.06	4	390	2	4	7	179	0.05	< 10	< 10	42	< 10	18
H566212	299	229	0.06	6	540	< 2	4	11	151	0.12	< 10	< 10	71	< 10	24

CERTIFICATION: Jhai D Ma

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. :I9319255
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319255

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566213	299	229	1.2	2.02	< 2	150	< 0.5	2	3.20	< 0.5	12	80	2360	3.23	10	< 1	1.32	20	1.84	145	684
H566214	299	229	1.4	2.04	< 2	100	< 0.5	< 2	2.60	< 0.5	12	70	3410	4.02	10	< 1	1.25	10	1.77	140	463
H566215	299	229	0.8	2.36	< 2	180	< 0.5	2	2.09	< 0.5	14	100	2410	3.74	10	< 1	1.33	10	1.91	140	198
H566216	299	229	2.6	1.71	2	240	< 0.5	< 2	2.57	< 0.5	11	97	2780	3.70	10	< 1	0.94	20	1.40	180	385
H566217	299	229	1.4	1.55	< 2	170	< 0.5	< 2	2.99	< 0.5	10	107	1700	3.04	10	< 1	0.91	20	1.34	115	637
H566218	299	229	1.2	1.54	< 2	190	< 0.5	4	3.10	< 0.5	9	88	1720	2.67	10	< 1	0.95	10	1.41	110	492
H566219	299	229	1.0	0.77	2	180	< 0.5	< 2	2.61	< 0.5	5	123	898	1.44	10	< 1	0.40	30	0.55	75	959
H566220	299	229	1.0	1.12	6	150	< 0.5	< 2	3.37	< 0.5	6	117	900	1.68	10	< 1	0.64	20	0.97	90	677
H566221	299	229	0.6	2.14	< 2	290	< 0.5	< 2	2.28	< 0.5	12	122	1370	3.30	10	< 1	1.21	20	1.70	140	509
H566222	299	229	0.8	2.80	< 2	530	< 0.5	< 2	1.97	< 0.5	15	89	1320	4.40	10	< 1	1.39	20	2.07	155	322
H566223	299	229	0.4	2.20	< 2	370	< 0.5	< 2	1.98	< 0.5	9	91	871	2.98	10	< 1	0.79	30	1.34	115	385
H566224	299	229	0.8	1.36	< 2	130	< 0.5	< 2	2.48	< 0.5	15	89	1205	4.12	< 10	< 1	0.63	20	0.84	120	512
H566225	299	229	0.6	2.76	14	560	< 0.5	< 2	2.07	< 0.5	11	60	1025	3.56	10	< 1	1.38	20	1.91	145	348
H566226	299	229	0.6	1.86	4	350	< 0.5	< 2	1.64	< 0.5	9	100	1585	2.69	10	< 1	0.92	20	1.31	105	324
H566227	299	229	1.0	2.87	< 2	400	< 0.5	8	1.83	< 0.5	15	52	2270	4.13	10	< 1	1.50	10	2.20	180	398
H566228	299	229	0.8	3.20	12	190	< 0.5	4	2.43	< 0.5	16	66	1245	4.53	10	< 1	1.43	10	2.16	205	284
H566229	299	229	0.8	1.36	< 2	220	< 0.5	< 2	1.63	< 0.5	7	119	1370	1.74	10	< 1	0.48	30	0.75	85	507
H566230	299	229	1.0	1.60	4	230	< 0.5	4	2.59	< 0.5	9	92	1210	2.29	10	< 1	0.65	30	0.90	110	699
H566231	299	229	0.8	2.03	< 2	330	< 0.5	< 2	2.02	< 0.5	12	46	1095	3.93	10	< 1	1.07	30	1.53	150	264
H566232	299	229	1.4	1.42	2	130	< 0.5	4	2.09	< 0.5	7	104	1420	2.36	10	< 1	0.63	30	0.76	100	849
H566233	299	229	1.2	1.17	12	170	< 0.5	4	2.11	< 0.5	8	106	1010	2.30	< 10	< 1	0.38	20	0.44	85	573
H566234	299	229	1.2	1.23	10	320	< 0.5	< 2	2.03	< 0.5	7	74	1210	1.93	10	< 1	0.40	30	0.71	105	553
H566235	299	229	1.4	0.80	< 2	210	< 0.5	< 2	1.58	< 0.5	4	147	1190	1.07	10	< 1	0.24	20	0.28	75	339
H566236	299	229	1.4	0.87	2	90	< 0.5	< 2	1.73	< 0.5	3	157	1115	1.00	10	< 1	0.26	40	0.37	70	852
H566237	299	229	1.6	2.05	2	330	< 0.5	< 2	2.41	< 0.5	12	114	1705	3.17	10	< 1	0.74	30	1.20	130	421
H566238	299	229	1.0	1.67	< 2	240	< 0.5	4	2.38	< 0.5	10	102	1085	3.07	10	< 1	0.62	30	1.32	140	442
H566239	299	229	1.2	2.86	< 2	340	< 0.5	4	2.40	< 0.5	11	125	1325	4.25	10	< 1	1.10	30	2.02	200	165
H566240	299	229	1.2	2.16	8	530	< 0.5	4	2.82	< 0.5	10	103	1395	3.64	10	< 1	0.86	30	1.44	180	431
H566241	299	229	1.2	2.14	10	530	< 0.5	6	1.97	< 0.5	9	84	1200	4.19	10	< 1	0.99	20	1.48	180	429
H566242	299	229	1.6	1.39	18	120	< 0.5	< 2	2.09	< 0.5	6	122	976	2.54	10	< 1	0.40	20	0.78	105	806
H566243	299	229	0.8	2.03	4	370	< 0.5	2	2.15	< 0.5	9	98	998	3.19	10	< 1	0.52	20	1.01	135	540
H566244	299	229	0.8	1.85	14	360	< 0.5	4	1.86	< 0.5	8	173	988	2.90	10	< 1	0.53	20	0.83	165	625
H566245	299	229	0.4	1.51	36	90	< 0.5	4	1.71	< 0.5	13	102	744	3.92	10	< 1	0.21	30	0.72	245	503
H566246	299	229	0.6	1.87	< 2	230	< 0.5	2	1.74	< 0.5	10	115	924	2.81	10	< 1	0.88	20	1.29	125	594
H566247	299	229	0.8	1.05	< 2	180	< 0.5	2	2.15	< 0.5	7	144	945	2.01	10	< 1	0.70	20	0.93	95	967
H566248	299	229	1.0	0.81	< 2	110	< 0.5	6	3.16	< 0.5	4	187	749	1.54	10	< 1	0.47	20	0.69	85	1175
H566249	299	229	0.8	2.09	< 2	240	< 0.5	6	2.11	0.5	12	127	1255	3.64	10	< 1	1.40	10	1.81	160	445
H566250	299	229	0.8	2.44	< 2	160	< 0.5	< 2	2.75	< 0.5	12	100	1085	4.33	10	< 1	1.52	20	2.02	175	479
H566251	299	229	0.6	1.88	< 2	150	< 0.5	8	4.27	< 0.5	10	97	1170	3.59	10	< 1	1.10	30	1.56	155	536
H566252	299	229	0.8	2.23	< 2	120	< 0.5	2	2.25	< 0.5	13	113	1765	4.92	10	< 1	1.38	20	1.80	185	273

CERTIFICATION: Jhai D Ma

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. :19319255
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319255

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566213	299	229	0.08	7	950	4	8	15	141	0.22	< 10	< 10	125	10	24
H566214	299	229	0.09	6	1230	< 2	4	15	107	0.23	< 10	< 10	129	10	24
H566215	299	229	0.14	7	980	6	6	16	104	0.31	< 10	< 10	154	10	24
H566216	299	229	0.07	7	930	< 2	6	11	109	0.17	< 10	< 10	109	10	26
H566217	299	229	0.07	5	970	6	6	11	129	0.19	< 10	< 10	106	< 10	22
H566218	299	229	0.06	7	890	8	6	11	141	0.19	< 10	< 10	108	< 10	22
H566219	299	229	0.05	4	500	4	10	4	127	0.05	< 10	< 10	44	< 10	18
H566220	299	229	0.05	5	650	8	6	8	160	0.11	< 10	< 10	69	< 10	18
H566221	299	229	0.09	5	950	< 2	6	16	112	0.21	< 10	< 10	133	10	22
H566222	299	229	0.09	7	1480	< 2	4	17	98	0.25	< 10	< 10	140	10	22
H566223	299	229	0.05	7	1010	4	4	11	76	0.11	< 10	< 10	97	< 10	18
H566224	299	229	0.02	6	890	6	4	7	59	0.04	< 10	< 10	51	< 10	12
H566225	299	229	0.09	8	1200	4	4	16	85	0.22	< 10	< 10	131	10	22
H566226	299	229	0.08	3	910	8	2	11	63	0.16	< 10	< 10	92	< 10	18
H566227	299	229	0.12	6	1510	6	6	17	95	0.28	< 10	< 10	153	10	28
H566228	299	229	0.21	7	1090	< 2	4	18	158	0.29	< 10	< 10	169	10	32
H566229	299	229	0.05	4	430	16	< 2	5	55	0.04	< 10	< 10	49	< 10	14
H566230	299	229	0.03	4	810	4	4	7	62	0.07	< 10	< 10	58	< 10	14
H566231	299	229	0.05	7	1230	2	4	14	48	0.18	< 10	< 10	107	< 10	20
H566232	299	229	0.03	4	660	6	12	7	42	0.06	< 10	< 10	59	< 10	12
H566233	299	229	0.01	5	580	6	8	6	27	< 0.01	< 10	< 10	34	< 10	14
H566234	299	229	0.01	2	630	4	14	7	34	0.04	< 10	< 10	46	< 10	14
H566235	299	229	0.01	4	200	8	4	1	26	< 0.01	< 10	10	12	< 10	8
H566236	299	229	0.01	3	450	8	10	2	38	< 0.01	< 10	< 10	17	< 10	8
H566237	299	229	0.04	8	940	2	2	9	73	0.09	< 10	< 10	76	30	16
H566238	299	229	0.04	12	980	< 2	2	9	101	0.08	< 10	< 10	73	< 10	16
H566239	299	229	0.07	30	1140	4	< 2	14	167	0.15	< 10	< 10	106	10	26
H566240	299	229	0.02	7	980	6	4	12	139	0.12	< 10	< 10	94	< 10	24
H566241	299	229	0.07	7	1190	< 2	4	13	645	0.16	< 10	< 10	107	< 10	24
H566242	299	229	0.01	3	420	20	12	3	33	< 0.01	< 10	< 10	23	< 10	18
H566243	299	229	0.02	6	780	12	12	8	103	0.03	< 10	< 10	65	< 10	18
H566244	299	229	0.02	5	770	2	8	7	38	0.02	< 10	< 10	53	10	18
H566245	299	229	0.01	7	1340	< 2	14	15	29	< 0.01	< 10	< 10	88	10	18
H566246	299	229	0.04	4	930	< 2	8	12	176	0.14	< 10	< 10	87	10	18
H566247	299	229	0.05	2	570	2	8	8	127	0.11	< 10	< 10	66	10	14
H566248	299	229	0.06	4	450	2	14	5	192	0.05	< 10	< 10	46	10	14
H566249	299	229	0.11	5	1020	< 2	6	16	115	0.26	< 10	< 10	138	20	24
H566250	299	229	0.10	7	1410	< 2	4	17	135	0.26	< 10	< 10	151	20	26
H566251	299	229	0.05	6	1030	< 2	8	13	224	0.17	< 10	< 10	111	20	22
H566252	299	229	0.09	6	1130	< 2	2	16	131	0.23	< 10	< 10	132	20	30

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566253	299	229	0.4	1.65	< 2	200	< 0.5	< 2	2.71	< 0.5	9	94	842	3.18	10	< 1	0.97	20	1.48	155	447
H566254	299	229	0.4	1.76	< 2	230	< 0.5	< 2	3.08	< 0.5	12	104	967	3.29	10	< 1	1.09	30	1.55	175	458
H566255	299	229	0.4	1.84	< 2	140	< 0.5	< 2	2.91	< 0.5	10	111	1115	3.40	10	< 1	1.09	20	1.50	135	322
H566256	299	229	0.4	1.92	< 2	180	< 0.5	< 2	2.70	< 0.5	9	189	615	2.95	10	< 1	1.11	20	1.50	130	856
H566257	299	229	0.6	1.27	< 2	140	< 0.5	< 2	3.15	< 0.5	9	147	859	2.47	10	< 1	0.81	20	1.13	95	645
H566258	299	229	0.4	1.83	< 2	250	< 0.5	< 2	1.99	0.5	11	140	798	3.85	10	< 1	1.19	20	1.52	140	369
H566259	299	229	0.4	1.55	< 2	270	< 0.5	< 2	1.65	0.5	9	135	1115	3.30	10	< 1	0.93	20	1.36	135	212
H566260	299	229	0.2	1.50	20	170	< 0.5	< 2	2.57	< 0.5	9	158	284	2.80	10	< 1	0.64	10	1.39	365	154
H566261	299	229	0.6	1.81	< 2	210	< 0.5	< 2	1.72	< 0.5	11	115	891	3.54	10	< 1	1.11	10	1.71	150	260
H566262	299	229	0.2	1.90	< 2	90	< 0.5	< 2	1.81	< 0.5	13	119	805	3.86	10	< 1	1.07	10	1.50	135	251
H566263	299	229	1.2	1.75	< 2	160	< 0.5	< 2	1.92	< 0.5	8	147	960	2.64	10	< 1	0.93	10	1.40	120	593
H566264	299	229	0.8	1.40	< 2	170	< 0.5	< 2	1.96	< 0.5	5	156	697	2.06	10	< 1	0.78	10	1.20	110	559
H566265	299	229	0.4	1.38	< 2	180	< 0.5	< 2	2.23	< 0.5	4	93	529	1.63	10	< 1	0.71	20	1.06	100	615
H566266	299	229	0.6	1.05	2	170	< 0.5	< 2	2.06	< 0.5	3	224	871	1.33	10	< 1	0.52	20	0.73	80	498
H566267	299	229	0.8	1.56	< 2	140	< 0.5	< 2	2.38	0.5	9	107	1390	2.51	10	< 1	1.04	10	1.38	125	365
H566268	299	229	0.8	2.00	< 2	80	< 0.5	< 2	3.94	< 0.5	12	114	1320	3.37	10	< 1	1.11	30	1.56	150	626
H566269	299	229	0.6	2.01	< 2	90	< 0.5	< 2	2.54	0.5	10	127	979	3.19	10	< 1	0.96	20	1.47	140	308
H566270	299	229	0.4	0.98	< 2	120	< 0.5	< 2	2.53	< 0.5	3	218	613	1.59	10	< 1	0.39	20	0.55	80	126
H566271	299	229	0.6	1.68	< 2	200	< 0.5	< 2	2.15	< 0.5	10	197	786	2.73	10	< 1	0.99	20	1.34	130	513
H566272	299	229	0.2	2.54	< 2	80	< 0.5	< 2	2.29	< 0.5	12	130	543	4.27	10	< 1	1.77	10	2.24	195	608
H566273	299	229	0.4	1.37	< 2	200	< 0.5	< 2	2.14	0.5	5	188	670	2.14	10	< 1	0.80	20	1.06	105	221
H566274	299	229	0.6	0.85	< 2	200	< 0.5	< 2	1.78	< 0.5	3	156	708	1.37	< 10	< 1	0.37	10	0.56	75	226
H566275	299	229	0.4	1.25	< 2	130	< 0.5	< 2	2.26	< 0.5	4	202	589	1.91	< 10	< 1	0.63	10	0.89	100	339
H566276	299	229	2.4	1.62	4	80	< 0.5	< 2	2.48	< 0.5	8	122	572	4.07	< 10	< 1	0.92	20	1.35	280	232
H566277	299	229	0.6	1.92	< 2	250	< 0.5	< 2	2.65	< 0.5	9	109	688	2.95	10	< 1	0.97	20	1.48	195	169
H566278	299	229	0.6	0.84	6	210	< 0.5	< 2	1.63	< 0.5	5	187	823	1.67	< 10	< 1	0.38	10	0.62	110	178
H566279	299	229	0.6	0.77	6	150	< 0.5	< 2	1.96	< 0.5	4	174	657	1.03	< 10	< 1	0.35	10	0.57	100	101
H566280	299	229	0.6	0.87	10	170	< 0.5	< 2	1.92	< 0.5	3	201	587	1.17	< 10	< 1	0.44	20	0.63	100	245
H566281	299	229	0.6	1.68	< 2	130	< 0.5	< 2	2.51	0.5	6	135	795	2.35	10	< 1	0.99	20	1.32	150	174
H566282	299	229	0.2	1.27	< 2	180	< 0.5	< 2	1.76	< 0.5	5	166	396	2.04	10	< 1	0.66	20	1.10	120	141

CERTIFICATION: Jhai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 184
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. :I9319255
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319255

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566253	299	229	0.06	7	850	2	6	13	132	0.17	< 10	< 10	106	20	22
H566254	299	229	0.06	4	950	6	4	14	171	0.19	< 10	< 10	111	10	28
H566255	299	229	0.08	5	970	< 2	2	12	225	0.19	< 10	< 10	110	20	20
H566256	299	229	0.11	6	1010	< 2	10	12	134	0.19	< 10	< 10	102	10	20
H566257	299	229	0.06	7	890	4	6	9	178	0.13	< 10	< 10	76	10	16
H566258	299	229	0.09	7	990	4	4	13	103	0.21	< 10	< 10	118	20	24
H566259	299	229	0.08	13	860	4	4	9	152	0.16	< 10	< 10	81	10	24
H566260	299	229	0.07	15	770	< 2	2	6	318	0.09	< 10	< 10	59	10	22
H566261	299	229	0.09	11	1010	< 2	2	12	97	0.24	< 10	< 10	101	10	30
H566262	299	229	0.12	5	960	4	4	12	89	0.22	< 10	< 10	106	20	24
H566263	299	229	0.11	6	640	< 2	6	12	97	0.20	< 10	< 10	100	10	22
H566264	299	229	0.07	6	440	10	8	11	101	0.15	< 10	< 10	82	10	18
H566265	299	229	0.08	4	610	4	6	10	109	0.12	< 10	< 10	76	10	20
H566266	299	229	0.08	5	300	12	6	7	107	0.08	< 10	< 10	53	< 10	18
H566267	299	229	0.07	6	850	6	4	12	101	0.21	< 10	< 10	99	10	22
H566268	299	229	0.06	7	1020	< 2	8	12	148	0.18	< 10	< 10	106	20	22
H566269	299	229	0.07	5	930	< 2	4	11	110	0.16	< 10	< 10	97	20	22
H566270	299	229	0.06	2	360	2	2	3	147	0.03	< 10	< 10	37	< 10	12
H566271	299	229	0.11	6	720	2	6	11	106	0.16	< 10	< 10	96	10	24
H566272	299	229	0.18	7	1030	< 2	8	19	113	0.35	< 10	< 10	162	30	36
H566273	299	229	0.09	6	620	4	2	9	108	0.14	< 10	< 10	80	10	20
H566274	299	229	0.06	4	290	6	2	4	97	0.03	< 10	< 10	36	< 10	16
H566275	299	229	0.08	5	450	2	4	7	124	0.09	< 10	< 10	56	10	20
H566276	299	229	0.08	6	990	26	4	10	116	0.16	< 10	< 10	84	20	30
H566277	299	229	0.04	8	910	8	4	14	81	0.15	< 10	< 10	100	10	28
H566278	299	229	0.04	5	370	4	4	3	128	0.02	< 10	< 10	30	< 10	20
H566279	299	229	0.03	4	220	10	2	4	105	0.01	< 10	< 10	25	< 10	24
H566280	299	229	0.05	6	290	8	2	6	163	0.02	< 10	< 10	33	< 10	22
H566281	299	229	0.07	6	740	< 2	4	13	121	0.17	< 10	< 10	95	10	32
H566282	299	229	0.07	8	520	2	2	8	102	0.12	< 10	< 10	60	10	56

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. : I9319630
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319630

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H575081	208	276	0.01	0.073	0.21	8320
H575082	208	273	< 0.01	0.106	0.14	11980
H575083	208	276	< 0.01	0.090	0.03	10360
H575084	208	276	< 0.01	0.062	0.03	10400
H575085	208	276	< 0.01	0.027	0.07	9320
H575086	208	274	< 0.01	0.027	0.03	6360
H575087	208	274	< 0.01	0.018	0.14	4900
H575088	208	274	< 0.01	0.009	0.03	3900
H575089	208	276	< 0.01	0.021	0.03	7420
H575090	208	276	< 0.01	0.055	0.14	8720
H575091	208	274	< 0.01	0.096	0.51	1880
H575092	208	274	< 0.01	0.064	0.07	6840
H575093	208	276	< 0.01	0.105	0.17	7860
H575094	208	276	< 0.01	0.138	0.07	10140
H575095	208	276	< 0.01	0.116	0.21	11440
H575096	208	276	< 0.01	0.095	0.17	11280
H575097	208	276	0.01	0.086	0.21	10120
H575098	208	276	0.01	0.135	0.14	9740
H575099	208	276	0.01	0.183	0.14	8420
H575100	208	276	0.02	0.170	0.10	10920
H575101	208	276	0.03	0.133	0.14	11420
H575102	208	276	0.01	0.105	0.17	11240
H575103	208	276	< 0.01	0.078	0.10	10240
H575104	208	276	0.01	0.085	0.48	10260
H575105	208	276	0.01	0.073	0.17	10620
H575106	208	276	0.01	0.106	0.51	10920
H575107	208	276	0.02	0.212	0.72	9920
H575108	208	276	0.01	0.107	0.21	10600
H575109	208	276	0.10	0.118	0.31	8840
H575110	208	273	0.87	0.109	0.62	12000
H575111	208	276	0.36	0.057	0.27	10900
H575112	208	273	0.52	0.055	0.62	13120
H575113	208	276	0.39	0.117	0.21	10840
H575114	208	273	0.25	0.117	0.14	12240
H575115	208	276	0.13	0.107	0.10	11000
H575116	208	276	0.18	0.183	0.14	11660
H575117	208	276	0.33	0.165	0.17	8440
H575118	208	273	0.42	0.311	0.31	13240
H575119	208	273	1.16	0.169	0.72	12940
H575120	208	276	0.74	0.394	0.62	10720

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CERTIFICATE OF ANALYSIS A9319630

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H575121	208	276	1.43	0.513	1.61	10900
H575122	208	276	1.01	1.110	0.79	9720
H575123	208	276	0.98	0.053	0.69	10220
H575124	208	273	1.02	0.571	0.69	11840
H575125	208	273	1.13	0.332	1.03	12020
H575126	208	276	1.39	0.827	5.11	11550
H575127	208	276	1.22	1.140	2.67	9100
H575128	208	276	0.93	0.740	1.61	11800
H575129	208	276	1.41	0.480	1.82	11260
H575130	208	276	1.80	0.741	1.95	11750
H575131	208	276	1.52	0.920	18.79	11460
H575132	208	276	0.49	0.820	2.78	10700
H575133	208	270	1.44	1.060	3.09	19720
H575134	208	273	1.54	0.753	1.30	12000
H575135	208	276	0.33	0.862	0.48	8540
H575136	208	274	0.15	0.494	0.17	6420
H575137	208	276	0.76	0.591	0.48	10760
H575138	208	276	0.76	0.411	0.24	9620
H575139	208	276	0.17	0.540	0.07	10840
H575140	208	276	0.54	0.534	0.24	9180
H575141	208	273	0.31	0.632	0.27	12240
H575142	208	273	0.15	0.350	0.10	13000
H575143	208	273	0.26	0.265	0.17	12620
H575144	208	273	0.25	0.481	0.31	12640
H575145	208	273	0.40	0.728	0.24	12820
H575146	208	276	0.65	0.590	0.65	11240
H575147	208	273	0.73	0.156	0.41	13080
H575148	208	273	1.00	0.100	0.55	13800
H575149	208	273	1.01	0.085	1.41	13100
H575150	208	273	0.66	0.054	0.75	12960
H575151	208	273	0.43	0.023	0.58	13180
H575152	208	273	0.21	0.008	0.38	13200
H575153	208	273	0.22	0.007	0.38	12060
H575154	208	273	0.23	0.004	0.24	12680
H575155	208	276	0.22	0.004	0.31	10020
H575156	208	276	1.82	0.008	2.40	11660
H575157	208	273	0.41	0.010	0.51	14620
H575158	208	273	0.23	0.004	0.45	12740
H575159	208	273	0.23	0.019	0.31	12560
H575160	208	273	0.35	0.008	0.69	13060

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
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CERTIFICATE OF ANALYSIS A9319630

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H575161	208 273	0.30	0.010	0.48	12900
H575162	208 273	0.35	0.008	0.45	13260
H575163	208 273	0.31	0.005	0.41	12500
H575164	208 273	0.27	0.015	0.34	12420
H575165	208 276	0.22	0.004	0.31	11500
H575166	208 273	0.22	0.004	0.45	12360
H575167	208 273	0.27	0.038	0.45	12320
H575168	208 273	0.29	0.017	0.34	12300
H575169	208 273	0.10	0.013	0.17	11900
H575170	208 276	0.19	0.005	0.24	11420
H575171	208 276	0.29	0.015	0.41	11720
H575172	208 273	0.21	0.010	0.31	13160
H575173	208 273	0.64	0.022	0.72	12200
H575174	208 273	0.17	0.019	0.27	13260
H575175	208 273	0.30	0.030	0.31	12600
H575176	208 276	0.24	0.007	0.27	11020
H575177	208 273	0.30	0.009	0.34	12760
H575178	208 273	0.32	0.015	0.31	13000
H575179	208 273	0.27	0.015	0.27	12960
H575180	208 273	0.31	0.015	0.31	12700
H575181	208 273	0.21	0.007	0.31	12100
H575182	208 276	0.12	0.005	0.38	11000
H575183	208 273	0.28	0.042	0.34	12760
H575184	208 276	0.32	0.035	0.45	11160
H575185	208 276	0.14	0.009	0.14	11600
H575186	208 273	0.17	0.012	0.17	13360
H575187	208 273	0.22	0.010	0.14	12600
H575188	208 273	0.42	0.013	0.38	12520
H575189	208 274	0.24	0.015	0.21	5600
H575190	208 274	0.30	0.010	0.24	6740
H575191	208 274	0.43	0.023	0.31	7160
H575192	208 274	0.25	0.010	0.31	6340
H575193	208 274	0.26	0.005	0.24	6640
H575194	208 274	0.19	0.015	0.24	6500
H575195	208 274	0.24	0.011	0.17	7200
H575196	208 274	0.27	0.022	0.27	6840
H575197	208 274	0.16	0.005	0.14	6760
H575198	208 274	0.29	0.006	0.55	6800
H575199	208 276	0.23	0.010	0.24	7660
H575200	208 274	0.17	0.006	0.17	6740

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CERTIFICATE OF ANALYSIS A9319630

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H575201	208	274	0.30	0.026	0.31	6900
H575202	208	274	0.18	0.008	0.17	6700
H575203	208	274	0.19	0.007	0.21	6740
H575204	208	274	0.22	0.013	0.14	7000
H575205	208	274	0.19	0.019	0.17	7020
H575206	208	274	0.32	0.011	0.27	6700
H575207	208	276	0.43	0.010	0.34	7460
H575208	208	274	0.37	0.019	0.31	6300
H575209	208	274	0.67	0.045	0.55	6920
H575210	208	274	0.47	0.008	0.48	5900
H575211	208	274	0.52	0.015	0.41	5700
H575212	208	274	0.19	0.011	0.21	6530
H575213	208	274	0.41	0.016	0.34	5460
H575214	208	274	0.26	0.015	0.41	7260
H575215	208	274	0.20	0.008	0.27	6700
H575216	208	274	0.26	0.007	0.21	6760
H575217	208	274	0.24	0.004	0.27	6500
H575218	208	274	0.44	0.011	0.38	6900
H575219	208	274	0.22	0.015	0.21	6440
H575220	208	274	0.25	0.006	0.31	7060
H575221	208	274	0.25	0.010	0.31	7080
H575222	208	274	0.22	0.015	0.24	6780
H575223	208	274	0.17	0.016	0.14	6300
H575224	208	274	0.18	0.007	0.10	6460
H575225	208	274	0.17	0.005	0.21	6780
H575226	208	274	0.25	0.003	0.31	7260
H575227	208	274	0.09	0.004	0.14	7080
H575228	208	274	0.11	0.006	0.24	7120
H575229	208	274	0.11	0.002	0.14	7100
H575230	208	274	0.23	0.012	0.34	6560
H575231	208	274	0.30	0.008	0.45	6350
H575232	208	274	0.23	0.010	0.21	6160
H575233	208	274	0.20	0.030	0.24	6800
H575234	208	274	0.12	0.003	0.24	6700
H575235	208	274	0.19	0.003	0.27	7000
H575236	208	274	0.35	0.014	0.27	6880
H575237	208	274	0.22	0.006	0.17	6360
H575238	208	274	0.16	0.012	0.17	6620
H575239	208	274	0.18	0.021	0.21	6660
H575240	208	274	0.20	0.007	0.14	6740

CERTIFICATION: _____

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. : I9319630
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319630

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H575241	208	274	0.22	0.046	0.17	6720						
H575242	208	274	0.34	0.020	0.27	6220						
H575243	208	274	0.37	0.022	0.38	6140						
H575244	208	274	0.44	0.015	0.38	6940						
H575245	208	276	0.35	0.011	0.21	7340						
H575246	208	274	0.37	0.017	0.34	6560						
H575247	208	274	0.39	0.026	0.31	6480						
H575248	208	274	0.27	0.009	0.17	6800						
H575249	208	274	0.30	0.024	0.24	6540						
H575250	208	274	0.27	0.008	0.34	6060						
H575251	208	274	0.24	0.012	0.38	5540						
H575252	208	274	0.32	0.030	0.55	6520						
H575253	208	274	0.21	0.006	0.24	6780						
H575254	208	274	0.21	0.021	0.17	6520						
H575255	208	274	0.23	0.023	0.24	7120						
H575256	208	274	0.25	0.007	0.27	6760						
H575257	208	274	0.25	0.008	0.24	6620						
H575258	208	274	0.37	0.020	0.31	7060						
H575259	208	274	0.24	0.016	0.34	6620						
H575260	208	274	0.19	0.013	0.17	7080						
H575261	208	274	0.40	0.012	0.51	6700						
H575262	208	274	0.38	0.006	0.38	6660						
H575263	208	274	0.42	0.010	0.34	7120						
H575264	208	274	0.27	0.022	0.21	6620						
H575265	208	274	0.41	0.012	0.51	7020						
H575266	208	274	0.24	0.016	0.24	7260						
H575267	208	274	0.38	0.012	0.31	6900						
H575268	208	274	0.48	0.014	0.41	6940						
H575269	208	274	0.33	0.015	0.24	6920						
H575270	208	274	0.30	0.043	0.31	5620						
H575271	208	276	0.36	0.016	0.31	8120						
H575272	208	274	0.24	0.007	0.17	7080						
H575273	208	274	0.26	0.008	0.27	6220						
H575274	208	276	0.34	0.010	0.24	7700						
H575275	208	274	0.24	0.010	0.31	7180						
H575276	208	276	0.31	0.004	0.41	7400						
H575277	208	274	0.23	0.006	0.21	6900						
H575278	208	274	0.19	0.007	0.14	6680						
H575279	208	274	0.32	0.004	0.38	6860						
H575280	208	274	0.22	0.007	0.17	7200						

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. : I9319630
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319630

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H575281	208 274	0.18	0.004	0.14	7160
H575282	208 274	0.24	0.007	0.27	6900
H575283	208 274	0.34	0.008	0.38	7180
H575284	208 274	0.25	0.007	0.45	6820
H575285	208 274	0.23	0.008	0.24	7000
H575286	208 274	0.27	0.012	0.31	6900
H575287	208 276	0.29	0.026	0.24	7320
H575288	208 274	0.32	0.005	0.17	7060
H575289	208 274	0.36	0.015	0.24	5540
H575290	208 274	0.14	0.008	0.14	5900
H575291	208 274	0.29	0.007	0.14	6400
H575292	208 274	0.21	0.015	0.10	7100
H575293	208 274	0.16	0.005	0.10	6660
H575294	208 274	0.18	0.010	0.17	6460
H575295	208 274	0.15	0.008	0.07	6680
H575296	208 274	0.23	0.017	0.21	6660
H575297	208 274	0.21	0.017	0.14	5540
H575298	208 276	0.28	0.008	0.17	7560
H575299	208 274	0.28	0.011	0.31	6450
H575300	208 274	0.20	0.015	0.21	6750
H575301	208 274	0.18	0.004	0.17	7200
H575302	208 274	0.19	0.007	0.21	7120
H575303	208 276	0.16	0.005	0.14	7350
H575304	208 274	0.17	0.006	0.14	6780
H575305	208 274	0.28	0.010	0.34	7100
H575306	208 274	0.25	0.007	0.27	6980
H575307	208 274	0.17	0.005	0.14	7100
H575308	208 274	0.10	0.006	0.10	7250
H575309	208 274	0.22	0.007	0.41	6840
H575310	208 274	0.29	0.033	0.48	7040
H575311	208 274	0.17	0.006	0.14	6820
H575312	208 274	0.17	0.009	0.14	6880
H575313	208 274	0.36	0.006	0.41	6760
H575314	208 274	0.16	0.004	0.21	7000
H575315	208 274	0.25	0.004	0.24	6360
H575316	208 274	0.23	0.003	0.10	6840
H575317	208 274	0.18	0.003	0.66	6380
H575318	208 274	0.29	0.011	0.45	6960
H575319	208 276	0.23	0.004	0.21	7280
H575320	208 274	0.14	0.010	0.24	7000

CERTIFICATION: _____

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Page : 1
Total Pages : 7
Certificate Date: 26-AUG-93
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CERTIFICATE OF ANALYSIS A9319630

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H575321	208	274	0.13	0.008	0.10	6980
H575322	208	274	0.28	0.012	0.31	7160
H575323	208	274	0.15	0.006	0.48	7020
H575324	208	274	0.32	0.008	0.45	6600
H575325	208	274	0.23	0.008	0.27	7000
H575326	208	274	0.13	0.008	0.10	6860
H575327	208	274	0.23	0.016	0.17	6400
H575328	208	274	0.18	0.008	0.21	7120
H575329	208	274	0.13	0.005	0.17	6640
H575330	208	274	0.14	0.010	0.14	6940
H575331	208	274	0.12	0.019	0.17	7060
H575332	208	274	0.14	0.004	0.21	6780
H575333	208	274	0.06	0.004	0.10	7060
H575334	208	276	0.09	0.005	0.10	7300
H575335	208	274	0.10	0.008	0.14	6960
H575336	208	274	0.26	0.008	0.17	7180
H575337	208	274	0.08	0.008	0.10	6700
H575338	208	274	0.06	0.003	0.07	7120
H575339	208	274	0.18	0.009	0.07	6800
H575340	208	274	0.11	0.011	0.10	6600
H575341	208	274	0.22	0.010	0.27	6100
H575342	208	274	0.20	0.006	0.34	6780
H575343	208	274	0.21	0.013	0.14	7240

CERTIFICATION:

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Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :7
Certificate Date: 01-SEP-93
Invoice No. :I9319632
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H 575081	299	229	1.2	0.45	24	120	< 0.5	2	0.01	< 0.5	2	125	66	2.51	< 10	< 1	0.70	30	0.02	10	420
H 575082	299	229	0.8	0.29	16	120	< 0.5	2	0.01	< 0.5	2	93	37	2.45	< 10	< 1	0.61	20	0.01	5	627
H 575083	299	229	< 0.2	0.45	24	110	< 0.5	2	0.01	< 0.5	1	153	27	3.17	< 10	< 1	0.86	30	0.02	10	541
H 575084	299	229	0.2	0.23	8	160	< 0.5	2	0.01	< 0.5	1	77	29	1.18	< 10	< 1	0.35	30	< 0.01	10	389
H 575085	299	229	0.2	0.59	12	340	< 0.5	2	0.01	< 0.5	2	172	30	1.07	< 10	< 1	0.52	40	0.02	10	158
H 575086	299	229	0.2	0.25	6	220	< 0.5	2	0.01	< 0.5	1	75	26	1.18	< 10	< 1	0.36	30	0.01	10	173
H 575087	299	229	0.2	0.28	< 2	210	< 0.5	< 2	0.01	< 0.5	1	108	19	0.52	< 10	< 1	0.24	30	0.01	10	102
H 575088	299	229	0.4	0.27	< 2	190	< 0.5	< 2	0.01	< 0.5	1	119	29	0.27	< 10	< 1	0.19	40	0.01	15	53
H 575089	299	229	0.6	0.55	< 2	470	< 0.5	< 2	0.02	< 0.5	2	230	22	0.35	< 10	< 1	0.36	30	0.02	15	122
H 575090	299	229	0.6	0.62	< 2	610	< 0.5	< 2	0.01	< 0.5	2	248	27	0.40	< 10	< 1	0.39	30	0.03	15	328
H 575091	299	229	1.4	0.74	2	840	< 0.5	2	0.01	< 0.5	1	229	36	0.47	< 10	< 1	0.45	20	0.04	20	574
H 575092	299	229	0.8	0.69	4	700	< 0.5	< 2	0.01	< 0.5	1	215	22	0.48	< 10	< 1	0.44	20	0.03	15	374
H 575093	299	229	1.0	0.30	2	220	< 0.5	4	0.01	< 0.5	< 1	117	22	1.76	< 10	< 1	0.45	20	0.01	10	628
H 575094	299	229	0.4	0.21	8	280	< 0.5	2	0.01	< 0.5	< 1	71	22	1.89	< 10	< 1	0.41	20	0.01	5	699
H 575095	299	229	2.2	0.44	16	190	< 0.5	2	0.02	< 0.5	< 1	200	37	2.27	< 10	< 1	0.60	20	0.02	15	818
H 575096	299	229	1.4	0.31	12	350	< 0.5	2	0.01	< 0.5	< 1	139	40	1.60	< 10	< 1	0.38	20	0.02	15	566
H 575097	299	229	0.8	0.35	26	120	< 0.5	2	0.02	< 0.5	< 1	84	75	2.59	< 10	< 1	0.44	30	0.01	10	513
H 575098	299	229	1.4	0.27	50	150	< 0.5	2	0.01	< 0.5	< 1	123	68	2.91	< 10	< 1	0.57	20	0.01	15	806
H 575099	299	229	1.2	0.47	36	200	< 0.5	2	0.02	< 0.5	< 1	207	59	3.20	< 10	< 1	0.72	30	0.02	15	1090
H 575100	299	229	0.8	0.26	48	240	< 0.5	2	0.01	< 0.5	< 1	133	185	3.63	< 10	< 1	0.36	20	0.01	10	989
H 575101	299	229	0.6	0.45	44	350	< 0.5	2	0.02	< 0.5	< 1	199	258	3.24	< 10	< 1	0.32	30	0.01	15	783
H 575102	299	229	0.8	0.31	8	290	< 0.5	4	0.01	< 0.5	1	182	64	1.14	< 10	< 1	0.29	30	0.01	15	635
H 575103	299	229	0.6	0.60	4	430	< 0.5	2	0.01	< 0.5	1	223	40	0.75	< 10	< 1	0.42	20	0.02	20	438
H 575104	299	229	2.4	0.30	< 2	380	< 0.5	2	0.01	< 0.5	1	144	75	0.77	< 10	< 1	0.26	20	0.01	15	498
H 575105	299	229	0.6	0.32	< 2	270	< 0.5	2	0.01	< 0.5	1	145	66	0.69	< 10	< 1	0.25	20	0.02	15	433
H 575106	299	229	2.8	1.06	12	610	< 0.5	2	0.03	< 0.5	< 1	287	63	1.42	10	< 1	0.60	30	0.07	30	648
H 575107	299	229	2.6	0.84	46	120	< 0.5	4	0.03	< 0.5	3	277	193	3.36	10	< 1	0.57	30	0.05	25	1210
H 575108	299	229	2.6	0.43	16	250	< 0.5	2	0.02	< 0.5	3	129	118	1.36	< 10	< 1	0.28	20	0.03	15	625
H 575109	299	229	2.2	1.01	18	30	< 0.5	2	0.06	< 0.5	15	155	1045	3.46	10	< 1	0.39	20	0.05	25	681
H 575110	299	229	1.8	0.52	4	20	< 0.5	< 2	0.06	< 0.5	13	107	8840	3.00	< 10	< 1	0.17	20	0.02	15	570
H 575111	299	229	2.2	0.59	18	50	< 0.5	2	0.04	< 0.5	16	119	3720	2.17	< 10	< 1	0.22	20	0.03	20	348
H 575112	299	229	1.8	0.53	10	10	< 0.5	2	0.04	< 0.5	55	98	5320	4.43	< 10	< 1	0.18	20	0.03	15	301
H 575113	299	229	1.2	0.67	8	20	< 0.5	2	0.05	< 0.5	27	115	4190	3.31	< 10	< 1	0.18	10	0.03	15	713
H 575114	299	229	0.6	0.68	20	10	< 0.5	< 2	0.06	< 0.5	39	107	2460	4.55	< 10	< 1	0.19	10	0.03	15	641
H 575115	299	229	1.2	0.87	14	20	< 0.5	2	0.08	< 0.5	22	99	1395	3.89	< 10	< 1	0.17	10	0.03	25	615
H 575116	299	229	0.8	1.20	12	20	< 0.5	< 2	0.08	< 0.5	21	199	1890	3.62	< 10	< 1	0.44	20	0.05	20	1080
H 575117	299	229	1.0	0.59	10	30	< 0.5	2	0.06	0.5	25	92	3380	3.51	< 10	< 1	0.17	20	0.02	10	985
H 575118	299	229	1.8	1.43	18	20	< 0.5	2	0.08	0.5	35	190	4350	4.18	< 10	< 1	0.43	20	0.06	20	1780
H 575119	299	229	4.4	0.78	26	20	< 0.5	< 2	0.07	2.0	28	46	>10000	3.68	< 10	< 1	0.15	20	0.03	10	997
H 575120	299	229	2.4	0.49	16	10	< 0.5	< 2	0.04	0.5	33	75	7800	5.16	< 10	< 1	0.14	30	0.02	10	2280

CERTIFICATION: H. H Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 01-SEP-93
Invoice No. :19319632
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Account :FC

CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H 575081	299	229	0.01	1	110	96	4	1	12	< 0.01	< 10	< 10	3	10	6
H 575082	299	229	0.01	2	100	54	4	< 1	10	< 0.01	< 10	< 10	< 1	10	6
H 575083	299	229	0.02	2	150	28	6	< 1	13	< 0.01	< 10	< 10	2	10	6
H 575084	299	229	0.01	1	90	12	4	< 1	7	< 0.01	< 10	< 10	< 1	< 10	2
H 575085	299	229	0.01	3	100	26	2	< 1	15	< 0.01	< 10	< 10	4	10	8
H 575086	299	229	0.01	1	90	14	2	< 1	8	< 0.01	< 10	< 10	1	10	4
H 575087	299	229	0.01	2	60	16	< 2	< 1	8	< 0.01	< 10	< 10	2	< 10	2
H 575088	299	229	0.01	2	40	12	< 2	< 1	5	< 0.01	< 10	< 10	2	< 10	4
H 575089	299	229	0.01	3	30	14	< 2	< 1	10	< 0.01	< 10	< 10	3	< 10	4
H 575090	299	229	0.01	3	30	12	2	< 1	9	< 0.01	< 10	< 10	1	< 10	4
H 575091	299	229	0.01	3	40	12	4	< 1	11	< 0.01	< 10	< 10	1	< 10	4
H 575092	299	229	0.01	3	40	12	4	< 1	12	< 0.01	< 10	< 10	2	< 10	4
H 575093	299	229	0.01	1	60	16	6	< 1	12	< 0.01	< 10	< 10	< 1	< 10	4
H 575094	299	229	0.01	1	90	4	6	< 1	10	< 0.01	< 10	< 10	< 1	< 10	2
H 575095	299	229	0.02	2	140	30	8	< 1	28	< 0.01	< 10	< 10	< 1	10	4
H 575096	299	229	0.01	2	160	22	6	< 1	22	< 0.01	< 10	< 10	< 1	< 10	4
H 575097	299	229	0.01	1	450	26	4	< 1	134	< 0.01	< 10	< 10	< 1	< 10	4
H 575098	299	229	0.01	1	460	42	12	< 1	130	< 0.01	< 10	< 10	< 1	10	4
H 575099	299	229	0.02	2	420	26	12	< 1	103	< 0.01	< 10	< 10	< 1	10	6
H 575100	299	229	0.01	1	360	40	16	< 1	44	< 0.01	< 10	< 10	< 1	10	6
H 575101	299	229	0.01	2	390	12	12	< 1	69	< 0.01	< 10	< 10	< 1	< 10	12
H 575102	299	229	0.01	3	220	6	6	< 1	127	< 0.01	< 10	< 10	< 1	< 10	4
H 575103	299	229	0.01	3	110	8	4	< 1	57	< 0.01	< 10	< 10	< 1	< 10	4
H 575104	299	229	0.01	2	110	18	4	< 1	52	< 0.01	< 10	< 10	< 1	< 10	4
H 575105	299	229	0.01	2	60	6	2	< 1	25	< 0.01	< 10	< 10	< 1	< 10	2
H 575106	299	229	0.02	3	380	24	14	1	171	< 0.01	< 10	< 10	< 1	< 10	8
H 575107	299	229	0.03	4	690	34	14	1	276	< 0.01	< 10	< 10	< 1	< 10	10
H 575108	299	229	0.01	3	430	66	6	< 1	151	< 0.01	< 10	< 10	< 1	< 10	8
H 575109	299	229	0.01	9	590	14	14	1	208	< 0.01	< 10	< 10	< 1	< 10	28
H 575110	299	229	0.01	9	430	8	6	1	151	< 0.01	< 10	< 10	< 1	< 10	16
H 575111	299	229	0.01	7	530	20	4	1	176	< 0.01	< 10	< 10	< 1	< 10	22
H 575112	299	229	0.01	11	470	46	4	1	146	< 0.01	< 10	< 10	< 1	< 10	52
H 575113	299	229	0.01	9	440	34	8	1	130	< 0.01	< 10	< 10	< 1	< 10	24
H 575114	299	229	0.01	11	530	6	6	1	132	< 0.01	< 10	< 10	< 1	< 10	20
H 575115	299	229	0.01	9	610	10	6	1	131	< 0.01	< 10	< 10	2	< 10	30
H 575116	299	229	0.02	11	730	18	12	1	198	< 0.01	< 10	< 10	< 1	< 10	22
H 575117	299	229	0.01	10	540	50	10	1	187	< 0.01	< 10	< 10	< 1	< 10	96
H 575118	299	229	0.01	14	750	34	18	2	213	< 0.01	< 10	< 10	< 1	< 10	82
H 575119	299	229	< 0.01	10	560	112	16	1	215	< 0.01	< 10	< 10	< 1	< 10	238
H 575120	299	229	0.01	11	310	32	26	1	78	< 0.01	< 10	< 10	< 1	< 10	52

CERTIFICATION: Ian Bradley

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Certificate Date: 01-SEP-93
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H 575121	299	229	4.0	1.30	34	30	< 0.5	< 2	0.08	< 0.5	34	134	>10000	4.22	10	< 1	0.31	20	0.06	20	3130
H 575122	299	229	3.6	2.28	90	20	1.0	< 2	0.15	0.5	57	63	>10000	5.31	10	< 1	0.29	30	0.08	25	6650
H 575123	299	229	3.0	1.34	44	20	0.5	< 2	0.13	< 0.5	52	93	>10000	5.04	10	< 1	0.28	30	0.06	25	312
H 575124	299	229	2.8	0.89	32	40	< 0.5	< 2	0.07	0.5	34	89	>10000	3.16	< 10	< 1	0.22	20	0.03	10	3370
H 575125	299	229	3.8	0.83	34	40	< 0.5	< 2	0.07	< 0.5	32	109	>10000	3.22	< 10	< 1	0.26	20	0.04	10	2030
H 575126	299	229	3.4	0.79	632	10	< 0.5	< 2	0.08	< 0.5	41	74	>10000	4.08	< 10	< 1	0.23	20	0.04	10	4880
H 575127	299	229	5.2	0.78	486	10	< 0.5	< 2	0.09	1.0	33	97	>10000	4.97	< 10	< 1	0.23	20	0.04	15	6210
H 575128	299	229	4.4	0.60	394	20	< 0.5	2	0.07	1.5	46	83	9880	3.40	< 10	< 1	0.21	10	0.04	10	4260
H 575129	299	229	5.6	1.00	578	10	< 0.5	< 2	0.10	1.0	41	106	>10000	4.33	10	< 1	0.23	20	0.04	15	2770
H 575130	299	229	5.2	0.74	202	10	< 0.5	< 2	0.08	0.5	30	73	>10000	3.26	< 10	< 1	0.21	20	0.03	10	4080
H 575131	299	229	3.0	0.90	1290	10	< 0.5	< 2	0.08	< 0.5	57	108	>10000	4.29	10	< 1	0.25	20	0.04	10	5360
H 575132	299	229	1.2	1.09	406	10	< 0.5	< 2	0.08	< 0.5	52	81	5220	5.01	< 10	< 1	0.22	10	0.03	10	4790
H 575133	299	229	8.8	1.07	122	20	< 0.5	< 2	0.14	2.0	45	114	>10000	5.40	< 10	< 1	0.27	20	0.08	810	6350
H 575134	299	229	6.0	1.82	64	20	0.5	< 2	0.14	< 0.5	47	76	>10000	4.67	10	< 1	0.24	20	0.04	30	4640
H 575135	299	229	4.2	1.24	54	30	< 0.5	6	0.15	1.0	34	123	3350	4.09	< 10	< 1	0.31	20	0.07	290	5010
H 575136	299	229	2.6	0.69	44	80	< 0.5	< 2	0.16	< 0.5	25	110	1620	5.32	< 10	< 1	0.23	30	0.17	3200	3070
H 575137	299	229	6.2	1.60	80	30	< 0.5	2	0.11	0.5	44	119	7980	4.69	< 10	< 1	0.27	20	0.06	30	3540
H 575138	299	229	6.8	1.17	148	30	< 0.5	2	0.09	20.5	36	68	8220	4.54	< 10	< 1	0.24	10	0.04	15	2540
H 575139	299	229	0.8	0.65	70	40	< 0.5	< 2	0.19	< 0.5	27	28	1735	3.17	< 10	< 1	0.19	20	0.05	20	3160
H 575140	299	229	1.8	1.42	84	40	< 0.5	< 2	0.36	< 0.5	38	50	5870	3.81	10	< 1	0.22	30	0.07	25	3290
H 575141	299	229	1.6	1.18	30	10	< 0.5	2	0.13	< 0.5	46	48	3150	3.69	< 10	< 1	0.23	20	0.05	15	3670
H 575142	299	229	0.6	0.90	26	20	< 0.5	< 2	0.11	< 0.5	32	100	1585	3.07	< 10	< 1	0.29	20	0.04	15	2180
H 575143	299	229	1.2	0.78	20	40	< 0.5	< 2	0.09	< 0.5	28	68	2940	2.85	< 10	< 1	0.28	30	0.05	15	1695
H 575144	299	229	0.8	0.86	32	30	< 0.5	< 2	0.09	< 0.5	31	49	2760	2.80	< 10	< 1	0.17	20	0.03	10	3080
H 575145	299	229	1.0	1.36	72	30	< 0.5	< 2	0.13	< 0.5	62	63	4350	3.88	10	< 1	0.21	40	0.03	10	4560
H 575146	299	229	2.0	1.58	88	20	< 0.5	< 2	0.13	0.5	72	78	7150	4.64	< 10	< 1	0.19	30	0.04	150	3640
H 575147	299	229	1.8	1.15	62	30	< 0.5	< 2	0.13	< 0.5	59	67	7810	3.16	< 10	< 1	0.26	20	0.05	10	870
H 575148	299	229	3.0	0.69	26	40	< 0.5	< 2	0.10	< 0.5	48	43	>10000	2.90	< 10	< 1	0.15	20	0.03	10	583
H 575149	299	229	3.8	0.97	52	30	< 0.5	< 2	0.12	< 0.5	54	78	>10000	3.80	< 10	< 1	0.27	20	0.10	655	512
H 575150	299	229	2.8	0.45	36	70	< 0.5	< 2	0.17	< 0.5	48	43	7170	3.05	< 10	< 1	0.16	20	0.08	600	322
H 575151	299	229	1.8	0.88	36	70	< 0.5	< 2	0.19	0.5	48	73	4560	3.65	< 10	< 1	0.20	30	0.11	600	132
H 575152	299	229	1.2	0.64	14	80	< 0.5	< 2	0.41	< 0.5	41	66	2150	2.83	< 10	< 1	0.29	20	0.31	410	41
H 575153	299	229	1.2	1.33	26	40	0.5	< 2	0.48	< 0.5	37	90	2140	4.10	< 10	< 1	0.46	20	0.76	325	36
H 575154	299	229	1.4	1.25	18	30	< 0.5	< 2	1.01	< 0.5	40	146	2370	3.85	10	< 1	0.50	20	0.99	250	19
H 575155	299	229	1.4	1.29	24	120	0.5	2	0.41	< 0.5	29	99	2330	3.64	< 10	< 1	0.52	30	0.91	255	27
H 575156	299	229	5.0	0.74	44	20	< 0.5	< 2	0.47	< 0.5	55	120	>10000	7.45	< 10	< 1	0.21	40	0.31	625	36
H 575157	299	229	1.6	0.98	10	110	< 0.5	< 2	0.59	< 0.5	26	90	3890	3.15	< 10	< 1	0.38	30	0.74	400	53
H 575158	299	229	1.2	1.27	16	110	0.5	2	0.74	< 0.5	29	81	2310	2.82	< 10	< 1	0.52	30	0.92	160	20
H 575159	299	229	1.2	1.48	20	80	0.5	< 2	0.54	< 0.5	40	133	2280	3.51	10	< 1	0.59	30	0.99	170	99
H 575160	299	229	1.6	1.27	16	50	< 0.5	< 2	0.95	< 0.5	37	157	3550	2.88	10	< 1	0.64	30	1.08	150	41

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :7
Certificate Date: 01-SEP-93
Invoice No. :19319632
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H 575121	299	229	0.01	19	640	14	18	2	185	< 0.01	< 10	< 10	4	10	38
H 575122	299	229	0.01	28	1530	18	40	4	456	< 0.01	< 10	< 10	2	10	92
H 575123	299	229	0.01	18	1000	26	18	3	241	< 0.01	< 10	< 10	14	< 10	68
H 575124	299	229	0.01	14	600	18	16	1	187	< 0.01	< 10	< 10	< 1	< 10	28
H 575125	299	229	0.01	14	590	12	8	1	179	< 0.01	< 10	< 10	< 1	< 10	28
H 575126	299	229	0.01	17	680	14	28	2	211	< 0.01	< 10	< 10	< 1	10	56
H 575127	299	229	0.02	17	700	4	144	2	158	< 0.01	< 10	< 10	< 1	10	118
H 575128	299	229	0.01	15	510	10	100	1	135	< 0.01	< 10	< 10	< 1	10	98
H 575129	299	229	0.01	16	900	26	112	2	330	< 0.01	< 10	< 10	< 1	10	112
H 575130	299	229	0.01	14	640	8	62	1	229	< 0.01	< 10	< 10	< 1	10	56
H 575131	299	229	0.01	21	770	22	28	2	279	< 0.01	< 10	< 10	< 1	10	106
H 575132	299	229	0.01	21	810	2	16	2	172	< 0.01	< 10	< 10	< 1	10	38
H 575133	299	229	0.01	23	810	34	36	3	86	< 0.01	< 10	< 10	3	10	94
H 575134	299	229	0.01	21	1350	8	18	4	299	< 0.01	< 10	< 10	6	10	34
H 575135	299	229	0.01	16	830	22	24	2	87	< 0.01	< 10	< 10	4	10	56
H 575136	299	229	< 0.01	12	650	18	14	2	36	< 0.01	< 10	< 10	19	< 10	126
H 575137	299	229	0.01	23	840	66	20	3	165	< 0.01	< 10	< 10	11	< 10	106
H 575138	299	229	0.01	15	850	226	22	2	203	< 0.01	< 10	< 10	< 1	< 10	1780
H 575139	299	229	< 0.01	10	640	16	18	1	229	< 0.01	< 10	< 10	< 1	< 10	36
H 575140	299	229	0.01	12	1250	26	18	3	335	< 0.01	< 10	< 10	< 1	< 10	38
H 575141	299	229	0.01	17	860	6	12	2	158	< 0.01	< 10	< 10	< 1	< 10	26
H 575142	299	229	0.01	10	620	4	6	1	120	< 0.01	< 10	< 10	1	< 10	14
H 575143	299	229	0.01	10	630	8	6	1	153	< 0.01	< 10	< 10	< 1	< 10	16
H 575144	299	229	< 0.01	11	600	8	16	1	127	< 0.01	< 10	< 10	< 1	10	24
H 575145	299	229	0.01	18	980	76	24	2	241	< 0.01	< 10	< 10	< 1	10	36
H 575146	299	229	0.01	21	840	6	26	2	151	< 0.01	< 10	< 10	9	10	48
H 575147	299	229	0.01	14	990	12	12	2	279	< 0.01	< 10	< 10	7	< 10	32
H 575148	299	229	< 0.01	10	720	18	6	1	192	< 0.01	< 10	< 10	3	< 10	26
H 575149	299	229	0.01	15	590	12	12	2	44	< 0.01	< 10	< 10	14	< 10	44
H 575150	299	229	< 0.01	6	540	4	8	2	19	< 0.01	< 10	< 10	10	< 10	42
H 575151	299	229	< 0.01	8	720	18	16	2	24	< 0.01	< 10	< 10	16	< 10	60
H 575152	299	229	0.01	5	520	12	6	2	20	0.01	< 10	< 10	18	< 10	62
H 575153	299	229	0.02	7	490	8	4	7	22	0.03	< 10	< 10	48	< 10	36
H 575154	299	229	0.02	7	510	6	2	6	129	0.03	< 10	< 10	44	< 10	36
H 575155	299	229	0.02	6	540	6	2	8	59	0.04	< 10	< 10	57	< 10	36
H 575156	299	229	< 0.01	19	430	18	8	6	12	< 0.01	< 10	< 10	37	10	36
H 575157	299	229	0.01	6	470	6	2	6	25	0.02	< 10	< 10	40	< 10	32
H 575158	299	229	0.01	5	530	12	2	7	29	0.02	< 10	< 10	45	< 10	26
H 575159	299	229	0.01	6	490	8	< 2	7	42	0.03	< 10	< 10	51	< 10	28
H 575160	299	229	0.03	7	390	8	< 2	6	134	0.04	< 10	< 10	46	< 10	24

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 01-SEP-93
Invoice No. : I9319632
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H 575161	299	229	1.2	1.32	< 2	60	< 0.5	< 2	0.76	< 0.5	32	113	3010	2.43	10	< 1	0.62	20	0.83	205	48
H 575162	299	229	1.8	0.89	2	30	< 0.5	< 2	0.63	< 0.5	51	86	3620	3.52	< 10	< 1	0.37	20	0.35	335	41
H 575163	299	229	1.4	0.99	< 2	70	< 0.5	< 2	0.89	< 0.5	36	107	3030	3.15	< 10	< 1	0.40	30	0.70	420	22
H 575164	299	229	1.4	1.04	2	70	< 0.5	< 2	0.80	< 0.5	43	93	2690	3.47	< 10	< 1	0.52	30	0.76	230	72
H 575165	299	229	0.8	1.38	< 2	80	< 0.5	< 2	0.71	< 0.5	38	117	2100	3.63	10	< 1	0.62	30	1.00	185	19
H 575166	299	229	0.6	1.42	< 2	70	< 0.5	4	0.74	< 0.5	47	95	2160	3.56	10	< 1	0.53	20	1.09	140	19
H 575167	299	229	1.0	1.19	2	60	0.5	2	0.72	< 0.5	40	123	2700	3.29	10	< 1	0.43	30	0.87	240	206
H 575168	299	229	1.2	0.89	< 2	30	< 0.5	< 2	0.77	< 0.5	59	104	2930	3.62	< 10	< 1	0.41	20	0.56	300	95
H 575169	299	229	0.4	0.98	2	30	< 0.5	< 2	0.87	< 0.5	49	146	963	3.59	< 10	< 1	0.31	30	0.63	230	65
H 575170	299	229	1.4	0.76	4	60	< 0.5	2	1.01	< 0.5	30	101	1845	2.97	< 10	< 1	0.30	20	0.67	315	21
H 575171	299	229	1.6	1.52	< 2	120	0.5	< 2	0.63	< 0.5	23	146	2990	2.55	10	< 1	0.46	30	0.78	215	79
H 575172	299	229	1.2	1.30	< 2	120	0.5	< 2	0.54	< 0.5	20	101	2150	3.25	10	< 1	0.37	30	0.86	280	50
H 575173	299	229	3.8	1.50	4	80	0.5	< 2	0.47	< 0.5	30	127	7090	3.42	10	< 1	0.49	40	0.55	435	120
H 575174	299	229	1.0	1.38	12	60	0.5	< 2	0.80	< 0.5	24	93	1820	3.46	10	1	0.43	30	0.75	365	96
H 575175	299	229	1.6	1.42	6	50	< 0.5	2	0.95	< 0.5	31	139	2930	4.18	10	< 1	0.45	30	0.73	210	153
H 575176	299	229	1.2	1.66	20	150	0.5	< 2	1.10	< 0.5	20	103	2430	2.83	10	< 1	0.54	30	0.92	195	34
H 575177	299	229	1.8	1.21	8	70	< 0.5	2	1.05	< 0.5	24	131	3050	3.58	< 10	< 1	0.40	30	0.60	185	43
H 575178	299	229	1.6	0.85	14	60	< 0.5	< 2	2.26	< 0.5	26	122	3290	3.87	< 10	< 1	0.33	20	0.94	695	79
H 575179	299	229	1.6	0.90	8	80	< 0.5	< 2	1.45	< 0.5	18	102	2660	2.24	< 10	< 1	0.31	30	0.78	280	71
H 575180	299	229	1.4	1.08	6	40	< 0.5	< 2	1.00	< 0.5	29	120	3120	2.83	< 10	< 1	0.53	20	0.85	175	76
H 575181	299	229	1.2	1.30	4	100	0.5	< 2	1.12	< 0.5	25	73	2050	2.73	10	< 1	0.52	30	0.94	255	32
H 575182	299	229	5.6	0.89	342	40	0.5	< 2	1.86	6.0	21	94	1180	2.92	< 10	1	0.34	20	0.90	2190	24
H 575183	299	229	5.8	0.54	94	40	< 0.5	2	1.67	2.0	21	84	2820	2.09	< 10	< 1	0.22	20	0.62	1005	211
H 575184	299	229	31.0	0.65	430	30	< 0.5	< 2	1.19	31.5	19	124	3300	2.88	< 10	1	0.28	20	0.52	1615	187
H 575185	299	229	1.2	1.11	22	120	0.5	< 2	1.36	< 0.5	22	92	1315	2.54	< 10	< 1	0.34	30	0.74	615	41
H 575186	299	229	1.8	0.98	16	20	< 0.5	2	1.27	< 0.5	20	147	1600	5.10	< 10	< 1	0.48	20	0.80	185	58
H 575187	299	229	1.6	1.12	18	40	< 0.5	4	1.21	< 0.5	24	97	2230	4.50	< 10	< 1	0.50	20	0.81	230	46
H 575188	299	229	2.4	0.98	< 2	30	< 0.5	2	1.20	< 0.5	26	121	4240	3.05	< 10	< 1	0.26	20	0.42	540	62
H 575189	299	229	1.6	0.94	< 2	90	< 0.5	< 2	1.08	< 0.5	24	104	2310	2.74	< 10	< 1	0.34	30	0.60	280	76
H 575190	299	229	1.6	1.11	4	100	< 0.5	< 2	1.84	< 0.5	30	103	2850	2.81	< 10	< 1	0.41	30	1.04	180	49
H 575191	299	229	2.2	1.35	< 2	120	< 0.5	2	1.20	< 0.5	20	99	4330	2.42	< 10	< 1	0.53	30	0.90	200	126
H 575192	299	229	1.2	0.87	< 2	130	< 0.5	2	0.75	< 0.5	19	103	2330	2.00	< 10	< 1	0.36	30	0.61	205	48
H 575193	299	229	0.8	1.61	< 2	150	0.5	< 2	0.50	< 0.5	22	123	2540	2.99	10	< 1	0.69	40	0.98	210	24
H 575194	299	229	0.8	1.43	8	180	0.5	2	0.77	< 0.5	23	79	1910	2.69	10	< 1	0.60	40	1.00	160	84
H 575195	299	229	1.2	1.49	6	110	0.5	2	0.78	< 0.5	24	90	2310	2.63	10	< 1	0.58	30	1.00	150	58
H 575196	299	229	1.4	1.60	6	100	0.5	< 2	0.72	< 0.5	21	80	2660	2.68	10	< 1	0.55	30	1.00	120	121
H 575197	299	229	0.6	1.62	8	310	0.5	< 2	0.72	< 0.5	17	111	1485	2.19	10	< 1	0.52	30	0.90	135	27
H 575198	299	229	1.2	1.58	10	170	< 0.5	< 2	0.98	< 0.5	19	115	2950	2.74	10	< 1	0.52	20	1.12	145	31
H 575199	299	229	0.8	1.74	2	170	< 0.5	< 2	0.96	< 0.5	23	83	2290	3.51	10	< 1	0.79	20	1.29	175	55
H 575200	299	229	0.8	1.45	6	210	< 0.5	< 2	0.87	< 0.5	23	112	1650	2.99	10	< 1	0.54	20	1.12	120	27

CERTIFICATION: Stewart Bichler

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Certificate Date: 01-SEP-93
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CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H 575161	299	229	0.02	6	440	10	2	6	144	0.03	< 10	< 10	39	< 10	20
H 575162	299	229	0.01	9	480	8	2	3	15	< 0.01	< 10	< 10	21	< 10	22
H 575163	299	229	0.01	6	560	8	4	5	17	0.02	< 10	< 10	35	< 10	26
H 575164	299	229	0.01	6	400	6	2	5	17	0.02	< 10	< 10	39	< 10	20
H 575165	299	229	0.01	6	470	8	2	6	22	0.04	< 10	< 10	48	< 10	24
H 575166	299	229	0.03	4	430	10	2	7	130	0.04	< 10	< 10	53	< 10	22
H 575167	299	229	0.02	8	480	6	2	5	42	0.01	< 10	< 10	36	< 10	22
H 575168	299	229	0.01	7	450	6	2	3	19	< 0.01	< 10	< 10	22	< 10	20
H 575169	299	229	0.01	7	460	12	2	3	26	< 0.01	< 10	< 10	21	< 10	18
H 575170	299	229	0.01	4	440	14	2	3	25	< 0.01	< 10	< 10	19	< 10	24
H 575171	299	229	0.01	7	500	8	2	7	30	0.01	< 10	< 10	42	< 10	22
H 575172	299	229	0.01	6	570	14	< 2	7	25	0.01	< 10	< 10	48	< 10	24
H 575173	299	229	0.01	9	650	12	2	7	17	0.01	< 10	< 10	37	< 10	20
H 575174	299	229	0.01	6	560	18	4	6	33	< 0.01	< 10	< 10	34	< 10	42
H 575175	299	229	0.01	8	610	16	2	5	30	0.01	< 10	< 10	36	< 10	20
H 575176	299	229	0.01	7	540	10	4	6	40	0.01	< 10	< 10	39	< 10	22
H 575177	299	229	0.01	7	580	14	2	4	20	< 0.01	< 10	< 10	27	< 10	18
H 575178	299	229	0.01	7	500	14	12	3	24	< 0.01	< 10	< 10	19	< 10	26
H 575179	299	229	0.01	4	510	6	8	5	30	< 0.01	< 10	< 10	24	< 10	26
H 575180	299	229	0.02	6	440	6	4	6	94	0.02	< 10	< 10	38	< 10	26
H 575181	299	229	0.03	4	460	6	6	8	213	0.06	< 10	< 10	53	< 10	26
H 575182	299	229	0.01	36	600	268	98	6	134	< 0.01	< 10	< 10	28	< 10	408
H 575183	299	229	< 0.01	7	520	272	96	4	20	< 0.01	< 10	< 10	19	< 10	150
H 575184	299	229	< 0.01	7	410	670	414	4	19	< 0.01	< 10	< 10	14	< 10	1755
H 575185	299	229	0.01	4	560	14	10	5	25	< 0.01	< 10	< 10	33	< 10	32
H 575186	299	229	0.01	6	430	18	4	3	35	< 0.01	< 10	< 10	23	10	28
H 575187	299	229	0.01	6	500	20	2	4	32	< 0.01	< 10	< 10	25	< 10	26
H 575188	299	229	< 0.01	7	480	14	2	5	16	< 0.01	< 10	< 10	23	< 10	22
H 575189	299	229	0.01	6	540	12	4	5	17	0.01	< 10	< 10	31	< 10	18
H 575190	299	229	0.01	7	530	14	6	7	23	0.02	< 10	< 10	42	< 10	16
H 575191	299	229	0.01	6	520	6	2	7	33	0.03	< 10	< 10	39	< 10	16
H 575192	299	229	0.01	5	520	4	< 2	8	23	0.03	< 10	< 10	42	< 10	18
H 575193	299	229	0.01	8	630	6	< 2	11	28	0.08	< 10	< 10	67	< 10	26
H 575194	299	229	0.01	5	530	4	2	9	38	0.06	< 10	< 10	59	< 10	22
H 575195	299	229	0.01	6	510	8	2	8	38	0.05	< 10	< 10	56	< 10	24
H 575196	299	229	0.02	6	490	2	2	7	101	0.04	< 10	< 10	54	< 10	18
H 575197	299	229	0.01	6	590	2	4	9	43	0.04	< 10	< 10	58	< 10	16
H 575198	299	229	0.04	8	500	4	2	8	206	0.05	< 10	< 10	64	< 10	20
H 575199	299	229	0.05	4	560	4	2	11	87	0.10	< 10	< 10	86	< 10	24
H 575200	299	229	0.04	6	470	2	< 2	8	143	0.10	< 10	< 10	69	< 10	22

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 01-SEP-93
Invoice No. :I9319632
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H 575201	299	229	1.6	1.50	2	100	< 0.5	< 2	0.91	< 0.5	27	125	2910	3.15	10	< 1	0.52	30	1.05	130	144
H 575202	299	229	0.6	1.79	4	140	< 0.5	< 2	0.85	< 0.5	21	104	1705	2.96	10	< 1	0.66	20	1.22	155	37
H 575203	299	229	0.8	2.03	< 2	180	0.5	< 2	0.74	< 0.5	17	146	1840	3.10	10	< 1	0.74	20	1.34	175	31
H 575204	299	229	1.6	2.21	2	210	0.5	< 2	0.80	< 0.5	14	125	2190	2.82	10	< 1	0.61	30	1.22	165	59
H 575205	299	229	0.8	1.33	< 2	190	0.5	< 2	0.72	< 0.5	17	67	1855	2.31	< 10	< 1	0.46	30	1.06	150	92
H 575206	299	229	1.8	1.52	6	130	0.5	< 2	0.71	< 0.5	16	126	3060	2.08	10	< 1	0.52	40	0.88	95	58
H 575207	299	229	2.2	1.50	6	130	< 0.5	< 2	0.72	< 0.5	17	84	4420	2.01	< 10	< 1	0.72	30	1.09	110	52
H 575208	299	229	2.2	2.06	8	150	0.5	< 2	0.67	< 0.5	18	130	3800	2.24	10	< 1	0.66	40	1.19	130	101
H 575209	299	229	3.8	1.64	8	90	< 0.5	< 2	0.68	< 0.5	19	111	6850	2.14	< 10	< 1	0.61	40	0.85	80	236
H 575210	299	229	3.0	2.10	6	120	0.5	< 2	0.79	< 0.5	19	112	4750	2.41	10	< 1	0.63	40	1.11	120	34
H 575211	299	229	2.8	2.05	6	90	0.5	< 2	0.80	< 0.5	24	108	5590	2.66	10	< 1	0.60	30	0.95	140	78
H 575212	299	229	1.2	2.12	< 2	260	0.5	< 2	0.73	< 0.5	16	100	1905	2.74	10	< 1	0.48	30	0.89	150	55
H 575213	299	229	2.2	1.47	2	150	< 0.5	< 2	0.88	< 0.5	19	83	4040	2.57	10	< 1	0.49	30	0.80	145	83
H 575214	299	229	1.2	1.71	4	190	< 0.5	< 2	0.92	< 0.5	16	77	2530	2.73	10	< 1	0.69	20	1.25	140	76
H 575215	299	229	0.8	1.72	4	240	< 0.5	< 2	0.73	< 0.5	16	92	1855	3.04	< 10	< 1	0.54	10	1.14	140	44
H 575216	299	229	1.6	1.51	8	90	< 0.5	< 2	1.20	< 0.5	18	120	2570	2.86	10	1	0.64	30	0.93	120	37
H 575217	299	229	0.8	1.76	< 2	180	0.5	< 2	0.79	< 0.5	16	113	2280	2.46	< 10	< 1	0.67	20	1.13	115	19
H 575218	299	229	2.0	1.53	2	120	< 0.5	< 2	0.70	< 0.5	18	116	4330	2.34	< 10	< 1	0.73	20	1.02	85	57
H 575219	299	229	1.2	1.54	2	110	0.5	< 2	0.65	< 0.5	20	103	2100	2.13	< 10	< 1	0.63	20	1.01	90	82
H 575220	299	229	1.2	1.49	6	140	< 0.5	< 2	0.61	< 0.5	22	113	2460	2.81	< 10	< 1	0.53	10	1.01	110	32
H 575221	299	229	1.4	1.58	4	140	< 0.5	< 2	0.86	< 0.5	21	102	2500	2.75	< 10	< 1	0.59	20	1.13	120	52
H 575222	299	229	1.4	1.37	6	60	< 0.5	< 2	0.88	< 0.5	17	117	2190	3.24	< 10	< 1	0.59	30	0.67	65	77
H 575223	299	229	0.6	1.56	< 2	120	0.5	2	1.22	< 0.5	15	108	1640	2.09	< 10	< 1	0.55	20	0.88	80	84
H 575224	299	229	0.6	1.49	4	160	< 0.5	2	0.90	< 0.5	13	97	1695	2.26	< 10	< 1	0.57	20	1.07	100	36
H 575225	299	229	0.6	1.62	2	220	< 0.5	< 2	0.87	< 0.5	14	97	1585	2.50	< 10	< 1	0.58	20	1.09	110	30
H 575226	299	229	1.0	1.44	6	190	< 0.5	< 2	1.09	< 0.5	17	100	2320	2.08	< 10	< 1	0.58	20	1.01	85	15
H 575227	299	229	0.2	1.57	12	260	< 0.5	< 2	1.20	< 0.5	10	92	825	2.76	< 10	< 1	0.65	20	1.12	115	17
H 575228	299	229	0.2	1.35	< 2	130	< 0.5	< 2	1.18	< 0.5	13	109	1010	3.45	< 10	< 1	0.62	10	0.97	115	30
H 575229	299	229	0.2	1.74	4	320	< 0.5	< 2	0.83	< 0.5	14	94	1090	3.30	< 10	< 1	0.83	10	1.13	105	12
H 575230	299	229	0.8	1.45	< 2	220	< 0.5	< 2	1.05	< 0.5	17	122	2180	2.50	< 10	< 1	0.67	40	0.90	105	59
H 575231	299	229	1.2	1.41	6	90	< 0.5	2	1.57	< 0.5	22	115	3020	2.63	10	< 1	0.66	50	0.76	120	45
H 575232	299	229	0.8	1.33	6	180	< 0.5	2	1.32	< 0.5	20	88	2170	2.82	10	< 1	0.53	40	0.89	125	51
H 575233	299	229	0.8	1.25	12	160	0.5	< 2	1.49	< 0.5	18	97	1980	2.51	< 10	< 1	0.43	30	0.69	100	140
H 575234	299	229	0.2	1.21	12	190	0.5	< 2	1.39	< 0.5	13	120	1150	2.46	< 10	< 1	0.39	30	0.70	110	16
H 575235	299	229	0.6	0.95	6	170	< 0.5	2	1.29	< 0.5	17	122	1855	1.98	< 10	< 1	0.40	20	0.57	85	15
H 575236	299	229	1.6	0.79	2	110	< 0.5	2	1.16	< 0.5	28	99	3580	2.89	< 10	< 1	0.43	30	0.50	70	81
H 575237	299	229	1.0	0.49	2	110	< 0.5	< 2	0.86	< 0.5	21	87	2130	1.39	< 10	< 1	0.26	20	0.28	45	34
H 575238	299	229	0.6	0.61	6	120	< 0.5	< 2	1.09	< 0.5	17	81	1505	1.39	< 10	< 1	0.33	20	0.39	50	67
H 575239	299	229	0.6	0.55	6	90	< 0.5	2	1.17	< 0.5	15	75	1715	1.34	< 10	< 1	0.32	20	0.34	40	111
H 575240	299	229	1.2	0.45	6	90	< 0.5	2	0.88	< 0.5	14	59	2030	1.06	< 10	< 1	0.27	10	0.26	35	39

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :5-A
Total Pages :7
Certificate Date: 01-SEP-93
Invoice No. :19319632
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H 575241	299	229	0.8	0.34	4	70	< 0.5	< 2	1.04	< 0.5	25	56	2190	1.27	< 10	< 1	0.18	10	0.09	30	253
H 575242	299	229	1.6	0.82	6	70	< 0.5	2	1.81	< 0.5	46	25	3510	2.50	< 10	< 1	0.45	20	0.47	75	107
H 575243	299	229	1.6	0.90	4	60	< 0.5	2	1.29	< 0.5	38	39	3650	2.72	< 10	< 1	0.51	20	0.74	65	110
H 575244	299	229	2.2	0.91	24	40	< 0.5	2	1.44	< 0.5	50	28	4530	3.62	< 10	< 1	0.49	20	0.82	75	75
H 575245	299	229	2.2	1.25	2	70	0.5	< 2	0.96	< 0.5	52	33	3530	4.10	< 10	< 1	0.83	30	0.99	110	55
H 575246	299	229	1.6	1.31	12	80	< 0.5	< 2	1.04	< 0.5	47	22	3610	3.30	< 10	< 1	0.89	20	1.09	110	82
H 575247	299	229	1.8	1.34	4	90	< 0.5	< 2	1.23	< 0.5	44	32	3990	3.36	< 10	< 1	0.98	20	1.19	140	128
H 575248	299	229	1.0	1.67	< 2	70	< 0.5	< 2	0.83	< 0.5	42	25	2690	4.68	< 10	< 1	0.97	30	1.19	150	43
H 575249	299	229	1.4	1.46	8	60	< 0.5	< 2	0.72	< 0.5	60	16	2960	3.92	< 10	< 1	0.94	20	1.16	105	115
H 575250	299	229	1.2	1.46	16	50	< 0.5	< 2	0.98	< 0.5	45	28	2620	3.73	< 10	< 1	0.95	30	1.12	115	35
H 575251	299	229	1.2	1.47	14	60	< 0.5	< 2	0.92	< 0.5	38	35	2450	3.54	< 10	< 1	0.86	30	1.05	105	59
H 575252	299	229	2.2	1.33	16	50	< 0.5	< 2	1.48	< 0.5	37	32	3440	3.76	< 10	< 1	0.84	40	1.00	105	149
H 575253	299	229	0.8	1.68	6	70	< 0.5	< 2	1.29	< 0.5	38	39	2120	4.00	< 10	< 1	0.95	30	1.16	125	25
H 575254	299	229	1.4	1.34	6	80	< 0.5	< 2	1.49	< 0.5	32	31	2150	3.06	< 10	< 1	0.79	30	0.94	110	108
H 575255	299	229	1.6	1.60	18	70	< 0.5	< 2	1.39	< 0.5	37	53	2350	3.42	< 10	< 1	1.01	30	1.21	125	115
H 575256	299	229	1.2	1.23	6	100	< 0.5	< 2	1.22	< 0.5	18	65	2520	1.92	< 10	< 1	0.67	30	0.97	90	32
H 575257	299	229	1.2	1.45	2	140	< 0.5	< 2	1.34	< 0.5	28	92	2530	2.17	< 10	< 1	0.69	40	0.99	100	40
H 575258	299	229	1.8	0.87	6	130	< 0.5	< 2	1.52	< 0.5	22	69	3600	1.77	< 10	< 1	0.40	30	0.52	80	100
H 575259	299	229	1.6	1.05	< 2	90	< 0.5	< 2	1.24	< 0.5	21	119	2330	1.53	< 10	< 1	0.56	30	0.77	85	76
H 575260	299	229	0.8	1.20	4	80	< 0.5	< 2	1.10	< 0.5	20	77	1735	1.59	< 10	< 1	0.65	30	0.82	85	60
H 575261	299	229	1.4	1.49	8	80	< 0.5	< 2	1.42	< 0.5	24	60	3950	2.06	< 10	< 1	1.00	30	1.26	100	50
H 575262	299	229	1.8	1.73	8	100	< 0.5	< 2	0.99	< 0.5	24	46	3560	2.67	< 10	< 1	1.16	20	1.42	115	24
H 575263	299	229	1.8	2.42	14	80	0.5	< 2	1.08	< 0.5	34	32	4120	3.98	< 10	< 1	1.71	30	1.91	145	51
H 575264	299	229	1.4	1.37	4	120	< 0.5	< 2	1.57	< 0.5	19	58	2600	2.03	< 10	< 1	0.88	20	1.13	95	105
H 575265	299	229	1.4	1.95	12	120	< 0.5	< 2	1.20	< 0.5	27	37	4050	2.98	< 10	< 1	1.41	40	1.53	130	57
H 575266	299	229	1.0	1.51	12	90	< 0.5	< 2	1.26	< 0.5	28	64	2330	2.59	< 10	< 1	1.02	40	1.26	140	81
H 575267	299	229	1.8	0.87	8	70	0.5	< 2	1.43	< 0.5	52	59	3820	2.45	< 10	< 1	0.51	30	0.69	80	52
H 575268	299	229	2.2	0.71	6	70	< 0.5	< 2	1.03	< 0.5	41	95	4940	2.12	< 10	< 1	0.47	20	0.64	80	66
H 575269	299	229	1.8	0.97	8	70	< 0.5	< 2	0.98	< 0.5	54	62	3380	2.49	< 10	< 1	0.57	40	0.84	110	73
H 575270	299	229	2.0	1.05	12	80	< 0.5	< 2	1.47	< 0.5	33	103	3060	2.49	< 10	< 1	0.50	20	0.73	115	218
H 575271	299	229	1.8	1.11	8	70	< 0.5	< 2	1.33	< 0.5	46	62	3740	2.90	< 10	< 1	0.48	30	0.78	120	77
H 575272	299	229	1.2	1.28	4	140	< 0.5	< 2	1.33	< 0.5	22	90	2260	2.35	< 10	< 1	0.58	20	0.94	105	32
H 575273	299	229	1.6	1.24	18	90	< 0.5	< 2	1.42	< 0.5	24	58	2650	2.87	< 10	< 1	0.58	20	0.89	125	37
H 575274	299	229	2.0	1.17	12	80	< 0.5	< 2	1.54	< 0.5	29	74	3410	2.69	< 10	< 1	0.55	30	0.82	95	51
H 575275	299	229	1.2	1.03	6	80	< 0.5	< 2	1.50	< 0.5	27	57	2390	2.59	< 10	< 1	0.54	30	0.81	95	47
H 575276	299	229	2.4	0.68	28	70	< 0.5	< 2	1.58	< 0.5	34	87	3150	3.07	< 10	< 1	0.35	20	0.81	150	21
H 575277	299	229	2.6	0.67	18	110	< 0.5	4	1.91	< 0.5	28	53	2320	2.32	< 10	< 1	0.33	30	0.68	175	25
H 575278	299	229	1.8	0.92	8	70	< 0.5	2	1.30	< 0.5	33	86	1840	2.63	< 10	< 1	0.50	20	0.77	160	33
H 575279	299	229	3.0	0.78	8	80	< 0.5	< 2	1.59	< 0.5	31	77	3370	2.36	< 10	< 1	0.45	20	0.77	165	20
H 575280	299	229	1.2	1.12	4	150	< 0.5	< 2	1.22	< 0.5	31	110	2150	2.25	< 10	< 1	0.59	40	0.86	125	36

CERTIFICATION:

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Page Number :5-B
Total Pages :7
Certificate Date: 01-SEP-93
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CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H 575241	299	229	0.02	3	120	2	2	< 1	24	< 0.01	< 10	< 10	4	< 10	12
H 575242	299	229	0.03	3	280	2	2	3	38	0.03	< 10	< 10	30	< 10	14
H 575243	299	229	0.02	3	310	6	< 2	3	63	0.03	< 10	< 10	29	< 10	16
H 575244	299	229	0.02	4	300	4	2	3	42	0.02	< 10	< 10	35	< 10	14
H 575245	299	229	0.03	4	410	10	< 2	7	70	0.08	< 10	< 10	66	< 10	20
H 575246	299	229	0.03	5	400	4	2	8	67	0.09	< 10	< 10	68	< 10	20
H 575247	299	229	0.03	6	480	8	< 2	7	35	0.09	< 10	< 10	50	< 10	22
H 575248	299	229	0.04	4	490	6	2	10	20	0.13	< 10	< 10	83	< 10	24
H 575249	299	229	0.02	5	450	2	< 2	8	16	0.11	< 10	< 10	67	< 10	22
H 575250	299	229	0.03	6	440	6	2	9	31	0.11	< 10	< 10	62	< 10	22
H 575251	299	229	0.04	4	370	4	2	7	53	0.09	< 10	< 10	66	< 10	20
H 575252	299	229	0.04	6	440	12	2	7	72	0.08	< 10	< 10	56	< 10	22
H 575253	299	229	0.05	3	480	4	2	9	56	0.11	< 10	< 10	71	< 10	26
H 575254	299	229	0.03	4	470	6	2	7	43	0.07	< 10	< 10	54	< 10	20
H 575255	299	229	0.04	4	510	2	2	9	132	0.11	< 10	< 10	85	< 10	22
H 575256	299	229	0.04	5	430	4	2	8	75	0.07	< 10	< 10	64	< 10	18
H 575257	299	229	0.03	4	490	6	< 2	7	80	0.06	< 10	< 10	52	< 10	20
H 575258	299	229	0.01	4	340	8	2	4	70	0.02	< 10	< 10	29	< 10	18
H 575259	299	229	0.03	5	350	6	< 2	6	65	0.04	< 10	< 10	44	< 10	18
H 575260	299	229	0.03	3	390	2	< 2	6	54	0.06	< 10	< 10	47	< 10	20
H 575261	299	229	0.03	5	510	4	< 2	8	89	0.10	< 10	< 10	65	< 10	28
H 575262	299	229	0.04	6	580	4	< 2	10	52	0.13	< 10	< 10	72	< 10	28
H 575263	299	229	0.04	7	720	6	2	15	62	0.21	< 10	< 10	103	10	36
H 575264	299	229	0.02	4	450	6	< 2	8	85	0.09	< 10	< 10	62	< 10	26
H 575265	299	229	0.03	6	660	2	< 2	11	88	0.16	< 10	< 10	81	< 10	32
H 575266	299	229	0.02	6	510	2	2	9	112	0.11	< 10	< 10	62	< 10	38
H 575267	299	229	0.01	5	340	6	< 2	3	152	0.03	< 10	< 10	31	< 10	24
H 575268	299	229	0.01	6	370	6	< 2	3	67	0.03	< 10	< 10	31	< 10	22
H 575269	299	229	0.02	6	340	4	2	6	67	0.06	< 10	< 10	51	< 10	34
H 575270	299	229	0.02	5	340	8	2	4	134	0.03	< 10	< 10	41	< 10	32
H 575271	299	229	0.02	4	320	6	2	5	81	0.04	< 10	< 10	49	< 10	32
H 575272	299	229	0.03	4	390	2	2	7	73	0.07	< 10	< 10	59	< 10	24
H 575273	299	229	0.02	4	390	6	2	6	76	0.06	< 10	< 10	53	10	26
H 575274	299	229	0.02	6	360	4	2	6	82	0.04	< 10	< 10	52	< 10	20
H 575275	299	229	0.03	4	440	10	< 2	7	100	0.06	< 10	< 10	50	< 10	20
H 575276	299	229	0.01	6	420	12	2	4	131	0.01	< 10	< 10	29	< 10	24
H 575277	299	229	0.01	5	400	8	2	7	125	0.01	< 10	< 10	33	< 10	36
H 575278	299	229	0.02	5	400	10	2	6	67	0.03	< 10	< 10	42	< 10	52
H 575279	299	229	0.01	5	400	12	2	7	74	0.02	< 10	< 10	44	< 10	36
H 575280	299	229	0.03	6	410	4	< 2	7	48	0.04	< 10	< 10	57	< 10	26

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 01-SEP-93
Invoice No. :19319632
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H 575281	299	229	0.8	1.42	< 2	230	< 0.5	< 2	1.02	< 0.5	24	71	1780	2.55	< 10	< 1	0.78	10	1.04	105	21
H 575282	299	229	1.0	1.21	< 2	170	0.5	< 2	1.25	< 0.5	16	86	2270	2.01	< 10	< 1	0.67	10	0.94	90	36
H 575283	299	229	1.8	1.08	< 2	100	0.5	< 2	1.30	< 0.5	40	60	3470	2.45	< 10	< 1	0.58	10	0.84	95	40
H 575284	299	229	1.2	1.15	< 2	210	0.5	< 2	1.62	< 0.5	25	96	2410	2.09	< 10	< 1	0.67	30	0.92	110	36
H 575285	299	229	1.2	1.16	2	230	0.5	< 2	1.47	< 0.5	29	63	2140	2.48	10	< 1	0.49	40	0.74	115	42
H 575286	299	229	1.8	0.65	28	160	0.5	< 2	1.72	< 0.5	24	91	2660	1.97	< 10	< 1	0.20	20	0.56	150	74
H 575287	299	229	2.2	0.42	104	130	< 0.5	4	1.98	< 0.5	24	60	2870	2.10	< 10	< 1	0.13	20	0.68	230	152
H 575288	299	229	1.8	0.56	294	110	< 0.5	< 2	2.73	0.5	30	66	3170	2.49	< 10	< 1	0.15	10	1.02	450	28
H 575289	299	229	2.2	0.57	448	120	< 0.5	2	4.52	1.0	16	45	3440	1.89	< 10	< 1	0.12	< 10	0.20	400	78
H 575290	299	229	2.4	0.34	358	330	< 0.5	< 2	5.34	4.0	18	84	1425	2.48	< 10	< 1	0.16	< 10	1.35	2110	45
H 575291	299	229	2.4	0.42	436	110	< 0.5	< 2	1.88	< 0.5	26	56	3000	2.44	< 10	< 1	0.21	< 10	0.73	425	41
H 575292	299	229	2.8	0.47	394	130	< 0.5	< 2	2.44	3.0	23	77	2140	2.35	< 10	< 1	0.17	< 10	0.92	915	82
H 575293	299	229	1.6	0.72	98	60	0.5	< 2	2.28	< 0.5	30	39	1665	2.42	< 10	< 1	0.13	< 10	0.96	325	28
H 575294	299	229	2.0	0.69	274	90	< 0.5	< 2	2.07	< 0.5	23	63	1820	2.96	< 10	< 1	0.27	< 10	0.85	345	55
H 575295	299	229	2.0	0.46	298	80	< 0.5	6	2.05	1.0	26	60	1515	2.31	< 10	< 1	0.17	10	0.85	305	45
H 575296	299	229	2.0	0.46	158	90	< 0.5	< 2	2.34	< 0.5	47	90	2320	2.89	< 10	< 1	0.14	10	0.94	240	89
H 575297	299	229	1.8	0.48	60	100	0.5	< 2	1.96	< 0.5	55	56	2180	3.07	< 10	< 1	0.19	10	0.83	225	96
H 575298	299	229	2.0	0.67	52	70	0.5	6	1.33	< 0.5	49	87	2830	2.72	< 10	< 1	0.32	10	0.64	165	45
H 575299	299	229	2.0	0.51	68	90	< 0.5	4	1.77	< 0.5	39	54	2800	2.64	< 10	< 1	0.19	10	0.76	195	65
H 575300	299	229	1.2	0.58	20	130	< 0.5	4	1.77	< 0.5	26	78	1940	1.92	< 10	< 1	0.19	20	0.68	160	87
H 575301	299	229	0.8	1.34	6	140	0.5	< 2	1.30	< 0.5	36	72	1810	2.86	< 10	< 1	0.63	10	1.01	140	24
H 575302	299	229	0.6	1.02	14	210	0.5	< 2	1.37	< 0.5	26	89	1850	2.15	< 10	< 1	0.54	10	0.82	120	37
H 575303	299	229	0.8	1.02	4	110	0.5	2	1.82	< 0.5	50	57	1525	2.96	< 10	< 1	0.43	20	0.82	115	31
H 575304	299	229	0.8	1.30	8	100	0.5	< 2	1.52	< 0.5	49	96	1650	2.94	< 10	< 1	0.63	20	0.88	130	32
H 575305	299	229	1.8	1.55	< 2	130	0.5	< 2	1.80	< 0.5	46	69	3030	2.87	10	< 1	0.67	20	0.95	150	63
H 575306	299	229	2.0	1.23	< 2	110	0.5	2	1.43	< 0.5	30	87	2540	2.78	< 10	< 1	0.71	20	0.92	145	41
H 575307	299	229	1.4	0.93	2	60	0.5	6	1.47	< 0.5	48	67	1640	3.36	< 10	< 1	0.46	10	0.81	120	27
H 575308	299	229	0.8	1.32	4	80	0.5	< 2	1.77	< 0.5	35	83	976	3.14	< 10	< 1	0.70	20	1.15	130	35
H 575309	299	229	1.6	0.85	< 2	80	0.5	2	1.47	< 0.5	54	62	2270	2.92	< 10	< 1	0.57	10	0.81	95	33
H 575310	299	229	2.2	1.08	2	70	0.5	6	1.80	< 0.5	68	85	3030	3.82	< 10	< 1	0.57	10	0.80	335	184
H 575311	299	229	0.8	1.32	< 2	90	< 0.5	2	0.84	< 0.5	43	53	1715	3.80	< 10	< 1	0.65	10	0.97	140	28
H 575312	299	229	0.8	1.13	< 2	90	< 0.5	2	1.01	< 0.5	48	85	1715	3.12	< 10	< 1	0.74	20	0.87	130	51
H 575313	299	229	3.0	1.17	< 2	90	0.5	< 2	1.51	< 0.5	39	65	3550	3.45	< 10	< 1	0.58	20	0.78	130	35
H 575314	299	229	1.2	1.44	< 2	220	0.5	< 2	1.55	< 0.5	28	107	1645	2.65	< 10	< 1	0.64	20	0.91	125	19
H 575315	299	229	2.0	1.32	< 2	90	0.5	4	1.63	< 0.5	47	69	2600	2.90	10	< 1	0.52	30	0.88	125	25
H 575316	299	229	1.4	1.26	< 2	80	0.5	< 2	1.79	< 0.5	44	92	2400	2.94	10	< 1	0.50	30	0.89	150	14
H 575317	299	229	1.4	0.90	30	90	0.5	< 2	1.94	< 0.5	42	58	1775	2.75	< 10	< 1	0.40	20	0.80	730	16
H 575318	299	229	4.8	0.87	80	50	0.5	4	2.19	1.5	61	79	3100	3.55	< 10	< 1	0.28	10	0.65	265	64
H 575319	299	229	3.0	0.81	138	80	0.5	6	1.78	0.5	94	52	2480	3.73	< 10	< 1	0.31	< 10	0.85	335	25
H 575320	299	229	1.4	1.04	6	100	0.5	< 2	1.62	< 0.5	62	90	1520	2.99	< 10	< 1	0.48	20	0.71	175	59

CERTIFICATION: _____

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :6-B
Total Pages :7
Certificate Date: 01-SEP-93
Invoice No. :I9319632
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CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H 575281	299	229	0.04	4	440	4	< 2	9	44	0.09	< 10	< 10	74	10	20
H 575282	299	229	0.04	5	410	2	4	8	64	0.08	< 10	< 10	64	< 10	18
H 575283	299	229	0.03	4	410	< 2	2	7	74	0.05	< 10	< 10	55	< 10	18
H 575284	299	229	0.04	6	400	< 2	< 2	9	93	0.08	< 10	< 10	65	< 10	20
H 575285	299	229	0.01	4	420	6	4	8	66	0.04	< 10	< 10	51	< 10	18
H 575286	299	229	< 0.01	7	420	6	8	6	34	< 0.01	< 10	< 10	30	< 10	16
H 575287	299	229	< 0.01	6	400	6	28	4	20	< 0.01	< 10	< 10	18	< 10	22
H 575288	299	229	< 0.01	3	360	8	66	6	32	< 0.01	< 10	< 10	24	< 10	68
H 575289	299	229	< 0.01	4	210	18	134	4	40	< 0.01	< 10	< 10	17	< 10	138
H 575290	299	229	< 0.01	4	190	14	110	3	39	< 0.01	< 10	10	13	10	172
H 575291	299	229	< 0.01	6	410	14	54	2	28	< 0.01	< 10	< 10	10	< 10	80
H 575292	299	229	< 0.01	5	240	12	122	4	37	< 0.01	< 10	10	14	< 10	164
H 575293	299	229	0.01	4	380	28	20	7	30	< 0.01	< 10	< 10	27	< 10	44
H 575294	299	229	0.01	4	360	24	12	3	62	< 0.01	< 10	< 10	16	< 10	48
H 575295	299	229	< 0.01	4	320	94	58	3	44	< 0.01	< 10	< 10	14	< 10	92
H 575296	299	229	< 0.01	6	340	16	22	3	44	< 0.01	< 10	10	14	< 10	48
H 575297	299	229	0.01	4	340	22	12	4	34	< 0.01	< 10	< 10	21	< 10	32
H 575298	299	229	0.01	6	270	16	4	4	50	< 0.01	< 10	< 10	24	< 10	24
H 575299	299	229	< 0.01	5	340	20	12	4	24	< 0.01	< 10	< 10	19	< 10	46
H 575300	299	229	< 0.01	5	340	4	6	6	18	< 0.01	< 10	< 10	29	< 10	18
H 575301	299	229	0.01	5	470	8	2	9	35	0.04	< 10	< 10	59	< 10	22
H 575302	299	229	0.02	3	290	4	4	7	73	0.04	< 10	10	45	< 10	18
H 575303	299	229	0.01	4	490	8	2	8	44	0.03	< 10	< 10	47	< 10	16
H 575304	299	229	0.02	4	500	8	4	8	89	0.05	< 10	< 10	56	< 10	22
H 575305	299	229	0.02	7	440	12	2	8	154	0.06	< 10	< 10	59	< 10	22
H 575306	299	229	0.03	7	420	12	6	8	77	0.06	< 10	10	58	< 10	24
H 575307	299	229	0.01	4	470	10	4	7	38	0.01	< 10	< 10	44	< 10	16
H 575308	299	229	0.02	4	560	4	4	10	58	0.04	< 10	< 10	64	< 10	16
H 575309	299	229	0.02	6	440	4	4	6	102	0.04	< 10	< 10	50	< 10	16
H 575310	299	229	0.02	8	450	16	2	6	89	0.04	< 10	< 10	50	< 10	20
H 575311	299	229	0.03	4	480	10	2	8	23	0.07	< 10	< 10	71	< 10	18
H 575312	299	229	0.03	5	430	8	2	9	67	0.08	< 10	< 10	73	< 10	20
H 575313	299	229	0.03	8	480	10	4	7	50	0.05	< 10	< 10	56	< 10	20
H 575314	299	229	0.04	4	480	14	< 2	9	105	0.07	< 10	< 10	65	< 10	16
H 575315	299	229	0.03	4	510	4	2	8	95	0.03	< 10	< 10	57	< 10	18
H 575316	299	229	0.03	5	470	2	< 2	7	98	0.03	< 10	< 10	48	< 10	16
H 575317	299	229	0.02	2	430	2	4	6	72	0.02	< 10	< 10	39	< 10	20
H 575318	299	229	0.01	8	360	232	52	6	69	< 0.01	< 10	< 10	32	< 10	100
H 575319	299	229	0.01	4	310	42	72	8	31	0.01	< 10	< 10	33	< 10	94
H 575320	299	229	0.02	5	420	8	2	7	65	0.02	< 10	< 10	43	< 10	18

CERTIFICATION: Hart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-185
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 01-SEP-93
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CERTIFICATE OF ANALYSIS A9319632

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H 575321	299	229	1.4	0.56	8	150	< 0.5	< 2	0.74	< 0.5	18	160	1355	1.07	< 10	< 1	0.28	< 10	0.21	45	49
H 575322	299	229	2.6	0.48	48	220	< 0.5	< 2	1.23	< 0.5	32	107	3000	1.69	< 10	< 1	0.25	10	0.52	70	72
H 575323	299	229	1.2	0.70	26	240	< 0.5	< 2	1.29	< 0.5	34	185	1630	1.60	< 10	< 1	0.24	10	0.46	75	28
H 575324	299	229	2.0	1.14	8	200	< 0.5	< 2	1.50	< 0.5	40	128	3370	2.37	10	< 1	0.39	20	0.69	120	43
H 575325	299	229	2.8	1.13	12	170	< 0.5	< 2	1.42	< 0.5	31	150	2380	2.15	< 10	< 1	0.54	20	0.71	115	44
H 575326	299	229	1.2	1.21	< 2	190	< 0.5	< 2	1.48	< 0.5	22	128	1355	1.93	10	< 1	0.68	20	0.84	125	45
H 575327	299	229	1.6	1.03	8	280	< 0.5	< 2	1.69	< 0.5	26	174	2300	1.83	< 10	< 1	0.32	30	0.59	120	89
H 575328	299	229	1.2	1.18	< 2	120	< 0.5	< 2	2.01	< 0.5	45	117	1685	2.57	10	< 1	0.52	20	0.82	145	44
H 575329	299	229	0.8	1.47	< 2	170	< 0.5	< 2	1.19	< 0.5	34	146	1300	2.70	< 10	< 1	0.70	10	1.11	135	17
H 575330	299	229	1.0	1.25	4	210	< 0.5	< 2	1.68	< 0.5	25	118	1360	2.30	10	< 1	0.54	20	0.79	115	49
H 575331	299	229	1.2	1.23	< 2	190	< 0.5	< 2	1.78	< 0.5	25	135	1180	2.30	10	< 1	0.51	20	0.84	130	106
H 575332	299	229	0.6	1.34	< 2	170	< 0.5	< 2	1.31	< 0.5	25	117	1335	2.36	10	< 1	0.50	20	0.90	125	17
H 575333	299	229	0.6	1.09	< 2	120	< 0.5	< 2	1.19	< 0.5	22	70	542	2.37	10	< 1	0.47	20	0.76	120	18
H 575334	299	229	0.8	1.26	< 2	90	< 0.5	< 2	1.44	< 0.5	28	70	864	2.55	10	< 1	0.59	30	0.82	130	25
H 575335	299	229	0.6	1.34	< 2	100	< 0.5	< 2	1.04	< 0.5	41	79	987	2.52	10	< 1	0.57	10	0.92	110	38
H 575336	299	229	1.8	1.06	6	110	< 0.5	< 2	1.01	< 0.5	71	73	2690	3.38	10	< 1	0.50	20	0.78	110	40
H 575337	299	229	0.4	1.14	6	160	< 0.5	< 2	1.32	< 0.5	35	73	748	2.27	10	< 1	0.58	20	0.87	105	35
H 575338	299	229	0.4	1.28	< 2	140	< 0.5	< 2	1.09	< 0.5	43	62	581	2.50	< 10	< 1	0.51	10	0.90	90	13
H 575339	299	229	1.2	1.06	< 2	70	< 0.5	< 2	1.12	< 0.5	57	59	1810	2.77	10	< 1	0.47	40	0.72	90	44
H 575340	299	229	0.8	1.22	2	140	< 0.5	< 2	1.30	< 0.5	51	50	1060	2.93	10	< 1	0.41	40	0.77	100	60
H 575341	299	229	1.8	0.95	< 2	80	< 0.5	< 2	1.31	< 0.5	59	63	2200	2.96	10	< 1	0.38	40	0.64	90	52
H 575342	299	229	2.0	1.27	2	120	< 0.5	< 2	1.97	< 0.5	31	119	1985	2.34	10	< 1	0.50	30	0.61	105	32
H 575343	299	229	2.6	1.04	< 2	90	< 0.5	< 2	0.97	< 0.5	34	92	2060	2.50	10	< 1	0.45	40	0.76	110	76

CERTIFICATION: Ian Hutcheon

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H 575321	299	229	0.01	3	100	2	< 2	< 1	33	< 0.01	< 10	< 10	4	< 10	8
H 575322	299	229	0.01	7	240	8	2	2	39	< 0.01	< 10	10	14	< 10	16
H 575323	299	229	0.01	4	200	6	2	3	42	< 0.01	< 10	< 10	17	< 10	16
H 575324	299	229	0.02	5	420	8	2	8	55	0.02	< 10	< 10	45	< 10	18
H 575325	299	229	0.04	5	430	6	2	8	73	0.05	< 10	< 10	49	< 10	32
H 575326	299	229	0.06	5	430	16	2	9	93	0.07	< 10	10	62	< 10	28
H 575327	299	229	0.01	6	430	18	4	8	52	< 0.01	< 10	< 10	38	< 10	26
H 575328	299	229	0.06	6	440	16	2	8	177	0.06	< 10	< 10	56	< 10	26
H 575329	299	229	0.08	6	460	12	4	9	57	0.10	< 10	< 10	74	< 10	22
H 575330	299	229	0.03	6	520	16	2	9	102	0.05	< 10	< 10	57	< 10	16
H 575331	299	229	0.05	6	430	4	4	8	105	0.04	< 10	< 10	57	< 10	16
H 575332	299	229	0.05	5	450	8	2	8	46	0.04	< 10	< 10	59	< 10	18
H 575333	299	229	0.03	2	390	8	< 2	7	61	0.04	< 10	< 10	52	< 10	16
H 575334	299	229	0.04	3	440	4	2	9	53	0.07	< 10	< 10	64	< 10	16
H 575335	299	229	0.04	4	400	14	2	8	32	0.05	< 10	< 10	61	< 10	18
H 575336	299	229	0.02	6	470	< 2	2	7	36	0.04	< 10	< 10	52	340	16
H 575337	299	229	0.04	3	420	4	< 2	9	68	0.06	< 10	< 10	61	< 10	14
H 575338	299	229	0.03	4	440	10	4	7	46	0.04	< 10	< 10	55	< 10	8
H 575339	299	229	0.02	6	400	12	2	6	44	0.03	< 10	< 10	45	< 10	8
H 575340	299	229	0.02	4	470	2	2	7	48	0.03	< 10	< 10	51	< 10	12
H 575341	299	229	0.02	6	420	8	4	5	28	0.02	< 10	< 10	43	< 10	10
H 575342	299	229	0.03	5	460	8	< 2	6	44	0.02	< 10	< 10	43	< 10	12
H 575343	299	229	0.03	5	390	6	< 2	7	44	0.03	< 10	10	52	< 10	16

CERTIFICATION: Ian Whittaker

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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 06-SEP-93
Invoice No. :19320012
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320012

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
573767H	208 274	0.10	0.006	0.10	4220
573768H	208 274	0.07	0.010	0.07	5460
573769H	208 274	0.18	0.006	0.14	6940
573770H	208 274	0.29	0.008	0.14	3000
573771H	208 276	0.19	0.017	0.07	7880
573772H	208 274	0.26	0.018	0.14	6560
573773H	208 276	0.25	0.010	0.10	10280
573774H	208 276	0.56	0.014	0.24	10660
573775H	208 276	0.35	0.016	0.10	9480
573776H	208 276	0.16	0.002	0.07	9680
573777H	208 276	0.09	0.003	< 0.03	9140
573778H	208 274	0.11	0.002	0.07	5000
573779H	208 276	0.24	0.004	0.27	9800
573780H	208 276	0.20	0.003	0.21	9180
573781H	208 274	0.24	0.005	0.21	6200
573782H	208 274	0.10	0.003	0.07	6800
573783H	208 276	0.08	0.002	0.07	11260
573784H	208 274	0.11	0.001	0.07	6760
573785H	208 273	0.06	0.001	0.03	11920
573786H	208 276	0.06	0.004	< 0.03	8640
573787H	208 276	0.16	0.003	0.21	8880
573788H	208 273	0.23	0.005	0.17	13600
573789H	208 276	0.12	0.002	0.10	11760
573790H	208 273	0.11	0.001	0.14	12420
573791H	208 276	0.11	0.004	0.10	8840
573792H	208 274	0.14	0.003	0.14	6580
573793H	208 274	0.10	0.004	0.07	6940
573794H	208 273	0.06	0.001	0.03	11940
573795H	208 276	0.25	0.006	0.14	11180
573796H	208 276	0.11	0.005	0.07	11780
573797H	208 273	0.14	0.002	0.10	12300
573798H	208 276	0.09	0.001	0.03	10020
573799H	208 276	0.12	0.006	0.07	9480
573800H	208 273	0.12	0.015	0.10	12100
573801H	208 273	0.16	0.021	0.14	12200
573802H	208 273	0.13	0.018	0.07	12160
573803H	208 276	0.25	0.018	0.07	10260
573804H	208 273	0.23	0.043	0.14	11920
573805H	208 273	0.22	0.002	0.21	11900
573806H	208 273	0.12	0.002	0.07	13320

CERTIFICATION: David Terbasket

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Project : CASINO 186
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Certificate Date: 06-SEP-93
Invoice No. :I9320012
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CERTIFICATE OF ANALYSIS A9320012

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573807H	208	273	0.17	0.007	0.14	12540						
573808H	208	276	0.24	0.008	0.14	11800						
573809H	208	273	0.13	0.001	0.14	12820						
573810H	208	276	0.14	0.001	0.14	11420						
573811H	208	276	0.14	0.002	0.10	8340						
573812H	208	276	0.22	0.003	0.27	7640						
573813H	208	273	0.17	0.010	0.17	15520						
573814H	208	276	0.11	0.004	0.10	9880						
573815H	208	276	0.13	0.003	0.14	10980						
573816H	208	276	0.18	0.009	0.17	11780						
573817H	208	276	0.11	0.004	0.10	10480						
573818H	208	273	0.16	0.007	0.17	12440						
573819H	208	276	0.17	0.004	0.17	11720						
573820H	208	273	0.15	0.087	0.21	12100						
573821H	208	273	0.14	0.023	0.10	12240						
573822H	208	273	0.14	0.010	0.17	12780						
573823H	208	273	0.19	0.018	0.21	12260						
573824H	208	276	0.14	0.013	0.14	9920						
573825H	208	274	0.13	0.006	0.14	6760						
573826H	208	273	0.12	0.002	0.14	12600						
573827H	208	276	0.20	0.027	0.17	9680						
573828H	208	273	0.12	0.019	0.07	12300						
573829H	208	273	0.15	0.004	0.10	13920						
573830H	208	273	0.16	0.006	0.17	13500						
573831H	208	273	0.16	0.007	0.14	12520						
573832H	208	273	0.10	0.004	0.07	11840						
573833H	208	276	0.13	0.004	0.10	11760						
573834H	208	273	0.21	0.011	0.21	11920						
573835H	208	273	0.12	0.070	0.10	11960						
573836H	208	273	0.27	0.003	0.17	11920						
573837H	208	276	0.17	0.011	0.14	11780						
573838H	208	276	0.17	0.012	0.10	11140						
573839H	208	276	0.18	0.016	0.07	10340						
573840H	208	276	0.10	0.011	0.03	11080						
573841H	208	276	0.24	0.024	0.17	10560						
573842H	208	276	0.16	0.016	0.14	9920						
573843H	208	273	0.23	0.028	0.17	12140						
573844H	208	276	0.22	0.011	0.17	10880						
573845H	208	276	0.35	0.018	0.34	11060						
573846H	208	276	0.59	0.008	0.58	11740						

CERTIFICATION: Saul Cerna

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Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. :I9320012
P.O. Number :
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CERTIFICATE OF ANALYSIS A9320012

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573847H	208	276	0.25	0.008	0.14	11760						
573848H	208	276	0.14	0.009	0.07	9520						
573849H	208	276	0.27	0.018	0.17	9600						
573850H	208	276	0.20	0.016	0.27	7940						
573851H	208	273	0.26	0.015	0.24	12280						
573852H	208	273	0.10	0.089	0.03	12800						
573853H	208	273	0.28	0.018	0.21	12260						
573854H	208	276	0.20	0.022	0.17	10920						
573855H	208	276	0.22	0.060	0.21	11200						
573856H	208	273	0.12	0.014	0.10	13500						
573857H	208	274	0.04	0.015	< 0.03	4480						
573858H	208	273	0.07	0.034	< 0.03	12100						
573859H	208	273	0.09	0.059	0.07	12860						
573860H	208	273	0.10	0.024	0.03	12400						
573861H	208	273	0.13	0.136	0.21	11980						
573862H	208	273	0.17	0.066	0.21	12220						
573863H	208	273	0.10	0.033	0.07	12220						
573864H	208	273	0.08	0.049	0.03	12660						
573865H	208	273	0.09	0.023	0.07	11840						
573866H	208	276	0.11	0.026	0.14	11560						
573867H	208	273	0.15	0.041	0.21	13020						
573868H	208	273	0.19	0.029	0.14	12080						
573869H	208	273	0.12	0.075	0.10	12000						
573870H	208	273	0.11	0.010	0.10	11900						
573871H	208	273	0.08	0.047	0.07	12080						
573872H	208	276	0.15	0.054	0.14	11680						
573873H	208	276	0.18	0.012	0.17	11620						
573874H	208	273	0.13	0.015	0.10	12680						
573875H	208	273	0.13	0.014	0.10	12520						
573876H	208	273	0.15	0.037	0.14	11860						
573877H	208	273	0.09	0.013	0.07	13340						
573878H	208	273	0.18	0.048	0.14	13060						
573879H	208	273	0.13	0.034	0.14	14120						
573880H	208	273	0.08	0.060	0.03	13000						
573881H	208	273	0.07	0.032	0.07	14280						
573882H	208	273	0.17	0.083	0.07	13660						
573883H	208	273	0.21	0.063	0.10	13840						
573884H	208	273	0.08	0.022	0.07	13160						
573885H	208	273	0.12	0.016	0.10	13020						
573886H	208	273	0.22	0.027	0.24	12820						

CERTIFICATION: Saïd Zeinab

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
573887H	208	273	0.16	0.023	0.14	12200
573888H	208	273	0.18	0.011	0.14	13120
573889H	208	273	0.29	0.033	0.34	12280
573890H	208	273	0.23	0.024	0.17	12340
573891H	208	273	0.29	0.016	0.34	12960
573892H	208	273	0.30	0.012	0.27	12640
573893H	208	273	0.37	0.027	0.38	13220
573894H	208	273	0.23	0.020	0.31	13300
573895H	208	273	0.15	0.016	0.21	13600
573896H	208	273	0.15	0.013	0.14	13320
573897H	208	273	0.14	0.020	0.10	13620
573898H	208	273	0.16	0.043	0.10	13620
573899H	208	273	0.22	0.013	0.17	13840
573900H	208	273	0.31	0.081	0.31	13480
573901H	208	273	0.98	0.005	1.06	14280
573902H	208	273	0.27	0.024	0.24	12220
573903H	208	273	0.21	0.012	0.21	14020
573904H	208	273	0.15	0.013	0.14	12540
573905H	208	276	0.17	0.018	0.17	7560
573906H	208	276	0.16	0.024	0.17	7560
573907H	208	276	0.22	0.014	0.21	7600
573908H	208	276	0.22	0.009	0.21	7620
573909H	208	274	0.30	0.024	0.27	7020
573910H	208	274	0.24	0.008	0.17	6820
573911H	208	276	0.32	0.019	0.24	8020
573912H	208	276	0.16	0.012	0.14	7420
573913H	208	274	0.15	0.010	0.10	7260
573914H	208	274	0.31	0.025	0.27	7080
573915H	208	276	0.50	0.026	0.27	7340
573916H	208	276	0.24	0.015	0.17	7320
573917H	208	276	0.21	0.014	0.27	7880
573918H	208	276	0.26	0.016	0.21	7720
573919H	208	276	0.27	0.007	0.10	7820
573920H	208	276	0.17	0.017	0.14	7840
573921H	208	276	0.19	0.013	0.17	7500
573922H	208	274	0.31	0.026	0.24	7020
573923H	208	276	0.28	0.016	0.27	7560
573924H	208	276	0.16	0.032	0.21	7740
573925H	208	274	0.25	0.016	0.21	7100
573926H	208	274	0.19	0.082	0.17	7140

CERTIFICATION: David Teinub

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CERTIFICATE OF ANALYSIS A9320012

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573927H	208	276	0.14	0.041	0.10	7700						
573928H	208	274	0.19	0.110	0.21	3920						
573929H	208	276	0.28	0.052	0.27	7400						
573930H	208	276	0.37	0.025	0.45	7360						
573931H	208	276	0.49	0.029	0.41	7600						
573932H	208	276	0.22	0.017	0.21	7440						
573933H	208	274	0.21	0.016	0.24	7060						
573934H	208	276	0.26	0.027	0.24	7880						
573935H	208	274	0.28	0.014	0.21	6580						
573936H	208	276	0.33	0.010	0.31	8280						
573937H	208	274	0.38	0.031	0.45	7180						
573938H	208	276	0.24	0.013	0.27	7840						
573939H	208	276	0.22	0.026	0.14	7420						
573940H	208	274	0.20	0.008	0.14	7120						
573941H	208	276	0.21	0.008	0.21	7860						
573942H	208	276	0.19	0.012	0.21	7320						
573943H	208	274	0.13	0.007	0.14	7200						
573944H	208	274	0.11	0.019	0.07	6700						
573945H	208	274	0.13	0.017	0.10	6400						
573946H	208	276	0.17	0.037	0.10	7280						
573947H	208	276	0.27	0.029	0.14	7880						
573948H	208	274	0.44	0.044	0.27	7180						
573949H	208	276	0.43	0.042	0.48	7460						
573950H	208	276	0.58	0.048	0.38	7880						
573951H	208	274	0.65	0.080	0.51	5180						
573952H	208	274	0.29	0.010	0.21	7120						
573953H	208	276	0.30	0.039	0.24	7940						
573954H	208	276	0.30	0.014	0.34	7840						
573955H	208	276	0.38	0.046	0.27	9240						
573956H	208	276	0.41	0.016	0.31	7760						
573957H	208	274	0.34	0.032	0.24	6600						
573958H	208	276	0.31	0.049	0.27	7740						
573959H	208	276	0.43	0.020	0.34	7700						
573960H	208	276	0.42	0.039	0.45	7880						
573961H	208	276	0.36	0.057	1.27	7800						
573962H	208	274	0.23	0.036	0.38	6860						
573963H	208	274	0.35	0.079	0.34	7000						
573964H	208	274	0.37	0.018	0.48	6960						
573965H	208	274	0.25	0.067	0.34	6980						
573966H	208	274	0.23	0.096	0.24	6860						

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Project : CASINO 186
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CERTIFICATE OF ANALYSIS A9320012

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
573967H	208	276	0.18	0.012	0.21	7600						
573968H	208	276	0.12	0.015	0.24	7380						
573969H	208	276	0.12	0.022	0.10	7340						
573970H	208	274	0.52	0.022	0.27	7080						
573971H	208	276	0.30	0.011	0.27	7640						
573972H	208	276	0.30	0.012	0.27	7300						
573973H	208	274	0.17	0.026	0.14	6740						
573974H	208	274	0.17	0.007	0.14	6960						
573975H	208	274	0.12	0.013	0.14	6840						
573976H	208	274	0.11	0.024	0.10	6500						
573977H	208	274	0.18	0.100	0.14	6880						
573978H	208	274	0.24	0.032	0.14	7060						
573979H	208	276	0.10	0.010	0.07	7720						
573980H	208	274	0.18	0.011	0.17	7120						
573981H	208	274	0.22	0.014	0.27	7080						
573982H	208	274	0.15	0.016	0.17	7120						
573983H	208	274	0.17	0.009	0.17	7120						
573984H	208	274	0.18	0.017	0.17	7140						
573985H	208	276	0.15	0.010	0.14	9680						

CERTIFICATION: Gord Grab

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Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. : I9320014
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573767H	299	229	0.8	2.79	20	260	< 0.5	4	0.09	< 0.5	6	57	1015	4.37	< 10	< 1	0.73	10	0.90	75	31
573768H	299	229	0.4	1.17	28	80	< 0.5	< 2	0.04	< 0.5	23	104	773	5.72	< 10	< 1	0.40	< 10	0.35	35	57
573769H	299	229	0.6	1.21	4	80	< 0.5	< 2	0.06	0.5	41	133	1980	3.63	< 10	< 1	0.29	< 10	0.15	50	35
573770H	299	229	0.6	1.69	16	100	< 0.5	< 2	0.17	< 0.5	35	241	3070	2.58	< 10	< 1	0.60	< 10	0.49	40	50
573771H	299	229	< 0.2	1.50	12	90	< 0.5	< 2	0.16	< 0.5	30	214	2010	2.57	< 10	< 1	0.44	< 10	0.17	35	99
573772H	299	229	0.4	1.64	18	70	< 0.5	< 2	0.12	< 0.5	36	144	2820	2.94	< 10	< 1	0.47	20	0.19	20	110
573773H	299	229	0.4	0.91	< 2	80	< 0.5	8	0.05	0.5	19	116	2530	1.93	< 10	< 1	0.25	10	0.05	20	61
573774H	299	229	1.2	1.48	72	30	< 0.5	2	0.15	0.5	55	101	5390	4.19	< 10	< 1	0.24	10	0.07	40	80
573775H	299	229	0.8	1.95	20	40	< 0.5	< 2	0.19	< 0.5	54	134	3360	3.99	< 10	< 1	0.73	10	0.72	70	88
573776H	299	229	< 0.2	3.10	12	80	< 0.5	< 2	0.45	1.0	50	253	1405	4.73	< 10	< 1	1.32	< 10	2.47	200	6
573777H	299	229	0.2	1.93	18	40	< 0.5	< 2	0.47	0.5	25	99	900	3.89	< 10	< 1	0.66	< 10	0.95	115	14
573778H	299	229	0.4	4.23	16	100	< 0.5	6	1.01	< 0.5	24	58	1135	4.42	10	< 1	1.18	10	2.29	200	10
573779H	299	229	1.2	3.68	14	70	< 0.5	< 2	1.11	< 0.5	34	55	2220	5.61	10	< 1	1.03	10	2.13	180	16
573780H	299	229	1.0	4.00	16	40	< 0.5	< 2	2.02	0.5	32	57	2020	6.06	10	< 1	1.14	10	2.31	180	10
573781H	299	229	0.8	3.30	6	80	< 0.5	< 2	1.14	0.5	35	68	2420	4.58	< 10	< 1	0.88	10	1.51	180	25
573782H	299	229	0.4	1.20	26	90	< 0.5	< 2	0.78	< 0.5	29	196	1050	3.07	< 10	< 1	0.32	20	0.29	175	16
573783H	299	229	0.4	2.88	< 2	60	< 0.5	< 2	1.67	0.5	22	58	742	4.19	10	< 1	0.80	10	1.55	145	8
573784H	299	229	0.2	3.40	14	50	< 0.5	2	0.99	< 0.5	23	59	1130	6.08	< 10	< 1	0.89	< 10	2.03	170	2
573785H	299	229	< 0.2	3.36	10	90	< 0.5	< 2	1.16	< 0.5	22	38	587	5.16	< 10	< 1	0.88	< 10	2.09	210	1
573786H	299	229	0.4	3.16	16	70	< 0.5	< 2	1.20	< 0.5	27	51	591	5.02	10	< 1	0.67	10	1.87	240	22
573787H	299	229	0.8	2.61	26	30	< 0.5	< 2	1.66	< 0.5	28	54	1760	5.33	10	< 1	0.78	10	1.24	370	12
573788H	299	229	1.8	1.60	248	30	< 0.5	< 2	2.66	1.0	67	65	2390	7.50	< 10	< 1	0.68	10	0.53	745	23
573789H	299	229	2.4	0.72	418	30	< 0.5	20	1.45	1.0	58	55	1205	8.13	< 10	< 1	0.45	< 10	0.43	1530	7
573790H	299	229	0.6	1.45	78	40	< 0.5	2	2.84	0.5	43	80	1070	5.39	< 10	< 1	0.51	10	0.70	445	6
573791H	299	229	0.4	1.39	40	80	< 0.5	6	4.74	0.5	38	57	1065	4.17	< 10	< 1	0.42	20	0.55	455	16
573792H	299	229	1.0	1.34	14	100	< 0.5	< 2	1.33	0.5	40	106	1565	3.84	< 10	< 1	0.49	20	0.45	315	17
573793H	299	229	0.4	0.77	12	80	< 0.5	6	1.17	< 0.5	31	126	1050	2.89	< 10	< 1	0.27	20	0.41	135	17
573794H	299	229	0.2	1.21	6	70	< 0.5	< 2	1.65	< 0.5	21	105	621	3.01	10	< 1	0.27	20	0.67	130	2
573795H	299	229	1.4	0.86	12	30	< 0.5	< 2	1.35	0.5	31	102	2650	3.74	< 10	< 1	0.32	20	0.39	180	30
573796H	299	229	0.6	1.35	< 2	50	< 0.5	2	1.69	0.5	22	103	1065	2.44	10	< 1	0.23	20	0.69	140	28
573797H	299	229	0.6	0.72	4	70	< 0.5	6	2.03	0.5	28	77	1485	2.84	< 10	< 1	0.25	20	0.27	200	12
573798H	299	229	0.4	0.83	6	170	< 0.5	< 2	0.56	< 0.5	18	129	1065	1.52	< 10	< 1	0.37	20	0.12	90	71
573799H	299	229	0.6	0.53	22	80	< 0.5	6	0.52	< 0.5	15	110	1275	2.12	< 10	< 1	0.23	20	0.11	145	40
573800H	299	229	0.4	0.81	4	70	< 0.5	< 2	0.69	< 0.5	11	123	1290	1.63	< 10	< 1	0.28	30	0.15	135	84
573801H	299	229	1.2	0.57	2	100	< 0.5	2	1.08	< 0.5	15	120	1875	1.65	< 10	< 1	0.22	30	0.11	145	132
573802H	299	229	0.6	1.07	16	60	< 0.5	< 2	0.25	< 0.5	17	154	1430	2.26	< 10	< 1	0.37	30	0.08	50	105
573803H	299	229	1.2	1.02	52	70	< 0.5	< 2	0.69	0.5	25	134	2780	3.52	< 10	< 1	0.39	20	0.20	165	107
573804H	299	229	2.2	1.73	72	40	< 0.5	< 2	3.31	< 0.5	23	90	2340	3.53	10	< 1	0.32	20	0.60	300	242
573805H	299	229	1.0	2.37	20	70	< 0.5	< 2	2.53	0.5	31	50	2140	4.43	10	< 1	0.49	10	1.46	310	9
573806H	299	229	0.2	3.32	6	200	< 0.5	10	1.37	< 0.5	25	130	1225	4.27	10	< 1	0.70	10	1.84	185	7

CERTIFICATION: Ian H Bucklen

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Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N :1-B
Total Pa :6
Certificate Date: 03-SEP-93
Invoice No. :I9320014
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573767H	299	229	0.01	6	710	< 2	2	15	64	0.03	< 10	< 10	78	10	26
573768H	299	229	0.01	14	450	4	4	4	19	0.02	< 10	< 10	38	< 10	32
573769H	299	229	0.01	25	340	6	2	2	18	< 0.01	< 10	< 10	18	20	26
573770H	299	229	0.01	40	810	6	< 2	5	7	0.04	< 10	10	65	20	20
573771H	299	229	0.01	19	710	6	< 2	3	19	0.01	< 10	< 10	27	10	20
573772H	299	229	0.01	31	490	2	4	4	47	0.01	< 10	< 10	27	10	28
573773H	299	229	0.01	16	200	< 2	2	1	14	< 0.01	< 10	< 10	8	10	26
573774H	299	229	0.01	46	650	6	30	4	13	< 0.01	< 10	< 10	22	20	58
573775H	299	229	0.01	31	640	< 2	8	7	40	0.05	< 10	< 10	50	20	66
573776H	299	229	0.03	42	1170	< 2	< 2	18	16	0.15	< 10	< 10	145	20	82
573777H	299	229	0.06	6	770	2	< 2	6	21	0.06	< 10	< 10	58	30	34
573778H	299	229	0.09	3	1430	< 2	2	15	40	0.17	< 10	< 10	142	20	54
573779H	299	229	0.07	3	1400	< 2	< 2	13	30	0.14	< 10	< 10	125	20	30
573780H	299	229	0.04	4	1260	< 2	< 2	15	32	0.09	< 10	< 10	135	30	24
573781H	299	229	0.02	5	1130	< 2	< 2	11	25	0.08	< 10	< 10	96	20	42
573782H	299	229	0.02	6	190	6	4	2	21	< 0.01	< 10	< 10	16	10	40
573783H	299	229	0.03	3	1000	< 2	2	11	37	0.06	< 10	< 10	86	20	20
573784H	299	229	0.05	1	1170	< 2	< 2	13	29	0.08	< 10	< 10	110	20	22
573785H	299	229	0.08	2	1280	< 2	< 2	12	40	0.14	< 10	< 10	111	20	24
573786H	299	229	0.06	< 1	1400	< 2	< 2	9	35	0.07	< 10	< 10	84	20	24
573787H	299	229	0.01	4	960	6	2	8	30	0.04	< 10	< 10	67	30	30
573788H	299	229	0.01	4	1150	6	26	6	29	0.01	< 10	< 10	44	40	66
573789H	299	229	0.01	3	1210	54	56	3	15	< 0.01	< 10	< 10	16	30	62
573790H	299	229	0.01	2	1020	8	6	5	35	< 0.01	< 10	< 10	34	20	28
573791H	299	229	0.01	3	1250	4	4	6	52	0.01	< 10	< 10	44	20	30
573792H	299	229	0.01	3	810	4	2	3	14	< 0.01	< 10	< 10	20	10	32
573793H	299	229	0.01	5	330	< 2	4	1	28	< 0.01	< 10	< 10	10	10	12
573794H	299	229	0.03	4	470	2	< 2	3	36	< 0.01	< 10	< 10	22	10	20
573795H	299	229	0.01	4	380	2	10	1	63	< 0.01	< 10	< 10	11	20	16
573796H	299	229	0.03	4	430	< 2	< 2	4	76	< 0.01	< 10	< 10	25	10	20
573797H	299	229	< 0.01	4	530	4	4	2	21	< 0.01	< 10	< 10	12	10	16
573798H	299	229	0.01	3	280	< 2	4	< 1	10	< 0.01	< 10	< 10	4	< 10	6
573799H	299	229	< 0.01	2	280	4	14	< 1	10	< 0.01	< 10	< 10	2	10	14
573800H	299	229	0.01	2	350	6	2	< 1	11	< 0.01	< 10	< 10	3	< 10	8
573801H	299	229	0.01	3	400	8	4	< 1	12	< 0.01	< 10	< 10	3	< 10	8
573802H	299	229	0.01	2	350	14	16	1	11	< 0.01	< 10	< 10	5	< 10	14
573803H	299	229	0.01	7	620	16	16	2	8	< 0.01	< 10	< 10	9	10	20
573804H	299	229	0.01	5	990	< 2	16	6	27	< 0.01	< 10	< 10	36	20	28
573805H	299	229	0.03	7	880	< 2	4	15	39	0.04	< 10	< 10	93	30	28
573806H	299	229	0.15	6	920	< 2	< 2	13	56	0.15	< 10	< 10	106	20	24

CERTIFICATION: Peter H. Bradley

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. : I9320014
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573807H	299	229	1.0	2.22	10	130	< 0.5	< 2	1.54	0.5	21	89	1575	3.30	< 10	< 1	0.58	10	1.05	145	37
573808H	299	229	1.6	1.60	14	60	< 0.5	4	1.77	< 0.5	29	96	2500	3.19	< 10	< 1	0.20	10	0.34	285	44
573809H	299	229	0.8	2.17	10	20	< 0.5	< 2	1.89	< 0.5	29	69	1250	3.91	< 10	< 1	0.29	< 10	0.88	160	5
573810H	299	229	1.0	2.37	18	80	< 0.5	< 2	2.75	< 0.5	24	88	1470	3.54	< 10	< 1	0.59	< 10	1.13	210	4
573811H	299	229	0.8	3.06	10	80	< 0.5	< 2	2.01	< 0.5	26	63	1430	4.83	< 10	< 1	0.94	< 10	1.65	150	8
573812H	299	229	1.2	3.67	8	70	< 0.5	< 2	1.79	< 0.5	27	94	2190	4.75	< 10	< 1	1.46	< 10	2.43	170	14
573813H	299	229	1.4	1.22	6	110	< 0.5	2	1.86	< 0.5	25	79	1755	1.99	< 10	< 1	0.35	10	0.55	150	54
573814H	299	229	1.0	1.48	4	160	< 0.5	< 2	1.24	< 0.5	21	155	1150	2.16	< 10	< 1	0.44	10	0.78	115	18
573815H	299	229	1.0	1.60	2	120	< 0.5	< 2	1.86	< 0.5	21	113	1365	2.24	< 10	< 1	0.43	< 10	0.93	165	15
573816H	299	229	1.2	1.75	2	140	< 0.5	< 2	1.60	< 0.5	16	160	1900	2.00	< 10	< 1	0.48	< 10	0.93	210	51
573817H	299	229	0.8	1.43	2	60	< 0.5	2	1.73	< 0.5	21	104	1085	2.72	< 10	< 1	0.21	10	0.68	230	20
573818H	299	229	0.8	1.60	4	250	< 0.5	< 2	2.10	< 0.5	16	153	1615	1.73	< 10	< 1	0.29	< 10	0.72	195	38
573819H	299	229	1.2	1.65	4	90	< 0.5	< 2	1.91	< 0.5	18	104	1770	1.87	< 10	< 1	0.29	< 10	0.95	160	20
573820H	299	229	1.2	1.20	2	80	< 0.5	4	1.63	< 0.5	17	146	1610	1.61	< 10	< 1	0.27	10	0.52	195	516
573821H	299	229	1.2	0.64	30	80	< 0.5	4	0.81	< 0.5	24	127	1390	1.85	< 10	< 1	0.32	10	0.23	190	134
573822H	299	229	2.0	0.64	120	60	< 0.5	8	1.10	0.5	14	146	1495	2.39	< 10	< 1	0.30	10	0.37	310	52
573823H	299	229	1.2	0.71	26	180	< 0.5	2	1.96	< 0.5	9	91	1900	1.12	< 10	< 1	0.21	10	0.73	340	95
573824H	299	229	1.2	0.69	2	40	< 0.5	4	2.13	< 0.5	10	116	1320	0.88	< 10	< 1	0.19	10	0.25	155	69
573825H	299	229	1.0	1.48	10	70	< 0.5	< 2	2.09	< 0.5	15	72	1370	1.38	< 10	< 1	0.30	10	0.76	140	29
573826H	299	229	0.8	1.61	20	80	< 0.5	< 2	1.75	< 0.5	13	100	1280	1.60	< 10	< 1	0.22	10	0.81	135	7
573827H	299	229	1.2	0.94	20	60	< 0.5	< 2	0.82	< 0.5	16	134	2180	1.00	< 10	< 1	0.29	20	0.28	175	167
573828H	299	229	1.0	0.24	4	30	< 0.5	< 2	1.18	< 0.5	10	62	1280	1.49	< 10	< 1	0.10	< 10	0.17	115	111
573829H	299	229	1.0	1.09	2	90	< 0.5	< 2	1.47	< 0.5	11	122	1560	1.09	< 10	< 1	0.27	10	0.39	100	20
573830H	299	229	0.8	1.77	2	160	< 0.5	< 2	1.74	< 0.5	22	90	1670	2.04	< 10	< 1	0.68	10	1.09	130	29
573831H	299	229	0.8	2.22	2	220	< 0.5	< 2	1.57	< 0.5	15	103	1510	2.29	< 10	< 1	0.75	10	1.35	120	35
573832H	299	229	0.8	0.98	2	240	< 0.5	< 2	1.47	< 0.5	11	74	973	1.00	< 10	< 1	0.19	10	0.37	85	19
573833H	299	229	1.2	0.68	2	80	< 0.5	< 2	1.56	< 0.5	11	90	1290	1.12	< 10	< 1	0.23	10	0.24	105	20
573834H	299	229	1.6	0.39	10	250	< 0.5	< 2	1.77	< 0.5	11	59	2150	0.91	< 10	< 1	0.13	10	0.26	105	65
573835H	299	229	1.0	0.64	14	190	< 0.5	< 2	1.19	< 0.5	11	93	1205	0.98	< 10	< 1	0.24	20	0.30	125	405
573836H	299	229	4.2	0.56	50	80	< 0.5	< 2	1.50	0.5	18	34	2760	1.98	< 10	< 1	0.14	< 10	0.44	265	13
573837H	299	229	1.2	0.64	30	160	< 0.5	< 2	1.44	< 0.5	9	94	1675	1.12	< 10	< 1	0.21	10	0.37	215	56
573838H	299	229	1.6	0.35	50	40	< 0.5	< 2	1.09	< 0.5	11	66	1655	2.06	< 10	< 1	0.15	10	0.39	175	76
573839H	299	229	1.6	0.56	20	90	< 0.5	< 2	0.85	< 0.5	7	87	1830	1.39	< 10	< 1	0.19	10	0.36	80	86
573840H	299	229	1.4	0.30	4	140	< 0.5	< 2	0.91	< 0.5	10	66	996	1.13	< 10	< 1	0.11	20	0.33	95	64
573841H	299	229	1.6	1.12	12	120	< 0.5	< 2	1.11	< 0.5	13	59	2410	1.42	< 10	< 1	0.18	20	0.38	110	137
573842H	299	229	1.8	0.39	4	70	< 0.5	< 2	1.57	< 0.5	11	66	1580	1.77	< 10	< 1	0.12	10	0.58	345	102
573843H	299	229	1.8	1.60	18	60	< 0.5	< 2	2.39	< 0.5	16	34	2350	2.80	< 10	< 1	0.46	< 10	1.02	215	149
573844H	299	229	1.8	1.56	10	80	< 0.5	< 2	2.50	< 0.5	21	31	2350	3.26	< 10	< 1	0.48	< 10	1.13	220	60
573845H	299	229	2.0	1.33	34	60	< 0.5	< 2	3.41	< 0.5	17	27	3640	2.44	< 10	< 1	0.17	< 10	0.89	305	100
573846H	299	229	3.2	0.84	80	20	< 0.5	< 2	3.29	< 0.5	30	24	6500	3.42	< 10	< 1	0.13	< 10	0.77	315	48

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573807H	299	229	0.04	2	1060	< 2	< 2	8	39	0.06	< 10	< 10	61	< 10	32
573808H	299	229	< 0.01	7	1260	8	< 2	12	15	< 0.01	< 10	< 10	61	< 10	52
573809H	299	229	0.01	2	1060	4	2	9	53	< 0.01	< 10	< 10	60	< 10	34
573810H	299	229	0.03	4	1090	4	< 2	13	55	0.05	< 10	< 10	91	< 10	36
573811H	299	229	0.04	2	1050	< 2	< 2	14	57	0.10	< 10	< 10	106	< 10	36
573812H	299	229	0.07	6	970	< 2	< 2	18	56	0.17	< 10	< 10	139	< 10	38
573813H	299	229	0.01	3	580	4	< 2	7	37	0.01	< 10	< 10	37	< 10	28
573814H	299	229	0.04	5	390	4	< 2	6	41	0.02	< 10	< 10	39	< 10	26
573815H	299	229	0.02	3	440	4	< 2	6	49	0.02	< 10	< 10	39	< 10	20
573816H	299	229	0.02	4	460	4	2	7	57	0.02	< 10	< 10	43	< 10	28
573817H	299	229	0.02	3	450	4	2	5	59	< 0.01	< 10	< 10	27	< 10	34
573818H	299	229	0.02	3	420	2	< 2	5	67	< 0.01	< 10	< 10	31	< 10	22
573819H	299	229	0.03	3	430	2	< 2	6	104	< 0.01	< 10	< 10	35	< 10	24
573820H	299	229	0.02	3	390	2	4	3	51	< 0.01	< 10	< 10	12	< 10	18
573821H	299	229	0.01	3	400	4	16	1	15	< 0.01	< 10	< 10	5	< 10	10
573822H	299	229	0.01	4	400	18	36	2	12	< 0.01	< 10	< 10	8	< 10	46
573823H	299	229	0.01	3	340	6	4	6	26	< 0.01	< 10	< 10	21	< 10	16
573824H	299	229	< 0.01	3	330	4	2	3	20	< 0.01	< 10	< 10	12	< 10	12
573825H	299	229	0.01	2	430	4	6	5	41	< 0.01	< 10	< 10	27	< 10	18
573826H	299	229	0.01	3	450	2	6	4	43	< 0.01	< 10	< 10	20	< 10	18
573827H	299	229	0.01	3	250	4	18	2	10	< 0.01	< 10	< 10	6	< 10	16
573828H	299	229	< 0.01	1	120	4	6	< 1	10	< 0.01	< 10	< 10	< 1	< 10	8
573829H	299	229	0.01	2	240	2	4	2	26	< 0.01	< 10	< 10	10	< 10	14
573830H	299	229	0.03	3	500	4	< 2	10	49	0.05	< 10	< 10	57	< 10	18
573831H	299	229	0.03	3	700	< 2	< 2	11	126	0.07	< 10	< 10	65	< 10	20
573832H	299	229	0.01	1	360	4	< 2	2	86	< 0.01	< 10	< 10	7	< 10	12
573833H	299	229	0.01	1	320	2	2	1	16	< 0.01	< 10	< 10	3	< 10	8
573834H	299	229	0.01	1	290	6	2	1	33	< 0.01	< 10	< 10	2	< 10	14
573835H	299	229	0.01	1	340	< 2	6	1	23	< 0.01	< 10	< 10	< 1	< 10	10
573836H	299	229	< 0.01	2	720	6	32	4	12	< 0.01	< 10	< 10	14	< 10	42
573837H	299	229	0.01	1	260	4	20	1	13	< 0.01	< 10	< 10	4	< 10	16
573838H	299	229	< 0.01	3	330	8	20	1	11	< 0.01	< 10	< 10	4	< 10	26
573839H	299	229	< 0.01	2	270	8	6	2	14	< 0.01	< 10	< 10	6	< 10	18
573840H	299	229	< 0.01	1	360	2	4	< 1	11	< 0.01	< 10	< 10	1	< 10	8
573841H	299	229	< 0.01	2	930	4	4	7	17	< 0.01	< 10	< 10	25	< 10	22
573842H	299	229	< 0.01	2	520	10	16	2	15	< 0.01	< 10	< 10	4	< 10	24
573843H	299	229	0.01	3	1100	2	10	9	22	0.02	< 10	< 10	60	< 10	26
573844H	299	229	0.01	3	1320	< 2	10	12	21	0.04	< 10	< 10	76	< 10	24
573845H	299	229	< 0.01	4	1400	10	16	12	24	< 0.01	< 10	< 10	51	< 10	30
573846H	299	229	< 0.01	7	1280	14	26	10	23	< 0.01	< 10	< 10	37	< 10	46

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. : I9320014
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573847H	299	229	1.6	1.31	34	20	< 0.5	< 2	2.84	< 0.5	20	80	2600	3.86	< 10	< 1	0.29	< 10	0.97	290	48
573848H	299	229	1.0	1.09	4	80	< 0.5	< 2	2.21	< 0.5	15	24	1465	2.77	< 10	< 1	0.11	10	0.71	225	58
573849H	299	229	1.4	1.81	6	50	< 0.5	< 2	2.88	< 0.5	19	42	2710	3.65	< 10	< 1	0.37	< 10	0.89	250	93
573850H	299	229	1.2	0.64	20	10	< 0.5	< 2	2.66	< 0.5	16	24	2090	2.67	< 10	< 1	0.09	< 10	0.82	300	89
573851H	299	229	1.2	1.85	20	80	< 0.5	< 2	2.98	< 0.5	21	42	2470	3.15	< 10	< 1	0.57	< 10	1.06	285	137
573852H	299	229	1.0	2.40	8	120	< 0.5	< 2	2.88	< 0.5	11	32	1060	3.34	< 10	< 1	1.29	< 10	1.69	190	501
573853H	299	229	1.6	2.13	18	100	< 0.5	< 2	3.00	< 0.5	15	49	2890	3.41	< 10	< 1	0.86	< 10	1.44	285	100
573854H	299	229	1.2	0.51	20	20	< 0.5	2	1.87	< 0.5	12	24	1940	2.02	< 10	< 1	0.08	< 10	0.53	275	116
573855H	299	229	1.4	0.78	40	130	< 0.5	4	1.27	< 0.5	9	128	2200	1.45	< 10	< 1	0.25	10	0.47	255	340
573856H	299	229	1.4	0.29	102	50	< 0.5	8	1.06	1.0	6	53	1330	2.30	< 10	< 1	0.10	< 10	0.36	340	78
573857H	299	229	0.8	0.44	50	430	< 0.5	2	0.33	< 0.5	1	153	418	0.47	< 10	< 1	0.20	20	0.11	140	91
573858H	299	229	0.4	0.17	40	250	< 0.5	4	0.46	< 0.5	2	69	675	0.53	< 10	< 1	0.09	20	0.16	95	182
573859H	299	229	0.6	0.24	64	480	< 0.5	6	0.95	< 0.5	3	49	919	0.59	< 10	< 1	0.09	20	0.32	170	342
573860H	299	229	0.6	0.65	74	360	< 0.5	4	1.31	< 0.5	4	98	1005	0.82	< 10	< 1	0.17	20	0.46	220	138
573861H	299	229	1.0	0.26	164	250	< 0.5	6	1.43	< 0.5	9	53	1330	0.77	< 10	< 1	0.11	20	0.40	300	807
573862H	299	229	1.0	0.76	88	260	< 0.5	6	1.22	< 0.5	6	101	1700	0.83	< 10	< 1	0.17	10	0.42	150	379
573863H	299	229	0.8	0.31	46	400	< 0.5	< 2	1.73	< 0.5	2	65	1070	0.61	< 10	< 1	0.10	10	0.35	120	186
573864H	299	229	0.8	0.55	56	370	< 0.5	2	1.64	< 0.5	3	113	805	0.80	< 10	< 1	0.16	10	0.38	190	300
573865H	299	229	0.8	0.55	56	180	< 0.5	2	1.26	< 0.5	3	90	932	0.84	< 10	< 1	0.15	10	0.36	130	118
573866H	299	229	1.0	0.26	42	120	< 0.5	2	0.60	< 0.5	3	30	1060	0.64	< 10	< 1	0.08	10	0.17	65	128
573867H	299	229	1.2	0.83	116	360	< 0.5	2	1.45	< 0.5	6	72	1600	0.89	< 10	< 1	0.15	10	0.52	175	252
573868H	299	229	1.2	0.35	98	60	< 0.5	2	1.28	< 0.5	9	37	1950	0.94	< 10	< 1	0.08	10	0.39	135	168
573869H	299	229	1.0	1.00	32	190	< 0.5	2	0.98	< 0.5	7	61	1360	0.58	< 10	< 1	0.16	10	0.23	55	513
573870H	299	229	0.8	0.27	44	80	< 0.5	2	1.13	< 0.5	7	47	1255	0.78	< 10	< 1	0.08	20	0.32	90	56
573871H	299	229	1.0	0.60	26	460	< 0.5	2	1.28	< 0.5	3	100	922	0.67	< 10	< 1	0.18	10	0.39	120	299
573872H	299	229	1.2	0.29	92	180	< 0.5	4	1.31	< 0.5	4	45	1605	0.84	< 10	< 1	0.08	10	0.27	80	338
573873H	299	229	2.2	0.73	60	240	< 0.5	4	1.46	< 0.5	8	79	2050	0.98	< 10	< 1	0.18	10	0.35	95	74
573874H	299	229	2.4	0.37	60	150	< 0.5	6	1.34	1.5	6	53	1415	0.75	< 10	< 1	0.10	< 10	0.27	70	94
573875H	299	229	1.4	0.76	28	190	< 0.5	4	1.58	< 0.5	7	60	1395	0.70	< 10	< 1	0.15	< 10	0.22	60	85
573876H	299	229	0.8	0.48	24	430	< 0.5	4	1.58	< 0.5	6	40	1610	0.58	< 10	< 1	0.16	10	0.29	55	223
573877H	299	229	0.6	0.84	16	640	< 0.5	2	1.85	< 0.5	5	58	944	0.66	< 10	< 1	0.19	< 10	0.31	75	79
573878H	299	229	1.0	0.37	162	260	< 0.5	6	1.32	< 0.5	8	35	1965	0.85	< 10	< 1	0.11	10	0.31	100	313
573879H	299	229	1.0	0.81	52	360	< 0.5	4	1.28	< 0.5	12	116	1425	0.99	< 10	< 1	0.23	10	0.42	145	214
573880H	299	229	2.0	0.25	74	110	< 0.5	6	0.74	3.0	6	33	857	1.39	< 10	< 1	0.11	10	0.25	100	352
573881H	299	229	0.8	0.48	42	1300	< 0.5	2	0.37	< 0.5	1	107	696	0.30	< 10	< 1	0.16	20	0.12	40	185
573882H	299	229	1.8	0.17	48	160	< 0.5	6	1.00	< 0.5	2	59	1840	0.97	< 10	< 1	0.07	10	0.18	75	518
573883H	299	229	1.8	0.44	170	540	< 0.5	6	0.49	0.5	3	100	2220	0.49	< 10	< 1	0.16	20	0.14	70	405
573884H	299	229	0.6	0.25	34	380	< 0.5	2	1.23	< 0.5	3	45	942	0.52	< 10	< 1	0.08	10	0.44	130	134
573885H	299	229	1.4	0.72	40	250	< 0.5	2	1.48	< 0.5	7	100	1440	0.87	< 10	< 1	0.21	20	0.53	95	99
573886H	299	229	1.8	0.40	16	150	< 0.5	4	1.17	0.5	8	35	2250	0.78	< 10	< 1	0.09	20	0.38	55	143

CERTIFICATION:

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WHITEHORSE, YT
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Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu :3-B
Total Pages :6
Certificate Date: 03-SEP-93
Invoice No. :I9320014
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573847H	299	229	0.01	2	990	12	6	7	25	< 0.01	< 10	< 10	34	< 10	32
573848H	299	229	< 0.01	2	1190	4	2	11	18	< 0.01	< 10	< 10	45	< 10	20
573849H	299	229	0.01	2	1360	4	4	15	24	0.02	< 10	< 10	74	< 10	26
573850H	299	229	< 0.01	2	1270	14	10	10	18	< 0.01	< 10	< 10	35	< 10	28
573851H	299	229	0.02	3	1210	4	14	14	82	0.05	< 10	< 10	75	< 10	28
573852H	299	229	0.06	2	920	< 2	4	17	357	0.19	< 10	< 10	105	< 10	24
573853H	299	229	0.01	2	1060	< 2	12	17	41	0.08	< 10	< 10	101	< 10	32
573854H	299	229	< 0.01	2	720	6	26	10	15	< 0.01	< 10	< 10	31	< 10	20
573855H	299	229	< 0.01	2	260	4	44	2	15	< 0.01	< 10	< 10	4	< 10	20
573856H	299	229	< 0.01	1	360	36	44	2	10	< 0.01	< 10	< 10	7	< 10	72
573857H	299	229	0.01	3	100	8	24	< 1	11	< 0.01	< 10	< 10	1	< 10	16
573858H	299	229	< 0.01	1	130	8	32	< 1	9	< 0.01	< 10	< 10	< 1	< 10	14
573859H	299	229	< 0.01	1	290	8	30	1	18	< 0.01	< 10	< 10	< 1	< 10	12
573860H	299	229	0.01	2	320	8	18	2	15	< 0.01	< 10	< 10	8	< 10	14
573861H	299	229	< 0.01	1	590	4	20	1	16	< 0.01	< 10	< 10	< 1	< 10	14
573862H	299	229	< 0.01	2	260	6	16	2	14	< 0.01	< 10	< 10	4	< 10	16
573863H	299	229	< 0.01	1	340	4	2	4	25	< 0.01	< 10	< 10	6	< 10	16
573864H	299	229	< 0.01	1	210	10	10	1	20	< 0.01	< 10	< 10	< 1	< 10	12
573865H	299	229	< 0.01	1	260	8	4	1	13	< 0.01	< 10	< 10	3	< 10	12
573866H	299	229	< 0.01	< 1	260	12	4	2	10	< 0.01	< 10	< 10	< 1	< 10	12
573867H	299	229	< 0.01	2	260	12	18	2	18	< 0.01	< 10	< 10	2	< 10	16
573868H	299	229	< 0.01	1	260	12	28	2	11	< 0.01	< 10	< 10	1	< 10	22
573869H	299	229	< 0.01	1	290	14	10	2	16	< 0.01	< 10	< 10	< 1	< 10	26
573870H	299	229	< 0.01	1	300	10	6	2	12	< 0.01	< 10	< 10	3	< 10	20
573871H	299	229	0.01	2	190	8	8	1	16	< 0.01	< 10	< 10	1	< 10	18
573872H	299	229	< 0.01	1	240	16	20	1	17	< 0.01	< 10	< 10	< 1	< 10	30
573873H	299	229	< 0.01	3	310	16	8	2	29	< 0.01	< 10	< 10	4	< 10	22
573874H	299	229	< 0.01	1	340	20	8	2	17	< 0.01	< 10	< 10	2	< 10	174
573875H	299	229	< 0.01	1	300	18	4	3	22	< 0.01	< 10	< 10	4	< 10	32
573876H	299	229	0.01	1	260	20	2	3	60	< 0.01	< 10	< 10	5	< 10	34
573877H	299	229	0.02	1	240	14	< 2	3	271	< 0.01	< 10	< 10	8	< 10	20
573878H	299	229	< 0.01	1	340	14	36	1	19	< 0.01	< 10	< 10	< 1	< 10	26
573879H	299	229	0.01	3	260	18	18	1	21	< 0.01	< 10	< 10	2	< 10	26
573880H	299	229	< 0.01	1	270	22	24	1	11	< 0.01	< 10	< 10	< 1	< 10	258
573881H	299	229	< 0.01	1	110	10	20	< 1	32	< 0.01	< 10	< 10	< 1	< 10	24
573882H	299	229	< 0.01	1	130	18	22	< 1	11	< 0.01	< 10	< 10	< 1	< 10	28
573883H	299	229	0.01	2	130	12	46	< 1	18	< 0.01	< 10	< 10	< 1	< 10	26
573884H	299	229	< 0.01	< 1	150	20	6	< 1	14	< 0.01	< 10	< 10	< 1	< 10	22
573885H	299	229	0.01	3	250	20	6	1	18	< 0.01	< 10	< 10	6	< 10	42
573886H	299	229	< 0.01	1	270	18	4	4	17	< 0.01	< 10	< 10	11	< 10	30

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Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. :19320014
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573887H	299	229	3.4	0.36	22	210	< 0.5	4	0.80	3.0	5	51	1685	0.75	< 10	< 1	0.09	20	0.30	40	134
573888H	299	229	2.0	0.63	8	380	< 0.5	2	1.43	0.5	7	99	1845	0.90	< 10	< 1	0.13	10	0.54	65	58
573889H	299	229	2.8	0.33	14	80	< 0.5	< 2	1.68	0.5	11	49	2740	1.29	< 10	< 1	0.07	10	0.59	90	209
573890H	299	229	1.6	0.53	12	310	< 0.5	< 2	1.17	< 0.5	7	99	2370	0.85	< 10	< 1	0.12	10	0.43	70	136
573891H	299	229	2.2	0.48	14	90	< 0.5	< 2	1.60	0.5	13	48	3120	1.23	< 10	< 1	0.07	< 10	0.55	75	97
573892H	299	229	9.6	0.96	190	120	< 0.5	4	1.35	45.5	17	106	3150	1.70	< 10	< 1	0.20	10	0.48	70	62
573893H	299	229	1.6	0.68	14	210	< 0.5	< 2	1.77	< 0.5	10	54	3850	1.12	< 10	< 1	0.11	10	0.62	70	152
573894H	299	229	1.0	1.50	< 2	280	< 0.5	< 2	1.72	< 0.5	13	128	2280	1.60	< 10	< 1	0.49	< 10	0.81	105	108
573895H	299	229	1.2	1.25	< 2	220	< 0.5	< 2	2.09	< 0.5	14	60	1585	2.08	< 10	< 1	0.53	< 10	0.95	180	80
573896H	299	229	0.8	1.71	< 2	250	< 0.5	< 2	2.63	< 0.5	12	119	1530	2.05	< 10	< 1	0.53	< 10	0.96	135	68
573897H	299	229	1.4	1.52	2	290	< 0.5	< 2	2.48	< 0.5	13	72	1475	2.02	< 10	< 1	0.51	< 10	1.05	180	124
573898H	299	229	1.4	1.94	< 2	280	< 0.5	< 2	1.51	< 0.5	17	112	1600	2.22	< 10	< 1	0.61	< 10	1.21	165	255
573899H	299	229	0.6	1.42	6	280	< 0.5	< 2	1.37	< 0.5	12	157	2200	1.70	< 10	< 1	0.70	10	0.90	135	66
573900H	299	229	1.6	0.95	4	240	< 0.5	4	2.81	< 0.5	11	116	3250	1.34	< 10	< 1	0.45	< 10	0.62	105	473
573901H	299	229	4.2	1.97	6	100	< 0.5	2	1.26	< 0.5	26	171	>10000	2.74	< 10	< 1	0.82	10	1.03	100	23
573902H	299	229	1.8	1.51	2	170	< 0.5	< 2	1.86	< 0.5	12	124	2820	1.52	< 10	< 1	0.54	10	0.98	120	136
573903H	299	229	1.4	1.87	< 2	200	< 0.5	< 2	1.97	< 0.5	11	172	2230	1.74	< 10	< 1	0.76	10	1.16	155	62
573904H	299	229	0.8	1.74	2	220	< 0.5	< 2	2.23	< 0.5	11	124	1900	2.06	< 10	< 1	0.87	< 10	1.42	210	75
573905H	299	229	0.6	1.37	< 2	150	< 0.5	< 2	1.83	< 0.5	11	140	1730	1.74	< 10	< 1	0.61	< 10	1.04	165	97
573906H	299	229	1.2	1.46	< 2	260	< 0.5	< 2	1.49	< 0.5	11	115	1635	2.11	< 10	< 1	0.59	< 10	1.13	200	136
573907H	299	229	1.0	1.62	< 2	260	< 0.5	< 2	2.13	< 0.5	12	59	2240	1.93	< 10	< 1	0.56	< 10	1.06	135	73
573908H	299	229	0.6	1.65	< 2	230	< 0.5	< 2	1.53	< 0.5	14	206	2140	2.03	< 10	< 1	0.75	< 10	1.08	100	43
573909H	299	229	1.6	1.49	2	190	< 0.5	2	2.04	< 0.5	14	116	3160	1.82	< 10	< 1	0.63	10	1.08	135	141
573910H	299	229	1.6	1.90	2	210	< 0.5	< 2	1.94	< 0.5	16	152	2510	2.07	< 10	1	0.58	< 10	1.08	225	42
573911H	299	229	1.2	1.39	< 2	200	< 0.5	4	1.94	< 0.5	12	80	3320	1.48	< 10	1	0.59	10	0.98	110	104
573912H	299	229	0.8	1.45	2	150	< 0.5	< 2	2.06	< 0.5	10	184	1725	1.80	< 10	1	0.72	< 10	1.16	100	68
573913H	299	229	0.8	1.13	2	220	< 0.5	2	1.46	< 0.5	11	96	1500	1.82	< 10	< 1	0.61	< 10	1.02	105	53
573914H	299	229	2.0	1.34	4	120	< 0.5	< 2	2.07	< 0.5	11	203	3280	1.44	< 10	< 1	0.62	< 10	0.94	150	145
573915H	299	229	4.6	1.23	< 2	100	< 0.5	6	1.93	< 0.5	18	95	5230	2.01	< 10	< 1	0.58	< 10	1.01	195	146
573916H	299	229	1.8	1.79	< 2	250	< 0.5	< 2	1.91	< 0.5	11	209	2500	1.86	< 10	< 1	0.69	< 10	1.08	175	85
573917H	299	229	1.2	1.29	< 2	160	< 0.5	< 2	1.73	< 0.5	10	122	2120	1.63	< 10	< 1	0.52	< 10	1.01	170	77
573918H	299	229	2.8	1.77	8	190	< 0.5	< 2	1.86	2.0	16	208	2670	2.06	< 10	< 1	0.62	< 10	1.07	255	90
573919H	299	229	2.8	1.42	2	100	< 0.5	< 2	1.93	< 0.5	14	117	2760	1.92	< 10	< 1	0.46	< 10	1.08	260	35
573920H	299	229	2.0	1.67	4	190	< 0.5	< 2	1.64	< 0.5	16	196	1675	2.04	< 10	< 1	0.61	< 10	1.10	240	92
573921H	299	229	1.6	1.55	6	210	< 0.5	< 2	1.78	< 0.5	13	127	1910	2.24	< 10	< 1	0.67	< 10	1.24	180	71
573922H	299	229	1.8	1.86	6	170	< 0.5	< 2	1.94	< 0.5	15	172	2940	2.10	< 10	< 1	0.74	< 10	1.24	190	142
573923H	299	229	3.4	1.35	12	70	< 0.5	< 2	1.66	0.5	13	162	2820	2.98	< 10	< 1	0.52	10	0.78	280	82
573924H	299	229	1.8	1.60	6	180	< 0.5	< 2	1.99	< 0.5	11	181	1575	1.81	< 10	< 1	0.62	10	1.00	195	174
573925H	299	229	2.0	1.44	12	160	< 0.5	< 2	1.73	< 0.5	11	173	2450	1.90	< 10	< 1	0.57	< 10	1.17	155	85
573926H	299	229	2.8	1.14	2	100	< 0.5	< 2	1.87	< 0.5	11	269	1855	1.60	< 10	< 1	0.42	10	0.64	110	490

CERTIFICATION: Ian Bichler

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. :I9320014
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573887H	299	229	< 0.01	2	240	40	6	2	15	< 0.01	< 10	< 10	6	< 10	194
573888H	299	229	0.01	3	290	16	2	6	25	< 0.01	< 10	< 10	19	< 10	46
573889H	299	229	< 0.01	3	340	8	4	6	17	< 0.01	< 10	< 10	24	< 10	58
573890H	299	229	< 0.01	4	460	12	4	6	22	< 0.01	< 10	< 10	24	< 10	34
573891H	299	229	< 0.01	3	520	10	< 2	9	18	< 0.01	< 10	< 10	41	< 10	44
573892H	299	229	0.01	8	480	772	14	8	20	< 0.01	< 10	< 10	32	< 10	3490
573893H	299	229	< 0.01	4	490	8	2	10	34	< 0.01	< 10	< 10	37	< 10	24
573894H	299	229	0.04	4	450	6	2	10	189	0.07	< 10	< 10	56	< 10	24
573895H	299	229	0.03	2	500	4	< 2	10	147	0.09	< 10	< 10	61	< 10	28
573896H	299	229	0.04	3	520	4	< 2	10	263	0.08	< 10	< 10	60	< 10	22
573897H	299	229	0.03	3	490	2	2	9	64	0.08	< 10	< 10	61	< 10	22
573898H	299	229	0.05	3	480	2	< 2	11	49	0.09	< 10	< 10	69	< 10	26
573899H	299	229	0.09	4	380	2	< 2	10	425	0.09	< 10	< 10	68	< 10	20
573900H	299	229	0.03	3	400	2	2	9	200	0.04	< 10	< 10	45	< 10	14
573901H	299	229	0.08	6	330	2	2	11	80	0.10	< 10	< 10	79	< 10	18
573902H	299	229	0.04	3	450	2	< 2	9	101	0.04	< 10	< 10	61	< 10	18
573903H	299	229	0.09	3	460	4	< 2	11	98	0.09	< 10	< 10	79	< 10	24
573904H	299	229	0.07	4	770	4	< 2	13	89	0.14	< 10	< 10	97	< 10	28
573905H	299	229	0.09	3	430	4	< 2	9	97	0.10	< 10	< 10	69	< 10	24
573906H	299	229	0.06	3	470	4	< 2	9	61	0.12	< 10	< 10	75	< 10	26
573907H	299	229	0.04	2	420	2	< 2	9	85	0.06	< 10	< 10	67	< 10	22
573908H	299	229	0.12	3	410	6	< 2	11	73	0.13	< 10	< 10	79	< 10	20
573909H	299	229	0.05	4	520	4	< 2	10	92	0.08	< 10	< 10	74	< 10	24
573910H	299	229	0.08	3	470	4	< 2	11	75	0.07	< 10	< 10	74	< 10	32
573911H	299	229	0.05	3	370	6	< 2	9	77	0.06	< 10	< 10	68	< 10	18
573912H	299	229	0.10	4	460	2	< 2	11	96	0.13	< 10	< 10	82	< 10	20
573913H	299	229	0.06	3	450	4	< 2	9	58	0.14	< 10	< 10	75	< 10	22
573914H	299	229	0.09	4	370	6	2	8	103	0.07	< 10	< 10	58	< 10	34
573915H	299	229	0.05	4	390	4	< 2	9	80	0.08	< 10	< 10	70	< 10	36
573916H	299	229	0.12	4	410	4	< 2	10	105	0.10	< 10	< 10	76	< 10	32
573917H	299	229	0.06	3	440	6	< 2	8	82	0.09	< 10	< 10	67	< 10	32
573918H	299	229	0.09	3	450	20	< 2	9	77	0.10	< 10	< 10	72	< 10	218
573919H	299	229	0.05	3	480	6	< 2	8	60	0.09	< 10	< 10	69	< 10	56
573920H	299	229	0.10	3	450	2	< 2	10	70	0.13	< 10	< 10	77	< 10	44
573921H	299	229	0.07	3	490	4	< 2	11	64	0.17	< 10	< 10	88	< 10	48
573922H	299	229	0.10	4	500	4	2	11	116	0.14	< 10	< 10	85	< 10	72
573923H	299	229	0.04	4	440	20	< 2	6	86	0.02	< 10	< 10	47	< 10	58
573924H	299	229	0.10	3	450	2	< 2	9	91	0.07	< 10	< 10	68	< 10	46
573925H	299	229	0.07	5	490	4	< 2	10	82	0.11	< 10	< 10	81	< 10	40
573926H	299	229	0.06	4	310	6	4	5	86	0.02	< 10	< 10	35	< 10	30

CERTIFICATION: Ryan Beckham

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Y1A 3S9

Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. : I9320014
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573927H	299	229	1.4	1.12	4	110	< 0.5	< 2	2.83	< 0.5	11	138	1455	1.23	< 10	< 1	0.55	< 10	0.82	100	252
573928H	299	229	1.8	1.62	< 2	190	< 0.5	< 2	2.02	< 0.5	10	107	2100	2.14	< 10	< 1	0.63	10	1.09	135	713
573929H	299	229	1.4	1.58	6	190	< 0.5	< 2	1.70	< 0.5	12	150	3090	2.10	< 10	< 1	0.80	10	1.18	100	328
573930H	299	229	2.4	1.64	6	190	< 0.5	< 2	2.19	< 0.5	14	110	3900	1.90	< 10	< 1	0.65	< 10	1.10	135	152
573931H	299	229	3.8	1.34	4	120	< 0.5	< 2	2.44	< 0.5	15	104	5330	1.91	< 10	< 1	0.62	< 10	0.98	140	178
573932H	299	229	1.2	1.43	6	190	< 0.5	< 2	1.56	< 0.5	16	73	2320	2.18	< 10	< 1	0.82	10	1.13	100	121
573933H	299	229	3.0	1.32	< 2	230	< 0.5	< 2	1.87	< 0.5	12	85	2310	2.03	< 10	< 1	0.70	10	0.87	100	92
573934H	299	229	1.6	1.45	22	280	< 0.5	< 2	1.92	< 0.5	11	69	2530	1.66	< 10	< 1	0.67	10	0.93	90	141
573935H	299	229	1.4	1.81	4	170	< 0.5	< 2	2.41	< 0.5	19	84	3160	2.04	< 10	< 1	0.65	< 10	1.14	115	81
573936H	299	229	1.6	1.71	2	80	< 0.5	< 2	2.66	< 0.5	22	90	3400	2.24	< 10	< 1	0.58	< 10	1.03	105	56
573937H	299	229	2.8	1.79	6	110	< 0.5	< 2	1.90	< 0.5	16	109	4190	2.37	< 10	< 1	0.84	10	1.17	125	192
573938H	299	229	1.6	1.75	< 2	150	< 0.5	< 2	1.92	< 0.5	15	105	2580	2.08	< 10	< 1	0.71	10	1.09	120	75
573939H	299	229	1.2	1.47	6	110	< 0.5	< 2	2.03	< 0.5	14	135	2260	1.91	< 10	< 1	0.74	< 10	1.06	95	154
573940H	299	229	0.8	1.64	6	150	< 0.5	< 2	1.58	< 0.5	22	111	2160	2.60	< 10	1	0.83	< 10	1.17	110	42
573941H	299	229	1.2	1.55	8	180	< 0.5	< 2	1.66	< 0.5	17	129	2140	2.21	< 10	< 1	0.81	< 10	1.07	100	40
573942H	299	229	1.2	1.66	8	290	< 0.5	< 2	1.46	< 0.5	15	122	2010	2.01	< 10	< 1	0.82	< 10	1.18	90	72
573943H	299	229	0.6	2.07	< 2	240	< 0.5	< 2	2.36	< 0.5	15	111	1390	2.35	< 10	< 1	0.78	< 10	1.18	110	30
573944H	299	229	0.8	1.81	< 2	260	< 0.5	< 2	2.11	< 0.5	16	106	1105	2.24	< 10	< 1	0.86	< 10	1.12	105	104
573945H	299	229	0.2	2.32	2	170	< 0.5	< 2	3.50	< 0.5	26	92	1355	2.33	< 10	1	0.77	< 10	0.96	95	96
573946H	299	229	0.6	1.76	< 2	130	< 0.5	< 2	2.01	< 0.5	21	103	1770	2.24	< 10	< 1	0.84	10	0.98	100	218
573947H	299	229	1.6	1.78	< 2	100	< 0.5	< 2	3.08	< 0.5	22	69	2950	2.37	< 10	< 1	1.01	< 10	1.09	100	177
573948H	299	229	2.4	2.15	< 2	120	< 0.5	< 2	3.35	< 0.5	21	48	4820	2.44	< 10	< 1	1.23	< 10	1.32	120	268
573949H	299	229	2.2	2.01	2	80	< 0.5	< 2	2.57	< 0.5	40	47	4430	3.64	< 10	< 1	1.09	< 10	1.39	135	237
573950H	299	229	3.4	1.90	< 2	100	< 0.5	< 2	2.71	< 0.5	33	46	6260	2.98	< 10	< 1	1.14	< 10	1.21	100	275
573951H	299	229	4.0	1.78	< 2	100	< 0.5	< 2	2.47	< 0.5	24	40	6800	2.48	< 10	< 1	1.04	< 10	1.13	90	452
573952H	299	229	1.8	2.42	< 2	100	< 0.5	< 2	2.06	< 0.5	43	44	3020	4.52	< 10	< 1	1.26	10	1.40	145	55
573953H	299	229	1.6	2.17	8	110	< 0.5	< 2	2.52	< 0.5	32	44	3320	3.36	< 10	< 1	1.02	< 10	1.15	120	234
573954H	299	229	1.2	2.34	2	110	< 0.5	< 2	2.33	< 0.5	34	39	3350	3.68	< 10	< 1	1.05	< 10	1.25	125	79
573955H	299	229	1.4	2.09	4	120	< 0.5	< 2	2.24	< 0.5	36	43	4210	3.38	< 10	< 1	1.11	< 10	1.22	130	268
573956H	299	229	2.0	2.34	< 2	100	< 0.5	< 2	2.53	< 0.5	28	37	4420	3.75	< 10	< 1	0.95	< 10	1.21	135	91
573957H	299	229	3.4	2.24	< 2	90	< 0.5	< 2	2.38	< 0.5	26	38	3800	3.99	< 10	< 1	0.94	< 10	1.33	170	189
573958H	299	229	2.8	1.96	8	90	< 0.5	< 2	2.49	< 0.5	30	37	3320	3.67	< 10	< 1	0.97	< 10	1.19	170	284
573959H	299	229	3.0	2.67	4	110	< 0.5	< 2	2.19	< 0.5	39	41	4510	4.68	< 10	< 1	1.04	< 10	1.27	175	107
573960H	299	229	2.8	2.60	2	120	< 0.5	< 2	2.20	< 0.5	40	38	4500	4.87	< 10	< 1	1.09	< 10	1.30	175	222
573961H	299	229	4.8	2.93	14	80	< 0.5	< 2	2.15	< 0.5	50	31	3750	5.92	< 10	< 1	1.29	< 10	1.45	190	312
573962H	299	229	2.8	2.74	18	120	< 0.5	< 2	2.90	< 0.5	38	25	2440	3.75	< 10	1	1.08	< 10	1.53	175	214
573963H	299	229	2.6	1.46	< 2	80	< 0.5	< 2	1.93	< 0.5	24	65	3720	2.53	< 10	< 1	0.78	< 10	1.20	120	388
573964H	299	229	2.8	1.46	12	60	< 0.5	< 2	2.13	< 0.5	16	70	3980	2.32	< 10	< 1	0.57	< 10	1.03	120	98
573965H	299	229	2.6	1.28	18	70	< 0.5	< 2	1.93	< 0.5	20	91	2720	2.72	< 10	< 1	0.53	< 10	0.81	100	369
573966H	299	229	1.8	1.70	4	120	< 0.5	< 2	1.67	< 0.5	17	100	2450	2.44	< 10	1	0.93	10	1.23	115	511

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573927H	299	229	0.05	3	430	4	2	8	130	0.06	< 10	< 10	56	< 10	26
573928H	299	229	0.07	4	570	2	4	10	82	0.09	< 10	< 10	71	< 10	32
573929H	299	229	0.09	4	530	2	2	12	81	0.13	< 10	< 10	81	< 10	22
573930H	299	229	0.06	4	530	2	< 2	10	80	0.08	< 10	< 10	73	< 10	32
573931H	299	229	0.07	5	530	4	2	10	98	0.06	< 10	< 10	68	< 10	36
573932H	299	229	0.07	4	530	2	< 2	12	64	0.13	< 10	< 10	83	< 10	24
573933H	299	229	0.08	3	510	4	< 2	11	233	0.10	< 10	< 10	71	< 10	28
573934H	299	229	0.06	3	460	4	2	10	94	0.08	< 10	< 10	66	< 10	18
573935H	299	229	0.08	3	500	6	< 2	10	101	0.08	< 10	< 10	77	< 10	30
573936H	299	229	0.07	3	480	6	< 2	10	107	0.08	< 10	< 10	71	< 10	20
573937H	299	229	0.10	5	540	2	< 2	12	78	0.11	< 10	< 10	91	< 10	32
573938H	299	229	0.09	4	520	4	< 2	10	124	0.09	< 10	< 10	87	< 10	28
573939H	299	229	0.09	3	570	4	< 2	11	166	0.14	< 10	< 10	82	< 10	18
573940H	299	229	0.09	3	570	6	< 2	12	58	0.15	< 10	< 10	92	< 10	22
573941H	299	229	0.09	4	540	4	< 2	11	59	0.13	< 10	< 10	86	< 10	22
573942H	299	229	0.08	4	570	4	< 2	12	90	0.15	< 10	< 10	91	< 10	18
573943H	299	229	0.12	3	530	4	< 2	11	163	0.15	< 10	< 10	86	< 10	20
573944H	299	229	0.07	3	520	4	< 2	11	117	0.12	< 10	< 10	82	< 10	20
573945H	299	229	0.07	3	510	8	< 2	11	95	0.07	< 10	< 10	79	< 10	18
573946H	299	229	0.06	3	510	4	2	12	69	0.09	< 10	< 10	77	< 10	20
573947H	299	229	0.09	3	450	6	2	11	154	0.11	< 10	< 10	89	< 10	20
573948H	299	229	0.08	4	500	4	2	14	152	0.14	< 10	< 10	116	< 10	22
573949H	299	229	0.10	3	490	4	2	12	122	0.15	< 10	< 10	104	10	26
573950H	299	229	0.10	4	440	4	2	12	167	0.14	< 10	< 10	111	< 10	24
573951H	299	229	0.10	4	410	4	2	12	109	0.11	< 10	< 10	108	10	24
573952H	299	229	0.14	3	500	2	< 2	13	84	0.17	< 10	< 10	152	10	30
573953H	299	229	0.14	3	440	4	< 2	11	97	0.12	< 10	< 10	125	10	22
573954H	299	229	0.17	3	480	6	< 2	12	104	0.17	< 10	< 10	162	10	28
573955H	299	229	0.14	4	490	2	2	13	88	0.18	< 10	< 10	130	10	30
573956H	299	229	0.18	3	470	12	< 2	12	126	0.16	< 10	< 10	153	10	32
573957H	299	229	0.16	3	540	8	< 2	12	96	0.17	< 10	< 10	141	10	36
573958H	299	229	0.10	3	520	4	2	12	109	0.14	< 10	< 10	119	10	38
573959H	299	229	0.20	4	530	8	< 2	12	100	0.20	< 10	< 10	150	10	44
573960H	299	229	0.17	4	490	8	< 2	12	89	0.20	< 10	< 10	160	20	42
573961H	299	229	0.19	4	560	10	2	13	91	0.19	< 10	< 10	167	20	50
573962H	299	229	0.16	3	580	20	6	13	127	0.19	< 10	< 10	125	10	52
573963H	299	229	0.06	4	440	4	4	11	68	0.12	< 10	< 10	80	< 10	40
573964H	299	229	0.05	3	440	8	< 2	10	62	0.05	< 10	< 10	71	< 10	34
573965H	299	229	0.05	4	400	14	4	9	48	0.04	< 10	< 10	58	< 10	30
573966H	299	229	0.07	3	480	2	6	13	47	0.14	< 10	< 10	84	< 10	22

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. : I9320014
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
573967H	299	229	0.4	1.60	6	140	< 0.5	< 2	1.53	< 0.5	14	122	1945	2.45	< 10	< 1	0.93	10	1.14	115	66
573968H	299	229	1.4	1.34	18	180	< 0.5	< 2	1.67	< 0.5	14	54	1265	2.42	< 10	< 1	0.64	10	0.91	110	69
573969H	299	229	1.4	1.69	2	310	< 0.5	< 2	2.66	< 0.5	14	120	1275	2.46	< 10	1	0.83	< 10	1.01	130	129
573970H	299	229	3.8	1.11	18	90	< 0.5	8	2.45	< 0.5	19	52	5770	2.86	< 10	< 1	0.51	< 10	0.67	110	133
573971H	299	229	1.4	1.55	< 2	120	< 0.5	< 2	2.03	< 0.5	21	108	3220	2.44	< 10	< 1	0.80	10	0.99	125	62
573972H	299	229	1.2	1.52	< 2	110	< 0.5	< 2	1.52	< 0.5	19	52	3380	2.35	< 10	< 1	0.87	10	1.25	120	82
573973H	299	229	0.6	1.57	< 2	190	< 0.5	< 2	1.25	< 0.5	12	117	1835	1.75	< 10	1	0.73	10	1.06	105	170
573974H	299	229	1.2	1.53	< 2	90	< 0.5	< 2	1.15	< 0.5	16	47	1765	2.49	< 10	< 1	0.65	10	1.17	125	40
573975H	299	229	0.4	1.62	< 2	240	< 0.5	< 2	1.26	< 0.5	15	96	1320	2.48	< 10	< 1	0.79	10	1.20	125	78
573976H	299	229	0.4	1.67	4	300	< 0.5	< 2	1.42	< 0.5	14	34	1275	2.28	< 10	< 1	0.68	10	1.21	115	160
573977H	299	229	0.8	1.74	2	160	< 0.5	< 2	2.04	< 0.5	9	63	1790	1.49	< 10	1	0.51	< 10	0.99	90	628
573978H	299	229	1.6	1.68	4	210	< 0.5	< 2	1.34	< 0.5	19	39	2600	2.74	< 10	< 1	0.55	10	1.12	120	203
573979H	299	229	0.4	1.65	8	250	< 0.5	< 2	1.14	< 0.5	18	116	1105	2.92	< 10	< 1	0.84	10	1.17	130	54
573980H	299	229	0.6	1.44	4	80	< 0.5	< 2	1.02	< 0.5	26	41	1990	3.00	< 10	1	0.69	10	1.09	110	68
573981H	299	229	0.6	1.67	2	330	< 0.5	< 2	1.39	< 0.5	14	130	2280	2.35	< 10	< 1	0.78	10	1.18	105	78
573982H	299	229	0.4	1.48	< 2	330	< 0.5	< 2	1.11	< 0.5	17	49	1575	2.56	< 10	< 1	0.87	10	1.17	110	86
573983H	299	229	0.6	1.70	6	420	< 0.5	< 2	1.23	< 0.5	11	116	1820	2.49	< 10	< 1	0.80	20	1.20	110	43
573984H	299	229	0.6	1.51	< 2	210	< 0.5	< 2	1.62	< 0.5	11	118	1900	2.12	< 10	< 1	0.91	10	1.14	100	99
573985H	299	229	0.6	1.23	2	250	< 0.5	< 2	1.43	< 0.5	12	46	1640	1.81	< 10	< 1	0.78	10	1.10	85	55

CERTIFICATION: Ian Bradshaw

Chemex Labs Ltd.

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 186
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-SEP-93
Invoice No. : I9320014
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320014

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
573967H	299	229	0.09	3	460	4	< 2	13	49	0.14	< 10	< 10	91	< 10	22
573968H	299	229	0.04	2	480	6	< 2	10	42	0.09	< 10	< 10	72	< 10	34
573969H	299	229	0.07	3	530	4	2	13	71	0.13	< 10	< 10	85	< 10	34
573970H	299	229	0.03	3	420	16	2	9	58	0.05	< 10	< 10	56	< 10	42
573971H	299	229	0.08	3	460	6	< 2	13	90	0.10	< 10	< 10	86	< 10	26
573972H	299	229	0.04	2	500	4	< 2	14	51	0.11	< 10	< 10	99	< 10	42
573973H	299	229	0.07	4	430	14	2	11	47	0.08	< 10	< 10	86	< 10	30
573974H	299	229	0.06	2	490	6	< 2	12	61	0.12	< 10	< 10	88	< 10	34
573975H	299	229	0.10	3	500	8	< 2	14	90	0.19	< 10	< 10	99	< 10	24
573976H	299	229	0.07	2	530	6	2	13	153	0.20	< 10	< 10	99	< 10	28
573977H	299	229	0.08	3	470	8	4	11	67	0.12	< 10	< 10	79	< 10	22
573978H	299	229	0.07	3	500	6	2	12	157	0.15	< 10	< 10	88	< 10	30
573979H	299	229	0.10	4	510	6	2	12	90	0.18	< 10	< 10	97	< 10	24
573980H	299	229	0.06	2	470	4	2	11	43	0.12	< 10	< 10	93	< 10	20
573981H	299	229	0.10	4	450	8	2	13	64	0.17	< 10	< 10	97	< 10	18
573982H	299	229	0.06	2	510	4	< 2	14	85	0.21	< 10	< 10	104	< 10	20
573983H	299	229	0.10	3	480	6	< 2	13	72	0.21	< 10	< 10	99	< 10	20
573984H	299	229	0.10	3	480	6	2	13	87	0.19	< 10	< 10	97	< 10	18
573985H	299	229	0.05	3	480	4	2	12	53	0.17	< 10	< 10	92	< 10	18

CERTIFICATION:

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :3
Certificate Date: 29-AUG-93
Invoice No. :19319256
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319256

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H571259	208 274	< 0.01	< 0.001	0.10	7000
H571260	208 276	< 0.01	< 0.001	0.14	8390
H571261	208 276	< 0.01	< 0.001	0.14	7380
H571262	208 276	< 0.01	< 0.001	0.14	9580
H571263	208 276	< 0.01	< 0.001	0.10	7300
H571264	208 276	< 0.01	< 0.001	0.17	10690
H571265	208 276	< 0.01	< 0.001	0.10	8860
H571266	208 274	< 0.01	< 0.001	0.41	1080
H571267	208 276	< 0.01	< 0.001	0.34	9880
H571268	208 274	< 0.01	< 0.001	0.10	3860
H571269	208 276	< 0.01	< 0.001	0.14	10520
H571270	208 276	< 0.01	< 0.001	0.17	10100
H571271	208 276	< 0.01	< 0.001	0.10	11080
H571272	208 273	< 0.01	< 0.001	0.14	12200
H571273	208 276	< 0.01	< 0.001	0.17	8880
H571274	208 276	< 0.01	0.001	0.14	9760
H571275	208 276	< 0.01	< 0.001	0.31	10620
H571276	208 276	< 0.01	< 0.001	0.17	9590
H571277	208 276	< 0.01	< 0.001	0.31	9070
H571278	208 276	< 0.01	< 0.001	0.17	10040
H571279	208 276	< 0.01	< 0.001	0.21	10860
H571280	208 276	< 0.01	< 0.001	0.55	9160
H571281	208 276	< 0.01	< 0.001	0.17	8190
H571282	208 276	0.02	< 0.001	0.24	11360
H571283	208 273	0.03	< 0.001	0.21	14160
H571284	208 276	0.03	< 0.001	0.24	9380
H571285	208 276	< 0.01	< 0.001	0.10	10160
H571286	208 273	0.04	< 0.001	0.17	12080
H571287	208 276	0.03	< 0.001	0.17	10780
H571288	208 276	0.04	< 0.001	0.24	11720
H571289	208 276	0.04	< 0.001	0.34	8200
H571290	208 274	0.02	< 0.001	0.10	7200
H571291	208 273	0.04	< 0.001	0.17	13760
H571292	208 274	0.06	< 0.001	0.17	4300
H571293	208 273	0.03	< 0.001	0.21	13060
H571294	208 273	0.02	< 0.001	0.07	13700
H571295	208 274	0.06	< 0.001	0.14	6560
H571296	208 273	0.02	< 0.001	0.10	12820
H571297	208 273	0.03	0.001	0.17	12500
H571298	208 273	0.03	< 0.001	0.58	13000

CERTIFICATION:

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-AUG-93
Invoice No. :19319256
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319256

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H571299	208	273	0.05	< 0.001	0.21	12880						
H571300	208	274	0.02	< 0.001	0.10	1190						
H571301	208	273	0.03	< 0.001	0.10	13320						
H571302	208	273	0.02	< 0.001	0.14	14140						
H571303	208	273	0.03	< 0.001	0.17	13070						
H571304	208	273	0.03	< 0.001	0.14	14280						
H571305	208	273	0.07	< 0.001	0.14	13440						
H571306	208	273	0.04	< 0.001	0.10	12860						
H571307	208	273	0.03	< 0.001	0.10	13150						
H571308	208	276	0.03	< 0.001	0.14	11340						
H571309	208	273	0.04	< 0.001	0.17	13380						
H571310	208	273	0.02	< 0.001	0.07	12820						
H571311	208	273	0.02	< 0.001	0.24	13260						
H571312	208	273	0.03	< 0.001	0.10	13800						
H571313	208	273	0.03	0.001	0.17	14660						
H571314	208	273	0.01	0.001	0.14	15000						
H571315	208	273	0.04	< 0.001	0.27	14160						
H571316	208	273	0.02	< 0.001	0.07	14360						
H571317	208	273	0.01	< 0.001	< 0.03	13300						
H571318	208	273	0.03	< 0.001	0.03	14360						
H571319	208	273	0.03	< 0.001	0.07	13880						
H571320	208	273	0.03	< 0.001	< 0.03	12700						
H571321	208	273	0.02	< 0.001	0.03	13340						
H571322	208	273	0.02	< 0.001	< 0.03	13040						
H571323	208	273	0.04	< 0.001	0.17	13740						
H571324	208	273	0.03	< 0.001	0.10	13630						
H571325	208	273	0.01	< 0.001	< 0.03	13320						
H571326	208	273	0.02	< 0.001	0.10	13540						
H571327	208	273	0.03	< 0.001	0.07	13780						
H571328	208	273	0.02	< 0.001	< 0.03	13560						
H571329	208	273	0.02	< 0.001	0.10	12600						
H571330	208	273	0.02	0.001	0.07	14140						
H571331	208	273	0.04	< 0.001	0.17	13220						
H571332	208	273	0.02	< 0.001	0.21	12340						
H571333	208	273	0.02	< 0.001	0.03	13060						
H571334	208	273	0.03	< 0.001	0.10	12660						
H571335	208	273	0.02	< 0.001	0.10	13700						
H571336	208	273	0.02	< 0.001	0.07	12980						
H571337	208	273	0.02	< 0.001	0.07	13080						
H571338	208	273	0.04	< 0.001	0.41	12540						

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
Total Pages :3
Certificate Date: 29-AUG-93
Invoice No. :19319256
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319256

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H571339	208	273	0.01	0.001	0.10	13200						
H571340	208	273	0.02	< 0.001	< 0.03	12760						
H571341	208	273	0.03	0.001	0.10	13020						
H571342	208	273	0.03	0.001	0.03	12360						
H571343	208	273	0.02	0.001	0.07	13700						
H571344	208	273	0.03	0.001	0.14	12360						
H571345	208	273	0.02	0.001	0.10	12420						
H571346	208	273	0.02	< 0.001	0.10	13160						
H571347	208	273	0.03	< 0.001	0.14	13200						
H571348	208	273	0.02	< 0.001	0.07	12520						
H571349	208	273	0.03	< 0.001	0.10	12700						
H571350	208	273	0.04	< 0.001	0.10	12660						
H571351	208	273	0.02	0.002	0.14	12700						
H571352	208	273	0.03	< 0.001	0.07	11820						
H571353	208	273	0.02	< 0.001	< 0.03	13300						
H571354	208	276	0.02	< 0.001	< 0.03	9920						
H571355	208	276	0.01	< 0.001	< 0.03	10680						
H571356	208	273	0.01	0.001	< 0.03	12320						
H571357	208	276	0.01	0.001	< 0.03	9920						
H571358	208	273	0.02	< 0.001	< 0.03	12600						
H571359	208	274	0.03	< 0.001	< 0.03	5920						
H571360	208	276	0.02	0.001	< 0.03	10400						
H571361	208	276	0.02	< 0.001	< 0.03	9060						
H571362	208	273	0.01	< 0.001	0.07	12020						
H571363	208	273	0.02	< 0.001	0.03	13920						
H571364	208	273	0.03	< 0.001	< 0.03	12900						
H571365	208	273	0.02	0.001	< 0.03	12940						
H571366	208	273	0.02	< 0.001	0.07	14620						

CERTIFICATION: Derek Vader

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :3
Certificate Date: 26-AUG-93
Invoice No. :19319257
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319257

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#571259	299	229	0.4	0.51	8	180	< 0.5	4	0.02	< 0.5	< 1	88	24	1.88	< 10	< 1	0.45	10	0.04	10	2
#571260	299	229	0.6	0.36	20	160	< 0.5	8	0.02	< 0.5	< 1	83	15	2.38	< 10	< 1	0.49	10	0.03	10	4
#571261	299	229	0.2	0.27	14	150	< 0.5	2	0.01	< 0.5	< 1	59	16	2.36	< 10	< 1	0.61	< 10	0.01	5	6
#571262	299	229	0.4	0.26	16	190	< 0.5	< 2	0.01	< 0.5	< 1	63	14	2.77	< 10	< 1	0.69	10	0.01	5	3
#571263	299	229	0.8	0.24	6	220	< 0.5	4	0.01	< 0.5	< 1	55	10	2.07	< 10	< 1	0.53	10	0.01	5	2
#571264	299	229	0.2	0.29	12	210	< 0.5	2	0.01	< 0.5	< 1	80	9	2.32	< 10	< 1	0.61	10	0.01	5	4
#571265	299	229	0.2	0.24	6	190	< 0.5	< 2	0.01	< 0.5	< 1	54	10	2.01	< 10	< 1	0.53	10	0.01	5	2
#571266	299	229	1.2	0.32	6	200	< 0.5	6	< 0.01	< 0.5	< 1	101	13	1.16	< 10	< 1	0.37	10	0.01	5	2
#571267	299	229	1.4	0.35	22	140	< 0.5	4	0.01	< 0.5	< 1	103	21	1.62	< 10	< 1	0.25	20	0.02	10	1
#571268	299	229	0.6	0.28	4	150	< 0.5	2	0.01	< 0.5	< 1	82	12	0.84	< 10	< 1	0.23	10	0.02	5	1
#571269	299	229	0.6	0.44	6	170	< 0.5	2	0.01	< 0.5	< 1	92	15	1.57	< 10	< 1	0.32	10	0.03	5	1
#571270	299	229	1.6	0.51	4	240	< 0.5	4	0.02	< 0.5	< 1	154	16	1.92	< 10	< 1	0.51	10	0.03	10	3
#571271	299	229	2.6	0.32	6	180	0.5	4	0.01	< 0.5	< 1	101	14	1.20	< 10	< 1	0.37	10	0.01	10	1
#571272	299	229	0.8	0.29	24	250	< 0.5	2	0.01	< 0.5	< 1	73	11	1.69	< 10	< 1	0.49	10	0.01	10	1
#571273	299	229	1.2	0.39	16	210	0.5	2	0.01	< 0.5	< 1	100	23	1.25	< 10	< 1	0.42	10	0.03	10	7
#571274	299	229	1.2	0.41	12	200	< 0.5	< 2	0.01	< 0.5	< 1	90	28	1.55	< 10	< 1	0.38	10	0.03	30	11
#571275	299	229	0.8	0.42	14	170	< 0.5	2	0.01	< 0.5	< 1	92	47	1.92	< 10	< 1	0.30	20	0.03	115	1
#571276	299	229	2.8	0.35	12	200	< 0.5	6	0.01	< 0.5	< 1	88	16	1.13	< 10	< 1	0.33	10	0.03	10	1
#571277	299	229	1.2	0.38	12	230	0.5	8	0.01	< 0.5	< 1	101	19	1.41	< 10	< 1	0.43	10	0.02	10	2
#571278	299	229	0.6	0.38	14	180	< 0.5	6	0.01	< 0.5	< 1	100	27	2.23	< 10	< 1	0.47	10	0.03	30	3
#571279	299	229	1.6	0.49	6	190	0.5	10	0.01	< 0.5	< 1	104	19	1.88	10	< 1	0.45	10	0.04	10	2
#571280	299	229	1.8	0.38	36	140	< 0.5	12	0.01	< 0.5	< 1	100	21	2.58	< 10	< 1	0.45	20	0.03	20	2
#571281	299	229	2.2	0.49	16	180	< 0.5	10	0.01	< 0.5	< 1	110	42	1.83	10	< 1	0.48	20	0.04	15	1
#571282	299	229	2.2	0.77	38	70	0.5	8	0.06	< 0.5	7	73	222	3.98	10	< 1	0.35	10	0.25	100	2
#571283	299	229	1.2	0.54	20	70	< 0.5	4	0.05	< 0.5	10	78	249	4.35	10	< 1	0.27	10	0.10	225	1
#571284	299	229	1.2	0.59	62	20	0.5	4	0.04	< 0.5	12	56	288	5.60	< 10	< 1	0.22	10	0.06	10	1
#571285	299	229	0.6	0.36	16	30	< 0.5	2	0.01	< 0.5	10	74	45	4.09	< 10	< 1	0.21	10	0.03	5	1
#571286	299	229	0.8	0.45	16	30	< 0.5	4	0.03	< 0.5	12	67	366	4.17	< 10	< 1	0.21	< 10	0.04	30	2
#571287	299	229	1.0	0.40	20	30	< 0.5	4	0.02	< 0.5	11	76	265	4.15	10	< 1	0.19	10	0.04	10	1
#571288	299	229	0.4	0.61	6	30	< 0.5	2	0.09	< 0.5	14	55	431	3.69	< 10	< 1	0.14	10	0.04	90	2
#571289	299	229	0.4	0.80	4	40	< 0.5	< 2	0.12	0.5	13	84	409	4.02	< 10	< 1	0.26	10	0.06	255	1
#571290	299	229	< 0.2	0.91	4	40	< 0.5	< 2	0.11	< 0.5	16	107	211	4.55	< 10	< 1	0.30	10	0.07	125	1
#571291	299	229	0.4	0.72	6	60	< 0.5	< 2	0.36	< 0.5	11	82	343	4.65	< 10	< 1	0.30	< 10	0.17	355	1
#571292	299	229	0.8	1.03	6	70	< 0.5	2	0.18	0.5	10	80	527	4.10	< 10	< 1	0.40	10	0.12	825	6
#571293	299	229	0.6	0.85	8	40	< 0.5	2	0.23	< 0.5	10	107	247	4.43	< 10	< 1	0.33	< 10	0.14	215	3
#571294	299	229	0.4	0.66	6	60	< 0.5	< 2	0.57	< 0.5	10	118	143	4.40	< 10	< 1	0.30	< 10	0.30	350	1
#571295	299	229	1.4	0.95	< 2	70	< 0.5	4	0.31	0.5	14	112	581	4.88	< 10	< 1	0.38	10	0.25	570	1
#571296	299	229	0.6	1.00	< 2	30	< 0.5	< 2	0.86	0.5	15	139	179	5.65	10	< 1	0.33	10	0.47	485	2
#571297	299	229	1.0	1.01	2	80	< 0.5	8	0.50	< 0.5	10	100	265	4.04	10	< 1	0.29	10	0.39	540	8
#571298	299	229	0.4	0.91	< 2	90	< 0.5	2	0.77	< 0.5	10	124	265	4.46	< 10	< 1	0.36	10	0.33	320	1

CERTIFICATION: Ian A Bachler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. :I9319257
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319257

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B571259	299	229	0.01	< 1	150	22	< 2	1	9	< 0.01	< 10	< 10	8	< 10	30
B571260	299	229	0.01	1	190	26	2	< 1	8	< 0.01	< 10	< 10	9	< 10	12
B571261	299	229	0.01	< 1	280	12	< 2	1	4	< 0.01	< 10	< 10	4	< 10	14
B571262	299	229	0.01	< 1	320	12	< 2	1	5	< 0.01	< 10	< 10	4	< 10	26
B571263	299	229	0.01	< 1	210	20	< 2	< 1	6	< 0.01	< 10	< 10	3	< 10	34
B571264	299	229	0.01	< 1	200	18	< 2	< 1	9	< 0.01	< 10	< 10	6	< 10	26
B571265	299	229	0.01	1	160	8	< 2	< 1	4	< 0.01	< 10	< 10	4	< 10	28
B571266	299	229	0.01	1	170	10	< 2	< 1	4	< 0.01	< 10	< 10	3	< 10	34
B571267	299	229	0.01	1	220	18	4	< 1	4	< 0.01	< 10	< 10	10	< 10	44
B571268	299	229	< 0.01	1	120	10	< 2	< 1	3	< 0.01	< 10	< 10	4	< 10	20
B571269	299	229	< 0.01	1	150	20	< 2	< 1	7	< 0.01	< 10	< 10	8	< 10	48
B571270	299	229	0.01	1	70	26	< 2	< 1	5	< 0.01	< 10	< 10	7	< 10	16
B571271	299	229	< 0.01	1	110	150	2	< 1	5	< 0.01	< 10	< 10	1	< 10	20
B571272	299	229	< 0.01	< 1	90	30	< 2	< 1	6	< 0.01	< 10	< 10	3	< 10	12
B571273	299	229	< 0.01	1	100	18	< 2	< 1	5	< 0.01	< 10	< 10	4	< 10	22
B571274	299	229	< 0.01	1	130	24	< 2	< 1	7	< 0.01	< 10	< 10	5	< 10	20
B571275	299	229	< 0.01	< 1	190	14	< 2	1	7	< 0.01	< 10	< 10	7	< 10	46
B571276	299	229	< 0.01	1	170	26	< 2	< 1	4	< 0.01	< 10	< 10	4	< 10	24
B571277	299	229	0.01	< 1	230	40	< 2	1	9	< 0.01	< 10	< 10	4	< 10	24
B571278	299	229	0.01	1	150	14	< 2	< 1	5	< 0.01	< 10	< 10	7	< 10	50
B571279	299	229	0.01	1	160	20	< 2	< 1	7	< 0.01	< 10	< 10	7	< 10	44
B571280	299	229	0.01	1	480	20	2	1	12	< 0.01	< 10	< 10	10	< 10	24
B571281	299	229	0.01	1	460	16	< 2	1	10	< 0.01	< 10	< 10	6	< 10	18
B571282	299	229	0.01	2	390	20	2	2	11	< 0.01	< 10	< 10	11	< 10	60
B571283	299	229	< 0.01	3	570	8	2	1	8	< 0.01	< 10	< 10	11	< 10	94
B571284	299	229	< 0.01	3	540	18	2	2	10	< 0.01	< 10	< 10	7	< 10	16
B571285	299	229	< 0.01	2	180	16	< 2	1	5	< 0.01	< 10	< 10	2	< 10	8
B571286	299	229	< 0.01	3	180	14	< 2	2	4	< 0.01	< 10	< 10	3	< 10	24
B571287	299	229	< 0.01	3	180	32	< 2	2	8	< 0.01	< 10	< 10	3	< 10	66
B571288	299	229	< 0.01	3	550	14	2	1	8	< 0.01	< 10	< 10	8	< 10	52
B571289	299	229	< 0.01	3	560	22	2	1	6	< 0.01	< 10	< 10	11	< 10	68
B571290	299	229	0.01	3	540	12	2	1	8	< 0.01	< 10	< 10	10	< 10	46
B571291	299	229	0.01	3	470	20	2	1	4	< 0.01	< 10	< 10	10	< 10	90
B571292	299	229	0.01	3	750	16	6	1	5	< 0.01	< 10	< 10	12	< 10	96
B571293	299	229	0.01	3	520	20	< 2	1	7	< 0.01	< 10	< 10	8	< 10	54
B571294	299	229	0.01	3	430	2	2	1	6	< 0.01	< 10	< 10	10	< 10	50
B571295	299	229	0.01	3	520	24	< 2	1	6	< 0.01	< 10	< 10	13	< 10	82
B571296	299	229	0.01	2	440	12	< 2	1	10	< 0.01	< 10	< 10	12	< 10	82
B571297	299	229	0.01	4	570	4	2	1	7	< 0.01	< 10	< 10	15	< 10	68
B571298	299	229	0.01	2	530	4	< 2	1	7	< 0.01	< 10	< 10	14	< 10	68

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. : I9319257
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319257

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R571299	299	229	1.8	0.97	2	70	< 0.5	22	0.17	0.5	14	108	564	6.14	< 10	< 1	0.31	20	0.09	965	1
R571300	299	229	0.8	0.99	< 2	40	< 0.5	2	0.10	0.5	11	113	202	6.57	< 10	< 1	0.30	10	0.05	20	2
R571301	299	229	0.6	1.18	< 2	70	< 0.5	2	0.11	1.0	11	109	285	3.49	< 10	< 1	0.35	10	0.07	30	1
R571302	299	229	0.2	1.04	16	30	< 0.5	< 2	0.09	0.5	13	160	190	6.95	< 10	< 1	0.36	10	0.06	15	2
R571303	299	229	0.4	1.06	8	20	< 0.5	2	0.12	< 0.5	11	118	302	5.49	< 10	< 1	0.38	10	0.07	15	1
R571304	299	229	0.4	0.90	8	50	< 0.5	< 2	0.42	< 0.5	12	148	255	5.22	< 10	< 1	0.39	10	0.22	370	1
R571305	299	229	1.2	0.86	2	40	< 0.5	4	0.43	< 0.5	15	118	766	6.69	< 10	< 1	0.31	10	0.19	410	2
R571306	299	229	0.2	0.98	< 2	50	< 0.5	< 2	0.92	< 0.5	13	153	403	5.47	< 10	< 1	0.33	10	0.50	360	1
R571307	299	229	0.6	1.47	< 2	80	< 0.5	< 2	1.10	0.5	9	109	357	3.56	< 10	< 1	0.26	10	0.89	335	< 1
R571308	299	229	0.6	1.60	2	90	< 0.5	< 2	0.96	0.5	11	155	318	3.98	10	< 1	0.38	20	0.85	410	< 1
R571309	299	229	0.6	1.49	2	80	< 0.5	< 2	1.39	< 0.5	9	131	393	6.20	10	< 1	0.41	< 10	0.78	360	1
R571310	299	229	< 0.2	1.14	4	20	< 0.5	< 2	1.18	< 0.5	24	166	202	6.95	< 10	< 1	0.41	10	0.66	210	3
R571311	299	229	0.4	1.04	< 2	90	< 0.5	< 2	1.25	< 0.5	10	135	272	4.54	10	< 1	0.43	10	0.60	370	1
R571312	299	229	0.6	1.32	2	70	< 0.5	< 2	1.40	0.5	14	130	261	4.33	10	< 1	0.33	< 10	0.86	470	< 1
R571313	299	229	0.4	1.04	2	50	< 0.5	< 2	1.18	< 0.5	9	145	286	5.00	< 10	< 1	0.40	10	0.57	315	10
R571314	299	229	0.4	0.88	< 2	90	< 0.5	< 2	1.43	< 0.5	11	145	150	4.12	10	< 1	0.38	10	0.55	415	2
R571315	299	229	6.4	0.73	114	20	< 0.5	2	1.11	2.0	11	86	452	9.46	10	< 1	0.27	< 10	0.47	320	3
R571316	299	229	0.2	0.66	< 2	80	< 0.5	< 2	1.01	< 0.5	9	113	228	4.25	< 10	< 1	0.29	10	0.42	240	< 1
R571317	299	229	< 0.2	0.48	2	70	0.5	2	1.26	< 0.5	10	79	121	4.67	< 10	< 1	0.22	10	0.47	330	1
R571318	299	229	0.2	0.69	< 2	60	< 0.5	2	1.01	< 0.5	10	76	243	4.24	< 10	< 1	0.30	10	0.40	240	1
R571319	299	229	1.8	0.67	4	70	< 0.5	14	0.96	< 0.5	10	120	239	4.15	< 10	< 1	0.29	10	0.43	265	1
R571320	299	229	0.6	1.16	6	60	0.5	< 2	0.93	0.5	9	140	264	3.31	< 10	< 1	0.30	10	0.75	475	< 1
R571321	299	229	0.4	0.94	8	80	0.5	2	1.26	< 0.5	10	114	224	3.62	< 10	< 1	0.32	10	0.65	390	1
R571322	299	229	0.4	0.68	< 2	80	1.0	4	0.93	< 0.5	9	134	243	3.80	< 10	< 1	0.31	10	0.34	315	< 1
R571323	299	229	2.4	0.61	< 2	30	1.0	52	0.74	1.5	13	95	449	5.62	< 10	< 1	0.30	< 10	0.29	250	1
R571324	299	229	0.2	0.82	6	50	< 0.5	< 2	1.08	< 0.5	16	125	336	5.10	< 10	< 1	0.33	10	0.44	230	1
R571325	299	229	< 0.2	0.76	< 2	60	< 0.5	< 2	1.04	< 0.5	9	109	134	4.78	< 10	< 1	0.26	10	0.49	210	< 1
R571326	299	229	0.2	0.77	< 2	70	< 0.5	< 2	1.20	< 0.5	8	131	221	3.67	< 10	< 1	0.26	10	0.52	275	< 1
R571327	299	229	0.2	0.95	2	50	< 0.5	30	1.32	< 0.5	11	72	344	4.67	< 10	< 1	0.18	10	0.65	285	1
R571328	299	229	0.2	1.18	< 2	60	< 0.5	< 2	1.11	< 0.5	9	120	242	3.96	< 10	< 1	0.25	< 10	0.70	215	3
R571329	299	229	0.2	0.77	< 2	80	< 0.5	< 2	1.63	< 0.5	8	111	219	3.74	< 10	< 1	0.24	< 10	0.59	220	1
R571330	299	229	0.2	0.98	< 2	50	< 0.5	< 2	1.14	< 0.5	11	133	227	4.76	< 10	< 1	0.30	10	0.64	170	8
R571331	299	229	0.2	1.19	< 2	60	< 0.5	< 2	1.14	< 0.5	8	114	322	3.53	< 10	< 1	0.27	< 10	0.72	225	< 1
R571332	299	229	0.4	0.86	2	50	< 0.5	4	1.63	< 0.5	9	149	407	4.63	< 10	< 1	0.31	< 10	0.58	210	< 1
R571333	299	229	0.2	0.92	< 2	80	< 0.5	< 2	1.10	< 0.5	11	133	225	4.00	< 10	< 1	0.29	< 10	0.63	185	1
R571334	299	229	0.2	1.05	< 2	80	0.5	< 2	1.52	< 0.5	9	134	322	3.50	< 10	< 1	0.23	10	0.73	270	< 1
R571335	299	229	< 0.2	0.55	< 2	30	< 0.5	< 2	1.32	< 0.5	9	75	161	5.47	< 10	< 1	0.18	< 10	0.59	165	< 1
R571336	299	229	< 0.2	1.04	< 2	60	< 0.5	< 2	1.13	< 0.5	10	120	147	4.93	< 10	< 1	0.28	10	0.68	155	< 1
R571337	299	229	0.2	1.13	< 2	60	< 0.5	< 2	1.32	< 0.5	10	113	216	4.35	10	< 1	0.24	10	0.74	175	< 1
R571338	299	229	0.4	1.66	< 2	70	0.5	< 2	1.13	< 0.5	11	137	323	3.93	10	< 1	0.25	10	0.93	180	< 1

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9319257

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A571299	299	229	0.01	4	510	20	< 2	2	4	< 0.01	< 10	< 10	17	< 10	166
A571300	299	229	0.01	3	600	18	2	1	6	< 0.01	< 10	< 10	11	< 10	98
A571301	299	229	0.01	4	620	32	< 2	2	5	< 0.01	< 10	< 10	16	< 10	164
A571302	299	229	0.01	3	630	16	< 2	1	8	< 0.01	< 10	< 10	10	< 10	46
A571303	299	229	0.01	4	720	12	< 2	1	9	< 0.01	< 10	< 10	10	< 10	32
A571304	299	229	0.01	4	440	6	2	1	5	< 0.01	< 10	< 10	11	< 10	72
A571305	299	229	0.01	4	510	8	2	1	7	< 0.01	< 10	< 10	11	< 10	76
A571306	299	229	0.01	3	440	8	2	1	9	< 0.01	< 10	< 10	11	< 10	70
A571307	299	229	0.01	3	500	14	2	2	14	< 0.01	< 10	< 10	17	< 10	84
A571308	299	229	0.01	3	480	14	2	1	10	< 0.01	< 10	< 10	15	< 10	104
A571309	299	229	0.01	3	460	12	2	2	13	< 0.01	< 10	< 10	16	< 10	82
A571310	299	229	0.02	3	470	2	2	2	13	< 0.01	< 10	< 10	13	< 10	48
A571311	299	229	0.01	4	520	2	2	2	14	< 0.01	< 10	< 10	14	< 10	60
A571312	299	229	0.01	3	500	26	< 2	2	15	< 0.01	< 10	< 10	17	< 10	148
A571313	299	229	0.01	3	500	8	2	2	14	< 0.01	< 10	< 10	13	< 10	70
A571314	299	229	0.01	4	510	28	< 2	2	17	< 0.01	< 10	< 10	14	< 10	90
A571315	299	229	0.01	3	440	84	14	1	5	< 0.01	< 10	< 10	8	< 10	210
A571316	299	229	0.01	3	470	6	2	1	8	< 0.01	< 10	< 10	10	< 10	62
A571317	299	229	< 0.01	3	430	6	< 2	1	13	< 0.01	< 10	< 10	8	< 10	70
A571318	299	229	0.01	2	420	2	< 2	1	6	< 0.01	< 10	< 10	10	< 10	52
A571319	299	229	0.01	3	410	8	2	1	7	< 0.01	< 10	< 10	8	< 10	80
A571320	299	229	0.02	3	470	10	< 2	2	31	< 0.01	< 10	< 10	14	< 10	126
A571321	299	229	0.01	3	470	4	2	1	13	< 0.01	< 10	< 10	13	< 10	82
A571322	299	229	< 0.01	3	480	4	< 2	1	6	< 0.01	< 10	< 10	11	< 10	74
A571323	299	229	0.01	3	460	22	2	1	6	< 0.01	< 10	< 10	7	< 10	198
A571324	299	229	0.01	3	480	6	2	1	7	< 0.01	< 10	< 10	11	< 10	70
A571325	299	229	< 0.01	4	410	< 2	< 2	1	11	< 0.01	< 10	< 10	9	< 10	46
A571326	299	229	< 0.01	3	390	2	< 2	1	16	< 0.01	< 10	< 10	11	< 10	52
A571327	299	229	< 0.01	3	450	8	< 2	1	15	< 0.01	< 10	< 10	13	< 10	52
A571328	299	229	0.01	3	420	< 2	< 2	1	19	< 0.01	< 10	< 10	13	< 10	44
A571329	299	229	< 0.01	3	410	2	< 2	1	20	< 0.01	< 10	< 10	11	< 10	40
A571330	299	229	0.01	3	430	2	< 2	1	21	< 0.01	< 10	< 10	13	< 10	44
A571331	299	229	0.01	3	460	2	< 2	1	24	< 0.01	< 10	< 10	14	< 10	68
A571332	299	229	0.01	3	460	6	< 2	1	22	< 0.01	< 10	< 10	12	< 10	48
A571333	299	229	0.01	3	470	< 2	< 2	1	20	< 0.01	< 10	< 10	12	< 10	62
A571334	299	229	0.01	3	500	4	< 2	1	24	< 0.01	< 10	< 10	14	< 10	70
A571335	299	229	< 0.01	2	430	2	< 2	1	19	< 0.01	< 10	< 10	9	< 10	36
A571336	299	229	0.01	3	480	2	< 2	1	22	< 0.01	< 10	< 10	14	< 10	34
A571337	299	229	0.01	3	470	2	< 2	2	29	< 0.01	< 10	< 10	16	< 10	34
A571338	299	229	0.01	3	520	6	< 2	3	55	< 0.01	< 10	< 10	26	< 10	46

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

P. umber :3-A
Total Pages :3
Certificate Date: 26-AUG-93
Invoice No. :19319257
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319257

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
R571339	299	229	< 0.2	0.77	< 2	60	< 0.5	< 2	1.24	< 0.5	9	82	130	4.48	< 10	< 1	0.21	< 10	0.64	125	2
R571340	299	229	< 0.2	1.33	2	50	< 0.5	< 2	0.96	< 0.5	9	113	178	3.53	< 10	< 1	0.21	10	0.92	180	< 1
R571341	299	229	< 0.2	1.02	< 2	70	< 0.5	< 2	1.23	< 0.5	12	98	287	4.27	< 10	< 1	0.20	10	0.93	170	3
R571342	299	229	0.2	0.77	< 2	50	< 0.5	< 2	1.12	< 0.5	12	115	263	4.11	< 10	< 1	0.22	10	0.57	95	6
R571343	299	229	0.2	0.83	< 2	60	< 0.5	< 2	0.93	< 0.5	11	102	216	4.14	< 10	< 1	0.23	10	0.66	125	4
R571344	299	229	0.8	0.74	4	60	< 0.5	4	1.40	< 0.5	15	123	340	4.34	10	< 1	0.31	10	0.49	195	1
R571345	299	229	0.6	0.88	24	60	< 0.5	4	1.57	< 0.5	11	103	232	3.62	10	< 1	0.25	< 10	0.61	145	1
R571346	299	229	0.2	1.32	< 2	70	< 0.5	< 2	1.33	< 0.5	11	132	235	3.79	10	< 1	0.33	10	0.87	150	< 1
R571347	299	229	0.2	1.14	2	50	< 0.5	< 2	1.30	< 0.5	15	100	277	4.07	10	< 1	0.26	10	0.88	140	< 1
R571348	299	229	0.2	1.08	4	70	< 0.5	< 2	1.20	< 0.5	11	121	217	3.57	10	< 1	0.27	10	0.78	140	1
R571349	299	229	0.2	0.76	2	60	< 0.5	< 2	1.68	< 0.5	12	106	285	5.10	< 10	< 1	0.25	< 10	0.75	150	< 1
R571350	299	229	0.2	0.75	4	60	< 0.5	< 2	0.94	< 0.5	13	118	384	5.13	< 10	< 1	0.26	< 10	0.51	105	< 1
R571351	299	229	0.2	1.02	< 2	80	< 0.5	< 2	1.05	< 0.5	15	122	257	4.06	< 10	< 1	0.31	10	0.68	105	11
R571352	299	229	0.2	1.31	< 2	80	< 0.5	< 2	1.13	< 0.5	12	141	288	3.78	10	< 1	0.28	10	0.89	180	< 1
R571353	299	229	< 0.2	0.61	< 2	60	< 0.5	2	1.15	< 0.5	11	116	168	4.87	< 10	< 1	0.29	10	0.48	125	< 1
R571354	299	229	< 0.2	0.70	< 2	30	< 0.5	< 2	1.10	< 0.5	26	131	277	6.34	< 10	< 1	0.31	< 10	0.49	120	< 1
R571355	299	229	< 0.2	0.75	< 2	30	< 0.5	2	0.16	< 0.5	17	110	122	5.93	< 10	< 1	0.28	10	0.11	50	< 1
R571356	299	229	< 0.2	0.68	2	10	< 0.5	< 2	0.14	< 0.5	28	115	115	6.77	< 10	< 1	0.27	10	0.06	15	1
R571357	299	229	< 0.2	0.75	2	30	< 0.5	< 2	0.15	< 0.5	15	105	135	5.76	< 10	< 1	0.25	10	0.07	80	1
R571358	299	229	0.2	0.77	4	40	< 0.5	8	0.17	< 0.5	13	117	192	5.07	< 10	< 1	0.25	10	0.08	90	< 1
R571359	299	229	0.2	0.56	4	20	< 0.5	< 2	0.15	< 0.5	10	91	296	6.11	< 10	< 1	0.23	10	0.06	40	1
R571360	299	229	0.2	0.56	2	40	< 0.5	2	0.15	< 0.5	13	98	242	4.36	< 10	< 1	0.24	10	0.06	85	6
R571361	299	229	< 0.2	0.73	< 2	20	< 0.5	< 2	0.15	< 0.5	10	106	241	6.07	< 10	< 1	0.32	< 10	0.07	160	1
R571362	299	229	< 0.2	0.76	8	10	< 0.5	< 2	0.14	< 0.5	32	130	119	7.63	< 10	< 1	0.37	< 10	0.08	35	6
R571363	299	229	0.2	0.74	< 2	50	< 0.5	2	0.15	< 0.5	13	99	213	4.25	< 10	< 1	0.31	10	0.08	80	1
R571364	299	229	0.2	0.90	4	60	< 0.5	< 2	0.16	< 0.5	12	122	322	3.99	< 10	< 1	0.33	10	0.08	95	1
R571365	299	229	0.2	0.72	< 2	30	< 0.5	< 2	0.14	< 0.5	11	97	191	4.40	< 10	< 1	0.33	< 10	0.07	85	5
R571366	299	229	< 0.2	0.49	2	30	< 0.5	< 2	0.12	< 0.5	10	84	226	5.28	< 10	< 1	0.22	< 10	0.07	110	1

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 187
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-AUG-93
Invoice No. : I9319257
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319257

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H571339	299	229	0.01	3	400	4	< 2	1	34	< 0.01	< 10	< 10	10	< 10	24
H571340	299	229	0.02	3	490	< 2	< 2	2	52	< 0.01	< 10	< 10	21	< 10	32
H571341	299	229	0.01	3	540	< 2	< 2	2	30	< 0.01	< 10	< 10	15	< 10	30
H571342	299	229	0.01	2	500	12	< 2	2	26	< 0.01	< 10	< 10	12	< 10	22
H571343	299	229	0.01	3	460	6	< 2	2	23	< 0.01	< 10	< 10	13	< 10	38
H571344	299	229	0.01	3	560	16	< 2	2	16	< 0.01	< 10	< 10	17	< 10	54
H571345	299	229	0.01	3	500	4	< 2	2	57	< 0.01	< 10	< 10	14	< 10	30
H571346	299	229	0.02	3	540	2	< 2	2	151	< 0.01	< 10	< 10	21	< 10	32
H571347	299	229	0.01	3	500	< 2	< 2	2	56	< 0.01	< 10	< 10	15	< 10	28
H571348	299	229	0.01	3	530	2	< 2	2	41	< 0.01	< 10	< 10	16	< 10	32
H571349	299	229	0.01	3	460	< 2	< 2	2	24	< 0.01	< 10	< 10	13	< 10	26
H571350	299	229	0.01	3	490	10	< 2	1	17	< 0.01	< 10	< 10	11	< 10	54
H571351	299	229	0.02	3	540	< 2	< 2	2	26	< 0.01	< 10	< 10	17	< 10	22
H571352	299	229	0.02	2	550	< 2	< 2	2	52	< 0.01	< 10	< 10	21	< 10	30
H571353	299	229	0.01	3	530	< 2	< 2	1	15	< 0.01	< 10	< 10	11	< 10	22
H571354	299	229	0.02	3	540	< 2	< 2	1	14	< 0.01	< 10	< 10	8	10	18
H571355	299	229	0.01	4	550	< 2	< 2	2	8	< 0.01	< 10	< 10	12	< 10	14
H571356	299	229	0.01	2	490	< 2	< 2	1	7	< 0.01	< 10	< 10	7	< 10	16
H571357	299	229	0.01	3	520	2	< 2	2	8	< 0.01	< 10	< 10	12	< 10	20
H571358	299	229	0.01	4	580	2	2	2	9	< 0.01	< 10	< 10	12	< 10	18
H571359	299	229	0.01	3	500	6	< 2	1	7	< 0.01	< 10	< 10	7	10	28
H571360	299	229	0.01	3	550	4	< 2	1	7	< 0.01	< 10	< 10	9	< 10	24
H571361	299	229	0.01	3	540	< 2	< 2	1	7	< 0.01	< 10	< 10	9	10	18
H571362	299	229	0.01	3	450	< 2	< 2	1	6	< 0.01	< 10	< 10	7	10	20
H571363	299	229	0.01	3	570	2	< 2	1	7	< 0.01	< 10	< 10	10	< 10	18
H571364	299	229	0.01	4	610	< 2	< 2	2	8	< 0.01	< 10	< 10	15	< 10	38
H571365	299	229	0.01	3	540	< 2	< 2	1	6	< 0.01	< 10	< 10	10	10	26
H571366	299	229	0.01	3	450	< 2	< 2	1	4	< 0.01	< 10	< 10	6	10	26

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :4
Certificate Date: 06-SEP-93
Invoice No. :I9320033
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320033

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
564946H	208	274	< 0.01	0.019	0.24	4660						
564947H	208	276	< 0.01	0.020	0.24	10440						
564948H	208	276	< 0.01	0.016	0.27	8120						
564949H	208	273	< 0.01	0.022	0.24	12280						
564950H	208	274	< 0.01	0.023	0.14	5740						
564951H	208	273	< 0.01	0.015	0.24	13760						
564952H	208	274	< 0.01	0.009	0.24	4740						
564953H	208	276	< 0.01	0.012	0.17	8600						
564954H	208	273	< 0.01	0.014	0.21	12920						
564955H	208	276	< 0.01	0.013	0.21	10240						
564956H	208	273	< 0.01	0.017	0.17	12180						
564957H	208	276	0.01	0.017	0.21	10980						
564958H	208	273	< 0.01	0.026	0.21	13000						
564959H	208	273	0.01	0.040	0.27	12420						
564960H	208	273	0.01	0.020	0.17	12600						
564961H	208	276	0.01	0.025	0.27	10040						
564962H	208	273	< 0.01	0.024	0.24	12280						
564963H	208	273	< 0.01	0.034	0.21	12620						
564964H	208	273	< 0.01	0.022	0.17	13500						
564965H	208	273	0.01	0.024	0.24	12240						
564966H	208	273	0.01	0.025	0.27	12500						
564967H	208	276	< 0.01	0.016	0.21	11300						
564968H	208	276	< 0.01	0.018	0.31	10120						
564969H	208	276	< 0.01	0.023	0.34	10550						
564970H	208	276	< 0.01	0.028	1.64	11640						
564971H	208	273	0.01	0.024	0.34	11880						
564972H	208	276	0.01	0.019	0.27	11060						
564973H	208	276	0.01	0.020	0.17	11320						
564974H	208	273	0.01	0.041	0.21	12260						
564975H	208	276	0.01	0.039	0.27	11520						
564976H	208	276	0.01	0.022	0.21	10760						
564977H	208	276	0.01	0.022	0.27	11560						
564978H	208	276	0.01	0.024	0.38	11420						
564979H	208	273	0.01	0.027	0.41	12080						
564980H	208	276	< 0.01	0.015	0.24	10000						
564981H	208	276	0.01	0.013	0.21	10280						
564982H	208	276	0.01	0.017	0.38	10760						
564983H	208	273	0.01	0.013	0.21	11980						
564984H	208	276	0.18	0.022	0.34	11560						
564985H	208	276	0.26	0.028	0.24	11460						

CERTIFICATION: Mark Vont

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. :19320033
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320033

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
564986H	208	276	0.22	0.013	0.31	11000						
564987H	208	276	0.28	0.019	0.21	9020						
564988H	208	273	0.21	0.017	0.34	12780						
564989H	208	273	0.33	0.027	0.38	11820						
564990H	208	276	0.42	0.044	0.58	11100						
564991H	208	273	0.37	0.095	0.51	12040						
564992H	208	276	0.22	0.050	0.27	11140						
564993H	208	276	0.26	0.068	0.24	10540						
564994H	208	273	0.21	0.143	0.27	12760						
564995H	208	273	0.24	0.218	0.48	12260						
564996H	208	273	0.17	0.015	0.10	12460						
564997H	208	273	0.16	0.018	0.14	12500						
564998H	208	273	0.24	0.017	0.21	12180						
564999H	208	276	0.26	0.036	0.27	11500						
565000H	208	273	0.15	0.009	0.14	12580						
565001H	208	273	0.12	0.017	0.14	12280						
565002H	208	273	0.06	0.022	0.21	12120						
565003H	208	273	0.19	0.030	0.17	12000						
565004H	208	273	0.17	0.042	0.17	13380						
565005H	208	273	0.14	0.032	0.17	11860						
565006H	208	273	0.21	0.031	0.41	12000						
565007H	208	273	0.23	0.028	0.17	11860						
565008H	208	276	0.29	0.031	0.31	11680						
565009H	208	273	0.16	0.028	0.24	12300						
565010H	208	273	0.15	0.022	0.21	13000						
565011H	208	273	0.17	0.014	0.41	13100						
565012H	208	273	0.16	0.031	0.14	13140						
565013H	208	273	0.13	0.018	0.07	13040						
565014H	208	276	0.24	0.015	0.21	11700						
565015H	208	276	0.37	0.050	0.34	10240						
565016H	208	273	0.20	0.009	0.21	11920						
565017H	208	273	0.20	0.022	0.24	12240						
565018H	208	273	0.22	0.017	0.24	12700						
565019H	208	276	0.15	0.013	0.17	10760						
565020H	208	273	0.19	0.019	0.17	15300						
565021H	208	273	0.13	0.015	0.17	12120						
565022H	208	276	0.18	0.011	0.21	11380						
565023H	208	273	0.21	0.017	0.24	12700						
565024H	208	273	0.14	0.034	0.10	12000						
565025H	208	276	0.28	0.024	0.27	11360						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. : I9320033
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320033

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
565026H	208	276	0.31	0.038	0.34	9880						
565027H	208	276	0.16	0.019	0.21	11740						
565028H	208	276	0.14	0.028	0.14	9460						
565029H	208	276	0.14	0.107	0.10	9160						
565030H	208	273	0.16	0.052	0.10	12520						
565031H	208	273	0.17	0.042	0.17	12160						
565032H	208	274	0.18	0.049	0.14	5580						
565033H	208	276	0.13	0.038	0.14	11580						
565034H	208	276	0.24	0.053	0.17	8900						
565035H	208	273	0.11	0.064	0.14	11840						
565036H	208	276	0.14	0.030	0.10	11640						
565037H	208	276	0.21	0.034	0.21	11140						
565038H	208	273	0.25	0.046	0.21	12820						
565039H	208	276	0.21	0.020	0.24	11780						
565040H	208	273	0.22	0.044	0.21	12260						
565041H	208	276	0.19	0.032	0.24	10760						
565042H	208	273	0.19	0.018	0.38	12800						
565043H	208	273	0.19	0.044	0.24	12220						
565044H	208	273	0.16	0.022	0.17	12780						
565045H	208	273	0.24	0.026	0.27	12100						
565046H	208	273	0.19	0.017	0.21	12000						
565047H	208	276	0.14	0.199	0.14	11430						
565048H	208	276	0.18	0.019	0.17	10000						
565049H	208	274	0.14	0.025	0.17	7040						
565050H	208	274	0.26	0.029	0.27	6560						
565051H	208	274	0.18	0.017	0.24	6700						
565052H	208	274	0.29	0.094	0.27	6800						
565053H	208	274	0.22	0.171	0.21	6560						
565054H	208	274	0.17	0.077	0.24	6400						
565055H	208	274	0.17	0.043	0.17	6200						
565056H	208	274	0.21	0.184	0.17	7100						
565057H	208	274	0.25	0.034	0.14	7040						
565058H	208	276	0.25	0.035	0.31	7280						
565059H	208	274	0.29	0.050	0.24	6450						
565060H	208	274	0.42	0.035	0.41	6820						
565061H	208	274	0.32	0.049	0.21	7010						
565062H	208	274	0.45	0.078	0.45	6720						
565063H	208	274	0.27	0.032	0.27	6340						
565064H	208	274	0.31	0.050	0.31	6700						
565065H	208	274	0.34	0.061	0.34	6720						

CERTIFICATION: _____

Chemex Labs Ltd.

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. :19320033
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320033

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
565066H	208	276	0.31	0.043	0.27	7280						
565067H	208	274	0.38	0.052	0.41	7100						
565068H	208	274	0.24	0.077	0.21	6340						
565069H	208	274	0.23	0.052	0.14	6560						
565070H	208	276	0.36	0.045	0.27	7400						
565071H	208	274	0.31	0.059	0.27	6820						
565072H	208	274	0.38	0.180	0.17	6480						
565073H	208	274	0.28	0.044	0.14	6920						
565074H	208	274	0.29	0.058	0.17	6840						
565075H	208	274	0.18	0.087	0.17	6880						
565076H	208	274	0.17	0.058	0.10	7120						
565077H	208	274	0.23	0.057	0.17	6740						
565078H	208	274	0.21	0.074	0.14	6640						
565079H	208	274	0.21	0.084	0.10	7100						
565080H	208	274	0.22	0.025	0.14	6700						
565081H	208	274	0.13	0.002	0.07	7100						
565082H	208	274	0.19	0.002	0.14	7180						
565083H	208	274	0.12	0.002	0.07	6980						
565084H	208	274	0.08	0.002	0.10	6720						
565085H	208	274	0.08	0.002	0.10	7200						
565086H	208	274	0.09	0.002	0.10	7160						
565087H	208	274	0.08	0.008	0.07	7040						

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Total Pages : 4
Certificate Date: 06-SEP-93
Invoice No. : I9320034
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564946H	299	229	2.0	0.53	26	100	< 0.5	8	0.04	< 0.5	< 1	168	45	4.46	< 10	< 1	1.08	< 10	0.04	5	101
564947H	299	229	2.4	0.60	4	190	< 0.5	< 2	0.02	< 0.5	1	179	43	2.97	< 10	< 1	0.82	10	0.04	10	107
564948H	299	229	2.4	0.61	14	190	< 0.5	6	0.02	< 0.5	< 1	181	39	2.53	< 10	< 1	0.76	10	0.04	10	80
564949H	299	229	2.4	0.86	4	140	< 0.5	8	0.02	< 0.5	1	194	49	2.79	10	< 1	0.86	20	0.06	10	122
564950H	299	229	1.8	0.73	8	230	< 0.5	2	0.01	< 0.5	< 1	172	45	2.22	10	< 1	0.73	20	0.05	10	124
564951H	299	229	2.2	0.77	20	190	< 0.5	6	0.01	< 0.5	1	193	43	2.49	10	< 1	0.79	10	0.05	10	75
564952H	299	229	2.4	0.89	6	280	< 0.5	< 2	0.02	< 0.5	< 1	162	41	1.81	10	< 1	0.69	10	0.07	10	46
564953H	299	229	1.8	0.62	4	240	< 0.5	< 2	0.02	< 0.5	1	167	31	2.15	< 10	< 1	0.60	10	0.05	10	61
564954H	299	229	2.6	0.69	4	250	< 0.5	2	0.02	< 0.5	< 1	176	40	2.26	10	< 1	0.61	20	0.05	10	68
564955H	299	229	2.0	0.62	6	280	< 0.5	< 2	0.01	< 0.5	< 1	162	33	2.13	< 10	< 1	0.58	20	0.04	10	60
564956H	299	229	2.0	0.68	2	280	< 0.5	4	0.02	< 0.5	< 1	179	41	2.09	10	< 1	0.62	20	0.05	10	91
564957H	299	229	2.0	0.54	10	230	< 0.5	4	0.01	< 0.5	< 1	158	47	2.47	< 10	< 1	0.71	20	0.04	5	88
564958H	299	229	2.2	0.71	6	230	< 0.5	6	0.02	< 0.5	< 1	164	45	2.73	< 10	< 1	0.85	20	0.06	5	145
564959H	299	229	3.6	0.60	14	190	< 0.5	2	0.01	< 0.5	1	146	59	3.04	10	< 1	0.89	20	0.04	5	213
564960H	299	229	2.2	0.57	14	160	< 0.5	8	0.01	< 0.5	< 1	140	58	3.22	< 10	< 1	0.90	10	0.04	5	99
564961H	299	229	3.0	0.57	16	160	< 0.5	6	0.01	< 0.5	< 1	157	55	3.04	10	< 1	0.86	20	0.04	5	126
564962H	299	229	3.4	0.58	6	300	< 0.5	2	0.01	< 0.5	1	150	42	1.81	10	< 1	0.58	20	0.04	15	120
564963H	299	229	3.4	0.48	6	160	< 0.5	8	0.01	< 0.5	< 1	147	47	2.70	10	< 1	0.74	20	0.03	5	175
564964H	299	229	2.8	0.76	6	320	< 0.5	2	0.01	< 0.5	< 1	141	45	1.88	10	< 1	0.66	30	0.06	15	112
564965H	299	229	6.0	0.78	12	280	< 0.5	2	0.02	< 0.5	1	180	54	2.36	10	< 1	0.76	20	0.06	15	124
564966H	299	229	6.0	0.66	10	240	< 0.5	< 2	0.02	< 0.5	< 1	132	53	2.19	10	< 1	0.62	30	0.04	10	126
564967H	299	229	4.8	0.61	10	230	< 0.5	4	0.01	< 0.5	< 1	160	36	2.19	< 10	< 1	0.70	20	0.05	10	77
564968H	299	229	3.4	0.59	4	310	< 0.5	2	0.03	< 0.5	< 1	145	33	1.92	10	< 1	0.57	20	0.04	10	81
564969H	299	229	3.2	0.59	16	190	< 0.5	< 2	0.02	< 0.5	< 1	148	31	2.27	10	< 1	0.58	20	0.04	10	112
564970H	299	229	3.4	0.63	16	180	< 0.5	6	0.03	< 0.5	< 1	114	44	2.79	10	< 1	0.60	40	0.04	5	143
564971H	299	229	3.2	0.59	24	170	< 0.5	14	0.02	< 0.5	< 1	101	47	2.77	10	< 1	0.58	30	0.03	5	114
564972H	299	229	3.0	0.77	14	180	< 0.5	< 2	0.03	< 0.5	< 1	136	56	2.84	10	< 1	0.68	30	0.05	5	91
564973H	299	229	2.0	1.62	8	150	< 0.5	2	0.06	< 0.5	1	181	68	2.63	10	< 1	0.60	30	0.07	25	95
564974H	299	229	2.6	0.83	8	150	< 0.5	< 2	0.02	< 0.5	1	159	81	2.34	10	< 1	0.63	20	0.06	10	212
564975H	299	229	3.4	0.65	6	150	< 0.5	2	0.02	< 0.5	< 1	172	85	2.29	10	< 1	0.62	20	0.05	10	198
564976H	299	229	3.0	1.05	4	260	< 0.5	< 2	0.02	< 0.5	< 1	203	70	1.82	10	< 1	0.57	10	0.08	15	107
564977H	299	229	2.6	0.93	28	380	< 0.5	< 2	0.02	< 0.5	< 1	162	95	2.48	10	< 1	0.58	30	0.07	15	110
564978H	299	229	3.6	0.90	26	250	< 0.5	< 2	0.02	< 0.5	< 1	140	61	2.42	10	< 1	0.61	30	0.07	10	120
564979H	299	229	3.6	0.87	8	540	< 0.5	< 2	0.02	< 0.5	1	130	60	1.39	10	< 1	0.46	20	0.06	15	140
564980H	299	229	3.2	1.00	8	830	< 0.5	< 2	0.02	< 0.5	1	109	50	0.84	10	< 1	0.32	20	0.05	15	74
564981H	299	229	1.8	0.96	14	1010	< 0.5	< 2	0.01	< 0.5	< 1	103	43	0.84	10	< 1	0.29	20	0.05	10	61
564982H	299	229	4.2	0.85	< 2	420	< 0.5	< 2	0.02	< 0.5	< 1	116	85	0.87	10	< 1	0.43	20	0.07	15	84
564983H	299	229	2.4	1.05	4	90	< 0.5	4	0.02	< 0.5	16	158	124	1.99	10	< 1	0.49	30	0.08	15	66
564984H	299	229	2.8	1.34	36	40	< 0.5	< 2	0.06	< 0.5	25	117	1675	3.45	10	< 1	0.48	30	0.09	15	106
564985H	299	229	2.6	1.27	38	40	< 0.5	< 2	0.03	< 0.5	25	131	2370	3.62	10	< 1	0.57	30	0.10	20	146

CERTIFICATION: Stewart Bichler

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Project : CASINO-188
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Page Number :1-B
Total Pages :4
Certificate Date: 06-SEP-93
Invoice No. :I9320034
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Account :FC

CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564946H	299	229	0.04	1	300	8	2	1	45	< 0.01	< 10	< 10	13	< 10	2
564947H	299	229	0.03	1	190	10	4	1	31	< 0.01	< 10	< 10	11	< 10	< 2
564948H	299	229	0.02	2	110	2	2	1	14	< 0.01	< 10	< 10	12	< 10	2
564949H	299	229	0.03	2	150	4	2	1	24	< 0.01	< 10	< 10	15	< 10	2
564950H	299	229	0.02	1	130	6	4	1	19	< 0.01	< 10	< 10	14	< 10	< 2
564951H	299	229	0.02	2	100	6	2	1	15	< 0.01	< 10	< 10	16	< 10	2
564952H	299	229	0.03	1	90	2	2	1	15	< 0.01	< 10	< 10	16	< 10	2
564953H	299	229	0.02	1	100	4	< 2	1	17	< 0.01	< 10	< 10	13	< 10	2
564954H	299	229	0.02	1	180	26	2	1	23	< 0.01	< 10	< 10	14	< 10	2
564955H	299	229	0.02	< 1	180	10	2	1	18	< 0.01	< 10	< 10	13	< 10	2
564956H	299	229	0.02	2	170	6	2	1	18	< 0.01	< 10	< 10	14	< 10	2
564957H	299	229	0.02	3	200	6	< 2	1	23	< 0.01	< 10	< 10	12	< 10	2
564958H	299	229	0.02	1	230	4	4	1	29	< 0.01	< 10	< 10	15	< 10	2
564959H	299	229	0.02	1	130	12	2	1	11	< 0.01	< 10	< 10	15	< 10	4
564960H	299	229	0.02	2	160	8	4	1	14	< 0.01	< 10	< 10	14	< 10	4
564961H	299	229	0.01	1	190	6	2	2	11	< 0.01	< 10	< 10	13	< 10	4
564962H	299	229	0.01	2	200	10	< 2	1	19	< 0.01	< 10	< 10	11	< 10	4
564963H	299	229	0.01	1	230	6	2	2	12	< 0.01	< 10	< 10	11	< 10	4
564964H	299	229	0.01	1	260	12	2	2	22	< 0.01	< 10	< 10	14	< 10	4
564965H	299	229	0.02	< 1	220	16	2	1	25	< 0.01	< 10	< 10	15	< 10	8
564966H	299	229	0.01	1	240	14	4	1	27	< 0.01	< 10	< 10	14	< 10	4
564967H	299	229	0.01	1	200	18	< 2	1	26	< 0.01	< 10	< 10	12	< 10	4
564968H	299	229	0.01	1	380	14	4	1	47	< 0.01	< 10	< 10	12	< 10	2
564969H	299	229	0.01	2	360	18	4	1	42	< 0.01	< 10	< 10	15	< 10	2
564970H	299	229	0.01	1	450	10	2	2	61	< 0.01	< 10	< 10	15	< 10	2
564971H	299	229	0.01	< 1	450	8	2	1	48	< 0.01	< 10	< 10	15	< 10	2
564972H	299	229	0.02	3	480	22	4	1	52	< 0.01	< 10	< 10	14	< 10	2
564973H	299	229	0.01	2	360	18	2	2	55	< 0.01	< 10	< 10	15	< 10	4
564974H	299	229	0.01	1	260	12	2	1	72	< 0.01	< 10	< 10	11	< 10	2
564975H	299	229	0.01	3	320	18	4	1	97	< 0.01	< 10	< 10	10	< 10	4
564976H	299	229	0.01	4	190	14	2	2	31	< 0.01	< 10	< 10	16	< 10	2
564977H	299	229	0.01	2	320	12	4	2	30	< 0.01	< 10	< 10	23	< 10	8
564978H	299	229	0.03	< 1	370	12	< 2	1	61	< 0.01	< 10	< 10	16	< 10	2
564979H	299	229	0.01	1	270	10	2	1	43	< 0.01	< 10	< 10	14	< 10	2
564980H	299	229	0.01	2	200	18	< 2	2	45	< 0.01	< 10	< 10	15	< 10	2
564981H	299	229	0.01	1	140	14	2	1	24	< 0.01	< 10	< 10	13	< 10	2
564982H	299	229	0.01	2	150	12	4	1	49	< 0.01	< 10	< 10	14	< 10	4
564983H	299	229	0.01	3	120	12	< 2	1	34	< 0.01	< 10	< 10	13	< 10	4
564984H	299	229	0.01	6	630	16	< 2	6	29	< 0.01	< 10	< 10	25	< 10	24
564985H	299	229	0.01	5	390	2	4	4	22	< 0.01	< 10	< 10	20	10	22

CERTIFICATION: Stewart Buchanan

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Certificate Date: 06-SEP-93
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Account :FC

CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
564986H	299	229	2.0	1.05	22	50	< 0.5	< 2	0.03	< 0.5	19	76	2160	2.02	10	< 1	0.41	40	0.09	15	71
564987H	299	229	3.0	0.63	34	90	< 0.5	< 2	0.03	< 0.5	16	64	2650	2.55	10	< 1	0.27	30	0.06	15	106
564988H	299	229	2.8	1.26	22	80	< 0.5	< 2	0.04	< 0.5	19	89	2320	2.24	10	< 1	0.45	30	0.08	15	102
564989H	299	229	4.8	0.83	2	30	< 0.5	< 2	0.04	< 0.5	19	59	3530	3.21	< 10	< 1	0.27	20	0.06	5	168
564990H	299	229	5.8	1.52	32	20	< 0.5	< 2	0.05	< 0.5	22	99	4680	4.51	10	< 1	0.53	30	0.10	15	272
564991H	299	229	8.0	0.99	14	40	< 0.5	< 2	0.05	< 0.5	19	73	4180	3.05	10	< 1	0.33	30	0.07	10	629
564992H	299	229	3.6	1.33	2	50	< 0.5	< 2	0.08	< 0.5	20	98	2360	3.01	10	< 1	0.45	30	0.09	15	287
564993H	299	229	3.2	1.11	6	20	< 0.5	4	0.06	< 0.5	10	81	2780	3.08	10	< 1	0.35	20	0.09	10	441
564994H	299	229	2.8	0.79	2	40	< 0.5	< 2	0.04	< 0.5	12	97	2350	3.45	< 10	< 1	0.44	10	0.09	10	879
564995H	299	229	3.4	0.35	30	< 10	< 0.5	< 2	0.03	< 0.5	33	67	2620	9.74	< 10	< 1	0.24	< 10	0.04	< 5	1235
564996H	299	229	1.8	0.57	10	30	< 0.5	< 2	0.02	< 0.5	21	90	1850	3.77	< 10	< 1	0.35	10	0.06	5	82
564997H	299	229	1.8	0.45	12	20	< 0.5	< 2	0.03	< 0.5	25	80	1680	3.95	< 10	< 1	0.24	10	0.05	< 5	96
564998H	299	229	3.6	1.02	18	30	< 0.5	< 2	0.06	< 0.5	30	100	2670	3.46	< 10	< 1	0.48	20	0.10	10	96
564999H	299	229	3.2	0.93	6	40	< 0.5	< 2	0.07	< 0.5	30	73	2820	2.90	10	< 1	0.34	30	0.07	5	213
565000H	299	229	2.2	1.27	2	40	< 0.5	< 2	0.05	< 0.5	23	97	1755	3.07	10	< 1	0.49	20	0.10	10	48
565001H	299	229	1.8	0.48	< 2	30	< 0.5	< 2	0.02	< 0.5	15	75	1240	2.97	< 10	< 1	0.26	10	0.04	< 5	102
565002H	299	229	1.2	0.70	112	< 10	< 0.5	< 2	0.03	< 0.5	13	102	651	7.28	< 10	< 1	0.38	10	0.06	< 5	125
565003H	299	229	1.6	0.73	28	40	< 0.5	< 2	0.04	< 0.5	15	72	1910	2.77	< 10	< 1	0.27	10	0.05	5	164
565004H	299	229	2.4	0.88	8	10	< 0.5	2	0.04	< 0.5	21	106	1815	6.58	< 10	< 1	0.44	20	0.10	< 5	230
565005H	299	229	2.4	0.95	2	20	< 0.5	< 2	0.10	< 0.5	18	78	1535	3.99	10	< 1	0.31	30	0.09	5	187
565006H	299	229	2.4	1.38	< 2	10	< 0.5	< 2	0.11	0.5	15	59	2320	3.96	10	< 1	0.33	20	0.16	100	178
565007H	299	229	2.0	1.47	< 2	30	< 0.5	< 2	0.10	< 0.5	16	77	2350	3.89	10	< 1	0.40	20	0.17	155	146
565008H	299	229	3.6	1.03	< 2	80	< 0.5	< 2	0.12	< 0.5	19	76	2990	2.38	< 10	< 1	0.35	30	0.10	35	162
565009H	299	229	2.0	1.22	4	100	< 0.5	6	0.17	< 0.5	17	47	1695	2.07	< 10	< 1	0.26	30	0.21	40	157
565010H	299	229	1.8	1.75	< 2	120	< 0.5	< 2	0.12	< 0.5	17	72	1685	2.28	10	< 1	0.47	30	0.30	35	114
565011H	299	229	2.0	1.04	50	70	< 0.5	< 2	0.25	< 0.5	17	47	1775	5.74	< 10	< 1	0.40	20	0.39	1445	84
565012H	299	229	1.2	1.27	4	70	< 0.5	< 2	0.33	< 0.5	18	81	1720	6.33	10	< 1	0.54	30	0.41	1700	178
565013H	299	229	1.2	1.36	< 2	30	< 0.5	< 2	0.23	< 0.5	16	78	1455	4.35	< 10	< 1	0.55	20	0.52	675	99
565014H	299	229	2.0	1.85	4	40	< 0.5	< 2	0.12	< 0.5	19	110	2500	3.20	10	< 1	0.51	30	0.29	90	80
565015H	299	229	3.6	0.91	< 2	60	< 0.5	< 2	0.07	< 0.5	20	83	4030	2.90	10	< 1	0.30	40	0.11	10	329
565016H	299	229	2.2	1.93	< 2	40	< 0.5	< 2	0.08	0.5	23	113	2150	3.71	10	< 1	0.73	30	0.41	35	48
565017H	299	229	2.6	1.55	< 2	60	< 0.5	< 2	0.12	1.0	25	93	2140	3.57	10	< 1	0.49	40	0.31	55	111
565018H	299	229	2.6	1.70	16	30	< 0.5	< 2	0.21	1.0	20	99	2420	4.86	10	< 1	0.54	30	0.34	630	96
565019H	299	229	1.4	1.15	< 2	150	< 0.5	< 2	0.34	< 0.5	19	55	1520	5.12	10	< 1	0.49	30	0.49	955	60
565020H	299	229	2.2	1.51	< 2	100	< 0.5	< 2	0.20	0.5	29	87	1970	2.66	10	< 1	0.53	30	0.26	65	109
565021H	299	229	1.4	1.45	< 2	60	< 0.5	< 2	0.48	< 0.5	17	93	1435	4.48	10	< 1	0.65	30	0.76	335	77
565022H	299	229	1.6	1.27	8	90	< 0.5	< 2	0.45	< 0.5	22	75	1985	4.27	< 10	< 1	0.56	20	0.56	530	61
565023H	299	229	1.8	1.22	< 2	100	< 0.5	< 2	0.29	< 0.5	20	52	2290	4.16	< 10	< 1	0.53	10	0.55	630	100
565024H	299	229	1.4	1.38	< 2	110	< 0.5	< 2	0.23	< 0.5	17	74	1375	2.89	< 10	< 1	0.49	20	0.49	135	181
565025H	299	229	2.2	0.60	< 2	70	< 0.5	2	0.13	< 0.5	19	52	2810	2.52	< 10	< 1	0.26	30	0.13	10	136

CERTIFICATION: Stewart Buchler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
564986H	299	229	0.01	4	590	8	6	4	32	< 0.01	< 10	< 10	17	10	16
564987H	299	229	0.01	4	480	4	6	3	25	< 0.01	< 10	< 10	14	10	22
564988H	299	229	0.01	3	600	14	2	3	27	< 0.01	< 10	< 10	19	< 10	26
564989H	299	229	< 0.01	3	760	6	< 2	2	22	< 0.01	< 10	< 10	12	< 10	14
564990H	299	229	0.01	4	630	8	2	3	32	< 0.01	< 10	< 10	18	< 10	24
564991H	299	229	0.01	3	740	12	8	2	36	< 0.01	< 10	< 10	15	< 10	28
564992H	299	229	0.01	4	770	8	8	2	32	< 0.01	< 10	< 10	20	< 10	24
564993H	299	229	0.01	4	640	12	6	3	64	< 0.01	< 10	< 10	14	< 10	14
564994H	299	229	0.01	1	380	22	12	2	24	< 0.01	< 10	< 10	11	< 10	14
564995H	299	229	0.01	< 1	250	22	18	2	38	< 0.01	< 10	< 10	8	< 10	18
564996H	299	229	0.01	2	250	4	2	1	30	< 0.01	< 10	< 10	4	< 10	4
564997H	299	229	< 0.01	4	300	2	< 2	1	27	< 0.01	< 10	< 10	4	< 10	6
564998H	299	229	0.01	3	700	8	< 2	2	70	< 0.01	< 10	< 10	11	< 10	18
564999H	299	229	0.01	3	1010	8	2	2	106	< 0.01	< 10	< 10	11	< 10	16
565000H	299	229	0.01	4	680	12	2	2	47	< 0.01	< 10	< 10	14	< 10	14
565001H	299	229	< 0.01	1	290	8	2	1	26	< 0.01	< 10	< 10	3	< 10	4
565002H	299	229	0.01	< 1	380	46	4	1	69	< 0.01	< 10	< 10	6	< 10	14
565003H	299	229	0.01	2	640	4	2	1	43	< 0.01	< 10	< 10	9	< 10	14
565004H	299	229	0.01	3	450	16	2	2	28	< 0.01	< 10	< 10	10	< 10	10
565005H	299	229	0.01	4	750	12	2	2	17	< 0.01	< 10	< 10	13	< 10	16
565006H	299	229	0.01	3	730	4	2	2	31	< 0.01	< 10	< 10	16	< 10	26
565007H	299	229	0.01	2	790	10	6	3	32	< 0.01	< 10	< 10	22	< 10	20
565008H	299	229	0.01	4	730	< 2	2	2	12	< 0.01	< 10	< 10	17	< 10	28
565009H	299	229	< 0.01	2	690	14	4	3	12	< 0.01	< 10	< 10	24	< 10	26
565010H	299	229	0.01	3	680	18	2	3	8	< 0.01	< 10	< 10	27	< 10	18
565011H	299	229	< 0.01	4	520	16	2	3	7	< 0.01	< 10	< 10	23	10	36
565012H	299	229	0.01	2	500	6	2	3	9	0.01	< 10	< 10	25	150	20
565013H	299	229	0.01	4	530	6	2	3	25	0.02	< 10	< 10	28	10	22
565014H	299	229	0.01	4	830	6	< 2	3	35	< 0.01	< 10	< 10	21	< 10	16
565015H	299	229	0.01	3	950	< 2	2	2	99	< 0.01	< 10	< 10	11	< 10	18
565016H	299	229	0.01	5	840	14	2	3	15	0.01	< 10	< 10	24	< 10	24
565017H	299	229	0.01	5	840	4	< 2	3	8	0.02	< 10	< 10	28	< 10	32
565018H	299	229	0.01	3	750	36	2	3	38	0.01	< 10	< 10	26	< 10	76
565019H	299	229	0.01	2	520	2	< 2	3	19	0.01	< 10	< 10	23	10	44
565020H	299	229	0.01	4	890	< 2	2	2	48	< 0.01	< 10	< 10	20	< 10	20
565021H	299	229	0.02	3	550	4	4	3	13	0.03	< 10	< 10	32	< 10	24
565022H	299	229	0.02	2	540	8	< 2	3	49	0.01	< 10	< 10	28	< 10	24
565023H	299	229	0.01	4	610	2	2	3	13	0.02	< 10	< 10	27	< 10	34
565024H	299	229	0.01	3	620	2	< 2	2	11	0.01	< 10	< 10	22	< 10	36
565025H	299	229	< 0.01	3	710	8	2	1	15	< 0.01	< 10	< 10	9	< 10	8

CERTIFICATION: Stewart Bradshaw

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Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :4
Certificate Date: 06-SEP-93
Invoice No. :19320034
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Account :FC

CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565026H	299	229	3.6	1.18	2	70	< 0.5	< 2	0.13	< 0.5	23	115	3380	3.03	10	< 1	0.47	30	0.17	30	200
565027H	299	229	2.0	1.44	8	60	< 0.5	< 2	0.19	< 0.5	19	152	1805	3.46	10	< 1	0.56	30	0.25	40	102
565028H	299	229	2.2	1.43	< 2	70	< 0.5	2	0.13	< 0.5	15	113	1545	3.00	10	< 1	0.48	20	0.24	25	148
565029H	299	229	1.6	1.32	< 2	60	< 0.5	2	0.09	< 0.5	17	139	1490	3.49	10	< 1	0.47	30	0.25	20	618
565030H	299	229	2.0	1.08	2	60	< 0.5	2	0.09	< 0.5	20	117	1715	3.66	10	< 1	0.48	20	0.20	20	299
565031H	299	229	2.2	1.38	< 2	80	< 0.5	2	0.12	< 0.5	17	160	1925	2.88	10	< 1	0.53	30	0.18	20	257
565032H	299	229	2.0	1.02	24	60	< 0.5	2	0.08	< 0.5	15	124	1995	3.49	10	< 1	0.43	20	0.13	15	286
565033H	299	229	1.6	1.40	6	80	< 0.5	2	0.08	< 0.5	13	198	1415	2.42	10	< 1	0.47	20	0.11	15	223
565034H	299	229	2.4	1.49	10	20	< 0.5	2	0.09	< 0.5	17	172	2720	4.46	10	< 1	0.57	30	0.14	15	313
565035H	299	229	1.6	1.26	22	20	< 0.5	8	0.10	0.5	16	209	1155	4.74	10	< 1	0.54	10	0.13	20	359
565036H	299	229	2.0	0.92	< 2	30	< 0.5	8	0.18	< 0.5	17	75	1510	3.42	10	< 1	0.33	20	0.25	105	145
565037H	299	229	2.2	0.95	8	60	< 0.5	2	0.13	< 0.5	21	74	2260	1.95	10	< 1	0.28	30	0.09	15	180
565038H	299	229	2.8	0.48	4	100	< 0.5	2	0.12	0.5	15	41	2730	1.45	10	< 1	0.13	30	0.04	10	282
565039H	299	229	2.6	0.93	6	60	< 0.5	4	0.14	< 0.5	21	70	2240	2.24	10	< 1	0.28	20	0.15	65	107
565040H	299	229	2.6	0.64	6	20	< 0.5	4	0.30	< 0.5	36	54	2300	3.71	10	< 1	0.24	40	0.16	70	238
565041H	299	229	2.6	1.33	< 2	60	< 0.5	4	0.20	< 0.5	36	89	2160	3.62	10	< 1	0.48	40	0.34	135	177
565042H	299	229	2.0	1.05	8	60	< 0.5	2	0.25	< 0.5	24	49	2080	4.86	10	< 1	0.34	30	0.41	455	90
565043H	299	229	2.2	1.25	2	40	< 0.5	4	0.25	< 0.5	23	115	2050	3.93	10	< 1	0.59	30	0.42	250	231
565044H	299	229	1.8	1.03	4	40	< 0.5	2	0.52	< 0.5	23	56	1690	4.26	10	< 1	0.50	30	0.62	155	107
565045H	299	229	2.8	1.20	< 2	70	< 0.5	2	0.64	< 0.5	22	105	2710	3.02	10	< 1	0.46	20	0.56	65	134
565046H	299	229	1.8	0.91	4	80	< 0.5	< 2	1.00	< 0.5	21	43	1980	2.61	10	< 1	0.37	20	0.65	85	80
565047H	299	229	1.8	1.30	< 2	40	< 0.5	< 2	1.10	< 0.5	16	101	1530	2.34	10	< 1	0.57	40	0.83	100	1125
565048H	299	229	2.0	0.88	6	70	< 0.5	< 2	0.95	< 0.5	20	45	1870	2.73	10	< 1	0.42	20	0.79	105	94
565049H	299	229	1.4	0.96	20	30	< 0.5	< 2	0.86	< 0.5	27	76	1455	4.38	10	< 1	0.52	10	0.56	80	117
565050H	299	229	2.8	0.81	< 2	60	< 0.5	< 2	1.20	< 0.5	22	37	2720	3.05	10	< 1	0.38	10	0.66	75	163
565051H	299	229	2.0	1.16	22	70	< 0.5	< 2	1.25	< 0.5	19	74	1905	2.61	10	< 1	0.56	20	0.85	95	95
565052H	299	229	3.0	0.83	6	30	< 0.5	< 2	0.60	< 0.5	24	44	3120	2.74	10	< 1	0.44	30	0.67	80	528
565053H	299	229	2.4	0.78	2	30	< 0.5	< 2	1.17	< 0.5	18	105	2370	2.85	10	< 1	0.39	20	0.60	135	945
565054H	299	229	2.0	0.78	< 2	70	< 0.5	< 2	0.83	< 0.5	13	49	1700	2.38	10	< 1	0.32	20	0.65	160	394
565055H	299	229	1.8	1.19	4	70	< 0.5	< 2	0.74	< 0.5	16	90	1775	2.52	10	< 1	0.58	20	0.82	95	232
565056H	299	229	2.4	0.73	8	30	< 0.5	< 2	1.44	< 0.5	24	63	2160	2.88	10	< 1	0.34	10	0.58	125	1025
565057H	299	229	2.4	0.95	36	30	< 0.5	< 2	1.43	< 0.5	20	84	2650	3.66	10	< 1	0.45	10	0.51	100	185
565058H	299	229	3.0	0.64	< 2	50	< 0.5	< 2	1.55	< 0.5	19	56	2730	2.89	10	< 1	0.28	10	0.57	175	171
565059H	299	229	3.0	1.03	< 2	60	< 0.5	< 2	0.83	< 0.5	22	103	2980	3.40	10	< 1	0.48	20	0.49	170	279
565060H	299	229	4.0	0.79	8	50	< 0.5	< 2	0.72	< 0.5	21	76	4170	3.54	10	< 1	0.33	30	0.39	150	174
565061H	299	229	3.4	1.05	< 2	60	< 0.5	< 2	0.66	< 0.5	17	104	3320	3.16	10	< 1	0.53	30	0.51	85	262
565062H	299	229	4.8	0.68	2	40	< 0.5	< 2	0.26	< 0.5	17	99	4940	2.73	10	< 1	0.23	40	0.14	50	475
565063H	299	229	3.0	0.70	< 2	100	< 0.5	< 2	0.21	< 0.5	22	88	2850	2.16	10	< 1	0.22	30	0.09	315	162
565064H	299	229	2.8	0.52	2	70	< 0.5	< 2	0.55	< 0.5	18	96	3420	3.58	10	< 1	0.17	20	0.20	495	295
565065H	299	229	3.0	0.63	6	70	< 0.5	< 2	1.10	< 0.5	20	100	3690	2.97	10	< 1	0.26	20	0.45	445	349

CERTIFICATION: Stuart Buchler

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Project : CASINO-188
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Certificate Date: 06-SEP-93
Invoice No. : I9320034
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CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565026H	299	229	0.01	6	590	8	4	2	8	< 0.01	< 10	< 10	11	< 10	20
565027H	299	229	0.02	6	560	6	< 2	2	7	< 0.01	< 10	< 10	15	< 10	16
565028H	299	229	0.01	4	590	10	< 2	2	6	< 0.01	< 10	< 10	16	< 10	22
565029H	299	229	0.01	6	550	4	4	2	8	< 0.01	< 10	< 10	7	< 10	14
565030H	299	229	0.01	3	460	2	2	2	8	< 0.01	< 10	< 10	6	< 10	12
565031H	299	229	0.01	6	610	4	2	2	9	< 0.01	< 10	< 10	10	< 10	14
565032H	299	229	0.01	4	460	6	2	1	11	< 0.01	< 10	< 10	4	< 10	12
565033H	299	229	0.01	6	460	4	2	2	13	< 0.01	< 10	< 10	8	< 10	10
565034H	299	229	0.01	6	560	6	2	2	18	< 0.01	< 10	< 10	10	< 10	14
565035H	299	229	0.01	6	520	38	4	2	13	< 0.01	< 10	< 10	8	< 10	58
565036H	299	229	< 0.01	5	690	12	< 2	3	6	0.01	< 10	< 10	19	< 10	50
565037H	299	229	< 0.01	4	900	6	2	2	11	< 0.01	< 10	< 10	14	< 10	24
565038H	299	229	< 0.01	4	890	6	2	2	7	< 0.01	< 10	< 10	3	< 10	18
565039H	299	229	< 0.01	4	820	8	< 2	4	6	< 0.01	< 10	< 10	18	< 10	28
565040H	299	229	< 0.01	6	680	6	2	2	7	< 0.01	< 10	< 10	9	< 10	20
565041H	299	229	0.01	5	720	14	< 2	4	7	0.01	< 10	< 10	26	< 10	32
565042H	299	229	0.01	3	470	8	< 2	2	6	< 0.01	< 10	< 10	18	< 10	28
565043H	299	229	0.01	4	480	2	< 2	3	8	0.02	< 10	< 10	21	< 10	16
565044H	299	229	0.01	3	490	2	< 2	3	14	0.02	< 10	< 10	23	< 10	18
565045H	299	229	0.01	4	470	6	2	2	18	< 0.01	< 10	< 10	18	< 10	12
565046H	299	229	0.01	2	430	2	< 2	2	25	< 0.01	< 10	< 10	19	< 10	12
565047H	299	229	0.01	2	450	2	12	3	34	0.01	< 10	< 10	10	< 10	14
565048H	299	229	0.01	2	490	2	< 2	3	25	0.02	< 10	< 10	24	< 10	16
565049H	299	229	0.01	3	480	6	< 2	1	18	0.01	< 10	< 10	12	< 10	12
565050H	299	229	0.01	2	470	< 2	< 2	1	30	< 0.01	< 10	< 10	12	< 10	10
565051H	299	229	0.03	3	490	2	< 2	5	30	0.03	< 10	< 10	36	20	16
565052H	299	229	0.01	3	510	4	4	3	16	0.02	< 10	< 10	15	< 10	14
565053H	299	229	0.02	3	460	2	8	3	26	< 0.01	< 10	< 10	7	10	16
565054H	299	229	0.01	3	460	2	2	3	19	0.01	< 10	< 10	20	10	18
565055H	299	229	0.03	3	520	< 2	2	3	20	0.02	< 10	< 10	26	< 10	16
565056H	299	229	0.01	4	510	2	8	2	30	< 0.01	< 10	< 10	3	< 10	12
565057H	299	229	0.02	4	570	2	2	2	30	< 0.01	< 10	< 10	13	< 10	16
565058H	299	229	0.01	3	530	2	< 2	1	29	< 0.01	< 10	< 10	8	< 10	12
565059H	299	229	0.01	3	520	2	< 2	3	9	< 0.01	< 10	< 10	15	< 10	12
565060H	299	229	0.01	4	630	6	< 2	3	8	< 0.01	< 10	< 10	17	< 10	14
565061H	299	229	0.01	4	560	4	2	2	12	< 0.01	< 10	< 10	9	< 10	18
565062H	299	229	< 0.01	4	670	6	2	2	9	< 0.01	< 10	< 10	6	< 10	20
565063H	299	229	< 0.01	4	660	4	< 2	3	8	< 0.01	< 10	< 10	13	< 10	14
565064H	299	229	< 0.01	4	530	4	2	4	11	< 0.01	< 10	< 10	15	< 10	22
565065H	299	229	0.01	3	420	2	4	3	14	< 0.01	< 10	< 10	18	< 10	20

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. : I9320034
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565066H	299	229	2.4	0.83	< 2	50	< 0.5	< 2	0.75	< 0.5	20	99	3130	4.31	10	< 1	0.39	10	0.32	225	220
565067H	299	229	3.4	0.91	6	40	< 0.5	< 2	0.62	< 0.5	19	141	4100	3.95	10	< 1	0.41	20	0.26	270	269
565068H	299	229	2.4	0.80	8	60	< 0.5	< 2	0.86	< 0.5	20	110	2630	3.67	10	< 1	0.36	30	0.32	310	429
565069H	299	229	2.0	0.93	< 2	50	< 0.5	< 2	0.98	< 0.5	24	145	2490	4.54	10	< 1	0.43	10	0.50	220	265
565070H	299	229	3.2	0.87	4	30	< 0.5	< 2	0.53	< 0.5	21	110	3980	5.16	10	< 1	0.47	10	0.31	185	236
565071H	299	229	3.0	0.88	< 2	40	< 0.5	< 2	0.45	< 0.5	16	149	3430	4.92	10	< 1	0.43	20	0.16	135	313
565072H	299	229	4.6	0.83	< 2	60	< 0.5	< 2	0.74	< 0.5	15	120	4130	3.77	10	< 1	0.37	30	0.35	105	984
565073H	299	229	3.8	1.00	< 2	60	< 0.5	< 2	0.59	< 0.5	17	132	3210	3.56	< 10	< 1	0.31	10	0.33	105	243
565074H	299	229	3.6	1.12	< 2	100	< 0.5	< 2	0.77	0.5	14	119	3210	2.83	10	< 1	0.39	30	0.64	150	325
565075H	299	229	2.2	1.27	2	80	< 0.5	< 2	1.05	< 0.5	13	161	1990	3.90	10	< 1	0.64	30	0.62	100	472
565076H	299	229	1.8	1.19	< 2	20	< 0.5	< 2	0.82	< 0.5	13	147	1900	5.31	10	< 1	0.56	20	0.69	75	306
565077H	299	229	2.4	1.49	< 2	90	< 0.5	< 2	1.67	< 0.5	10	145	2330	2.43	10	< 1	0.53	20	0.97	115	292
565078H	299	229	2.2	1.12	4	30	< 0.5	< 2	0.66	< 0.5	17	144	2250	5.23	10	< 1	0.56	30	0.66	55	406
565079H	299	229	2.0	1.14	< 2	50	< 0.5	< 2	1.18	< 0.5	14	142	2080	4.20	10	< 1	0.55	20	0.57	80	424
565080H	299	229	2.0	0.89	26	60	< 0.5	< 2	2.05	< 0.5	9	99	2250	3.09	10	< 1	0.32	10	0.57	80	124
565081H	299	229	2.2	0.69	18	40	< 0.5	< 2	2.91	< 0.5	6	81	1320	2.89	10	< 1	0.28	< 10	0.37	150	2
565082H	299	229	3.0	0.59	16	30	< 0.5	8	2.71	< 0.5	5	64	1795	3.64	< 10	< 1	0.25	< 10	0.25	115	2
565083H	299	229	1.0	0.88	22	60	< 0.5	< 2	2.54	< 0.5	5	77	1280	3.25	< 10	< 1	0.30	< 10	0.40	90	3
565084H	299	229	1.2	0.83	32	70	< 0.5	< 2	3.06	< 0.5	4	71	846	2.89	< 10	< 1	0.22	< 10	0.66	120	3
565085H	299	229	2.2	0.90	22	40	< 0.5	< 2	2.99	< 0.5	4	83	875	3.59	10	< 1	0.38	< 10	0.45	180	2
565086H	299	229	1.0	0.89	30	40	< 0.5	4	2.03	< 0.5	5	68	908	3.85	10	< 1	0.28	< 10	0.49	70	2
565087H	299	229	0.8	1.00	38	50	< 0.5	2	1.94	< 0.5	6	85	870	3.66	10	< 1	0.32	10	0.57	70	32

CERTIFICATION:

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-188
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. : I9320034
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320034

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565066H	299	229	0.01	3	720	2	< 2	2	13	< 0.01	< 10	< 10	12	< 10	16
565067H	299	229	0.01	6	570	6	2	3	13	< 0.01	< 10	< 10	9	< 10	36
565068H	299	229	0.01	5	510	6	4	2	16	< 0.01	< 10	< 10	8	< 10	20
565069H	299	229	0.01	5	390	8	< 2	2	18	< 0.01	< 10	< 10	8	< 10	20
565070H	299	229	0.01	5	470	6	< 2	1	11	< 0.01	< 10	< 10	5	< 10	20
565071H	299	229	0.01	6	530	16	2	2	13	< 0.01	< 10	< 10	6	< 10	24
565072H	299	229	0.01	4	470	8	6	3	13	< 0.01	< 10	< 10	3	< 10	26
565073H	299	229	< 0.01	6	630	6	2	4	12	< 0.01	< 10	< 10	17	< 10	26
565074H	299	229	0.01	4	610	34	< 2	7	16	0.01	< 10	< 10	30	< 10	30
565075H	299	229	0.01	5	530	14	4	3	23	0.01	< 10	< 10	16	< 10	28
565076H	299	229	0.02	4	470	8	< 2	3	24	0.02	< 10	< 10	19	10	18
565077H	299	229	0.02	4	450	4	< 2	4	54	0.02	< 10	< 10	27	10	16
565078H	299	229	0.02	5	440	12	2	2	23	0.01	< 10	< 10	14	< 10	20
565079H	299	229	0.02	4	450	8	2	3	35	0.01	< 10	< 10	15	10	24
565080H	299	229	0.02	5	640	20	< 2	1	74	< 0.01	< 10	< 10	11	10	26
565081H	299	229	0.01	4	720	20	2	1	115	< 0.01	< 10	< 10	3	< 10	22
565082H	299	229	0.01	4	680	14	< 2	< 1	140	< 0.01	< 10	< 10	2	< 10	26
565083H	299	229	0.03	5	750	22	< 2	1	133	< 0.01	< 10	< 10	7	< 10	30
565084H	299	229	0.02	5	710	16	< 2	1	132	< 0.01	< 10	< 10	7	< 10	30
565085H	299	229	0.01	4	760	16	< 2	1	355	< 0.01	< 10	< 10	6	< 10	20
565086H	299	229	0.02	4	720	20	< 2	1	145	< 0.01	< 10	< 10	9	< 10	32
565087H	299	229	0.04	4	760	22	< 2	1	195	< 0.01	< 10	< 10	9	< 10	44

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-AUG-93
Invoice No. : I9319359
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319359

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571367 H	208 274	< 0.01	< 0.001	0.17	2020
571368 H	208 276	< 0.01	< 0.001	0.51	9820
571369 H	208 276	< 0.01	< 0.001	0.17	8640
571370 H	208 276	< 0.01	< 0.001	0.21	8240
571371 H	208 276	< 0.01	< 0.001	0.31	9360
571372 H	208 276	< 0.01	< 0.001	0.34	10780
571373 H	208 276	< 0.01	< 0.001	0.14	9440
571374 H	208 276	< 0.01	< 0.001	0.17	10500
571375 H	208 276	< 0.01	< 0.001	0.10	9820
571376 H	208 276	< 0.01	< 0.001	0.14	8940
571377 H	208 276	< 0.01	< 0.001	0.07	9680
571378 H	208 276	< 0.01	< 0.001	0.10	11720
571379 H	208 274	< 0.01	< 0.001	0.34	6580
571380 H	208 276	< 0.01	< 0.001	0.21	8180
571381 H	208 276	< 0.01	< 0.001	0.07	11400
571382 H	208 273	0.01	< 0.001	0.21	13180
571383 H	208 273	0.04	< 0.001	0.17	12280
571384 H	208 276	0.07	< 0.001	0.31	8400
571385 H	208 276	0.04	0.001	0.21	11740
571386 H	208 273	0.03	0.001	0.17	12940
571387 H	208 276	0.08	< 0.001	0.17	10080
571388 H	208 273	0.04	< 0.001	0.21	14480
571389 H	208 273	0.05	0.006	0.17	15060
571390 H	208 273	0.04	< 0.001	0.14	14240
571391 H	208 273	0.10	0.001	0.14	13660
571392 H	208 273	0.03	< 0.001	0.17	14340
571393 H	208 273	0.02	0.001	0.10	14020
571394 H	208 273	0.03	< 0.001	0.10	14200
571395 H	208 273	0.07	< 0.001	0.21	14760
571396 H	208 273	0.04	< 0.001	0.14	13200
571397 H	208 273	0.13	< 0.001	0.24	14120
571398 H	208 276	0.04	< 0.001	0.14	7720
571399 H	208 273	0.03	< 0.001	0.10	14920
571400 H	208 273	0.06	< 0.001	0.14	13460
571401 H	208 273	0.05	0.001	0.17	12800
571402 H	208 276	0.02	< 0.001	0.07	7520
571403 H	208 276	0.03	< 0.001	0.10	9760
571404 H	208 276	0.04	< 0.001	0.17	11380
571405 H	208 274	0.11	0.008	0.24	7000
571406 H	208 276	0.05	0.004	0.17	9520

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-AUG-93
Invoice No. : I9319359
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319359

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571407 H	208 273	0.05	< 0.001	0.41	12580
571408 H	208 276	0.02	< 0.001	0.10	9320
571409 H	208 276	0.03	< 0.001	0.07	10660
571410 H	208 276	0.08	< 0.001	0.14	10960
571411 H	208 276	0.04	< 0.001	0.10	11700
571412 H	208 273	0.02	< 0.001	0.10	12620
571413 H	208 276	0.02	< 0.001	0.07	11360
571414 H	208 273	0.02	< 0.001	0.14	12820
571415 H	208 273	0.03	< 0.001	0.17	12320
571416 H	208 273	0.02	0.001	0.07	11940
571417 H	208 276	0.02	< 0.001	0.10	11580
571418 H	208 273	0.03	< 0.001	0.14	11900
571419 H	208 276	0.02	0.001	0.14	11700
571420 H	208 273	0.02	< 0.001	0.10	12880
571421 H	208 273	0.03	0.001	0.14	12060
571422 H	208 273	0.03	< 0.001	0.10	12320
571423 H	208 273	0.03	< 0.001	0.24	11820
571424 H	208 273	0.03	< 0.001	0.17	12160
571425 H	208 273	0.01	< 0.001	0.27	12720
571426 H	208 276	0.02	0.001	0.07	11760
571427 H	208 273	0.02	0.001	0.07	12500
571428 H	208 273	0.02	< 0.001	0.10	12400
571429 H	208 276	0.03	< 0.001	0.17	11660
571430 H	208 276	0.02	< 0.001	0.24	11760
571431 H	208 273	0.03	< 0.001	0.10	13060
571432 H	208 273	0.07	< 0.001	0.27	12260
571433 H	208 273	0.02	< 0.001	0.21	12880
571434 H	208 276	0.03	< 0.001	0.10	10740
571435 H	208 276	0.02	< 0.001	0.17	9320
571436 H	208 274	0.01	0.001	0.41	4240
571437 H	208 276	0.02	< 0.001	0.31	9560
571438 H	208 274	0.01	< 0.001	0.17	5900
571439 H	208 276	0.03	< 0.001	0.21	10900
571440 H	208 273	0.04	< 0.001	0.21	11880
571441 H	208 273	0.18	0.001	2.11	12120
571442 H	208 276	0.04	< 0.001	0.17	11180
571443 H	208 276	0.04	< 0.001	0.21	9100
571444 H	208 270	0.03	< 0.001	0.14	17000
571445 H	208 273	0.03	0.001	0.14	11840
571446 H	208 273	0.03	< 0.001	0.17	12860

CERTIFICATION: _____

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Project : CASINO-189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-AUG-93
Invoice No. :I9319359
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319359

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
571447 H	208	276	0.04	< 0.001	0.14	10980
571448 H	208	273	0.04	< 0.001	0.21	13300
571449 H	208	273	0.06	< 0.001	0.07	13840
571450 H	208	273	0.06	0.001	0.14	12840
571451 H	208	276	0.03	0.001	0.07	9260
571452 H	208	270	0.02	< 0.001	< 0.03	16420
571453 H	208	273	0.03	< 0.001	0.10	12420
571454 H	208	274	0.04	< 0.001	0.14	5780
571455 H	208	276	0.01	< 0.001	0.07	10140
571456 H	208	273	0.02	< 0.001	0.14	12800
571457 H	208	274	0.01	< 0.001	0.14	5520
571458 H	208	273	0.04	< 0.001	0.14	12880
571459 H	208	276	0.03	< 0.001	0.14	8900
571460 H	208	276	0.01	< 0.001	0.07	7780
571461 H	208	274	0.03	< 0.001	0.10	3200
571462 H	208	276	0.01	< 0.001	0.03	10480
571463 H	208	273	0.03	< 0.001	0.03	12920
571464 H	208	273	0.02	< 0.001	0.14	12640
571465 H	208	276	0.03	< 0.001	0.24	10520
571466 H	208	276	0.01	< 0.001	0.17	9260
571467 H	208	276	0.04	< 0.001	0.21	11800
571468 H	208	274	0.04	< 0.001	0.10	6520
571469 H	208	273	0.03	< 0.001	0.14	13440
571470 H	208	273	0.04	< 0.001	0.17	13060
571471 H	208	273	0.03	< 0.001	0.31	12120
571472 H	208	270	0.03	< 0.001	0.45	17180
571473 H	208	273	0.01	< 0.001	0.38	12440
571474 H	208	273	0.03	0.002	0.14	12320
571475 H	208	276	0.01	0.001	0.14	9600
571476 H	208	276	0.05	< 0.001	0.24	9300
571477 H	208	273	0.05	< 0.001	0.27	13900
571478 H	208	273	0.03	< 0.001	0.38	12340
571479 H	208	273	0.03	< 0.001	0.21	13120
571480 H	208	274	0.02	< 0.001	0.21	1680

CERTIFICATION:

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Project : CASINO 189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :19319512
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319512

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571367H	299	229	0.8	0.26	18	160	< 0.5	2	0.03	< 0.5	< 1	51	22	1.39	< 10	< 1	0.21	10	0.02	15	1
571368H	299	229	1.2	0.23	14	120	< 0.5	4	0.02	< 0.5	< 1	56	24	0.92	< 10	< 1	0.25	10	0.01	10	< 1
571369H	299	229	0.8	0.31	16	140	< 0.5	2	0.01	< 0.5	< 1	96	16	1.25	< 10	< 1	0.30	10	0.01	10	1
571370H	299	229	1.4	0.42	22	150	< 0.5	6	0.02	< 0.5	< 1	118	30	1.31	< 10	< 1	0.33	20	0.02	10	< 1
571371H	299	229	1.6	0.40	24	180	< 0.5	14	0.01	< 0.5	< 1	100	20	1.52	< 10	< 1	0.39	20	0.03	10	1
571372H	299	229	1.4	0.48	30	160	< 0.5	16	0.01	< 0.5	< 1	142	21	1.57	< 10	< 1	0.36	10	0.03	15	1
571373H	299	229	0.4	0.52	16	120	< 0.5	2	0.01	< 0.5	1	107	30	1.53	< 10	< 1	0.20	10	0.05	20	< 1
571374H	299	229	1.2	0.51	14	220	< 0.5	4	0.02	< 0.5	1	133	40	2.08	< 10	< 1	0.21	10	0.04	30	< 1
571375H	299	229	0.6	0.32	14	100	< 0.5	2	0.19	< 0.5	1	103	29	1.49	< 10	< 1	0.21	10	0.02	20	< 1
571376H	299	229	0.4	0.41	6	120	< 0.5	2	0.01	< 0.5	1	128	25	0.58	< 10	< 1	0.26	10	0.03	15	< 1
571377H	299	229	0.4	0.40	< 2	130	< 0.5	2	0.01	< 0.5	1	111	20	0.40	< 10	< 1	0.25	10	0.03	15	< 1
571378H	299	229	0.8	0.43	20	120	< 0.5	6	0.01	< 0.5	2	123	29	1.20	< 10	< 1	0.28	10	0.03	30	< 1
571379H	299	229	2.6	0.36	40	100	< 0.5	12	0.01	< 0.5	3	106	15	1.56	< 10	< 1	0.28	< 10	0.02	10	1
571380H	299	229	3.8	0.56	62	40	< 0.5	12	0.01	< 0.5	9	130	39	3.39	< 10	< 1	0.34	10	0.04	10	< 1
571381H	299	229	0.4	0.50	36	20	< 0.5	6	0.01	< 0.5	8	115	30	4.51	< 10	< 1	0.30	10	0.03	10	< 1
571382H	299	229	0.6	0.58	34	60	< 0.5	2	0.03	< 0.5	9	133	138	3.65	< 10	< 1	0.28	20	0.04	30	< 1
571383H	299	229	0.6	0.86	22	30	< 0.5	2	0.16	1.0	11	87	410	3.90	< 10	< 1	0.23	20	0.14	265	< 1
571384H	299	229	5.0	0.60	26	40	< 0.5	20	0.22	1.5	13	97	825	5.65	< 10	< 1	0.22	20	0.18	830	< 1
571385H	299	229	0.6	0.54	16	50	< 0.5	< 2	0.25	< 0.5	11	81	451	3.95	< 10	< 1	0.18	20	0.19	365	< 1
571386H	299	229	0.6	0.60	6	70	< 0.5	< 2	0.54	1.0	10	113	295	3.43	< 10	< 1	0.19	20	0.37	365	< 1
571387H	299	229	0.8	0.72	26	30	< 0.5	< 2	0.08	< 0.5	10	93	801	6.81	< 10	< 1	0.22	20	0.08	100	< 1
571388H	299	229	0.8	0.99	16	60	< 0.5	2	0.28	< 0.5	11	136	441	4.61	< 10	< 1	0.28	20	0.27	165	< 1
571389H	299	229	1.2	0.98	6	60	< 0.5	2	0.42	0.5	8	119	520	3.56	< 10	< 1	0.26	20	0.50	320	35
571390H	299	229	0.8	0.84	28	40	< 0.5	< 2	0.14	0.5	10	95	427	4.72	< 10	< 1	0.25	20	0.33	265	< 1
571391H	299	229	1.8	1.00	28	40	< 0.5	8	0.11	0.5	8	108	1025	5.53	< 10	< 1	0.26	20	0.47	110	< 1
571392H	299	229	1.0	1.47	14	50	< 0.5	2	0.22	0.5	12	104	282	4.51	< 10	< 1	0.26	20	0.91	495	< 1
571393H	299	229	1.4	0.89	10	50	< 0.5	6	0.22	1.0	10	115	194	4.61	< 10	< 1	0.23	10	0.45	290	< 1
571394H	299	229	1.0	0.82	14	40	< 0.5	2	0.40	0.5	10	89	248	5.00	< 10	< 1	0.20	20	0.54	540	< 1
571395H	299	229	2.4	0.57	20	70	< 0.5	10	0.20	0.5	11	108	702	4.43	< 10	< 1	0.23	20	0.13	605	< 1
571396H	299	229	1.8	0.82	14	80	< 0.5	16	0.17	2.0	11	90	391	2.89	< 10	< 1	0.18	20	0.07	105	< 1
571397H	299	229	5.4	0.74	20	60	< 0.5	58	0.14	1.0	10	96	1385	4.38	< 10	< 1	0.22	10	0.07	165	< 1
571398H	299	229	1.0	0.65	24	20	< 0.5	< 2	0.11	< 0.5	10	79	401	6.27	< 10	< 1	0.20	10	0.03	15	< 1
571399H	299	229	1.0	0.64	44	20	< 0.5	4	0.12	< 0.5	9	85	340	5.85	< 10	< 1	0.23	10	0.04	15	< 1
571400H	299	229	1.6	0.68	14	20	< 0.5	8	0.12	1.0	10	82	615	5.06	< 10	< 1	0.20	10	0.04	70	< 1
571401H	299	229	1.6	0.95	16	40	< 0.5	6	0.17	0.5	13	104	502	4.70	< 10	< 1	0.25	10	0.06	300	4
571402H	299	229	0.8	0.79	28	40	< 0.5	4	0.11	< 0.5	8	88	214	3.95	< 10	< 1	0.25	10	0.04	20	< 1
571403H	299	229	0.8	0.61	14	40	< 0.5	< 2	0.10	< 0.5	7	100	266	4.42	< 10	< 1	0.26	10	0.04	20	< 1
571404H	299	229	2.0	0.55	48	40	< 0.5	6	0.11	< 0.5	9	97	393	7.94	< 10	< 1	0.24	< 10	0.03	15	< 1
571405H	299	229	3.6	0.65	30	10	< 0.5	14	0.12	< 0.5	11	97	1220	6.51	< 10	< 1	0.27	< 10	0.04	30	44
571406H	299	229	3.6	0.66	28	20	< 0.5	8	0.11	0.5	9	95	557	4.77	< 10	< 1	0.26	10	0.05	75	24

CERTIFICATION: John D'Mar

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :3
Certificate Date: 25-AUG-93
Invoice No. :I9319512
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319512

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571367H	299	229	0.01	< 1	120	46	2	< 1	11	< 0.01	< 10	< 10	7	< 10	12
571368H	299	229	0.01	1	70	36	< 2	< 1	9	< 0.01	< 10	< 10	4	< 10	4
571369H	299	229	0.01	2	70	18	2	< 1	8	< 0.01	< 10	< 10	7	< 10	4
571370H	299	229	0.01	2	120	16	2	< 1	15	< 0.01	< 10	< 10	7	< 10	8
571371H	299	229	0.01	2	170	32	< 2	1	18	< 0.01	< 10	< 10	6	< 10	8
571372H	299	229	0.01	1	210	38	< 2	< 1	27	< 0.01	< 10	< 10	7	< 10	12
571373H	299	229	0.02	1	90	22	< 2	< 1	12	< 0.01	< 10	< 10	7	< 10	18
571374H	299	229	0.03	2	130	68	< 2	< 1	15	< 0.01	< 10	< 10	8	< 10	26
571375H	299	229	0.01	1	90	28	< 2	< 1	10	< 0.01	< 10	< 10	6	< 10	22
571376H	299	229	0.01	2	50	8	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	12
571377H	299	229	0.01	2	40	10	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	6
571378H	299	229	0.01	3	100	16	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	28
571379H	299	229	< 0.01	2	90	28	6	< 1	9	< 0.01	< 10	< 10	4	< 10	16
571380H	299	229	0.01	4	260	20	2	2	14	< 0.01	< 10	< 10	7	< 10	22
571381H	299	229	< 0.01	4	140	18	< 2	1	21	< 0.01	< 10	< 10	4	< 10	10
571382H	299	229	< 0.01	6	340	20	< 2	2	37	< 0.01	< 10	< 10	10	< 10	22
571383H	299	229	< 0.01	5	700	8	< 2	2	21	< 0.01	10	< 10	14	< 10	74
571384H	299	229	< 0.01	6	560	26	< 2	1	9	< 0.01	< 10	< 10	11	< 10	164
571385H	299	229	< 0.01	5	510	20	< 2	1	8	< 0.01	< 10	< 10	8	< 10	92
571386H	299	229	< 0.01	3	500	18	< 2	1	14	< 0.01	< 10	< 10	8	< 10	82
571387H	299	229	< 0.01	4	570	18	< 2	2	30	< 0.01	< 10	< 10	11	< 10	66
571388H	299	229	0.01	4	670	14	< 2	2	19	< 0.01	10	< 10	14	< 10	60
571389H	299	229	0.01	3	470	18	< 2	1	19	< 0.01	10	< 10	12	< 10	64
571390H	299	229	< 0.01	4	560	14	< 2	1	14	< 0.01	< 10	< 10	10	< 10	72
571391H	299	229	< 0.01	5	610	32	< 2	1	41	< 0.01	< 10	< 10	10	< 10	48
571392H	299	229	0.01	4	690	12	< 2	2	17	< 0.01	10	< 10	26	< 10	112
571393H	299	229	< 0.01	4	500	14	< 2	1	14	< 0.01	< 10	< 10	12	< 10	106
571394H	299	229	< 0.01	4	470	14	< 2	1	17	< 0.01	10	< 10	11	< 10	124
571395H	299	229	< 0.01	6	530	14	2	1	9	< 0.01	< 10	< 10	13	< 10	110
571396H	299	229	< 0.01	6	730	20	2	2	26	< 0.01	10	< 10	19	< 10	116
571397H	299	229	< 0.01	6	650	52	2	1	17	< 0.01	< 10	< 10	13	< 10	106
571398H	299	229	< 0.01	5	640	12	< 2	1	21	< 0.01	< 10	< 10	7	< 10	26
571399H	299	229	0.01	5	610	10	< 2	1	17	< 0.01	< 10	< 10	8	< 10	26
571400H	299	229	< 0.01	6	640	14	< 2	1	16	< 0.01	< 10	< 10	10	< 10	104
571401H	299	229	< 0.01	5	770	8	< 2	2	11	< 0.01	< 10	< 10	15	< 10	74
571402H	299	229	< 0.01	4	570	6	< 2	1	9	< 0.01	< 10	< 10	11	< 10	36
571403H	299	229	< 0.01	5	490	8	< 2	1	9	< 0.01	< 10	< 10	7	< 10	24
571404H	299	229	< 0.01	5	550	14	< 2	1	14	< 0.01	< 10	< 10	6	< 10	24
571405H	299	229	< 0.01	6	610	12	2	1	12	< 0.01	< 10	< 10	8	< 10	30
571406H	299	229	< 0.01	6	550	18	4	1	11	< 0.01	< 10	< 10	9	< 10	50

CERTIFICATION: Thai D Ma

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :19319512
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319512

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571407H	299	229	4.0	0.83	26	20	< 0.5	16	0.12	0.5	14	130	507	9.47	< 10	< 1	0.36	10	0.08	300	1
571408H	299	229	0.8	0.81	18	20	< 0.5	6	1.07	< 0.5	11	167	169	4.75	< 10	< 1	0.28	20	0.38	590	< 1
571409H	299	229	1.0	0.81	12	30	< 0.5	8	1.45	< 0.5	10	131	251	3.57	< 10	< 1	0.23	20	0.64	490	< 1
571410H	299	229	0.6	0.78	26	40	< 0.5	2	0.33	0.5	10	135	829	4.00	< 10	< 1	0.24	10	0.12	315	1
571411H	299	229	0.6	0.71	6	30	< 0.5	2	0.13	0.5	9	119	362	4.43	< 10	< 1	0.23	10	0.04	60	< 1
571412H	299	229	0.6	0.68	10	40	< 0.5	< 2	0.39	< 0.5	10	157	184	4.10	< 10	< 1	0.25	10	0.19	565	< 1
571413H	299	229	0.6	0.84	12	50	< 0.5	2	0.64	< 0.5	12	143	241	4.56	< 10	< 1	0.29	10	0.42	450	< 1
571414H	299	229	0.6	0.80	16	40	< 0.5	4	1.01	< 0.5	9	172	159	4.06	< 10	< 1	0.29	20	0.50	310	< 1
571415H	299	229	0.6	0.69	10	70	< 0.5	< 2	0.19	< 0.5	11	156	319	4.52	< 10	< 1	0.26	20	0.09	590	< 1
571416H	299	229	0.6	0.65	20	70	< 0.5	< 2	0.74	< 0.5	9	163	220	4.97	< 10	< 1	0.28	10	0.38	480	< 1
571417H	299	229	0.6	0.63	12	70	< 0.5	2	0.67	< 0.5	9	133	209	3.49	< 10	< 1	0.30	10	0.29	415	< 1
571418H	299	229	0.6	0.73	12	30	< 0.5	< 2	0.14	0.5	11	137	241	4.77	< 10	< 1	0.32	10	0.07	280	< 1
571419H	299	229	0.2	0.79	8	70	< 0.5	< 2	0.14	< 0.5	10	128	171	4.15	< 10	< 1	0.32	10	0.07	280	< 1
571420H	299	229	0.2	0.79	< 2	60	< 0.5	2	0.38	< 0.5	10	161	182	3.93	< 10	< 1	0.31	20	0.24	480	< 1
571421H	299	229	0.4	0.70	8	100	< 0.5	2	0.94	< 0.5	9	147	322	3.41	< 10	< 1	0.33	10	0.45	500	< 1
571422H	299	229	0.6	0.66	18	80	< 0.5	4	0.41	< 0.5	11	138	275	4.49	< 10	< 1	0.35	10	0.22	550	< 1
571423H	299	229	0.4	0.73	12	80	< 0.5	< 2	0.78	< 0.5	8	124	331	3.24	< 10	< 1	0.33	10	0.33	380	< 1
571424H	299	229	1.0	0.77	24	10	< 0.5	2	0.17	< 0.5	10	129	277	8.94	< 10	< 1	0.40	< 10	0.10	235	1
571425H	299	229	0.2	0.65	22	20	< 0.5	4	0.11	0.5	9	105	118	5.78	< 10	< 1	0.36	< 10	0.07	170	< 1
571426H	299	229	0.6	0.64	30	60	< 0.5	2	0.64	< 0.5	11	111	186	4.26	< 10	< 1	0.33	10	0.30	335	< 1
571427H	299	229	0.8	0.78	12	80	< 0.5	6	0.92	< 0.5	8	163	241	4.17	< 10	< 1	0.32	20	0.43	275	< 1
571428H	299	229	0.6	0.88	10	70	< 0.5	4	1.06	< 0.5	10	197	219	4.15	< 10	< 1	0.35	20	0.47	290	< 1
571429H	299	229	0.6	1.30	8	70	< 0.5	2	1.07	< 0.5	9	159	314	3.20	< 10	< 1	0.33	20	0.64	315	< 1
571430H	299	229	0.6	1.16	28	60	< 0.5	4	1.07	0.5	11	201	252	4.62	< 10	< 1	0.38	20	0.50	235	< 1
571431H	299	229	0.8	0.90	4	30	< 0.5	16	1.13	< 0.5	9	171	337	3.75	< 10	< 1	0.34	20	0.44	215	< 1
571432H	299	229	1.8	0.99	10	40	< 0.5	14	1.08	< 0.5	9	139	673	4.14	< 10	< 1	0.30	20	0.59	240	< 1
571433H	299	229	0.4	0.75	12	70	< 0.5	2	1.04	< 0.5	11	107	249	3.74	< 10	< 1	0.38	20	0.42	350	< 1
571434H	299	229	1.2	0.67	6	30	< 0.5	26	0.19	< 0.5	11	116	282	4.77	< 10	< 1	0.37	10	0.10	300	< 1
571435H	299	229	0.4	0.54	32	30	< 0.5	2	0.31	< 0.5	9	90	159	7.95	< 10	< 1	0.29	< 10	0.14	375	< 1
571436H	299	229	0.8	0.59	34	20	< 0.5	12	0.14	< 0.5	11	94	70	9.91	< 10	< 1	0.30	< 10	0.08	190	1
571437H	299	229	0.6	0.69	36	30	< 0.5	4	0.15	< 0.5	20	96	226	8.59	< 10	< 1	0.35	10	0.09	380	< 1
571438H	299	229	0.2	0.72	8	110	< 0.5	2	0.35	< 0.5	12	121	122	4.27	< 10	< 1	0.34	20	0.15	575	< 1
571439H	299	229	0.6	0.70	6	100	< 0.5	< 2	0.45	< 0.5	11	135	342	4.04	< 10	< 1	0.29	20	0.18	590	< 1
571440H	299	229	1.6	0.56	4	50	< 0.5	6	0.32	< 0.5	11	94	394	5.17	< 10	< 1	0.32	10	0.17	370	< 1
571441H	299	229	4.4	0.53	12	20	< 0.5	12	0.28	0.5	9	73	1850	9.35	< 10	< 1	0.29	10	0.14	225	1
571442H	299	229	0.6	0.64	6	90	< 0.5	2	1.12	< 0.5	9	107	370	3.58	< 10	< 1	0.29	20	0.51	510	< 1
571443H	299	229	0.6	0.68	22	70	< 0.5	4	0.85	< 0.5	11	99	392	3.80	< 10	< 1	0.34	20	0.42	335	< 1
571444H	299	229	0.4	0.77	30	70	< 0.5	< 2	1.13	< 0.5	9	119	296	3.69	< 10	< 1	0.29	20	0.56	390	< 1
571445H	299	229	0.4	0.82	10	50	< 0.5	2	1.21	0.5	11	136	331	4.06	< 10	< 1	0.31	20	0.56	290	< 1
571446H	299	229	0.4	0.84	12	30	< 0.5	2	1.31	0.5	13	138	303	4.18	< 10	< 1	0.29	20	0.62	295	1

CERTIFICATION: Jhai D'Mar

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Page Number :2-B
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CERTIFICATE OF ANALYSIS A9319512

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571407H	299	229	< 0.01	7	470	26	< 2	1	8	< 0.01	< 10	< 10	10	< 10	86
571408H	299	229	0.01	5	500	14	< 2	1	19	< 0.01	10	< 10	11	< 10	90
571409H	299	229	0.02	5	550	16	< 2	2	33	< 0.01	10	< 10	20	< 10	68
571410H	299	229	< 0.01	6	700	16	6	1	12	< 0.01	< 10	< 10	11	< 10	72
571411H	299	229	< 0.01	5	570	12	< 2	1	15	< 0.01	< 10	< 10	9	< 10	36
571412H	299	229	< 0.01	4	480	6	2	1	8	< 0.01	< 10	< 10	9	< 10	68
571413H	299	229	0.01	7	470	6	< 2	1	18	< 0.01	< 10	< 10	10	< 10	80
571414H	299	229	0.01	4	440	8	< 2	1	30	< 0.01	10	< 10	10	< 10	58
571415H	299	229	< 0.01	5	450	12	< 2	1	6	< 0.01	< 10	< 10	10	< 10	114
571416H	299	229	0.01	4	400	8	< 2	1	10	< 0.01	< 10	< 10	10	< 10	70
571417H	299	229	< 0.01	4	440	6	< 2	1	10	< 0.01	10	< 10	11	< 10	70
571418H	299	229	< 0.01	4	530	8	< 2	1	14	< 0.01	< 10	< 10	9	< 10	64
571419H	299	229	< 0.01	5	550	4	2	1	12	< 0.01	< 10	< 10	10	< 10	50
571420H	299	229	0.01	6	460	8	< 2	1	13	< 0.01	< 10	< 10	11	< 10	62
571421H	299	229	< 0.01	5	460	6	2	1	14	< 0.01	10	< 10	10	< 10	66
571422H	299	229	< 0.01	4	470	18	< 2	1	6	< 0.01	< 10	< 10	9	< 10	64
571423H	299	229	< 0.01	4	420	8	2	1	6	< 0.01	< 10	< 10	8	< 10	44
571424H	299	229	0.01	5	350	16	< 2	1	6	< 0.01	< 10	< 10	7	< 10	48
571425H	299	229	0.01	5	350	14	< 2	1	6	< 0.01	< 10	< 10	5	< 10	48
571426H	299	229	0.01	4	400	10	< 2	1	8	< 0.01	< 10	< 10	8	< 10	44
571427H	299	229	0.01	6	420	8	2	1	11	< 0.01	< 10	< 10	8	< 10	42
571428H	299	229	0.01	4	460	12	< 2	1	11	< 0.01	10	< 10	10	< 10	48
571429H	299	229	0.01	4	440	6	< 2	1	20	< 0.01	10	< 10	14	< 10	54
571430H	299	229	0.01	6	500	14	< 2	2	17	< 0.01	10	< 10	12	< 10	90
571431H	299	229	0.01	5	440	12	< 2	1	18	< 0.01	10	< 10	10	< 10	52
571432H	299	229	0.01	3	450	8	< 2	1	22	< 0.01	10	< 10	11	< 10	62
571433H	299	229	0.01	5	470	8	< 2	1	13	< 0.01	10	< 10	10	< 10	54
571434H	299	229	0.01	4	430	8	< 2	1	7	< 0.01	< 10	< 10	7	< 10	52
571435H	299	229	< 0.01	4	340	14	< 2	1	11	< 0.01	< 10	< 10	6	< 10	50
571436H	299	229	0.01	6	280	26	< 2	1	9	< 0.01	< 10	< 10	4	< 10	38
571437H	299	229	0.01	6	360	30	< 2	1	10	< 0.01	< 10	< 10	9	< 10	68
571438H	299	229	< 0.01	4	450	6	< 2	1	8	< 0.01	< 10	< 10	13	< 10	68
571439H	299	229	< 0.01	6	470	8	2	1	9	< 0.01	10	< 10	12	< 10	78
571440H	299	229	< 0.01	5	440	14	< 2	1	7	< 0.01	< 10	< 10	9	< 10	64
571441H	299	229	< 0.01	5	350	20	< 2	1	6	< 0.01	< 10	< 10	5	< 10	50
571442H	299	229	< 0.01	3	460	4	< 2	1	11	< 0.01	10	< 10	11	< 10	60
571443H	299	229	0.01	4	420	8	< 2	1	13	< 0.01	10	< 10	9	< 10	56
571444H	299	229	0.01	3	440	12	4	1	25	< 0.01	10	< 10	9	< 10	62
571445H	299	229	0.01	6	490	12	< 2	1	48	< 0.01	10	< 10	10	< 10	76
571446H	299	229	0.01	6	470	22	< 2	1	63	< 0.01	10	< 10	10	< 10	60

CERTIFICATION: Yhai D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-AUG-93
Invoice No. :I9319512
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319512

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571447H	299	229	0.8	0.83	4	40	< 0.5	2	0.74	< 0.5	14	148	446	5.02	< 10	< 1	0.37	20	0.33	255	< 1
571448H	299	229	1.2	0.84	16	20	< 0.5	6	0.66	1.0	29	127	463	6.86	< 10	< 1	0.44	10	0.36	430	< 1
571449H	299	229	4.2	0.77	4	60	< 0.5	50	0.99	< 0.5	12	167	582	3.52	< 10	< 1	0.35	20	0.56	385	< 1
571450H	299	229	3.0	0.67	18	60	< 0.5	6	0.62	< 0.5	13	130	606	4.59	< 10	< 1	0.34	10	0.27	410	6
571451H	299	229	0.6	0.71	< 2	40	< 0.5	4	0.42	< 0.5	18	124	296	4.68	< 10	< 1	0.38	10	0.18	280	6
571452H	299	229	0.4	0.70	6	60	< 0.5	2	0.79	< 0.5	14	119	243	4.36	< 10	< 1	0.35	10	0.37	235	< 1
571453H	299	229	0.4	0.78	< 2	40	< 0.5	< 2	0.40	< 0.5	19	129	290	5.22	< 10	< 1	0.39	10	0.21	335	< 1
571454H	299	229	0.6	0.79	6	80	< 0.5	2	0.49	< 0.5	16	151	467	3.55	< 10	< 1	0.38	20	0.24	290	< 1
571455H	299	229	0.4	0.74	6	20	< 0.5	2	0.38	< 0.5	17	135	133	6.12	< 10	< 1	0.39	10	0.22	145	< 1
571456H	299	229	0.4	0.69	2	30	< 0.5	2	0.23	< 0.5	13	129	168	5.23	< 10	< 1	0.40	10	0.13	75	3
571457H	299	229	0.4	0.76	10	10	< 0.5	< 2	0.49	< 0.5	20	121	116	7.87	< 10	< 1	0.43	< 10	0.27	125	< 1
571458H	299	229	1.2	0.85	8	50	< 0.5	4	0.88	< 0.5	29	124	469	5.89	< 10	< 1	0.46	10	0.50	330	2
571459H	299	229	1.2	0.76	< 2	50	< 0.5	4	0.31	< 0.5	12	133	299	5.03	< 10	< 1	0.42	10	0.15	155	1
571460H	299	229	0.4	0.73	6	20	< 0.5	< 2	0.19	< 0.5	14	105	140	6.26	< 10	< 1	0.40	10	0.09	95	< 1
571461H	299	229	1.4	0.75	16	40	< 0.5	8	0.57	< 0.5	13	129	349	4.60	< 10	< 1	0.40	10	0.30	210	< 1
571462H	299	229	0.6	0.61	8	20	< 0.5	< 2	0.41	< 0.5	28	97	153	6.23	< 10	< 1	0.34	10	0.21	155	1
571463H	299	229	0.4	0.66	4	30	< 0.5	2	0.37	< 0.5	12	114	255	5.11	< 10	< 1	0.35	10	0.18	240	< 1
571464H	299	229	0.4	0.68	4	60	< 0.5	2	0.81	0.5	11	116	184	4.59	< 10	< 1	0.37	10	0.34	345	< 1
571465H	299	229	1.0	0.67	30	10	< 0.5	6	0.34	0.5	12	111	287	8.07	< 10	< 1	0.34	10	0.16	215	1
571466H	299	229	1.2	0.61	20	10	< 0.5	12	0.27	< 0.5	16	96	104	7.17	< 10	< 1	0.34	< 10	0.12	90	2
571467H	299	229	0.8	0.61	8	40	< 0.5	2	0.37	< 0.5	11	94	356	4.27	< 10	< 1	0.32	10	0.15	115	< 1
571468H	299	229	1.2	0.49	26	10	< 0.5	< 2	0.35	< 0.5	10	78	489	7.67	< 10	< 1	0.27	< 10	0.17	95	< 1
571469H	299	229	0.8	0.49	12	20	< 0.5	2	0.59	< 0.5	13	82	326	6.02	< 10	< 1	0.26	10	0.31	195	< 1
571470H	299	229	0.8	0.49	18	40	< 0.5	2	0.70	< 0.5	12	90	378	4.93	< 10	< 1	0.27	10	0.33	125	< 1
571471H	299	229	0.8	0.73	28	60	< 0.5	2	0.44	< 0.5	15	141	248	4.67	< 10	< 1	0.38	10	0.18	180	< 1
571472H	299	229	1.0	0.60	14	20	< 0.5	< 2	0.22	< 0.5	12	119	317	6.06	< 10	< 1	0.31	< 10	0.10	160	< 1
571473H	299	229	1.4	0.24	36	10	< 0.5	< 2	0.24	< 0.5	14	21	161	11.05	< 10	< 1	0.10	< 10	0.09	115	1
571474H	299	229	0.8	0.19	26	10	< 0.5	< 2	0.22	< 0.5	8	41	284	3.84	< 10	< 1	0.11	< 10	0.04	75	12
571475H	299	229	0.6	0.56	14	40	< 0.5	< 2	0.22	< 0.5	13	111	105	5.38	< 10	< 1	0.28	< 10	0.09	70	3
571476H	299	229	1.4	0.66	20	30	< 0.5	4	0.47	< 0.5	11	106	493	5.97	< 10	< 1	0.30	10	0.22	300	< 1
571477H	299	229	0.8	0.68	12	60	< 0.5	2	0.89	< 0.5	11	127	481	4.66	< 10	< 1	0.34	10	0.45	365	< 1
571478H	299	229	0.6	0.63	24	20	< 0.5	2	0.72	< 0.5	20	85	313	6.19	< 10	< 1	0.29	10	0.33	190	< 1
571479H	299	229	0.2	0.73	14	10	< 0.5	< 2	0.95	< 0.5	22	90	283	6.66	< 10	< 1	0.30	20	0.42	190	< 1
571480H	299	229	0.6	0.82	26	20	< 0.5	< 2	0.65	0.5	15	135	220	5.32	< 10	< 1	0.35	20	0.27	165	< 1

CERTIFICATION: John D'Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 189
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :3
Certificate Date: 25-AUG-93
Invoice No. :19319512
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319512

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571447H	299	229	0.01	4	500	14	< 2	1	14	< 0.01	10	< 10	12	< 10	44
571448H	299	229	0.01	6	500	20	< 2	2	11	< 0.01	< 10	< 10	13	< 10	128
571449H	299	229	0.01	4	510	14	< 2	1	25	< 0.01	10	< 10	13	< 10	52
571450H	299	229	0.01	4	460	8	< 2	1	10	< 0.01	< 10	< 10	12	< 10	46
571451H	299	229	0.01	4	470	8	< 2	1	8	< 0.01	< 10	< 10	11	< 10	40
571452H	299	229	0.01	5	460	6	< 2	1	9	< 0.01	< 10	< 10	10	< 10	24
571453H	299	229	0.01	4	480	14	< 2	1	7	< 0.01	< 10	< 10	13	< 10	30
571454H	299	229	0.01	5	500	4	< 2	1	9	< 0.01	10	< 10	16	< 10	36
571455H	299	229	0.01	4	450	14	< 2	1	7	< 0.01	< 10	< 10	10	< 10	26
571456H	299	229	0.01	4	420	4	< 2	1	7	< 0.01	< 10	< 10	7	< 10	18
571457H	299	229	0.01	5	420	12	< 2	1	7	< 0.01	< 10	< 10	10	< 10	24
571458H	299	229	0.01	3	460	8	< 2	1	11	< 0.01	< 10	< 10	13	< 10	48
571459H	299	229	0.01	4	410	10	< 2	1	7	< 0.01	< 10	< 10	10	< 10	28
571460H	299	229	0.01	4	480	4	< 2	1	6	< 0.01	< 10	< 10	11	< 10	22
571461H	299	229	0.01	3	430	4	< 2	1	11	< 0.01	< 10	< 10	12	< 10	32
571462H	299	229	0.01	4	400	10	< 2	1	8	< 0.01	< 10	< 10	9	< 10	26
571463H	299	229	0.01	4	440	2	< 2	1	7	< 0.01	< 10	< 10	11	< 10	30
571464H	299	229	0.01	5	510	16	< 2	1	10	< 0.01	10	< 10	14	< 10	54
571465H	299	229	0.01	3	410	8	< 2	1	7	< 0.01	< 10	< 10	9	< 10	36
571466H	299	229	0.01	4	360	6	< 2	1	7	< 0.01	< 10	< 10	7	< 10	20
571467H	299	229	0.01	4	500	2	< 2	1	8	< 0.01	< 10	< 10	8	< 10	24
571468H	299	229	< 0.01	4	420	8	< 2	1	7	< 0.01	< 10	< 10	7	< 10	22
571469H	299	229	< 0.01	5	490	2	< 2	1	10	< 0.01	< 10	< 10	12	< 10	28
571470H	299	229	< 0.01	4	440	6	< 2	1	10	< 0.01	< 10	< 10	8	< 10	26
571471H	299	229	< 0.01	5	500	2	< 2	1	8	< 0.01	< 10	< 10	12	< 10	26
571472H	299	229	< 0.01	6	460	16	< 2	1	8	< 0.01	< 10	< 10	9	< 10	26
571473H	299	229	< 0.01	5	300	12	< 2	1	11	< 0.01	< 10	< 10	1	< 10	20
571474H	299	229	< 0.01	3	490	4	< 2	< 1	13	< 0.01	< 10	< 10	1	< 10	20
571475H	299	229	< 0.01	6	470	6	< 2	1	9	< 0.01	< 10	< 10	8	< 10	22
571476H	299	229	< 0.01	6	510	6	< 2	1	9	< 0.01	< 10	< 10	12	< 10	38
571477H	299	229	0.01	5	520	4	< 2	1	12	< 0.01	10	< 10	15	< 10	56
571478H	299	229	< 0.01	4	470	2	< 2	1	9	< 0.01	< 10	< 10	11	< 10	30
571479H	299	229	0.01	4	470	6	< 2	1	9	< 0.01	10	< 10	12	< 10	32
571480H	299	229	0.01	5	440	20	< 2	2	9	< 0.01	10	< 10	13	< 10	64

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 1
Total Pages : 4
Certificate Date: 06-SEP-93
Invoice No. : I9320258
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320258

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566283	208	276	0.03	0.014	0.27	8340						
H566284	208	276	0.04	0.019	0.24	9240						
H566285	208	276	0.03	0.061	0.10	10100						
H566286	208	276	0.02	0.057	0.10	11620						
H566287	208	276	0.03	0.047	0.38	10360						
H566288	208	276	0.05	0.040	0.31	11280						
H566289	208	276	0.04	0.045	0.82	9680						
H566290	208	273	0.03	0.048	0.27	11840						
H566291	208	276	0.05	0.028	0.31	9720						
H566292	208	276	0.06	0.019	0.51	9020						
H566293	208	276	0.03	0.022	0.38	11220						
H566294	208	273	0.04	0.039	0.38	12300						
H566295	208	273	0.06	0.040	0.51	12000						
H566296	208	273	0.03	0.034	0.51	11940						
H566297	208	273	0.11	0.010	0.48	12320						
H566298	208	276	0.08	0.051	0.24	10900						
H566299	208	276	0.09	0.041	0.31	10600						
H566300	208	273	0.36	0.036	0.10	12000						
H566301	208	276	0.47	0.026	0.24	10620						
H566302	208	273	0.82	0.014	0.45	12100						
H566303	208	276	0.86	0.032	0.48	10680						
H566304	208	273	0.38	0.018	0.27	12800						
H566305	208	273	0.34	0.014	0.21	14000						
H566306	208	276	0.41	0.034	0.10	10840						
H566307	208	276	0.56	0.050	0.34	11580						
H566308	208	273	0.98	0.250	0.58	12400						
H566309	208	276	1.50	0.045	0.96	9640						
H566310	208	276	0.98	0.009	0.55	9880						
H566311	208	276	0.53	0.004	0.31	7320						
H566312	208	276	0.57	0.019	0.27	10320						
H566313	208	273	0.59	0.015	0.41	12100						
H566314	208	274	0.37	0.012	0.27	7100						
H566315	208	273	0.43	0.008	0.31	12100						
H566316	208	276	0.40	0.015	0.34	11720						
H566317	208	273	0.16	0.012	0.10	12640						
H566318	208	273	0.26	0.019	0.14	12240						
H566319	208	276	0.09	0.017	0.14	8640						
H566320	208	276	0.21	0.026	0.17	10940						
H566321	208	276	0.28	0.011	0.17	8760						
H566322	208	276	0.38	0.011	0.17	8220						

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. :19320258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320258

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566323	208	276	0.14	0.034	0.07	8700						
H566324	208	273	0.48	0.018	0.24	12280						
H566325	208	276	0.21	0.013	0.14	10580						
H566326	208	276	0.23	0.016	0.24	11140						
H566327	208	273	0.37	0.028	0.10	12180						
H566328	208	274	0.19	0.033	0.10	5100						
H566329	208	273	0.19	0.037	0.14	12300						
H566330	208	273	0.32	0.024	0.21	12360						
H566331	208	276	0.53	0.019	0.34	9400						
H566332	208	273	0.26	0.014	0.27	13360						
H566333	208	273	0.23	0.033	0.17	12840						
H566334	208	273	0.19	0.032	0.21	12520						
H566335 **	208	273	0.43	0.021	0.27	12980						
H566336	208	273	0.26	0.021	0.34	12420						
H566337	208	273	0.49	0.047	0.24	12460						
H566338	208	276	0.35	0.026	0.31	11680						
H566339	208	273	0.31	0.038	0.27	12960						
H566340	208	273	0.60	0.037	0.24	11960						
H566341	208	273	0.27	0.017	0.24	12380						
H566342	208	273	0.54	0.015	0.58	12180						
H566343	208	273	0.44	0.012	0.51	12660						
H566344	208	273	0.45	0.025	0.58	12160						
H566345	208	276	0.54	0.036	0.58	11580						
H566346 **	208	273	0.97	0.016	0.48	12880						
H566347 **	208	276	0.68	0.036	0.65	11080						
H566348	208	276	0.75	0.009	0.48	7900						
H566349	208	273	0.63	0.010	0.75	12680						
H566350	208	273	0.51	0.069	0.55	13060						
H566351	208	273	0.43	0.021	0.34	13000						
H566352 **	208	273	0.82	0.023	0.69	12360						
H566353	208	273	0.57	0.034	0.55	12400						
H566354	208	273	0.41	0.011	0.38	12460						
H566355 **	208	273	0.38	0.042	0.41	12960						
H566356	208	276	0.46	0.010	0.48	11560						
H566357	208	273	0.28	0.030	0.34	14360						
H566358	208	273	0.21	0.033	0.27	13220						
H566359	208	273	0.51	0.078	0.62	12840						
H566360	208	273	0.66	0.024	0.79	13580						
H566361 **	208	276	0.93	0.018	0.58	11300						
H566362	208	273	0.37	0.004	0.41	12000						

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 06-SEP-93
Invoice No. :I9320258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320258

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566363	208	273	0.31	0.013	0.51	12600						
H566364	208	273	0.57	0.024	0.72	13180						
H566365	208	273	0.48	0.012	0.62	13820						
H566366 **	208	273	0.31	0.019	0.31	12280						
H566367	208	273	0.32	0.009	0.38	12120						
H566368	208	273	0.19	0.004	0.27	12780						
H566369	208	276	0.15	0.008	0.21	9060						
H566370	208	273	0.19	0.007	0.38	13120						
H566371	208	273	0.38	0.010	0.41	13220						
H566372	208	273	0.26	0.020	0.38	13960						
H566373	208	273	0.27	0.005	0.31	12680						
H566374	208	273	0.28	0.024	0.27	13300						
H566375	208	273	0.29	0.016	0.27	13520						
H566376	208	273	0.15	0.006	0.17	12600						
H566377	208	273	0.16	0.006	0.17	12640						
H566378	208	273	0.21	0.004	0.21	12960						
H566379	208	273	0.26	0.007	0.21	13480						
H566380	208	273	0.34	0.004	0.24	13900						
H566381	208	273	0.13	0.005	0.14	11820						
H566382	208	273	0.16	0.010	0.21	13220						
H566383	208	273	0.13	0.002	0.48	13240						
H566384	208	273	0.17	0.022	0.17	13500						
H566385	208	276	0.12	0.018	0.17	11800						
H566386	208	273	0.12	0.009	0.14	12600						
H566387	208	273	0.18	0.009	0.10	11840						
H566388	208	273	0.11	0.007	0.21	12800						
H566389	208	273	0.09	0.003	0.21	13100						
H566390	208	273	0.13	0.006	0.07	12680						
H566391	208	273	0.18	0.003	0.24	13340						
H566392	208	273	0.24	0.013	0.21	13280						
H566393	208	273	0.26	0.009	0.17	12860						
H566394	208	273	0.37	0.072	0.34	13820						
H566395	208	273	1.02	0.109	1.36	13540						
H566396	208	273	0.18	0.008	0.24	12520						
H566397	208	273	0.16	0.011	0.17	13740						
H566398	208	273	0.09	0.003	0.10	13760						
H566399	208	273	0.12	0.004	0.17	13360						
H566400	208	273	0.08	0.010	0.34	12220						
H566401	208	276	0.17	0.003	0.24	11580						
H566402	208	273	0.10	0.002	0.14	12800						

CERTIFICATION: Mark Vinh

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :4
Certificate Date: 06-SEP-93
Invoice No. :19320258
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320258

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566403	208	273	0.10	0.004	0.14	12600						
H566404	208	273	0.12	0.002	0.14	13120						
H566405	208	273	0.10	0.002	0.27	12600						
H566406	208	273	0.04	0.002	0.14	13300						
H566407	208	273	0.04	0.002	0.10	13120						
H566408	208	273	0.10	0.003	0.14	12620						
H566409	208	273	0.06	0.002	0.07	14140						
H566410	208	273	0.06	0.003	0.34	13120						
H566411	208	273	0.07	0.005	0.14	12760						
H566412	208	273	0.07	0.003	0.17	11820						
H566413	208	273	0.04	0.003	0.07	12000						
H566414	208	273	0.08	0.003	< 0.03	12460						
H566415	208	273	0.07	0.004	0.03	12780						
H566416	208	273	0.09	0.003	0.03	13840						
H566417	208	273	0.05	0.003	0.17	13100						
H566418	208	273	0.04	0.002	0.10	13600						
H566419	208	273	0.03	0.004	0.07	13780						
H566420	208	273	0.04	0.003	0.14	14120						
H566421	208	273	0.03	0.003	< 0.03	13620						
H566422	208	273	0.04	0.003	< 0.03	13760						
H566423	208	273	0.03	0.003	< 0.03	13960						
H566424	208	273	0.04	0.003	< 0.03	13140						
H566425	208	273	0.04	0.003	< 0.03	12520						
H566426	208	273	0.02	0.003	< 0.03	13140						
H566427	208	273	0.03	0.003	< 0.03	13200						
H566428	208	273	0.04	0.003	0.07	13620						

CERTIFICATION: _____

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-SEP-93
Invoice No. :I9320260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566283	299	229	1.2	0.91	12	300	< 0.5	< 2	0.03	< 0.5	< 1	132	279	2.21	< 10	< 1	0.50	20	0.06	15	94
H566284	299	229	1.2	0.45	30	270	< 0.5	2	0.01	< 0.5	< 1	61	382	2.51	< 10	< 1	0.34	10	0.03	5	115
H566285	299	229	0.8	0.54	36	240	< 0.5	< 2	0.01	< 0.5	1	170	282	2.07	< 10	< 1	0.35	30	0.02	10	368
H566286	299	229	1.2	0.24	36	270	< 0.5	< 2	0.01	< 0.5	1	94	177	1.75	< 10	< 1	0.22	20	0.01	10	350
H566287	299	229	2.0	0.92	52	230	< 0.5	< 2	0.01	< 0.5	2	103	320	2.43	< 10	< 1	0.34	20	0.04	10	271
H566288	299	229	2.0	0.68	88	370	< 0.5	4	0.02	< 0.5	1	42	508	4.31	< 10	< 1	0.30	10	0.03	5	240
H566289	299	229	3.8	1.23	56	280	< 0.5	< 2	0.02	< 0.5	1	50	388	3.46	< 10	< 1	0.47	30	0.07	5	258
H566290	299	229	1.8	0.46	56	270	< 0.5	< 2	0.02	< 0.5	1	67	326	3.29	< 10	< 1	0.26	30	0.02	5	281
H566291	299	229	0.8	1.16	100	430	< 0.5	2	0.06	< 0.5	1	99	484	3.88	10	< 1	0.27	40	0.05	5	166
H566292	299	229	2.0	0.79	208	180	< 0.5	4	0.05	< 0.5	6	37	619	5.69	10	< 1	0.27	40	0.03	15	111
H566293	299	229	1.6	1.06	40	170	< 0.5	2	0.03	< 0.5	3	49	314	3.40	< 10	< 1	0.50	20	0.03	10	120
H566294	299	229	1.6	0.54	52	630	< 0.5	< 2	0.02	< 0.5	2	54	414	3.04	< 10	< 1	0.20	30	0.02	15	235
H566295	299	229	1.6	0.93	24	270	< 0.5	< 2	0.03	< 0.5	4	114	577	3.03	< 10	< 1	0.34	20	0.07	15	238
H566296	299	229	2.0	0.53	16	640	< 0.5	< 2	0.04	< 0.5	2	82	342	2.35	< 10	< 1	0.25	20	0.09	15	197
H566297	299	229	1.6	0.90	12	210	< 0.5	< 2	0.04	< 0.5	9	108	1090	1.53	< 10	< 1	0.32	20	0.05	10	57
H566298	299	229	1.6	0.76	30	130	< 0.5	< 2	0.07	< 0.5	11	66	819	3.30	< 10	< 1	0.15	30	0.03	15	299
H566299	299	229	1.8	1.37	26	90	< 0.5	< 2	0.09	< 0.5	11	125	956	3.86	< 10	< 1	0.24	40	0.05	20	221
H566300	299	229	0.8	4.81	114	90	30.0	< 2	0.25	< 0.5	24	47	3490	7.44	< 10	< 1	0.12	20	0.03	25	187
H566301	299	229	2.0	2.86	96	70	< 0.5	< 2	0.12	< 0.5	33	93	4660	5.89	< 10	< 1	0.25	20	0.07	25	132
H566302	299	229	2.8	0.94	26	40	< 0.5	< 2	0.06	< 0.5	41	45	8620	3.00	< 10	< 1	0.15	20	0.04	10	86
H566303	299	229	2.8	1.28	38	40	< 0.5	< 2	0.07	< 0.5	37	92	8430	2.94	< 10	< 1	0.26	20	0.05	15	195
H566304	299	229	1.4	0.38	22	30	< 0.5	< 2	0.07	< 0.5	53	64	3960	3.22	< 10	< 1	0.18	20	0.03	5	101
H566305	299	229	0.6	0.91	< 2	20	< 0.5	< 2	0.08	< 0.5	64	100	3490	5.48	< 10	< 1	0.38	10	0.07	15	86
H566306	299	229	1.0	0.83	26	30	< 0.5	< 2	0.14	< 0.5	56	43	4200	3.42	< 10	< 1	0.19	10	0.06	20	209
H566307	299	229	1.4	1.38	6	40	< 0.5	< 2	0.07	< 0.5	54	107	5790	2.67	< 10	< 1	0.40	20	0.09	10	308
H566308	299	229	3.4	0.85	34	20	< 0.5	< 2	0.23	< 0.5	59	58	>10000	3.62	< 10	< 1	0.15	30	0.03	15	1535
H566309	299	229	3.4	1.66	28	40	< 0.5	< 2	0.12	< 0.5	33	89	>10000	2.94	< 10	< 1	0.30	20	0.10	15	279
H566310	299	229	2.6	0.91	24	30	< 0.5	< 2	0.08	< 0.5	31	57	9970	3.93	< 10	< 1	0.25	20	0.07	10	51
H566311	299	229	1.4	2.39	< 2	70	< 0.5	2	0.33	1.5	47	66	5430	3.89	< 10	< 1	0.64	20	0.59	750	18
H566312	299	229	1.2	1.26	14	40	< 0.5	< 2	0.28	< 0.5	43	31	5730	2.72	< 10	< 1	0.26	20	0.16	35	107
H566313	299	229	1.4	1.20	16	40	< 0.5	< 2	0.13	< 0.5	30	90	5890	3.48	< 10	< 1	0.38	10	0.18	280	81
H566314	299	229	0.8	0.78	< 2	50	< 0.5	< 2	0.09	0.5	33	63	3730	3.36	< 10	< 1	0.47	< 10	0.44	170	60
H566315	299	229	1.2	1.78	2	90	< 0.5	< 2	0.10	< 0.5	26	87	4120	2.81	< 10	< 1	0.94	10	0.86	110	42
H566316	299	229	1.0	0.60	< 2	30	< 0.5	< 2	0.06	< 0.5	41	58	4010	3.37	< 10	< 1	0.20	10	0.06	10	80
H566317	299	229	0.2	0.92	4	40	< 0.5	< 2	0.07	< 0.5	36	100	1530	2.94	< 10	< 1	0.39	20	0.07	15	74
H566318	299	229	0.6	0.39	< 2	30	< 0.5	< 2	0.04	< 0.5	52	53	2640	3.46	< 10	< 1	0.17	10	0.02	5	107
H566319	299	229	0.4	0.77	< 2	40	< 0.5	< 2	0.04	< 0.5	54	101	918	3.31	< 10	< 1	0.42	20	0.06	10	101
H566320	299	229	0.2	0.40	8	20	< 0.5	4	0.06	< 0.5	93	70	2200	4.99	< 10	< 1	0.19	10	0.03	5	154
H566321	299	229	0.6	0.90	30	40	< 0.5	< 2	0.07	< 0.5	43	115	2790	3.33	< 10	< 1	0.43	10	0.09	10	61
H566322	299	229	0.8	0.54	12	30	< 0.5	< 2	0.05	< 0.5	35	85	3810	3.15	< 10	< 1	0.23	10	0.05	10	56

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :4
Certificate Date: 14-SEP-93
Invoice No. :19320260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566283	299	229	0.02	2	460	8	2	2	107	< 0.01	< 10	< 10	13	< 10	6
H566284	299	229	0.01	1	490	4	10	2	90	< 0.01	< 10	< 10	11	< 10	6
H566285	299	229	0.01	1	270	8	22	< 1	49	< 0.01	< 10	< 10	6	< 10	4
H566286	299	229	0.01	1	230	< 2	24	< 1	44	< 0.01	< 10	< 10	4	< 10	2
H566287	299	229	0.01	2	620	6	26	2	62	< 0.01	< 10	< 10	22	< 10	14
H566288	299	229	0.01	< 1	1350	4	32	4	81	< 0.01	< 10	< 10	39	< 10	20
H566289	299	229	0.01	1	1420	8	16	4	111	< 0.01	< 10	< 10	38	< 10	18
H566290	299	229	0.01	1	810	< 2	32	1	154	< 0.01	< 10	< 10	10	< 10	22
H566291	299	229	< 0.01	3	1440	8	22	3	457	< 0.01	< 10	< 10	19	< 10	34
H566292	299	229	0.01	3	2170	10	20	8	390	< 0.01	< 10	< 10	52	< 10	56
H566293	299	229	0.02	2	1390	14	30	4	122	< 0.01	< 10	< 10	37	< 10	20
H566294	299	229	0.01	3	690	18	38	2	96	< 0.01	< 10	< 10	10	< 10	30
H566295	299	229	0.01	3	390	4	16	2	32	< 0.01	< 10	< 10	21	< 10	34
H566296	299	229	0.01	2	340	12	10	2	53	< 0.01	< 10	< 10	17	< 10	26
H566297	299	229	0.04	2	260	6	8	2	50	< 0.01	< 10	< 10	14	< 10	16
H566298	299	229	0.03	6	790	8	16	3	170	< 0.01	< 10	< 10	13	< 10	92
H566299	299	229	0.07	9	1000	18	16	4	237	< 0.01	< 10	< 10	18	< 10	138
H566300	299	229	0.01	26	2600	8	10	16	323	< 0.01	< 10	40	20	< 10	332
H566301	299	229	0.01	22	1190	12	16	7	159	< 0.01	< 10	10	17	< 10	210
H566302	299	229	< 0.01	9	510	8	10	2	141	< 0.01	< 10	< 10	8	< 10	44
H566303	299	229	0.01	11	570	16	40	2	134	< 0.01	< 10	< 10	9	< 10	60
H566304	299	229	< 0.01	7	370	< 2	8	1	59	< 0.01	< 10	< 10	4	< 10	14
H566305	299	229	0.01	9	440	4	< 2	1	91	< 0.01	< 10	< 10	7	< 10	18
H566306	299	229	< 0.01	9	830	8	4	2	112	< 0.01	< 10	< 10	9	< 10	50
H566307	299	229	0.01	11	430	8	6	2	75	< 0.01	< 10	< 10	11	< 10	36
H566308	299	229	0.01	11	1280	4	36	2	140	< 0.01	< 10	< 10	13	10	48
H566309	299	229	0.01	12	870	8	18	4	169	< 0.01	< 10	< 10	25	< 10	62
H566310	299	229	< 0.01	10	450	12	18	2	93	< 0.01	< 10	< 10	12	< 10	50
H566311	299	229	0.02	16	980	6	6	4	60	0.02	< 10	< 10	33	< 10	160
H566312	299	229	0.01	18	1220	2	2	2	108	< 0.01	< 10	< 10	17	< 10	58
H566313	299	229	0.02	10	580	6	< 2	4	33	< 0.01	< 10	< 10	24	< 10	46
H566314	299	229	0.01	6	330	8	< 2	5	14	0.02	< 10	< 10	35	< 10	56
H566315	299	229	0.02	9	530	4	2	9	108	0.08	< 10	< 10	68	< 10	38
H566316	299	229	< 0.01	9	360	4	2	1	74	< 0.01	< 10	< 10	8	< 10	24
H566317	299	229	0.01	6	390	6	< 2	1	94	< 0.01	< 10	< 10	7	< 10	18
H566318	299	229	< 0.01	8	260	2	< 2	< 1	61	< 0.01	< 10	< 10	2	< 10	20
H566319	299	229	0.02	7	260	2	2	< 1	46	< 0.01	< 10	< 10	6	< 10	6
H566320	299	229	0.01	10	320	4	4	1	73	< 0.01	< 10	< 10	3	< 10	12
H566321	299	229	0.01	8	370	10	< 2	1	87	< 0.01	< 10	< 10	6	< 10	24
H566322	299	229	0.01	7	330	4	< 2	< 1	84	< 0.01	< 10	< 10	2	< 10	14

CERTIFICATION: Stewart Bachiller.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-SEP-93
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CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566323	299	229	0.4	0.81	< 2	60	< 0.5	< 2	0.05	< 0.5	29	134	1360	2.44	< 10	< 1	0.35	20	0.06	15	193
H566324	299	229	1.6	0.83	8	60	< 0.5	< 2	0.06	< 0.5	29	146	4800	2.65	< 10	< 1	0.38	20	0.09	30	97
H566325	299	229	0.6	0.65	6	50	< 0.5	< 2	0.06	< 0.5	38	99	2140	2.73	< 10	< 1	0.32	20	0.07	45	69
H566326	299	229	0.6	0.86	8	70	< 0.5	< 2	0.06	< 0.5	30	119	2390	2.58	< 10	< 1	0.42	20	0.14	15	83
H566327	299	229	0.6	0.89	16	40	< 0.5	< 2	0.08	< 0.5	49	93	3700	3.55	< 10	< 1	0.25	20	0.04	10	152
H566328	299	229	0.6	0.79	2	80	< 0.5	< 2	0.07	< 0.5	26	101	1810	2.10	< 10	< 1	0.29	20	0.04	10	193
H566329	299	229	0.6	0.55	14	70	< 0.5	< 2	0.06	< 0.5	27	89	1920	2.10	< 10	< 1	0.24	20	0.04	45	209
H566330	299	229	1.2	0.51	4	70	< 0.5	< 2	0.07	< 0.5	37	104	3210	2.60	< 10	< 1	0.30	20	0.07	250	132
H566331	299	229	1.6	0.93	16	70	< 0.5	2	0.10	< 0.5	23	83	5250	2.25	< 10	< 1	0.36	10	0.20	85	99
H566332	299	229	1.2	0.78	6	40	< 0.5	< 2	0.08	< 0.5	30	109	2660	2.61	< 10	< 1	0.38	10	0.08	70	74
H566333	299	229	0.6	0.75	4	20	< 0.5	< 2	0.07	< 0.5	46	81	2310	3.32	< 10	< 1	0.28	10	0.04	10	185
H566334	299	229	0.8	0.68	< 2	40	< 0.5	< 2	0.07	< 0.5	32	112	1895	2.44	< 10	< 1	0.31	10	0.05	10	173
H566335	299	229	1.4	0.65	4	70	< 0.5	< 2	0.06	< 0.5	35	88	4310	2.32	< 10	< 1	0.32	10	0.08	130	109
H566336	299	229	0.8	0.75	< 2	70	< 0.5	< 2	0.07	< 0.5	35	109	2700	2.76	< 10	< 1	0.43	10	0.10	120	117
H566337	299	229	1.0	0.77	10	40	< 0.5	< 2	0.06	< 0.5	36	86	4820	2.37	< 10	< 1	0.29	10	0.05	10	263
H566338	299	229	0.8	0.88	6	60	< 0.5	< 2	0.07	< 0.5	34	105	3580	2.40	< 10	< 1	0.36	20	0.08	10	142
H566339	299	229	0.8	0.95	220	80	< 0.5	< 2	0.07	< 0.5	30	69	3140	2.12	< 10	< 1	0.38	20	0.16	20	219
H566340	299	229	2.0	0.75	76	70	< 0.5	< 2	0.07	< 0.5	32	98	6170	2.35	< 10	< 1	0.35	20	0.10	50	210
H566341	299	229	0.8	0.56	6	60	< 0.5	< 2	0.07	< 0.5	34	70	2760	2.46	< 10	< 1	0.33	10	0.10	120	89
H566342	299	229	2.2	0.75	228	60	< 0.5	< 2	0.26	< 0.5	36	73	5290	2.73	< 10	< 1	0.52	10	0.44	325	80
H566343	299	229	1.8	0.78	132	70	< 0.5	< 2	0.15	< 0.5	33	58	4410	2.43	< 10	< 1	0.48	10	0.42	185	67
H566344	299	229	1.4	1.03	8	50	< 0.5	< 2	0.11	< 0.5	37	75	4510	3.78	< 10	< 1	0.40	20	0.22	120	140
H566345	299	229	2.6	0.87	30	60	< 0.5	< 2	0.13	0.5	40	67	5380	2.93	< 10	< 1	0.33	20	0.19	420	208
H566346	299	229	2.6	1.00	2	40	< 0.5	< 2	0.15	< 0.5	43	80	9650	4.16	< 10	< 1	0.33	20	0.09	470	89
H566347	299	229	2.6	1.30	12	70	< 0.5	< 2	0.15	< 0.5	26	63	6700	1.98	< 10	< 1	0.32	20	0.13	30	204
H566348	299	229	4.0	1.89	292	100	< 0.5	< 2	0.17	< 0.5	39	82	7290	2.47	< 10	< 1	0.48	20	0.19	265	44
H566349	299	229	2.8	1.41	684	120	< 0.5	< 2	0.43	< 0.5	39	66	6430	2.76	< 10	< 1	0.42	20	0.29	1000	52
H566350	299	229	2.4	1.19	18	70	< 0.5	< 2	0.24	< 0.5	68	77	5060	3.32	< 10	< 1	0.37	20	0.15	355	390
H566351	299	229	1.4	0.99	6	60	< 0.5	< 2	0.17	< 0.5	44	62	4230	3.85	< 10	< 1	0.38	20	0.22	405	113
H566352	299	229	2.6	1.17	4	60	< 0.5	< 2	0.11	< 0.5	40	102	8090	2.49	< 10	< 1	0.33	10	0.07	30	129
H566353	299	229	1.8	1.39	2	80	< 0.5	< 2	0.37	< 0.5	34	81	5690	2.16	< 10	< 1	0.29	20	0.19	165	199
H566354	299	229	1.8	1.25	2	40	< 0.5	< 2	0.21	< 0.5	35	90	4040	3.61	< 10	< 1	0.43	20	0.30	380	51
H566355	299	229	1.6	0.99	2	70	< 0.5	< 2	0.53	< 0.5	35	62	3570	2.65	< 10	< 1	0.56	10	0.73	260	223
H566356	299	229	3.0	1.00	4	50	< 0.5	< 2	0.39	< 0.5	37	69	4600	3.69	< 10	< 1	0.47	10	0.59	435	48
H566357	299	229	1.0	1.23	6	70	< 0.5	< 2	0.43	< 0.5	42	41	2730	3.03	< 10	< 1	0.48	20	0.74	375	168
H566358	299	229	0.8	1.29	< 2	40	< 0.5	< 2	0.93	< 0.5	30	82	2040	3.84	< 10	< 1	0.66	10	1.04	190	171
H566359	299	229	2.6	0.96	12	30	< 0.5	< 2	0.88	< 0.5	40	64	5120	4.38	< 10	< 1	0.46	30	0.68	225	432
H566360	299	229	5.0	0.81	64	30	< 0.5	16	0.56	< 0.5	41	81	6640	5.55	< 10	< 1	0.40	20	0.36	595	130
H566361	299	229	1.8	0.59	12	30	< 0.5	< 2	0.18	0.5	64	73	9760	4.49	< 10	< 1	0.20	30	0.13	710	89
H566362	299	229	1.6	2.08	6	100	< 0.5	< 2	0.39	< 0.5	45	72	3590	3.47	< 10	< 1	0.74	20	0.80	325	18

CERTIFICATION: Heather Buckle

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-SEP-93
Invoice No. :19320260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B566323	299	229	0.01	6	290	4	< 2	1	89	< 0.01	< 10	< 10	5	< 10	16
B566324	299	229	0.01	8	290	< 2	2	1	67	< 0.01	< 10	< 10	7	< 10	18
B566325	299	229	0.01	7	230	4	< 2	1	37	< 0.01	< 10	< 10	5	< 10	22
B566326	299	229	0.01	7	330	< 2	< 2	2	83	< 0.01	< 10	< 10	15	< 10	16
B566327	299	229	0.01	8	520	6	4	1	132	< 0.01	< 10	< 10	4	< 10	24
B566328	299	229	0.01	8	380	8	4	1	117	< 0.01	< 10	< 10	6	< 10	16
B566329	299	229	0.01	5	360	4	2	1	96	< 0.01	< 10	< 10	6	< 10	18
B566330	299	229	0.01	7	250	2	2	1	24	< 0.01	< 10	< 10	9	< 10	48
B566331	299	229	0.01	10	410	12	4	3	62	0.01	< 10	< 10	20	< 10	32
B566332	299	229	0.01	7	350	2	4	1	42	< 0.01	< 10	< 10	8	< 10	18
B566333	299	229	0.01	8	360	4	6	1	58	< 0.01	< 10	< 10	4	< 10	6
B566334	299	229	0.01	6	320	6	2	< 1	44	< 0.01	< 10	< 10	4	< 10	12
B566335	299	229	0.01	7	240	2	2	1	53	< 0.01	< 10	< 10	10	< 10	38
B566336	299	229	0.01	7	240	2	2	1	17	< 0.01	< 10	< 10	10	< 10	22
B566337	299	229	0.01	8	360	2	4	1	88	< 0.01	< 10	< 10	4	< 10	12
B566338	299	229	0.01	8	420	< 2	2	1	130	< 0.01	< 10	< 10	8	< 10	14
B566339	299	229	0.01	7	420	6	20	2	116	< 0.01	< 10	< 10	19	< 10	38
B566340	299	229	0.01	8	470	6	6	2	128	< 0.01	< 10	< 10	13	< 10	34
B566341	299	229	0.01	6	260	< 2	2	1	22	< 0.01	< 10	< 10	10	< 10	22
B566342	299	229	0.01	8	330	4	20	4	16	0.01	< 10	< 10	35	< 10	46
B566343	299	229	0.01	8	230	2	24	4	15	0.02	< 10	< 10	33	< 10	50
B566344	299	229	0.01	9	450	12	6	4	107	< 0.01	< 10	< 10	24	< 10	32
B566345	299	229	0.01	6	450	12	4	4	14	< 0.01	< 10	< 10	28	< 10	52
B566346	299	229	0.01	8	500	10	6	3	51	< 0.01	< 10	< 10	17	< 10	58
B566347	299	229	0.01	9	670	10	4	3	77	< 0.01	< 10	< 10	21	< 10	46
B566348	299	229	0.01	9	490	6	34	4	16	< 0.01	< 10	< 10	30	< 10	114
B566349	299	229	0.01	8	410	18	6	4	31	< 0.01	< 10	< 10	26	< 10	128
B566350	299	229	0.01	11	470	8	10	3	18	< 0.01	< 10	< 10	20	< 10	82
B566351	299	229	0.01	6	520	8	8	3	70	< 0.01	< 10	< 10	20	< 10	80
B566352	299	229	0.01	11	470	8	4	2	90	< 0.01	< 10	< 10	15	< 10	32
B566353	299	229	0.01	8	690	4	4	4	11	< 0.01	< 10	< 10	27	< 10	62
B566354	299	229	0.01	7	510	10	2	5	9	0.01	< 10	< 10	37	< 10	64
B566355	299	229	0.01	5	390	6	2	5	15	0.04	< 10	< 10	41	< 10	52
B566356	299	229	0.01	6	400	8	< 2	4	21	0.02	< 10	< 10	34	< 10	76
B566357	299	229	0.01	4	480	8	4	5	20	0.03	< 10	< 10	40	< 10	86
B566358	299	229	0.03	4	440	2	< 2	7	37	0.06	< 10	< 10	55	< 10	34
B566359	299	229	0.01	7	680	4	6	4	28	0.02	< 10	< 10	35	< 10	52
B566360	299	229	0.01	6	500	28	12	4	13	< 0.01	< 10	< 10	24	< 10	54
B566361	299	229	< 0.01	10	580	6	2	4	53	< 0.01	< 10	< 10	20	< 10	42
B566362	299	229	0.01	7	850	12	4	7	23	0.06	< 10	< 10	56	< 10	54

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :4
Certificate Date: 14-SEP-93
Invoice No. :I9320260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566363	299	229	6.2	1.08	2	90	< 0.5	< 2	0.38	< 0.5	36	68	3120	3.94	< 10	< 1	0.50	20	0.68	455	78
H566364	299	229	7.2	1.42	22	50	< 0.5	< 2	0.84	< 0.5	35	93	5820	3.59	< 10	< 1	0.60	20	0.87	205	133
H566365	299	229	3.8	0.97	< 2	60	< 0.5	< 2	0.70	< 0.5	41	101	4980	3.60	< 10	< 1	0.43	30	0.80	480	65
H566366	299	229	2.0	1.38	< 2	60	< 0.5	2	0.51	< 0.5	39	96	3180	3.28	< 10	< 1	0.56	20	0.73	310	107
H566367	299	229	1.8	0.70	6	50	< 0.5	< 2	0.91	< 0.5	31	74	3330	3.17	< 10	< 1	0.33	20	0.75	145	56
H566368	299	229	1.4	1.24	< 2	60	< 0.5	2	1.20	< 0.5	23	92	2010	3.70	< 10	< 1	0.57	20	1.02	210	28
H566369	299	229	1.2	1.03	< 2	130	< 0.5	< 2	0.28	< 0.5	20	85	1460	2.99	< 10	< 1	0.52	30	0.77	570	47
H566370	299	229	0.8	1.12	< 2	70	< 0.5	< 2	0.49	< 0.5	43	70	1910	3.58	< 10	< 1	0.56	20	0.80	345	41
H566371	299	229	1.8	0.57	< 2	30	< 0.5	< 2	0.60	< 0.5	119	56	4100	3.79	< 10	< 1	0.34	10	0.47	285	65
H566372	299	229	1.2	0.76	6	40	< 0.5	< 2	0.37	< 0.5	66	77	2620	4.21	< 10	< 1	0.41	10	0.44	580	119
H566373	299	229	1.6	0.80	6	50	< 0.5	< 2	0.49	< 0.5	33	64	2610	4.05	< 10	< 1	0.45	20	0.73	360	22
H566374	299	229	1.8	0.75	< 2	70	< 0.5	< 2	0.74	< 0.5	41	94	2920	3.34	< 10	< 1	0.31	10	0.53	660	142
H566375	299	229	2.4	0.34	4	10	< 0.5	2	1.08	< 0.5	100	70	3010	6.67	< 10	< 1	0.19	10	0.40	330	88
H566376	299	229	1.4	1.23	2	90	< 0.5	4	0.81	< 0.5	25	93	1505	3.32	< 10	< 1	0.46	20	0.88	260	31
H566377	299	229	1.0	0.54	< 2	80	< 0.5	< 2	0.63	< 0.5	34	92	1615	3.33	< 10	< 1	0.22	20	0.58	565	39
H566378	299	229	4.6	0.72	236	40	< 0.5	< 2	1.50	1.5	39	85	2070	4.00	< 10	< 1	0.37	10	0.89	1320	20
H566379	299	229	2.0	0.48	84	20	< 0.5	12	1.20	< 0.5	22	78	2570	4.73	< 10	< 1	0.28	10	0.64	430	41
H566380	299	229	2.8	0.60	730	10	< 0.5	< 2	1.00	< 0.5	26	76	3400	5.59	< 10	< 1	0.35	< 10	0.48	670	25
H566381	299	229	0.8	1.03	2	80	< 0.5	2	1.01	< 0.5	22	101	1350	3.39	< 10	< 1	0.50	20	0.91	525	29
H566382	299	229	1.2	0.77	2	50	< 0.5	8	1.39	< 0.5	23	92	1665	4.09	< 10	< 1	0.34	10	0.82	520	58
H566383	299	229	0.6	1.27	< 2	90	< 0.5	2	0.86	< 0.5	22	52	1270	3.69	< 10	< 1	0.43	20	0.98	250	8
H566384	299	229	1.2	0.96	< 2	10	< 0.5	20	0.67	< 0.5	57	53	1730	7.40	< 10	< 1	0.38	10	0.78	150	120
H566385	299	229	0.6	1.11	< 2	30	< 0.5	2	0.59	< 0.5	54	69	1330	4.16	< 10	< 1	0.38	20	0.73	160	112
H566386	299	229	0.6	1.20	4	70	< 0.5	2	0.59	< 0.5	21	46	1160	3.46	< 10	< 1	0.44	10	0.94	165	50
H566387	299	229	1.0	0.95	< 2	80	< 0.5	2	0.48	< 0.5	24	58	1715	3.50	< 10	< 1	0.39	20	0.94	220	49
H566388	299	229	0.8	0.94	< 2	40	< 0.5	2	0.69	< 0.5	28	48	1070	4.32	< 10	< 1	0.40	20	0.59	185	38
H566389	299	229	0.4	1.16	4	90	< 0.5	< 2	0.67	< 0.5	19	54	965	2.93	< 10	< 1	0.34	20	0.65	110	19
H566390	299	229	0.8	1.10	< 2	90	< 0.5	< 2	0.60	< 0.5	22	53	1395	3.61	< 10	< 1	0.43	20	0.78	285	36
H566391	299	229	1.2	1.01	6	60	< 0.5	< 2	0.25	< 0.5	100	55	1820	4.69	< 10	< 1	0.48	20	0.49	170	17
H566392	299	229	1.4	0.42	< 2	40	< 0.5	< 2	0.25	< 0.5	44	54	2510	3.74	< 10	< 1	0.25	< 10	0.13	35	71
H566393	299	229	1.4	0.65	8	30	< 0.5	< 2	0.28	< 0.5	93	39	2760	5.57	< 10	< 1	0.34	10	0.18	110	56
H566394	299	229	2.2	0.48	16	20	< 0.5	4	0.36	< 0.5	53	35	3820	7.17	< 10	< 1	0.28	10	0.33	425	431
H566395	299	229	4.0	0.41	8	20	< 0.5	< 2	0.44	< 0.5	59	39	>10000	10.65	< 10	< 1	0.28	< 10	0.48	895	622
H566396	299	229	1.4	0.76	4	40	< 0.5	4	0.55	< 0.5	52	41	1925	3.81	< 10	< 1	0.46	10	0.70	220	46
H566397	299	229	1.2	0.86	< 2	30	< 0.5	2	0.50	< 0.5	57	53	1640	4.83	< 10	< 1	0.48	10	0.71	265	70
H566398	299	229	0.6	0.59	8	40	< 0.5	< 2	0.99	< 0.5	69	47	943	4.01	< 10	< 1	0.33	< 10	0.50	270	15
H566399	299	229	1.4	0.79	30	30	< 0.5	14	1.15	< 0.5	38	63	1235	4.44	< 10	< 1	0.40	10	0.69	300	20
H566400	299	229	1.4	0.49	38	30	< 0.5	14	1.35	< 0.5	33	47	891	4.21	< 10	< 1	0.27	10	0.55	405	57
H566401	299	229	2.0	0.65	36	40	< 0.5	22	1.14	< 0.5	45	61	1870	4.57	< 10	< 1	0.27	10	0.50	360	20
H566402	299	229	1.8	0.75	18	70	< 0.5	2	1.17	< 0.5	25	53	1035	3.19	< 10	< 1	0.33	30	0.62	160	7

CERTIFICATION: Stewart Buchler

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CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A566363	299	229	0.01	5	460	646	4	6	8	0.04	< 10	< 10	47	< 10	50
A566364	299	229	0.01	8	490	190	6	6	18	0.04	< 10	< 10	43	< 10	26
A566365	299	229	0.01	4	520	194	2	6	14	0.03	< 10	< 10	41	< 10	32
A566366	299	229	0.01	5	420	36	2	5	19	0.03	< 10	< 10	39	< 10	44
A566367	299	229	0.01	5	440	46	< 2	3	20	0.01	< 10	< 10	26	< 10	16
A566368	299	229	0.03	2	470	16	2	6	96	0.03	< 10	< 10	42	< 10	20
A566369	299	229	0.01	3	530	36	< 2	6	12	0.03	< 10	< 10	43	< 10	24
A566370	299	229	0.01	3	450	4	< 2	4	22	0.02	< 10	< 10	34	< 10	22
A566371	299	229	0.01	6	460	14	2	2	13	< 0.01	< 10	< 10	17	< 10	14
A566372	299	229	0.01	6	410	10	4	2	13	< 0.01	< 10	< 10	18	< 10	18
A566373	299	229	0.01	5	500	16	2	4	9	0.03	< 10	< 10	37	< 10	20
A566374	299	229	0.01	4	570	6	2	3	14	< 0.01	< 10	< 10	23	< 10	20
A566375	299	229	< 0.01	16	400	18	2	2	13	< 0.01	< 10	< 10	11	< 10	14
A566376	299	229	0.01	2	520	4	2	5	27	0.02	< 10	< 10	36	< 10	20
A566377	299	229	< 0.01	5	590	4	2	5	14	< 0.01	< 10	< 10	29	< 10	18
A566378	299	229	0.01	5	440	48	64	3	20	< 0.01	< 10	< 10	19	< 10	124
A566379	299	229	< 0.01	5	460	12	4	2	14	< 0.01	< 10	< 10	14	< 10	22
A566380	299	229	0.01	6	390	22	124	2	16	< 0.01	< 10	< 10	9	< 10	144
A566381	299	229	0.01	7	610	6	< 2	6	17	0.02	< 10	< 10	35	< 10	18
A566382	299	229	0.01	4	430	< 2	4	2	17	< 0.01	< 10	< 10	21	< 10	12
A566383	299	229	0.01	2	490	6	< 2	3	27	0.01	< 10	< 10	33	< 10	20
A566384	299	229	0.01	3	500	6	2	4	12	0.01	< 10	< 10	28	< 10	16
A566385	299	229	0.01	4	590	4	4	5	19	0.01	< 10	< 10	32	< 10	20
A566386	299	229	0.01	3	490	4	< 2	5	22	0.02	< 10	< 10	39	< 10	22
A566387	299	229	0.01	4	500	< 2	2	4	16	0.01	< 10	< 10	33	< 10	20
A566388	299	229	0.01	3	480	4	4	3	19	< 0.01	< 10	< 10	23	< 10	14
A566389	299	229	0.01	4	460	8	2	2	25	< 0.01	< 10	< 10	17	< 10	14
A566390	299	229	0.01	4	510	< 2	2	3	17	0.01	< 10	< 10	30	< 10	20
A566391	299	229	0.01	3	400	14	< 2	2	13	0.01	< 10	< 10	17	< 10	18
A566392	299	229	0.01	4	150	4	< 2	< 1	6	< 0.01	< 10	< 10	3	< 10	4
A566393	299	229	0.01	5	650	4	< 2	1	19	< 0.01	< 10	< 10	10	< 10	12
A566394	299	229	0.01	3	360	4	4	1	14	< 0.01	< 10	< 10	17	< 10	12
A566395	299	229	0.01	7	300	2	8	1	9	< 0.01	< 10	< 10	26	< 10	20
A566396	299	229	0.01	3	650	< 2	< 2	2	15	0.01	< 10	< 10	23	< 10	20
A566397	299	229	0.01	6	580	2	< 2	3	12	0.02	< 10	< 10	26	< 10	20
A566398	299	229	0.01	4	510	< 2	4	1	15	< 0.01	< 10	< 10	13	10	12
A566399	299	229	0.01	4	560	8	2	2	24	< 0.01	< 10	< 10	19	10	18
A566400	299	229	0.01	3	460	18	2	2	18	< 0.01	< 10	< 10	11	10	14
A566401	299	229	0.01	3	350	10	2	1	15	< 0.01	< 10	< 10	10	< 10	14
A566402	299	229	0.01	2	450	8	6	2	26	< 0.01	< 10	< 10	19	10	18

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-SEP-93
Invoice No. : I9320260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566403	299	229	0.8	0.72	22	70	< 0.5	4	1.33	< 0.5	44	54	1085	4.04	< 10	< 1	0.32	10	0.69	250	17
H566404	299	229	0.8	0.90	14	40	< 0.5	4	1.46	< 0.5	37	47	1245	3.65	< 10	< 1	0.32	10	0.72	175	8
H566405	299	229	0.6	0.81	14	50	< 0.5	2	1.54	< 0.5	49	49	1055	3.81	< 10	< 1	0.39	10	0.78	285	6
H566406	299	229	0.2	0.47	14	20	< 0.5	8	1.14	< 0.5	50	35	442	4.99	< 10	< 1	0.27	< 10	0.58	130	5
H566407	299	229	0.2	0.44	24	20	< 0.5	4	1.17	< 0.5	26	44	408	5.73	< 10	< 1	0.27	< 10	0.53	275	6
H566408	299	229	1.2	0.51	8	30	< 0.5	2	0.86	< 0.5	97	36	1065	5.18	< 10	< 1	0.29	10	0.45	170	12
H566409	299	229	0.4	0.87	16	20	< 0.5	4	1.06	< 0.5	67	42	609	6.46	< 10	< 1	0.56	< 10	0.84	165	3
H566410	299	229	0.2	0.64	< 2	20	< 0.5	4	1.00	< 0.5	64	32	631	4.86	< 10	< 1	0.38	10	0.62	140	10
H566411	299	229	0.8	0.58	12	20	< 0.5	4	1.19	< 0.5	56	48	687	4.86	< 10	< 1	0.31	10	0.53	110	19
H566412	299	229	1.4	0.66	14	30	< 0.5	4	1.40	< 0.5	38	37	753	3.87	< 10	< 1	0.28	10	0.42	125	6
H566413	299	229	0.4	0.59	14	20	< 0.5	6	1.54	< 0.5	37	52	393	4.08	< 10	< 1	0.25	10	0.44	140	12
H566414	299	229	0.6	0.41	4	20	< 0.5	< 2	1.16	< 0.5	81	43	820	4.60	< 10	< 1	0.24	10	0.38	100	5
H566415	299	229	0.4	0.56	12	20	< 0.5	6	0.96	< 0.5	106	45	716	5.22	< 10	< 1	0.29	10	0.38	95	13
H566416	299	229	0.6	0.81	2	20	< 0.5	< 2	0.90	< 0.5	94	33	930	4.93	< 10	< 1	0.35	10	0.49	95	8
H566417	299	229	0.6	0.87	14	30	< 0.5	2	1.00	< 0.5	39	62	546	4.94	< 10	< 1	0.33	20	0.39	115	7
H566418	299	229	0.6	0.57	14	30	< 0.5	2	1.26	< 0.5	44	50	413	5.01	< 10	< 1	0.29	10	0.22	120	4
H566419	299	229	0.2	0.63	14	10	< 0.5	2	1.42	< 0.5	199	68	287	7.47	< 10	< 1	0.30	10	0.18	125	10
H566420	299	229	0.6	0.56	14	30	< 0.5	14	2.21	< 0.5	29	45	420	5.17	< 10	< 1	0.29	10	0.21	215	2
H566421	299	229	0.2	0.42	< 2	30	< 0.5	4	1.47	< 0.5	38	39	317	4.51	< 10	< 1	0.21	10	0.29	135	3
H566422	299	229	0.4	0.38	4	30	< 0.5	2	1.63	< 0.5	25	33	384	4.22	< 10	< 1	0.19	20	0.37	140	3
H566423	299	229	< 0.2	0.31	2	10	< 0.5	< 2	1.40	< 0.5	31	44	264	7.09	< 10	< 1	0.18	10	0.14	105	4
H566424	299	229	0.2	0.44	6	40	< 0.5	< 2	1.91	< 0.5	41	38	413	4.19	< 10	< 1	0.19	10	0.22	170	7
H566425	299	229	0.2	0.57	14	30	< 0.5	4	1.80	< 0.5	31	44	349	4.07	< 10	< 1	0.19	20	0.23	150	3
H566426	299	229	0.2	0.39	6	20	< 0.5	< 2	1.62	< 0.5	29	43	164	5.90	< 10	< 1	0.21	10	0.20	120	2
H566427	299	229	< 0.2	0.43	< 2	30	< 0.5	< 2	1.40	< 0.5	44	48	258	4.30	< 10	< 1	0.22	20	0.19	90	6
H566428	299	229	0.4	0.45	6	20	< 0.5	2	1.82	< 0.5	63	46	410	4.99	< 10	< 1	0.24	20	0.28	120	4

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 190
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-SEP-93
Invoice No. :19320260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566403	299	229	0.01	2	540	6	4	3	16	< 0.01	< 10	< 10	23	10	20
H566404	299	229	0.02	2	490	4	< 2	2	89	< 0.01	< 10	< 10	20	10	14
H566405	299	229	0.01	4	510	< 2	2	3	24	< 0.01	< 10	< 10	19	10	12
H566406	299	229	0.01	2	430	4	4	1	17	< 0.01	< 10	< 10	7	10	8
H566407	299	229	0.01	3	470	10	4	1	17	< 0.01	< 10	< 10	8	10	14
H566408	299	229	0.01	4	540	4	2	2	12	< 0.01	< 10	< 10	14	10	24
H566409	299	229	0.01	4	740	< 2	< 2	4	13	0.02	< 10	< 10	35	10	44
H566410	299	229	0.01	2	600	< 2	2	2	13	< 0.01	< 10	< 10	19	10	30
H566411	299	229	0.01	4	490	4	< 2	1	14	< 0.01	< 10	< 10	10	10	20
H566412	299	229	0.01	3	560	2	< 2	2	20	< 0.01	< 10	< 10	15	10	18
H566413	299	229	< 0.01	3	530	2	< 2	1	23	< 0.01	< 10	< 10	12	10	16
H566414	299	229	0.01	3	550	< 2	< 2	1	17	< 0.01	< 10	< 10	9	60	14
H566415	299	229	0.01	3	720	< 2	2	1	14	< 0.01	< 10	< 10	11	30	14
H566416	299	229	0.01	4	450	2	2	1	27	< 0.01	< 10	< 10	11	10	14
H566417	299	229	0.01	4	490	< 2	< 2	1	33	< 0.01	< 10	< 10	11	10	16
H566418	299	229	0.01	3	550	< 2	< 2	2	13	< 0.01	< 10	< 10	11	110	18
H566419	299	229	0.01	6	610	4	2	2	13	< 0.01	< 10	< 10	12	20	16
H566420	299	229	0.01	3	490	2	2	1	18	< 0.01	< 10	< 10	10	10	18
H566421	299	229	< 0.01	3	500	4	2	1	15	< 0.01	< 10	< 10	9	10	20
H566422	299	229	< 0.01	2	500	< 2	2	1	18	< 0.01	< 10	< 10	10	10	20
H566423	299	229	< 0.01	1	530	< 2	2	1	10	< 0.01	< 10	< 10	6	60	6
H566424	299	229	< 0.01	3	570	< 2	2	1	14	< 0.01	< 10	< 10	9	10	24
H566425	299	229	< 0.01	3	600	< 2	< 2	2	19	< 0.01	< 10	< 10	12	10	20
H566426	299	229	0.01	2	500	2	2	1	14	< 0.01	< 10	< 10	7	160	14
H566427	299	229	0.01	4	610	2	< 2	1	15	< 0.01	< 10	< 10	8	10	14
H566428	299	229	< 0.01	3	480	< 2	< 2	1	17	< 0.01	< 10	< 10	7	10	8

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 191
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. : I9320262
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320262

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571481H	208	276	0.02	0.012	0.27	7460						
571482H	208	274	0.02	0.023	0.21	1660						
571483H	208	276	0.03	0.005	0.14	8820						
571484H	208	276	0.03	0.017	0.27	10620						
571485H	208	276	0.04	0.003	0.17	10880						
571486H	208	276	0.04	0.010	0.14	9040						
571487H	208	276	0.03	0.002	0.10	10660						
571488H	208	276	0.05	0.003	0.45	10300						
571489H	208	276	0.03	0.008	0.99	9000						
571490H	208	276	0.04	0.003	0.10	10680						
571491H	208	276	0.07	0.003	0.14	10920						
571492H	208	276	0.09	0.005	0.14	10540						
571493H	208	276	0.19	0.008	0.27	11660						
571494H	208	273	0.16	0.014	0.38	12100						
571495H	208	273	0.15	0.011	0.27	12920						
571496H	208	273	0.14	0.006	0.27	13440						
571497H	208	273	0.17	0.011	0.34	12800						
571498H	208	273	0.32	0.034	0.38	16100						
571499H	208	273	0.11	0.039	0.21	12960						
571500H	208	273	0.13	0.017	0.24	12880						
571501H	208	276	0.13	0.012	0.21	9340						
571502H	208	273	0.13	0.006	0.21	14520						
571503H	208	273	0.20	0.017	0.38	12780						
571504H	208	273	0.18	0.074	0.21	12000						
571505H	208	274	0.18	0.021	0.21	7060						
571506H	208	276	0.10	0.020	0.17	11520						
571507H	208	273	0.20	0.045	0.27	11980						
571508H	208	273	0.18	0.018	0.17	12160						
571509H	208	274	0.21	0.007	0.27	5540						
571510H	208	276	0.18	0.004	0.27	11320						
571511H	208	276	0.17	0.004	0.27	11740						
571512H	208	276	0.18	0.008	0.17	7980						
571513H	208	276	0.19	0.010	0.17	11400						
571514H	208	273	0.19	0.013	0.21	12380						
571515H	208	276	0.17	0.028	0.14	11720						
571516H	208	273	0.19	0.014	0.21	11920						
571517H	208	273	0.17	0.016	0.24	12840						
571518H	208	273	0.18	0.023	0.21	12280						
571519H	208	276	0.24	0.007	0.17	10500						
571520H	208	276	0.22	0.005	0.10	10480						

CERTIFICATION: _____

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Project : CASINO 191
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Certificate Date: 07-SEP-93
Invoice No. : I9320262
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CERTIFICATE OF ANALYSIS A9320262

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571521H	208 274	0.19	0.003	0.14	6660
571522H	208 276	0.23	0.002	0.14	10260
571523H	208 273	0.26	0.012	0.10	12280
571524H	208 276	0.18	0.018	0.07	9680
571525H	208 276	0.09	0.005	0.07	10440
571526H	208 273	0.09	0.001	0.10	12180
571527H	208 270	0.14	0.003	0.17	17420
571528H	208 273	0.05	0.003	0.10	13700
571529H	208 276	0.07	0.001	0.14	9640
571530H	208 276	0.05	0.008	0.10	10000
571531H	208 276	0.04	0.017	0.07	8460
571532H	208 274	0.05	0.008	0.07	6700
571533H	208 273	0.05	0.009	0.10	12900
571534H	208 273	0.04	0.010	0.07	14140
571535H	208 273	0.05	0.004	0.07	12760
571536H	208 276	0.03	0.002	< 0.03	10560
571537H	208 276	0.03	0.001	< 0.03	9800
571538H	208 273	0.05	0.002	0.07	15700
571539H	208 273	0.06	0.024	< 0.03	13160
571540H **	208 273	0.09	0.044	0.10	13260
571541H	208 270	0.04	0.003	< 0.03	16500
571542H	208 273	0.06	0.006	< 0.03	13880
571543H	208 273	0.04	0.001	< 0.03	14120
571544H	208 273	0.08	0.012	0.03	12440
571545H	208 273	0.10	0.008	0.03	13940
571546H	208 273	0.14	0.009	0.14	13000
571547H	208 273	0.11	0.006	0.10	11980
571548H	208 273	0.13	0.012	0.10	14440
571549H	208 273	0.14	0.008	0.14	13780
571550H	208 273	0.14	0.015	0.10	12820
571551H **	208 273	0.12	0.007	0.10	12200
571552H **	208 273	0.11	0.010	0.10	13700
571553H	208 273	0.11	0.019	0.07	13740
571554H	208 273	0.14	0.011	0.14	12440
571555H	208 273	0.16	0.007	0.10	13080
571556H	208 273	0.13	0.014	0.10	13740
571557H	208 273	0.13	0.013	0.10	13180
571558H	208 273	0.10	0.016	0.14	13840
571559H	208 273	0.13	0.004	0.17	13660
571560H	208 273	0.09	0.007	0.10	14400

CERTIFICATION: _____

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Project : CASINO 191
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Certificate Date: 07-SEP-93
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Account :FC

CERTIFICATE OF ANALYSIS A9320262

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571561H	208	273	0.12	0.014	0.10	14200						
571562H	208	273	0.12	0.011	0.10	13180						
571563H	208	273	0.11	0.007	0.10	12820						
571564H	208	273	0.19	0.013	0.21	14000						
571565H	208	273	0.14	0.007	0.14	13140						
571566H	208	273	0.09	0.009	0.10	13900						
571567H	208	273	0.11	0.009	0.10	12860						
571568H	208	273	0.10	0.007	0.07	13680						
571569H	208	273	0.09	0.005	0.10	13660						
571570H	208	273	0.09	0.005	0.07	13420						
571571H	208	273	0.13	0.005	0.14	13080						
571572H **	208	273	0.14	0.010	0.14	13720						
571573H	208	273	0.12	0.005	0.14	13420						
571574H	208	273	0.10	0.006	0.10	12960						
571575H	208	273	0.09	0.009	0.07	13260						
571576H	208	273	0.13	0.006	0.07	12380						
571577H **	208	276	0.13	0.016	0.07	11660						
571578H **	208	273	0.14	0.009	0.14	12740						
571579H	208	276	0.07	0.006	< 0.03	11600						
571580H	208	276	0.09	0.041	0.03	11660						
571581H	208	273	0.07	0.005	< 0.03	12180						
571582H	208	273	0.08	0.007	0.07	12920						
571583H	208	273	0.09	0.012	0.07	12880						
571584H	208	273	0.08	0.006	0.07	12840						
571585H	208	273	0.11	0.009	0.03	12420						
571586H	208	273	0.10	0.012	0.07	11940						
571587H	208	273	0.07	0.026	< 0.03	12860						
571588H	208	273	0.10	0.016	0.07	12820						
571589H	208	273	0.08	0.015	0.07	12740						
571590H	208	273	0.15	0.009	0.14	12760						
571591H	208	273	0.06	0.020	0.10	12200						
571592H	208	273	0.11	0.014	0.10	12960						
571593H **	208	273	0.10	0.006	0.14	12900						
571594H	208	273	0.21	0.018	0.27	13280						
571595H	208	273	0.13	0.040	0.24	13260						
571596H	208	273	0.08	0.006	0.14	13720						
571597H	208	273	0.05	0.010	0.10	12120						
571598H	208	273	0.10	0.012	0.07	12860						
571599H	208	273	0.11	0.007	0.10	12960						
571600H	208	273	0.07	0.014	0.10	12600						

CERTIFICATION: _____

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Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 191
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 07-SEP-93
Invoice No. : I9320262
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320262

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571601H	208	273	0.13	0.017	0.07	12420						
571602H	208	273	0.09	0.018	0.03	12600						
571603H	208	273	0.11	0.009	0.07	12360						
571604H	208	276	0.07	0.016	< 0.03	11060						
571605H	208	276	0.08	0.017	< 0.03	11800						
571606H	208	276	0.06	0.029	< 0.03	11120						
571607H	208	273	0.06	0.018	0.03	12700						
571608H	208	274	0.03	0.014	< 0.03	6480						
571609H	208	276	0.05	0.012	< 0.03	11540						
571610H	208	274	0.07	0.010	0.03	5080						
571611H	208	273	0.05	0.038	< 0.03	12520						
571612H	208	276	0.04	0.013	0.07	9600						
571613H	208	276	0.06	0.025	< 0.03	11560						
571614H	208	273	0.06	0.013	< 0.03	11820						
571615H	208	273	0.09	0.034	0.07	12480						
571616H	208	273	0.03	0.014	< 0.03	12560						
571617H	208	273	0.04	0.013	< 0.03	12840						
571618H	208	273	0.06	0.012	< 0.03	12220						
571619H	208	273	0.03	0.027	< 0.03	12520						
571620H	208	273	0.05	0.020	< 0.03	12400						
571621H	208	273	0.06	0.017	< 0.03	12200						
571622H	208	273	0.07	0.014	< 0.03	13340						
571623H	208	273	0.07	0.016	< 0.03	12000						
571624H	208	273	0.06	0.025	< 0.03	12960						
571625H	208	274	0.06	0.023	0.03	6720						
571626H	208	273	0.05	0.022	< 0.03	12700						
571627H	208	273	0.05	0.034	0.24	12760						
571628H	208	273	0.04	0.035	< 0.03	13020						
571629H	208	273	0.11	0.037	0.03	11860						
571630H	208	273	0.02	0.031	< 0.03	15220						
571631H	208	273	0.02	0.035	< 0.03	12600						
571632H	208	273	0.02	0.018	< 0.03	12440						
571633H	208	273	0.05	0.037	< 0.03	12740						
571634H	208	273	0.05	0.047	< 0.03	13000						
571635H	208	273	0.06	0.018	< 0.03	12920						
571636H	208	273	0.05	0.022	< 0.03	12220						
571637H	208	273	0.04	0.023	< 0.03	11960						
571638H	208	273	0.05	0.025	< 0.03	12560						
571639H	208	273	0.05	0.022	< 0.03	12240						
571640H	208	273	0.08	0.064	0.03	13260						

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9320262

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
571641H	208	273	0.06	0.022	0.10	12240
571642H	208	273	0.05	0.019	< 0.03	13320
571643H	208	273	0.07	0.013	< 0.03	15660

CERTIFICATION: _____

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Certificate Date: 08-SEP-93
Invoice No. :I9320266
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CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571481H	299	229	1.4	1.09	12	210	< 0.5	2	0.04	< 0.5	2	136	190	5.04	< 10	< 1	0.78	10	0.38	45	74
571482H	299	229	0.6	0.75	24	170	< 0.5	2	0.02	< 0.5	2	159	142	10.35	< 10	< 1	0.80	10	0.28	45	140
571483H	299	229	0.6	1.38	< 2	130	< 0.5	4	0.04	< 0.5	2	89	296	4.83	< 10	< 1	0.61	10	0.64	65	35
571484H	299	229	1.4	0.97	34	160	< 0.5	< 2	0.02	< 0.5	2	125	271	6.32	< 10	< 1	0.79	10	0.47	45	100
571485H	299	229	0.6	1.62	8	160	< 0.5	4	0.07	< 0.5	2	76	378	4.58	< 10	< 1	0.72	10	0.86	80	21
571486H	299	229	0.8	1.63	2	210	< 0.5	< 2	0.06	< 0.5	2	97	376	4.02	< 10	< 1	0.63	20	0.70	55	58
571487H	299	229	0.4	1.69	2	250	< 0.5	< 2	0.07	< 0.5	2	87	295	4.18	< 10	< 1	0.52	10	0.78	70	15
571488H	299	229	0.6	1.88	8	210	< 0.5	6	0.06	< 0.5	5	101	507	5.12	< 10	< 1	0.60	20	0.72	90	18
571489H	299	229	1.2	0.99	32	160	< 0.5	4	0.02	< 0.5	4	59	293	6.23	< 10	< 1	1.04	20	0.14	40	50
571490H	299	229	0.4	1.74	12	370	< 0.5	< 2	0.07	< 0.5	4	105	397	5.12	< 10	< 1	0.65	10	0.69	110	23
571491H	299	229	1.4	1.45	42	250	< 0.5	8	0.10	< 0.5	8	86	627	5.54	< 10	< 1	0.87	20	0.39	145	20
571492H	299	229	1.4	1.96	76	90	< 0.5	10	0.28	< 0.5	16	121	831	5.76	< 10	< 1	0.76	10	0.70	140	31
571493H	299	229	1.8	2.11	22	130	< 0.5	6	0.54	< 0.5	18	72	1835	5.55	< 10	< 1	0.89	30	0.96	210	48
571494H	299	229	2.0	1.37	26	80	< 0.5	4	1.05	< 0.5	20	76	1635	5.02	< 10	< 1	0.77	10	1.08	240	81
571495H	299	229	1.2	1.28	20	80	< 0.5	< 2	0.49	< 0.5	14	96	1395	4.59	< 10	< 1	0.60	10	0.57	140	63
571496H	299	229	1.4	1.66	52	60	< 0.5	4	0.19	< 0.5	20	113	1355	5.52	< 10	< 1	0.79	10	0.53	105	35
571497H	299	229	1.4	1.71	18	60	< 0.5	< 2	0.33	< 0.5	17	161	1620	4.64	< 10	< 1	0.83	10	0.70	170	68
571498H	299	229	1.6	2.11	16	40	< 0.5	< 2	0.34	< 0.5	20	105	3150	5.53	< 10	< 1	0.98	10	0.97	130	198
571499H	299	229	1.2	1.60	8	60	< 0.5	< 2	1.09	< 0.5	18	198	1185	5.85	< 10	< 1	0.87	10	1.07	205	238
571500H	299	229	1.2	1.92	6	110	< 0.5	< 2	1.22	< 0.5	14	123	1260	5.13	< 10	< 1	0.96	10	1.18	270	101
571501H	299	229	0.8	1.63	4	80	< 0.5	< 2	0.82	< 0.5	16	128	1180	4.51	< 10	< 1	0.84	10	1.04	240	72
571502H	299	229	1.2	1.77	4	130	< 0.5	< 2	0.66	< 0.5	14	134	1215	4.36	< 10	< 1	0.92	10	1.17	205	35
571503H	299	229	1.6	1.93	6	120	< 0.5	2	0.90	< 0.5	13	137	1985	4.50	< 10	< 1	1.02	10	1.37	185	98
571504H	299	229	1.4	1.92	14	80	< 0.5	< 2	0.55	< 0.5	17	125	1825	5.80	< 10	< 1	0.80	10	1.09	210	432
571505H	299	229	1.2	2.44	2	110	< 0.5	< 2	0.25	< 0.5	10	121	1705	4.78	< 10	< 1	0.70	10	1.23	120	124
571506H	299	229	0.4	2.39	4	120	< 0.5	< 2	0.29	< 0.5	16	128	1040	6.32	< 10	< 1	0.81	10	1.40	140	121
571507H	299	229	1.2	2.32	6	80	< 0.5	2	0.24	< 0.5	14	148	2010	4.84	< 10	< 1	0.95	10	1.40	135	267
571508H	299	229	0.8	2.47	16	100	< 0.5	6	0.28	< 0.5	13	138	1790	4.42	< 10	< 1	1.08	10	1.36	120	112
571509H	299	229	1.8	2.24	6	110	< 0.5	< 2	0.38	< 0.5	22	126	2010	5.30	< 10	< 1	1.14	10	1.53	270	47
571510H	299	229	1.6	2.68	2	40	< 0.5	< 2	0.37	< 0.5	27	93	1780	6.66	< 10	< 1	1.36	10	1.83	330	27
571511H	299	229	1.4	2.89	14	140	< 0.5	24	0.36	0.5	20	86	1655	6.31	< 10	< 1	1.35	20	1.74	355	21
571512H	299	229	1.0	2.36	12	110	< 0.5	4	0.19	< 0.5	14	129	1795	4.15	< 10	< 1	0.96	10	1.34	155	47
571513H	299	229	1.4	1.98	8	70	< 0.5	4	0.21	< 0.5	18	136	1795	4.92	< 10	< 1	0.93	10	0.97	195	56
571514H	299	229	0.8	1.80	14	60	< 0.5	< 2	0.17	< 0.5	15	130	1865	3.77	< 10	< 1	0.79	10	0.78	100	78
571515H	299	229	1.0	1.82	12	50	< 0.5	4	0.14	< 0.5	16	115	1695	4.09	< 10	< 1	0.74	10	0.85	80	165
571516H	299	229	1.2	2.39	6	60	< 0.5	< 2	0.30	< 0.5	27	104	1875	6.03	< 10	< 1	1.22	10	1.23	345	85
571517H	299	229	1.4	1.95	2	90	< 0.5	< 2	0.21	< 0.5	21	126	1705	5.40	< 10	< 1	0.87	10	1.05	255	97
571518H	299	229	1.4	2.02	22	80	< 0.5	2	0.22	< 0.5	19	137	1945	5.57	< 10	< 1	0.86	10	1.02	180	151
571519H	299	229	0.8	1.82	8	70	< 0.5	< 2	0.10	< 0.5	24	135	2620	5.63	< 10	< 1	0.73	10	0.73	50	42
571520H	299	229	1.0	1.82	18	80	< 0.5	< 2	0.04	< 0.5	16	152	2310	5.79	< 10	< 1	0.62	< 10	0.97	80	29

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Page Number :1-B
Total Pages :5
Certificate Date: 08-SEP-93
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CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571481H	299	229	0.06	3	330	10	2	4	19	0.04	< 10	< 10	56	< 10	20
571482H	299	229	0.06	4	270	4	4	4	26	0.03	< 10	< 10	82	160	10
571483H	299	229	0.09	7	530	6	< 2	4	45	0.02	< 10	< 10	53	10	16
571484H	299	229	0.08	3	530	4	4	4	40	0.03	< 10	< 10	52	90	14
571485H	299	229	0.12	8	890	10	4	5	73	0.04	< 10	< 10	41	130	14
571486H	299	229	0.13	9	680	6	2	4	71	0.02	< 10	< 10	36	30	16
571487H	299	229	0.14	8	700	4	< 2	5	76	0.02	< 10	< 10	44	< 10	18
571488H	299	229	0.14	9	750	14	2	5	75	0.01	< 10	< 10	45	< 10	20
571489H	299	229	0.11	2	670	16	2	2	64	0.01	< 10	< 10	26	< 10	14
571490H	299	229	0.09	9	680	24	2	3	56	0.01	< 10	< 10	38	10	20
571491H	299	229	0.06	8	680	12	4	2	38	0.01	< 10	< 10	24	< 10	22
571492H	299	229	0.07	15	670	8	< 2	3	31	0.02	< 10	< 10	31	20	24
571493H	299	229	0.03	12	790	2	2	7	19	0.04	< 10	< 10	56	170	32
571494H	299	229	0.02	8	690	2	2	4	19	0.04	< 10	< 10	45	150	28
571495H	299	229	0.02	7	530	2	2	2	13	0.01	< 10	< 10	29	20	24
571496H	299	229	0.02	9	580	10	4	3	11	0.03	< 10	< 10	35	40	32
571497H	299	229	0.03	8	610	4	< 2	7	13	0.04	< 10	< 10	55	20	28
571498H	299	229	0.03	9	800	10	4	9	13	0.08	< 10	< 10	70	20	32
571499H	299	229	0.05	9	690	< 2	4	9	23	0.07	< 10	< 10	77	60	26
571500H	299	229	0.03	7	780	< 2	4	9	20	0.07	< 10	< 10	80	50	34
571501H	299	229	0.04	7	660	< 2	2	7	18	0.05	< 10	< 10	61	90	34
571502H	299	229	0.04	6	650	2	2	8	18	0.08	< 10	< 10	68	10	30
571503H	299	229	0.06	8	600	2	4	9	21	0.08	< 10	< 10	69	60	26
571504H	299	229	0.04	9	590	4	4	5	16	0.03	< 10	< 10	50	190	46
571505H	299	229	0.06	14	740	6	2	4	21	0.03	< 10	< 10	46	10	38
571506H	299	229	0.09	14	710	< 2	4	7	30	0.06	< 10	< 10	78	20	42
571507H	299	229	0.06	9	610	6	4	9	18	0.09	< 10	< 10	76	30	36
571508H	299	229	0.07	10	730	< 2	< 2	7	15	0.09	< 10	< 10	62	< 10	32
571509H	299	229	0.05	10	750	14	< 2	10	13	0.11	< 10	< 10	91	< 10	48
571510H	299	229	0.06	10	940	8	< 2	12	12	0.14	< 10	< 10	101	< 10	58
571511H	299	229	0.04	10	880	2	2	12	14	0.12	< 10	< 10	96	50	58
571512H	299	229	0.06	10	590	2	2	10	13	0.09	< 10	< 10	72	< 10	32
571513H	299	229	0.03	9	460	4	2	8	9	0.06	< 10	< 10	58	< 10	32
571514H	299	229	0.04	8	460	2	2	6	13	0.04	< 10	< 10	43	< 10	20
571515H	299	229	0.03	8	460	< 2	< 2	7	10	0.05	< 10	< 10	52	< 10	20
571516H	299	229	0.03	10	660	2	4	13	9	0.11	< 10	< 10	85	10	50
571517H	299	229	0.04	9	520	2	4	9	9	0.07	< 10	< 10	68	< 10	42
571518H	299	229	0.03	11	650	2	2	7	10	0.06	< 10	< 10	62	< 10	36
571519H	299	229	0.03	10	400	< 2	4	4	11	0.02	< 10	< 10	38	580	14
571520H	299	229	0.03	12	320	8	2	6	11	0.04	< 10	< 10	55	10	18

CERTIFICATION: Ian Bichler

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571521H	299	229	0.8	2.96	12	130	< 0.5	< 2	0.13	< 0.5	14	138	1820	5.45	< 10	< 1	1.34	< 10	1.95	150	17
571522H	299	229	1.2	2.69	16	100	< 0.5	4	0.15	< 0.5	16	148	2200	5.55	< 10	< 1	1.15	< 10	1.71	140	16
571523H	299	229	1.0	3.13	30	40	< 0.5	8	0.14	< 0.5	18	149	2440	6.19	< 10	< 1	1.71	< 10	2.11	105	66
571524H	299	229	0.6	2.18	14	60	< 0.5	2	0.16	< 0.5	13	133	1890	5.14	< 10	< 1	0.77	< 10	1.26	85	105
571525H	299	229	0.4	2.14	20	70	< 0.5	< 2	0.16	< 0.5	11	139	979	5.39	< 10	< 1	0.49	10	1.24	105	36
571526H	299	229	0.8	1.99	6	80	< 0.5	6	0.26	< 0.5	15	114	844	5.73	< 10	< 1	0.63	10	1.09	195	9
571527H	299	229	1.2	1.36	26	60	< 0.5	< 2	0.70	< 0.5	25	107	1480	6.33	< 10	< 1	0.48	20	0.84	370	22
571528H	299	229	0.4	1.66	6	70	< 0.5	2	0.83	< 0.5	17	121	517	5.63	< 10	< 1	0.52	10	1.12	230	20
571529H	299	229	0.6	1.57	4	60	< 0.5	16	1.13	< 0.5	14	151	677	5.70	< 10	< 1	0.57	10	1.03	220	8
571530H	299	229	0.6	1.80	< 2	130	< 0.5	4	1.00	< 0.5	12	141	476	4.39	< 10	< 1	0.62	20	1.24	160	48
571531H	299	229	0.4	1.77	< 2	100	< 0.5	2	1.62	< 0.5	10	146	389	3.94	< 10	< 1	0.58	20	1.07	160	91
571532H	299	229	0.4	1.48	20	80	< 0.5	< 2	2.76	< 0.5	12	124	494	4.55	< 10	< 1	0.58	10	0.81	215	45
571533H	299	229	0.4	1.71	6	110	< 0.5	8	1.33	< 0.5	11	164	545	4.18	< 10	< 1	0.54	20	1.09	140	50
571534H	299	229	0.4	1.98	4	120	< 0.5	2	0.83	< 0.5	14	168	384	4.46	< 10	< 1	0.86	20	1.27	155	63
571535H	299	229	0.4	1.77	2	90	< 0.5	< 2	1.03	< 0.5	16	160	540	4.23	< 10	< 1	0.69	20	1.23	135	22
571536H	299	229	0.4	1.66	6	90	< 0.5	< 2	1.12	< 0.5	9	116	287	3.52	< 10	< 1	0.44	20	1.22	150	10
571537H	299	229	0.2	1.62	< 2	90	< 0.5	< 2	0.91	< 0.5	9	137	307	3.82	< 10	< 1	0.37	10	1.25	150	8
571538H	299	229	0.4	1.44	4	80	< 0.5	< 2	0.68	< 0.5	15	108	501	3.88	< 10	< 1	0.36	10	1.12	190	17
571539H	299	229	0.4	1.69	< 2	90	< 0.5	< 2	1.17	< 0.5	13	135	546	4.14	< 10	< 1	0.55	10	1.26	160	120
571540H	299	229	0.6	1.77	2	90	< 0.5	2	0.95	< 0.5	12	119	825	3.43	< 10	< 1	0.56	10	1.36	160	241
571541H	299	229	0.4	1.61	6	70	< 0.5	4	0.85	< 0.5	12	137	433	3.88	< 10	< 1	0.50	< 10	1.33	115	14
571542H	299	229	0.2	1.67	8	120	< 0.5	2	0.83	< 0.5	12	127	580	3.26	< 10	< 1	0.48	10	1.47	135	31
571543H	299	229	0.2	1.55	2	140	< 0.5	< 2	1.39	< 0.5	11	138	435	3.20	< 10	< 1	0.42	10	1.30	130	8
571544H	299	229	0.6	1.27	4	100	< 0.5	6	0.86	< 0.5	11	155	797	2.91	< 10	< 1	0.49	10	0.98	130	72
571545H	299	229	0.6	0.98	4	70	< 0.5	2	0.18	< 0.5	18	186	991	3.16	< 10	< 1	0.56	10	0.51	90	51
571546H	299	229	1.4	2.02	6	100	< 0.5	< 2	0.55	< 0.5	20	127	1420	4.36	< 10	< 1	1.17	10	1.59	155	49
571547H	299	229	0.8	2.20	4	100	< 0.5	< 2	0.77	< 0.5	18	144	1105	4.18	< 10	< 1	1.15	20	1.84	205	29
571548H	299	229	0.8	2.24	6	90	< 0.5	2	0.78	< 0.5	17	133	1235	4.11	< 10	< 1	1.44	10	1.98	130	66
571549H	299	229	1.2	2.72	6	100	< 0.5	< 2	1.06	< 0.5	23	128	1470	5.28	< 10	< 1	1.56	20	2.35	170	43
571550H	299	229	1.2	1.45	4	60	< 0.5	< 2	0.57	< 0.5	20	146	1355	4.30	< 10	< 1	0.73	20	1.06	150	85
571551H	299	229	1.2	1.52	4	70	< 0.5	< 2	0.62	< 0.5	16	151	1260	3.83	< 10	< 1	0.59	10	1.15	205	35
571552H	299	229	1.6	1.44	< 2	60	< 0.5	4	0.79	0.5	17	126	1115	3.96	< 10	< 1	0.63	10	1.07	205	53
571553H	299	229	1.0	1.36	12	60	< 0.5	< 2	0.96	< 0.5	19	163	1150	3.54	< 10	< 1	0.66	10	1.10	95	113
571554H	299	229	1.2	1.90	< 2	120	< 0.5	< 2	1.28	< 0.5	17	122	1400	3.91	< 10	< 1	0.79	20	1.53	135	61
571555H	299	229	1.0	2.10	10	70	< 0.5	2	1.54	< 0.5	19	146	1575	5.02	< 10	< 1	1.23	10	1.66	135	41
571556H	299	229	1.0	1.93	2	60	< 0.5	6	2.08	< 0.5	15	143	1355	4.65	< 10	< 1	1.06	10	1.42	135	78
571557H	299	229	1.2	2.33	4	70	< 0.5	8	1.25	< 0.5	20	116	1245	5.15	< 10	< 1	1.51	10	1.98	135	72
571558H	299	229	0.8	1.75	4	50	< 0.5	4	2.05	< 0.5	20	131	1060	5.62	< 10	< 1	0.86	10	1.17	110	89
571559H	299	229	1.0	2.34	6	140	< 0.5	< 2	1.38	< 0.5	12	126	1290	4.26	< 10	< 1	1.17	10	2.04	145	23
571560H	299	229	0.8	1.85	4	90	< 0.5	2	1.63	< 0.5	12	174	952	4.39	< 10	< 1	0.88	20	1.43	135	39

CERTIFICATION: Ian H Bucholz

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 191
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :5
Certificate Date: 08-SEP-93
Invoice No. :19320266
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571521H	299	229	0.04	15	600	14	< 2	13	11	0.13	< 10	< 10	97	10	28
571522H	299	229	0.06	13	690	< 2	4	12	12	0.11	< 10	< 10	102	< 10	26
571523H	299	229	0.04	17	780	8	2	11	17	0.12	< 10	< 10	83	< 10	20
571524H	299	229	0.04	17	850	12	2	4	20	0.03	< 10	< 10	42	< 10	20
571525H	299	229	0.04	17	780	2	2	4	17	0.02	< 10	< 10	47	< 10	20
571526H	299	229	0.03	16	760	2	4	4	13	0.03	< 10	< 10	56	< 10	30
571527H	299	229	0.02	18	730	4	2	4	17	0.01	< 10	< 10	45	50	44
571528H	299	229	0.03	16	720	6	4	5	21	0.02	< 10	< 10	45	< 10	30
571529H	299	229	0.03	16	690	8	2	4	29	0.02	< 10	< 10	39	< 10	24
571530H	299	229	0.04	16	730	< 2	2	6	32	0.04	< 10	< 10	54	< 10	20
571531H	299	229	0.04	14	710	4	2	6	40	0.03	< 10	< 10	47	< 10	16
571532H	299	229	0.02	12	660	< 2	< 2	4	50	0.02	< 10	< 10	36	< 10	12
571533H	299	229	0.06	15	790	4	4	6	50	0.03	< 10	< 10	47	< 10	18
571534H	299	229	0.06	17	780	2	2	5	39	0.05	< 10	< 10	46	< 10	20
571535H	299	229	0.06	17	750	4	2	4	29	0.03	< 10	< 10	43	< 10	20
571536H	299	229	0.06	15	730	< 2	2	5	33	0.02	< 10	< 10	50	< 10	20
571537H	299	229	0.07	16	720	< 2	4	5	33	0.02	< 10	< 10	51	< 10	22
571538H	299	229	0.06	15	650	< 2	2	5	25	0.02	< 10	< 10	49	10	30
571539H	299	229	0.06	16	930	8	< 2	4	43	0.03	< 10	< 10	47	10	22
571540H	299	229	0.05	14	710	2	4	4	29	0.05	< 10	< 10	49	20	24
571541H	299	229	0.06	16	710	< 2	2	5	29	0.09	< 10	< 10	54	< 10	16
571542H	299	229	0.06	17	760	10	2	5	30	0.08	< 10	< 10	58	< 10	22
571543H	299	229	0.07	16	760	< 2	4	4	58	0.03	< 10	< 10	45	< 10	18
571544H	299	229	0.06	12	530	< 2	2	4	37	0.02	< 10	< 10	37	< 10	28
571545H	299	229	0.04	9	430	14	2	3	15	0.02	< 10	< 10	25	< 10	22
571546H	299	229	0.04	13	640	10	2	11	18	0.11	< 10	< 10	77	< 10	26
571547H	299	229	0.08	11	720	2	< 2	14	23	0.12	< 10	< 10	98	< 10	28
571548H	299	229	0.06	12	970	4	2	14	18	0.14	< 10	< 10	97	< 10	18
571549H	299	229	0.08	12	1070	6	< 2	16	26	0.16	< 10	< 10	124	< 10	24
571550H	299	229	0.06	8	480	< 2	< 2	7	20	0.05	< 10	< 10	59	< 10	26
571551H	299	229	0.06	8	490	2	2	7	21	0.04	< 10	< 10	54	< 10	36
571552H	299	229	0.06	8	520	6	2	7	23	0.04	< 10	< 10	53	< 10	34
571553H	299	229	0.07	9	390	10	2	7	27	0.06	< 10	< 10	54	< 10	16
571554H	299	229	0.07	7	720	4	< 2	11	31	0.08	< 10	< 10	95	< 10	18
571555H	299	229	0.04	11	630	4	2	16	26	0.14	< 10	< 10	114	< 10	18
571556H	299	229	0.05	9	630	6	4	15	37	0.11	< 10	< 10	97	< 10	18
571557H	299	229	0.07	11	940	6	2	17	25	0.17	< 10	< 10	133	< 10	18
571558H	299	229	0.05	14	760	8	4	8	28	0.08	< 10	< 10	64	< 10	12
571559H	299	229	0.07	10	1020	< 2	< 2	14	29	0.15	< 10	< 10	118	< 10	20
571560H	299	229	0.07	10	1060	< 2	4	12	30	0.10	< 10	< 10	90	< 10	20

CERTIFICATION: Ita H Bachlau

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 191
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-SEP-93
Invoice No. : I9320266
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571561H	299	229	0.8	2.16	< 2	80	0.5	< 2	1.42	< 0.5	17	149	1265	4.39	10	< 1	0.99	30	1.60	145	80
571562H	299	229	0.8	1.97	< 2	80	0.5	< 2	1.12	< 0.5	15	166	1185	4.38	10	< 1	0.98	20	1.42	130	54
571563H	299	229	0.6	2.10	4	40	0.5	< 2	0.92	< 0.5	22	120	1155	5.18	10	< 1	1.23	20	1.59	125	37
571564H	299	229	1.2	2.22	4	90	0.5	< 2	0.84	< 0.5	22	126	1925	5.83	10	< 1	1.32	40	1.75	150	69
571565H	299	229	0.6	1.87	< 2	60	0.5	< 2	0.94	< 0.5	16	111	1310	4.67	10	< 1	0.97	20	1.56	120	39
571566H	299	229	0.4	2.35	< 2	130	0.5	< 2	1.09	< 0.5	14	120	895	4.54	10	< 1	1.28	30	2.00	160	50
571567H	299	229	0.6	1.61	< 2	60	0.5	< 2	1.96	< 0.5	13	145	1180	3.91	10	< 1	0.85	20	1.20	140	58
571568H	299	229	0.2	1.69	< 2	40	0.5	2	1.00	< 0.5	15	137	910	4.23	10	< 1	0.94	20	1.34	120	38
571569H	299	229	0.2	1.78	< 2	90	0.5	< 2	1.23	< 0.5	11	100	874	3.78	10	< 1	0.75	20	1.39	130	28
571570H	299	229	0.6	1.65	4	70	0.5	< 2	1.34	< 0.5	17	120	897	4.08	10	< 1	0.77	20	1.24	185	32
571571H	299	229	0.8	2.06	< 2	90	0.5	< 2	1.10	< 0.5	14	174	1220	5.12	10	< 1	0.90	20	1.46	205	26
571572H	299	229	0.8	2.13	< 2	80	0.5	< 2	1.10	< 0.5	15	216	1440	4.35	10	< 1	1.01	30	1.53	180	53
571573H	299	229	1.2	1.67	< 2	90	0.5	2	1.04	< 0.5	11	167	1120	3.86	10	< 1	0.73	30	1.04	145	30
571574H	299	229	0.4	2.61	4	140	0.5	< 2	1.23	< 0.5	15	163	1040	3.98	10	< 1	1.31	30	1.94	165	38
571575H	299	229	0.4	3.30	< 2	150	0.5	2	1.54	< 0.5	15	93	881	4.21	< 10	< 1	1.48	20	2.56	200	54
571576H	299	229	0.6	3.23	4	80	0.5	< 2	1.40	< 0.5	23	106	1220	4.61	< 10	< 1	1.56	20	2.53	165	35
571577H	299	229	0.8	1.89	< 2	110	0.5	2	0.97	< 0.5	14	180	1320	3.60	10	< 1	0.90	20	1.29	150	87
571578H	299	229	0.6	1.14	2	80	0.5	< 2	0.96	< 0.5	10	235	1455	2.49	10	< 1	0.54	20	0.61	85	53
571579H	299	229	0.2	1.03	2	80	0.5	2	0.95	< 0.5	11	175	673	2.35	< 10	< 1	0.51	20	0.56	105	35
571580H	299	229	0.4	1.12	6	70	0.5	2	1.14	< 0.5	10	166	929	2.10	10	< 1	0.56	30	0.55	70	237
571581H	299	229	0.6	1.12	< 2	90	0.5	2	0.92	< 0.5	11	196	735	2.74	< 10	< 1	0.61	20	0.53	90	34
571582H	299	229	0.6	1.09	< 2	90	0.5	< 2	0.87	< 0.5	10	201	768	2.66	< 10	< 1	0.54	30	0.75	90	36
571583H	299	229	0.6	1.15	< 2	80	0.5	2	0.87	< 0.5	8	197	886	2.06	< 10	< 1	0.59	30	0.72	80	70
571584H	299	229	0.6	1.04	2	70	0.5	< 2	1.06	< 0.5	10	187	807	3.24	< 10	< 1	0.57	20	0.79	105	40
571585H	299	229	1.0	1.04	4	90	0.5	2	1.53	< 0.5	9	206	1080	2.96	< 10	< 1	0.53	20	0.80	125	60
571586H	299	229	0.8	1.18	4	100	0.5	2	1.20	< 0.5	9	244	1025	2.42	< 10	< 1	0.66	20	0.73	115	74
571587H	299	229	1.2	1.31	6	40	0.5	< 2	1.58	< 0.5	17	233	826	5.26	< 10	< 1	0.63	20	0.84	150	154
571588H	299	229	0.8	1.30	8	100	0.5	2	1.43	< 0.5	10	214	1000	2.64	< 10	< 1	0.72	40	0.87	110	101
571589H	299	229	0.4	1.27	4	110	0.5	< 2	1.25	< 0.5	7	204	786	1.86	< 10	< 1	0.79	30	0.85	100	85
571590H	299	229	0.8	1.16	2	100	0.5	2	1.02	< 0.5	12	222	1480	2.64	< 10	< 1	0.64	20	0.64	75	58
571591H	299	229	0.4	1.17	< 2	70	0.5	< 2	1.09	< 0.5	10	149	596	2.49	< 10	< 1	0.67	20	0.63	60	119
571592H	299	229	0.6	1.23	4	60	0.5	2	1.04	< 0.5	10	180	1050	2.27	< 10	< 1	0.73	30	0.73	70	91
571593H	299	229	0.6	1.35	< 2	60	0.5	< 2	1.04	< 0.5	11	141	947	4.20	10	< 1	0.77	20	1.38	105	36
571594H	299	229	1.4	1.15	14	30	0.5	8	1.02	< 0.5	16	130	2160	8.54	10	< 1	0.56	20	0.97	100	104
571595H	299	229	0.8	1.35	< 2	70	0.5	< 2	0.86	< 0.5	11	157	1305	4.65	10	< 1	0.57	30	1.13	105	212
571596H	299	229	0.4	1.02	4	80	0.5	< 2	1.10	< 0.5	9	184	762	2.05	< 10	< 1	0.45	30	0.80	75	35
571597H	299	229	0.4	0.93	2	70	0.5	2	1.27	< 0.5	8	157	512	2.15	< 10	< 1	0.49	30	0.59	50	60
571598H	299	229	0.6	0.82	< 2	60	0.5	2	1.71	< 0.5	8	177	952	2.13	< 10	< 1	0.40	30	0.58	50	67
571599H	299	229	0.4	1.04	< 2	60	0.5	< 2	1.65	< 0.5	8	180	1125	2.55	< 10	< 1	0.48	20	0.75	70	41
571600H	299	229	0.2	0.93	4	100	0.5	< 2	1.60	< 0.5	8	162	650	1.91	< 10	< 1	0.40	30	0.40	60	76

CERTIFICATION: [signature]

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571561H	299	229	0.07	11	720	2	< 2	15	31	0.11	10	< 10	101	10	22
571562H	299	229	0.06	10	650	< 2	2	13	24	0.10	10	< 10	91	10	22
571563H	299	229	0.06	9	730	< 2	2	14	19	0.14	10	< 10	99	10	22
571564H	299	229	0.06	11	900	4	< 2	18	21	0.18	10	< 10	130	10	28
571565H	299	229	0.05	9	670	< 2	< 2	14	21	0.13	10	< 10	96	10	20
571566H	299	229	0.07	11	870	< 2	< 2	19	25	0.18	10	< 10	123	10	26
571567H	299	229	0.04	11	640	2	< 2	11	25	0.10	< 10	< 10	77	10	20
571568H	299	229	0.04	12	570	6	2	11	18	0.10	< 10	< 10	77	10	20
571569H	299	229	0.05	10	660	< 2	< 2	11	26	0.10	10	< 10	81	10	20
571570H	299	229	0.06	10	680	< 2	2	11	24	0.09	10	< 10	81	10	30
571571H	299	229	0.06	10	700	< 2	< 2	14	25	0.10	< 10	< 10	104	10	32
571572H	299	229	0.06	9	720	< 2	2	15	26	0.13	10	< 10	103	10	30
571573H	299	229	0.04	9	550	2	2	8	22	0.05	10	< 10	61	10	22
571574H	299	229	0.07	14	1010	< 2	2	14	23	0.16	10	< 10	112	10	28
571575H	299	229	0.08	15	1310	4	2	18	31	0.22	< 10	< 10	147	10	46
571576H	299	229	0.05	16	1080	< 2	2	17	25	0.21	< 10	< 10	147	10	26
571577H	299	229	0.04	11	680	2	< 2	9	23	0.08	10	< 10	71	< 10	26
571578H	299	229	0.06	9	330	12	< 2	4	21	0.02	10	< 10	36	< 10	16
571579H	299	229	0.05	7	660	2	2	5	24	0.02	10	< 10	35	< 10	16
571580H	299	229	0.03	7	380	2	2	3	21	0.02	10	< 10	27	< 10	12
571581H	299	229	0.04	9	380	8	2	5	18	0.02	< 10	< 10	33	< 10	18
571582H	299	229	0.06	9	410	4	2	6	18	0.03	< 10	< 10	45	< 10	18
571583H	299	229	0.06	7	400	6	2	4	17	0.02	< 10	< 10	33	< 10	16
571584H	299	229	0.06	8	390	2	2	6	18	0.03	< 10	< 10	39	< 10	20
571585H	299	229	0.04	9	420	8	2	6	26	0.02	< 10	< 10	38	< 10	22
571586H	299	229	0.04	8	360	4	2	6	25	0.03	< 10	< 10	38	< 10	18
571587H	299	229	0.03	10	380	8	2	5	27	0.01	< 10	< 10	33	10	24
571588H	299	229	0.07	9	480	2	2	8	25	0.04	< 10	< 10	47	< 10	18
571589H	299	229	0.06	7	440	2	< 2	9	20	0.06	< 10	< 10	52	< 10	16
571590H	299	229	0.06	12	410	6	< 2	5	17	0.03	< 10	< 10	35	< 10	14
571591H	299	229	0.04	8	500	< 2	2	5	15	0.03	< 10	< 10	31	< 10	12
571592H	299	229	0.05	10	490	2	2	6	15	0.04	< 10	< 10	37	20	14
571593H	299	229	0.03	12	930	2	< 2	12	16	0.04	< 10	< 10	74	20	22
571594H	299	229	0.02	18	610	2	< 2	8	16	0.04	< 10	< 10	181	20	22
571595H	299	229	0.04	12	690	2	2	7	20	0.03	< 10	< 10	81	10	22
571596H	299	229	0.06	8	440	2	< 2	6	62	0.02	< 10	< 10	33	< 10	14
571597H	299	229	0.04	8	390	2	< 2	4	65	0.02	< 10	< 10	29	< 10	10
571598H	299	229	0.04	7	370	2	2	4	93	0.01	< 10	< 10	24	< 10	10
571599H	299	229	0.04	9	600	< 2	2	4	102	0.01	< 10	< 10	44	< 10	12
571600H	299	229	0.04	7	510	2	< 2	3	30	0.01	< 10	< 10	21	< 10	12

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 191
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. : I9320266
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CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571601H	299	229	0.6	1.12	4	170	0.5	6	1.69	< 0.5	7	168	1235	1.57	< 10	< 1	0.45	30	0.51	85	96
571602H	299	229	0.2	0.97	< 2	80	0.5	< 2	1.14	< 0.5	9	185	896	1.83	< 10	< 1	0.43	40	0.40	60	103
571603H	299	229	0.4	1.30	< 2	110	0.5	2	0.98	< 0.5	8	146	1145	1.85	< 10	< 1	0.59	30	0.90	65	48
571604H	299	229	0.4	1.24	4	90	0.5	2	0.85	< 0.5	9	158	721	1.94	< 10	< 1	0.67	30	0.71	65	92
571605H	299	229	0.8	1.16	12	100	0.5	2	0.91	< 0.5	9	127	726	2.70	< 10	< 1	0.59	40	0.60	60	98
571606H	299	229	0.2	1.14	32	80	0.5	< 2	1.55	< 0.5	11	179	554	2.61	< 10	< 1	0.59	40	0.54	65	162
571607H	299	229	0.6	0.97	< 2	60	< 0.5	2	0.73	< 0.5	15	171	655	3.72	< 10	< 1	0.48	30	0.53	40	101
571608H	299	229	0.2	1.21	< 2	120	< 0.5	2	0.59	< 0.5	7	162	305	1.47	< 10	< 1	0.69	30	0.65	40	81
571609H	299	229	0.4	1.34	4	90	0.5	< 2	1.17	< 0.5	10	151	533	2.75	< 10	< 1	0.73	30	0.71	55	77
571610H	299	229	0.4	1.08	2	70	0.5	< 2	1.22	< 0.5	9	140	663	1.95	< 10	< 1	0.60	20	0.53	55	53
571611H	299	229	0.6	1.20	14	60	0.5	< 2	1.47	< 0.5	15	213	480	3.41	< 10	< 1	0.62	30	0.50	70	209
571612H	299	229	0.2	1.46	6	60	0.5	< 2	0.63	< 0.5	8	135	342	1.97	< 10	< 1	0.75	20	1.17	80	72
571613H	299	229	0.2	1.39	10	130	0.5	< 2	1.55	< 0.5	7	182	589	1.68	< 10	< 1	0.55	30	0.66	75	139
571614H	299	229	0.4	1.41	< 2	130	0.5	2	1.27	< 0.5	6	153	532	1.29	10	< 1	0.58	60	0.70	70	73
571615H	299	229	0.6	1.29	14	70	0.5	2	2.63	< 0.5	9	188	868	2.29	< 10	< 1	0.73	40	0.74	65	190
571616H	299	229	0.4	1.06	6	90	< 0.5	< 2	2.23	< 0.5	4	179	325	1.33	< 10	< 1	0.59	30	0.61	50	76
571617H	299	229	0.4	1.24	6	80	0.5	< 2	2.53	< 0.5	9	223	403	2.48	< 10	< 1	0.55	20	0.79	100	76
571618H	299	229	0.6	1.28	12	110	0.5	< 2	2.17	< 0.5	7	182	555	1.63	< 10	< 1	0.62	30	0.90	120	66
571619H	299	229	0.2	1.12	6	60	0.5	< 2	2.92	< 0.5	7	216	331	2.49	< 10	< 1	0.58	20	0.64	70	147
571620H	299	229	0.4	1.10	8	90	< 0.5	< 2	2.31	< 0.5	6	149	423	1.93	< 10	< 1	0.56	30	0.87	70	101
571621H	299	229	1.2	0.87	2	80	< 0.5	2	2.08	< 0.5	6	137	585	1.89	< 10	< 1	0.43	30	0.70	70	93
571622H	299	229	0.4	1.03	12	70	< 0.5	< 2	2.15	< 0.5	6	126	612	1.63	< 10	< 1	0.50	30	0.94	75	68
571623H	299	229	0.6	1.05	8	90	< 0.5	2	1.85	< 0.5	7	164	621	1.71	< 10	< 1	0.52	20	0.87	85	88
571624H	299	229	0.4	1.17	8	130	< 0.5	< 2	1.54	< 0.5	6	162	541	1.20	< 10	< 1	0.66	20	0.91	65	135
571625H	299	229	0.4	1.14	16	80	< 0.5	< 2	1.84	< 0.5	6	210	539	1.45	< 10	< 1	0.62	20	0.87	80	128
571626H	299	229	0.4	1.00	10	80	< 0.5	< 2	1.56	< 0.5	4	166	499	1.07	< 10	< 1	0.47	20	0.81	70	115
571627H	299	229	0.6	1.07	< 2	100	< 0.5	< 2	2.24	< 0.5	6	195	491	2.21	< 10	< 1	0.57	30	0.58	85	191
571628H	299	229	0.4	1.15	< 2	80	< 0.5	< 2	2.20	< 0.5	7	164	414	1.84	< 10	< 1	0.60	40	0.80	80	208
571629H	299	229	1.6	1.05	2	20	0.5	< 2	1.95	< 0.5	26	189	1050	6.46	< 10	< 1	0.54	40	0.42	50	196
571630H	299	229	0.2	0.91	2	30	< 0.5	< 2	2.34	< 0.5	4	154	217	1.24	< 10	< 1	0.56	20	0.78	60	179
571631H	299	229	< 0.2	0.81	< 2	30	< 0.5	< 2	3.16	< 0.5	3	162	158	0.91	< 10	< 1	0.51	10	0.71	40	195
571632H	299	229	< 0.2	1.24	< 2	110	0.5	< 2	2.18	< 0.5	4	163	206	1.26	< 10	< 1	0.68	10	1.12	55	107
571633H	299	229	0.2	0.98	2	60	< 0.5	< 2	1.87	< 0.5	6	172	413	1.68	< 10	< 1	0.52	20	0.84	50	194
571634H	299	229	0.2	0.96	8	60	< 0.5	< 2	2.14	< 0.5	4	127	483	1.63	< 10	< 1	0.49	20	0.89	55	274
571635H	299	229	0.4	1.01	4	70	< 0.5	< 2	2.55	< 0.5	4	155	531	1.43	< 10	< 1	0.50	30	0.86	50	99
571636H	299	229	0.4	1.06	< 2	110	< 0.5	< 2	2.28	< 0.5	4	145	446	1.61	< 10	< 1	0.53	30	0.86	70	113
571637H	299	229	0.4	1.01	4	70	< 0.5	< 2	2.24	< 0.5	7	139	418	1.99	< 10	< 1	0.49	20	0.86	70	133
571638H	299	229	0.4	0.82	2	90	< 0.5	< 2	2.70	< 0.5	4	149	492	1.32	< 10	< 1	0.43	30	0.69	70	134
571639H	299	229	0.2	1.05	2	70	< 0.5	< 2	2.36	< 0.5	7	139	514	1.93	< 10	< 1	0.51	10	0.85	55	113
571640H	299	229	0.4	1.29	< 2	70	< 0.5	< 2	2.71	< 0.5	7	108	758	1.60	< 10	< 1	0.79	20	1.19	75	347

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 191
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Account :FC

CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571601H	299	229	0.04	8	410	2	4	6	43	0.01	< 10	< 10	32	< 10	14
571602H	299	229	0.04	7	410	< 2	2	4	28	0.01	10	< 10	23	< 10	8
571603H	299	229	0.07	9	470	2	2	7	28	0.03	< 10	< 10	45	< 10	14
571604H	299	229	0.05	9	390	14	2	6	22	0.03	< 10	< 10	38	< 10	16
571605H	299	229	0.04	8	420	4	2	5	23	0.02	< 10	< 10	31	< 10	14
571606H	299	229	0.02	9	510	4	2	4	27	0.02	< 10	< 10	31	< 10	8
571607H	299	229	0.03	10	300	4	< 2	4	21	0.02	< 10	< 10	28	< 10	10
571608H	299	229	0.04	7	430	4	< 2	5	19	0.03	< 10	< 10	29	< 10	6
571609H	299	229	0.05	9	540	6	2	6	24	0.03	< 10	< 10	37	< 10	18
571610H	299	229	0.04	9	430	2	2	4	26	0.02	< 10	< 10	32	< 10	14
571611H	299	229	0.04	10	430	2	2	4	25	0.02	< 10	< 10	27	< 10	14
571612H	299	229	0.06	8	510	8	< 2	9	22	0.07	< 10	< 10	55	< 10	24
571613H	299	229	0.04	8	460	12	2	7	38	0.03	< 10	< 10	40	< 10	34
571614H	299	229	0.06	7	490	4	2	8	46	0.04	10	< 10	47	< 10	16
571615H	299	229	0.04	8	420	6	2	6	113	0.04	< 10	< 10	41	< 10	16
571616H	299	229	0.03	6	320	8	2	5	127	0.03	< 10	< 10	36	< 10	22
571617H	299	229	0.04	10	430	14	< 2	4	171	0.04	< 10	< 10	37	10	32
571618H	299	229	0.05	7	450	8	< 2	6	112	0.04	< 10	< 10	42	< 10	28
571619H	299	229	0.03	7	330	8	4	4	170	0.03	< 10	< 10	33	< 10	24
571620H	299	229	0.05	7	390	8	2	7	126	0.07	< 10	< 10	46	< 10	22
571621H	299	229	0.04	7	370	14	4	4	124	0.03	< 10	< 10	33	< 10	22
571622H	299	229	0.05	7	410	14	2	6	93	0.06	< 10	< 10	43	< 10	28
571623H	299	229	0.06	7	440	20	< 2	7	78	0.06	< 10	< 10	44	< 10	28
571624H	299	229	0.06	6	430	20	< 2	7	73	0.10	< 10	< 10	49	< 10	24
571625H	299	229	0.06	6	530	20	2	8	107	0.10	< 10	< 10	54	< 10	24
571626H	299	229	0.06	5	430	12	2	7	69	0.08	< 10	< 10	46	< 10	20
571627H	299	229	0.03	5	420	6	2	4	137	0.01	< 10	< 10	26	20	18
571628H	299	229	0.03	6	360	12	2	5	100	0.03	< 10	< 10	35	< 10	22
571629H	299	229	0.02	9	260	4	2	3	126	0.01	< 10	< 10	19	10	14
571630H	299	229	0.05	5	330	4	4	7	99	0.04	< 10	< 10	41	< 10	14
571631H	299	229	0.06	3	340	2	2	7	138	0.06	< 10	< 10	38	< 10	10
571632H	299	229	0.07	6	430	4	2	9	89	0.10	< 10	< 10	56	< 10	14
571633H	299	229	0.06	6	360	< 2	< 2	6	73	0.06	< 10	< 10	42	< 10	12
571634H	299	229	0.05	6	380	2	2	7	97	0.08	< 10	< 10	49	10	16
571635H	299	229	0.06	7	400	4	2	7	116	0.06	< 10	< 10	47	< 10	14
571636H	299	229	0.05	7	360	4	2	7	112	0.05	< 10	< 10	44	< 10	20
571637H	299	229	0.04	7	390	8	2	7	150	0.06	< 10	< 10	44	< 10	20
571638H	299	229	0.05	6	390	6	2	6	126	0.03	< 10	< 10	36	< 10	20
571639H	299	229	0.04	7	430	6	2	6	105	0.07	< 10	< 10	40	140	22
571640H	299	229	0.06	7	520	6	4	10	104	0.13	< 10	< 10	64	< 10	18

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571641H	299	229	0.4	1.07	< 2	70	< 0.5	< 2	2.03	< 0.5	6	142	523	2.12	< 10	< 1	0.54	30	0.68	65	120
571642H	299	229	0.2	1.17	8	60	< 0.5	< 2	2.12	< 0.5	4	169	447	1.41	< 10	< 1	0.65	20	1.04	75	115
571643H	299	229	0.4	1.13	< 2	120	< 0.5	< 2	1.96	< 0.5	5	148	672	1.59	< 10	< 1	0.61	20	0.96	70	74

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CERTIFICATE OF ANALYSIS A9320266

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571641H	299	229	0.04	6	460	2	2	6	103	0.03	< 10	< 10	36	< 10	14
571642H	299	229	0.06	7	460	4	4	9	88	0.09	< 10	< 10	60	20	18
571643H	299	229	0.06	6	420	4	< 2	8	76	0.08	< 10	< 10	54	< 10	16

CERTIFICATION:_____

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CERTIFICATE OF ANALYSIS A9320568

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
575344H	208 274	0.04	0.008	0.41	1860
575345H	208 274	0.02	0.013	0.31	4700
575346H	208 276	0.01	0.025	0.14	7500
575347H	208 274	0.01	0.028	0.34	5360
575348H	208 274	0.02	0.017	0.10	7260
575349H	208 276	0.01	0.024	0.34	8420
575350H	208 276	0.01	0.018	0.17	8460
575351H	208 276	0.01	0.017	0.31	8260
575352H	208 274	0.02	0.019	0.24	5500
575353H	208 276	0.03	0.016	0.34	9280
575354H	208 276	0.02	0.048	0.48	9260
575355H	208 276	0.02	0.016	0.21	11300
575356H	208 274	0.05	0.015	0.38	5740
575357H	208 276	0.01	0.016	0.21	9600
575358H	208 276	0.01	0.014	0.10	10640
575359H	208 276	0.01	0.024	0.17	7820
575360H	208 274	0.02	0.041	0.10	5660
575361H	208 276	0.03	0.014	0.21	8480
575362H	208 276	0.01	0.021	0.21	7600
575363H	208 276	0.08	0.007	0.14	11280
575364H	208 274	0.03	0.011	0.17	6400
575365H	208 276	0.03	0.012	0.14	11200
575366H	208 273	0.09	0.017	0.21	11900
575367H	208 274	0.02	0.028	0.14	5800
575368H	208 276	0.04	0.048	0.17	10980
575369H	208 273	0.03	0.031	0.14	12880
575370H	208 273	0.03	0.012	0.10	12200
575371H	208 276	0.08	0.006	0.21	11540
575372H	208 276	0.06	0.009	0.27	10880
575373H	208 276	0.04	0.014	0.14	11020
575374H	208 273	0.04	0.011	0.17	13000
575375H	208 276	0.07	0.011	0.27	10200
575376H	208 276	0.17	0.034	0.24	10740
575377H	208 276	0.13	0.008	0.17	10460
575378H	208 276	0.21	0.012	0.10	8560
575379H	208 276	0.23	0.004	0.07	10320
575380H	208 276	0.15	0.008	< 0.03	11400
575381H	208 273	0.18	0.005	0.03	12920
575382H	208 273	0.27	0.010	0.10	12000
575383H	208 276	0.09	0.003	< 0.03	11520

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
575384H	208 273	0.15	0.002	< 0.03	12620
575385H	208 276	0.15	0.006	0.07	8020
575386H	208 274	0.28	0.004	0.14	6100
575387H	208 273	0.89	0.006	0.24	12660
575388H	208 273	1.36	0.014	0.72	12100
575389H	208 273	0.22	0.006	0.14	12920
575390H	208 276	0.40	0.005	0.27	9260
575391H	208 276	0.53	0.003	0.14	9100
575392H	208 276	0.38	0.003	0.21	10460
575393H	208 274	0.51	0.003	0.17	6560
575394H	208 276	0.32	0.005	0.10	10460
575395H	208 276	0.39	0.007	0.10	11700
575396H	208 276	0.26	0.014	0.17	10520
575397H	208 276	0.43	0.006	0.14	11200
575398H	208 276	0.17	0.005	0.10	10260
575399H	208 276	0.20	0.005	0.17	11120
575400H	208 276	0.14	0.003	0.17	9760
575401H	208 276	0.19	0.005	0.21	10200
575402H	208 276	< 0.01	0.001	< 0.03	10900
575403H	208 276	0.11	0.008	0.14	9760
575404H	208 276	0.08	0.007	< 0.03	10760
575405H	208 274	0.29	0.011	0.21	7160
575406H	208 276	0.31	0.005	0.27	7800
575407H	208 276	0.28	0.008	0.21	9520
575408H	208 276	0.57	0.065	0.55	9200
575409H	208 274	0.39	0.032	0.38	7220
575410H	208 276	0.55	0.033	0.55	8200
575411H	208 274	0.49	0.037	0.38	6700
575412H	208 276	0.30	0.006	0.21	7420
575413H	208 274	0.43	0.006	0.17	6760
575414H	208 274	0.81	0.025	0.55	7120
575415H	208 276	0.23	0.008	0.10	9320
575416H	208 276	0.47	0.012	0.31	7760
575417H	208 276	0.45	0.024	0.24	8500
575418H	208 274	0.31	0.020	0.21	7020
575419H	208 273	0.21	0.014	0.17	12500
575420H	208 276	0.19	0.020	0.14	9520
575421H	208 276	0.18	0.007	0.10	10400
575422H	208 276	0.01	0.001	< 0.03	9700
575423H	208 273	0.01	0.001	< 0.03	12300

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 192
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-SEP-93
Invoice No. :I9320568
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320568

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
575424H	208	276	0.26	0.021	0.34	11400						
575425H	208	276	0.18	0.023	0.17	9740						
575426H	208	274	0.20	0.020	0.17	5620						
575427H	208	276	0.21	0.017	0.24	8560						
575428H	208	276	0.20	0.025	0.27	7500						
575429H	208	276	0.13	0.052	0.17	11220						
575430H	208	276	0.07	0.147	0.03	9900						
575431H	208	276	0.22	0.070	0.24	11600						
575432H	208	276	0.16	0.071	0.14	10220						
575433H	208	273	0.12	0.037	0.10	13100						
575434H	208	276	0.11	0.054	0.10	11180						
575435H	208	276	0.11	0.078	0.17	9100						
575436H	208	274	0.01	0.004	< 0.03	2760						
575437H	208	276	0.21	0.097	0.34	8740						
575438H	208	273	0.20	0.044	0.24	14620						
575439H	208	276	0.16	0.038	0.14	11420						
575440H	208	273	0.29	0.074	0.31	12620						
575441H	208	273	0.16	0.023	0.17	13530						
575442H	208	276	0.20	0.021	0.55	10520						
575443H	208	273	0.31	0.059	0.27	12780						
575444H	208	273	0.41	0.049	0.48	13600						
575445H	208	276	0.34	0.065	0.34	11240						
575446H	208	276	0.28	0.085	0.34	11560						
575447H	208	273	0.41	0.232	0.58	12480						
575448H	208	273	0.51	0.232	0.69	13360						
575449H	208	273	0.47	0.088	0.79	13400						
575450H	208	273	0.72	0.126	1.20	12380						
575501H	208	273	0.73	0.124	1.06	12680						
575502H	208	273	0.63	0.054	0.86	12560						
575503H	208	276	0.45	0.060	0.51	11000						
575504H	208	274	0.57	0.024	0.69	5000						
575505H	208	276	0.48	0.031	0.55	11450						
575506H	208	274	0.12	0.002	0.10	7250						
575507H	208	276	0.21	0.003	0.21	11350						
575508H	208	276	0.39	0.030	0.48	9650						
575509H	208	273	0.30	0.033	0.41	14000						
575510H	208	273	0.15	0.023	0.21	11950						
575511H	208	273	0.09	0.010	0.14	12650						
575512H	208	276	0.43	0.122	0.62	11750						
575513H	208	276	0.49	0.081	0.62	11600						

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Y1A 3S9

Project : CASINO 192
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-SEP-93
Invoice No. :19320568
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320568

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575514H	208	273	0.31	0.085	0.34	12240
575515H	208	273	0.46	0.065	0.38	12260
575516H	208	276	0.16	0.033	0.24	11000
575517H	208	276	0.15	0.038	0.21	10680
575518H	208	273	0.41	0.083	0.48	12000
575519H	208	273	0.26	0.058	0.24	13560
575520H	208	273	0.32	0.110	0.34	12280
575521H	208	273	0.34	0.081	0.41	12500
575522H	208	276	0.27	0.050	0.41	11200
575523H	208	276	0.24	0.037	0.48	11600
575524H	208	273	0.20	0.107	0.27	11940
575525H	208	273	0.28	0.120	0.31	12660
575526H	208	273	0.17	0.087	0.21	11840
575527H	208	273	0.30	0.109	0.38	12280
575528H	208	276	0.34	0.078	0.48	10600
575529H	208	276	0.42	0.116	0.75	11460
575530H	208	276	0.33	0.099	0.41	9600
575531H	208	276	0.34	0.133	0.45	10920
575532H	208	276	0.40	0.148	1.23	11560
575533H	208	276	0.27	0.182	0.34	11260
575534H	208	276	0.31	0.106	0.34	11380
575535H	208	276	0.41	0.096	0.38	10820
575536H	208	276	0.26	0.055	0.27	10440
575537H	208	276	0.18	0.107	0.14	10480
575538H	208	276	0.18	0.130	0.24	9080
575539H	208	274	0.12	0.190	0.14	6260
575540H	208	273	0.14	0.192	0.24	13680
575541H	208	273	0.15	0.087	0.14	13000
575542H	208	273	0.10	0.233	0.14	12280
575543H	208	273	0.16	0.212	0.24	12900
575544H	208	273	0.09	0.141	0.14	12480
575545H	208	273	0.07	0.225	0.07	13060
575546H	208	274	0.04	0.089	0.03	6300

CERTIFICATION: _____

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 192
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-SEP-93
Invoice No. :I9320571
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320571

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575344H	299	229	1.6	0.59	28	140	< 0.5	< 2	0.03	< 0.5	12	128	353	2.99	10	< 1	0.77	20	0.05	15	53
575345H	299	229	2.2	0.65	146	100	< 0.5	12	0.02	0.5	3	138	214	3.41	< 10	< 1	0.94	20	0.04	15	74
575346H	299	229	0.8	0.58	22	150	< 0.5	6	0.01	< 0.5	7	165	100	2.58	< 10	< 1	0.74	20	0.03	15	155
575347H	299	229	0.2	0.54	26	110	< 0.5	2	0.01	< 0.5	15	130	97	2.84	< 10	< 1	0.67	20	0.02	10	183
575348H	299	229	0.8	0.65	18	130	< 0.5	< 2	0.01	< 0.5	11	176	187	3.01	< 10	< 1	0.76	20	0.04	15	112
575349H	299	229	1.8	0.63	10	170	< 0.5	2	0.01	< 0.5	2	127	127	2.52	< 10	< 1	0.65	20	0.03	10	148
575350H	299	229	0.4	0.61	12	150	< 0.5	2	0.01	< 0.5	5	162	58	2.91	< 10	< 1	0.81	10	0.04	10	114
575351H	299	229	1.2	0.72	14	270	< 0.5	10	0.01	< 0.5	2	152	81	2.65	< 10	< 1	0.77	20	0.06	15	103
575352H	299	229	1.4	0.64	22	200	< 0.5	2	0.01	< 0.5	5	133	207	2.94	< 10	< 1	0.84	20	0.06	10	117
575353H	299	229	1.6	0.86	44	110	< 0.5	2	0.02	< 0.5	5	129	261	4.09	10	< 1	1.02	20	0.07	10	97
575354H	299	229	1.4	0.77	20	190	< 0.5	4	0.01	< 0.5	1	149	173	3.19	10	< 1	0.90	20	0.06	10	279
575355H	299	229	1.4	0.63	12	130	< 0.5	2	0.01	< 0.5	5	129	208	3.24	< 10	< 1	0.88	10	0.04	10	98
575356H	299	229	1.8	0.63	20	110	< 0.5	2	0.01	< 0.5	11	146	440	3.01	< 10	< 1	0.81	10	0.04	15	95
575357H	299	229	1.2	0.73	8	170	< 0.5	4	0.01	< 0.5	3	201	69	1.93	< 10	< 1	0.64	20	0.04	10	101
575358H	299	229	0.6	0.56	14	110	< 0.5	4	0.01	< 0.5	10	166	97	3.03	< 10	< 1	0.78	20	0.03	10	89
575359H	299	229	0.4	0.41	16	320	< 0.5	6	0.01	< 0.5	1	150	54	2.21	< 10	< 1	0.57	10	0.02	10	145
575360H	299	229	0.2	0.54	24	230	< 0.5	2	0.01	< 0.5	9	232	139	3.27	< 10	< 1	0.53	20	0.02	15	239
575361H	299	229	0.6	0.49	20	160	< 0.5	4	0.01	< 0.5	9	119	295	3.22	< 10	< 1	0.66	20	0.03	10	92
575362H	299	229	0.6	0.43	12	300	< 0.5	2	< 0.01	< 0.5	5	140	100	2.31	< 10	1	0.51	10	0.02	10	139
575363H	299	229	0.4	0.47	10	70	< 0.5	8	0.01	< 0.5	53	148	806	3.91	< 10	< 1	0.52	10	0.04	15	45
575364H	299	229	0.8	0.68	8	90	< 0.5	6	0.01	< 0.5	43	188	258	3.82	< 10	< 1	0.74	10	0.04	15	72
575365H	299	229	0.8	0.59	12	90	< 0.5	8	0.01	< 0.5	43	162	313	3.99	< 10	< 1	0.71	20	0.04	15	76
575366H	299	229	1.2	0.68	30	80	< 0.5	2	0.01	< 0.5	29	187	952	3.89	< 10	< 1	0.70	10	0.05	15	112
575367H	299	229	0.4	0.57	22	40	< 0.5	< 2	0.01	< 0.5	40	131	174	3.72	< 10	< 1	0.55	10	0.03	10	161
575368H	299	229	0.8	0.57	44	40	< 0.5	2	0.01	< 0.5	52	139	365	5.54	< 10	1	0.64	10	0.03	10	309
575369H	299	229	0.8	0.49	52	80	< 0.5	4	0.01	< 0.5	31	145	334	4.73	< 10	< 1	0.69	20	0.03	10	189
575370H	299	229	0.4	0.53	8	60	< 0.5	2	0.01	< 0.5	34	167	348	4.67	< 10	< 1	0.63	20	0.04	10	75
575371H	299	229	0.8	0.46	34	60	< 0.5	6	0.01	< 0.5	30	135	895	4.77	< 10	< 1	0.54	10	0.06	10	38
575372H	299	229	1.2	0.50	6	30	< 0.5	6	0.01	< 0.5	48	145	609	5.21	< 10	< 1	0.50	10	0.06	10	53
575373H	299	229	1.2	0.49	6	40	< 0.5	2	0.02	< 0.5	38	159	359	4.77	< 10	< 1	0.54	10	0.04	10	87
575374H	299	229	1.2	0.63	10	40	< 0.5	4	0.02	< 0.5	44	149	407	4.32	< 10	< 1	0.49	10	0.08	10	66
575375H	299	229	1.4	0.76	46	40	< 0.5	8	0.03	< 0.5	41	140	746	4.54	< 10	< 1	0.48	10	0.06	10	69
575376H	299	229	0.8	0.81	12	50	< 0.5	4	0.04	< 0.5	40	153	1695	3.57	< 10	< 1	0.41	10	0.07	10	206
575377H	299	229	0.6	0.91	20	50	< 0.5	2	0.06	0.5	41	134	1315	4.79	< 10	< 1	0.35	10	0.07	10	49
575378H	299	229	1.0	2.10	242	40	< 0.5	8	0.14	1.0	38	101	2060	6.00	10	< 1	0.27	20	0.06	15	72
575379H	299	229	0.4	1.16	108	40	< 0.5	4	0.05	0.5	33	94	2510	3.66	< 10	< 1	0.28	10	0.06	5	26
575380H	299	229	0.4	1.04	14	20	< 0.5	6	0.04	< 0.5	42	113	1580	3.53	< 10	< 1	0.38	20	0.07	5	51
575381H	299	229	0.6	0.85	12	40	< 0.5	2	0.04	< 0.5	34	121	1830	3.49	< 10	< 1	0.39	10	0.07	10	30
575382H	299	229	0.8	1.03	22	30	< 0.5	4	0.05	< 0.5	36	156	2840	4.25	< 10	< 1	0.36	10	0.07	10	66
575383H	299	229	0.2	0.82	2	40	< 0.5	< 2	0.03	< 0.5	23	116	853	2.74	< 10	< 1	0.34	10	0.06	10	14

CERTIFICATION: John D'Mar

Chemex Labs Ltd.

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Project : CASINO 192
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Certificate Date: 10-SEP-93
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CERTIFICATE OF ANALYSIS A9320571

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575344H	299	229	0.02	3	220	18	< 2	2	36	< 0.01	< 10	< 10	13	< 10	6
575345H	299	229	0.02	2	200	24	2	1	43	< 0.01	< 10	< 10	11	10	4
575346H	299	229	0.02	2	190	12	< 2	1	23	< 0.01	< 10	< 10	7	10	4
575347H	299	229	0.01	2	150	12	< 2	1	19	< 0.01	< 10	< 10	8	10	4
575348H	299	229	0.02	3	310	10	2	2	21	< 0.01	< 10	< 10	11	< 10	4
575349H	299	229	0.03	< 1	280	18	< 2	1	50	< 0.01	< 10	< 10	10	< 10	2
575350H	299	229	0.03	2	190	8	2	1	22	< 0.01	< 10	< 10	8	10	2
575351H	299	229	0.02	2	250	14	4	1	38	< 0.01	< 10	< 10	9	10	6
575352H	299	229	0.02	< 1	390	4	2	2	25	< 0.01	< 10	< 10	17	< 10	2
575353H	299	229	0.03	1	760	8	2	3	72	< 0.01	< 10	< 10	20	< 10	4
575354H	299	229	0.02	< 1	570	6	2	2	64	< 0.01	< 10	< 10	16	10	4
575355H	299	229	0.02	1	470	8	4	2	47	< 0.01	< 10	< 10	14	< 10	4
575356H	299	229	0.03	2	260	22	2	1	27	< 0.01	< 10	< 10	9	< 10	4
575357H	299	229	0.03	2	210	12	< 2	1	37	< 0.01	< 10	< 10	10	10	4
575358H	299	229	0.03	2	290	14	4	1	33	< 0.01	< 10	< 10	8	10	2
575359H	299	229	0.02	< 1	220	18	2	< 1	46	< 0.01	< 10	< 10	6	< 10	2
575360H	299	229	0.02	3	370	18	4	1	112	< 0.01	< 10	< 10	11	< 10	4
575361H	299	229	0.02	1	370	10	2	1	94	< 0.01	< 10	< 10	9	< 10	8
575362H	299	229	0.02	2	170	12	2	< 1	46	< 0.01	< 10	< 10	4	10	8
575363H	299	229	0.01	4	210	14	< 2	1	62	< 0.01	< 10	< 10	7	< 10	4
575364H	299	229	0.02	4	240	14	< 2	1	71	< 0.01	< 10	< 10	7	< 10	4
575365H	299	229	0.02	3	230	14	4	1	71	< 0.01	< 10	< 10	6	< 10	2
575366H	299	229	0.02	5	280	16	2	1	79	< 0.01	< 10	< 10	9	< 10	4
575367H	299	229	0.02	3	190	6	2	< 1	59	< 0.01	< 10	< 10	6	10	2
575368H	299	229	0.02	4	300	8	4	1	97	< 0.01	< 10	< 10	8	< 10	2
575369H	299	229	0.02	4	350	2	6	1	97	< 0.01	< 10	< 10	14	< 10	4
575370H	299	229	0.02	4	260	6	2	1	68	< 0.01	< 10	< 10	15	< 10	4
575371H	299	229	0.02	5	310	8	< 2	2	80	< 0.01	< 10	< 10	13	< 10	4
575372H	299	229	0.01	6	200	12	2	1	42	< 0.01	< 10	< 10	10	10	6
575373H	299	229	0.02	5	240	8	2	1	75	< 0.01	< 10	< 10	7	10	4
575374H	299	229	0.01	6	200	12	2	1	59	< 0.01	< 10	< 10	11	10	6
575375H	299	229	0.02	4	300	8	4	1	137	< 0.01	< 10	< 10	8	10	18
575376H	299	229	0.01	5	380	4	8	2	144	< 0.01	< 10	< 10	10	10	20
575377H	299	229	0.01	6	460	2	2	3	178	< 0.01	< 10	< 10	12	< 10	48
575378H	299	229	0.01	13	1980	8	28	9	491	< 0.01	< 10	20	23	10	148
575379H	299	229	0.01	5	430	2	10	2	197	< 0.01	< 10	< 10	8	10	38
575380H	299	229	0.01	5	350	4	4	1	135	< 0.01	< 10	< 10	8	< 10	20
575381H	299	229	0.01	3	210	4	4	1	62	< 0.01	< 10	< 10	8	< 10	12
575382H	299	229	0.01	6	370	4	8	2	142	< 0.01	< 10	< 10	9	< 10	26
575383H	299	229	0.01	3	210	4	4	1	83	< 0.01	< 10	< 10	6	< 10	10

CERTIFICATION: Jhai D Ma

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575384H	299	229	0.2	0.77	8	90	< 0.5	4	0.06	< 0.5	21	93	1470	2.80	< 10	< 1	0.27	10	0.07	10	13
575385H	299	229	0.2	0.69	12	40	< 0.5	2	0.06	< 0.5	25	95	1525	3.17	< 10	< 1	0.23	10	0.04	5	33
575386H	299	229	0.2	0.75	16	30	< 0.5	4	0.07	< 0.5	31	79	2820	3.77	< 10	< 1	0.21	< 10	0.04	5	23
575387H	299	229	0.8	1.56	32	20	< 0.5	16	0.13	< 0.5	57	76	9000	6.41	< 10	< 1	0.27	< 10	0.07	10	30
575388H	299	229	1.4	2.07	58	20	< 0.5	16	0.15	< 0.5	62	60	>10000	5.47	10	< 1	0.18	10	0.05	45	80
575389H	299	229	0.4	0.57	6	20	< 0.5	8	0.06	< 0.5	43	95	2200	5.09	< 10	< 1	0.19	< 10	0.03	10	31
575390H	299	229	0.8	1.09	22	20	< 0.5	6	0.23	0.5	39	66	4250	5.16	< 10	< 1	0.29	< 10	0.08	15	32
575391H	299	229	0.8	1.65	8	30	< 0.5	14	0.30	< 0.5	42	58	5400	4.02	10	< 1	0.32	10	0.09	25	16
575392H	299	229	0.8	1.15	14	20	< 0.5	2	0.32	< 0.5	37	48	3970	5.14	10	< 1	0.27	10	0.08	225	15
575393H	299	229	0.6	1.05	38	20	< 0.5	6	0.26	0.5	30	57	5160	5.65	< 10	< 1	0.28	10	0.08	450	11
575394H	299	229	0.6	0.98	40	10	< 0.5	12	0.28	0.5	46	38	3250	5.68	< 10	< 1	0.28	10	0.12	145	28
575395H	299	229	0.6	0.99	64	10	< 0.5	8	0.31	1.0	45	30	3900	6.57	10	< 1	0.23	10	0.08	815	41
575396H	299	229	0.4	0.72	50	10	< 0.5	6	0.12	< 0.5	32	43	2650	4.40	< 10	< 1	0.21	10	0.05	50	88
575397H	299	229	0.8	1.10	44	20	< 0.5	< 2	0.15	0.5	41	45	4360	3.81	< 10	< 1	0.27	10	0.07	160	38
575398H	299	229	0.6	0.86	18	20	< 0.5	12	0.46	2.0	48	77	1735	6.15	10	< 1	0.27	10	0.22	425	30
575399H	299	229	1.4	0.83	22	20	< 0.5	12	1.21	1.0	35	54	2130	5.99	10	< 1	0.23	20	0.48	1005	24
575400H	299	229	0.8	0.65	22	50	< 0.5	< 2	0.83	1.0	31	41	1355	4.63	10	< 1	0.13	20	0.35	1255	19
575401H	299	229	0.8	1.06	68	40	< 0.5	6	0.36	1.5	21	21	2010	3.46	10	< 1	0.14	20	0.17	215	29
575402H	299	229	0.2	3.83	54	10	< 0.5	2	1.06	1.0	26	116	38	7.54	30	< 1	0.07	90	1.35	670	3
575403H	299	229	0.6	0.95	12	120	< 0.5	< 2	0.43	0.5	25	58	1070	5.41	10	< 1	0.11	20	0.47	825	49
575404H	299	229	0.6	2.77	18	210	< 0.5	< 2	1.16	0.5	21	81	724	5.50	20	< 1	0.25	60	1.29	605	39
575405H	299	229	1.2	1.35	68	60	< 0.5	4	1.17	0.5	25	69	2810	3.54	10	< 1	0.21	20	0.70	475	60
575406H	299	229	1.2	1.19	34	40	< 0.5	12	0.96	< 0.5	26	58	3160	4.12	10	< 1	0.39	10	0.41	335	25
575407H	299	229	1.4	1.01	22	70	< 0.5	< 2	1.09	1.0	29	23	3030	3.66	10	< 1	0.21	20	0.56	565	49
575408H	299	229	3.4	1.32	324	70	< 0.5	26	0.78	2.0	41	64	5710	4.56	10	< 1	0.34	30	0.41	1085	390
575409H	299	229	2.2	0.55	30	100	< 0.5	14	0.33	0.5	32	29	4080	5.15	10	< 1	0.16	20	0.12	1015	197
575410H	299	229	2.6	1.22	24	60	< 0.5	8	0.37	1.0	50	16	5480	4.12	10	< 1	0.16	20	0.20	345	196
575411H	299	229	2.0	1.80	14	70	< 0.5	12	0.33	< 0.5	22	43	4810	1.88	10	< 1	0.20	20	0.11	85	217
575412H	299	229	1.4	0.62	38	80	< 0.5	8	0.19	< 0.5	11	28	3090	1.89	< 10	< 1	0.13	10	0.03	10	34
575413H	299	229	1.4	0.73	26	70	< 0.5	4	0.25	0.5	28	30	4480	2.08	< 10	< 1	0.12	20	0.03	10	33
575414H	299	229	3.2	1.89	12	80	< 0.5	14	0.34	1.0	24	34	8410	1.75	10	< 1	0.18	10	0.04	10	149
575415H	299	229	1.0	1.24	20	70	< 0.5	4	0.32	1.5	27	15	2320	2.99	10	< 1	0.10	20	0.20	215	49
575416H	299	229	1.2	1.16	26	140	< 0.5	4	0.32	0.5	30	12	4570	3.07	10	< 1	0.09	20	0.14	480	67
575417H	299	229	1.8	0.57	48	150	< 0.5	6	0.16	< 0.5	14	56	4470	2.02	< 10	1	0.11	20	0.05	155	147
575418H	299	229	1.8	0.60	32	150	< 0.5	2	0.25	< 0.5	18	59	3060	3.75	< 10	< 1	0.16	20	0.06	790	118
575419H	299	229	1.8	0.40	294	40	< 0.5	4	1.15	1.5	15	78	2190	4.09	< 10	< 1	0.20	20	0.28	735	85
575420H	299	229	1.2	0.35	58	60	< 0.5	< 2	0.48	< 0.5	14	67	1995	2.90	< 10	< 1	0.13	10	0.23	365	119
575421H	299	229	0.6	0.69	22	30	< 0.5	4	1.06	< 0.5	12	70	1675	1.85	< 10	< 1	0.17	20	0.44	250	35
575422H	299	229	0.2	3.59	18	240	< 0.5	< 2	1.37	< 0.5	16	69	73	4.55	20	< 1	0.35	60	2.29	550	3
575423H	299	229	0.2	3.22	12	1640	< 0.5	2	2.40	< 0.5	12	67	46	3.80	20	< 1	0.32	60	2.29	885	1

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 192
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-SEP-93
Invoice No. : I9320571
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320571

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575384H	299	229	0.01	3	270	4	2	1	94	< 0.01	< 10	< 10	7	< 10	12
575385H	299	229	0.01	4	290	6	2	2	120	< 0.01	< 10	< 10	6	< 10	14
575386H	299	229	0.01	4	460	4	6	2	179	< 0.01	< 10	< 10	6	< 10	16
575387H	299	229	0.01	9	1110	8	4	7	367	< 0.01	< 10	< 10	23	< 10	38
575388H	299	229	0.01	11	1530	14	32	8	420	< 0.01	< 10	10	18	210	56
575389H	299	229	0.01	4	260	6	2	1	58	< 0.01	< 10	< 10	7	10	12
575390H	299	229	0.01	6	1020	16	16	3	67	< 0.01	< 10	< 10	20	10	26
575391H	299	229	0.01	8	1490	8	8	4	197	< 0.01	< 10	< 10	30	< 10	30
575392H	299	229	< 0.01	4	1230	8	12	4	10	< 0.01	< 10	< 10	29	10	42
575393H	299	229	< 0.01	3	870	2	14	3	11	< 0.01	< 10	< 10	24	10	56
575394H	299	229	< 0.01	6	980	8	18	3	18	< 0.01	< 10	< 10	24	10	60
575395H	299	229	< 0.01	6	1110	8	40	4	20	< 0.01	< 10	< 10	33	10	68
575396H	299	229	< 0.01	4	500	12	38	1	84	< 0.01	< 10	< 10	8	< 10	26
575397H	299	229	0.01	11	760	12	26	3	160	< 0.01	< 10	< 10	14	10	48
575398H	299	229	< 0.01	8	810	14	20	4	10	< 0.01	< 10	< 10	26	10	84
575399H	299	229	< 0.01	7	1450	12	18	8	14	< 0.01	< 10	< 10	47	20	98
575400H	299	229	< 0.01	5	840	14	12	7	11	< 0.01	< 10	< 10	37	20	112
575401H	299	229	< 0.01	8	1210	12	32	9	10	< 0.01	< 10	10	52	10	80
575402H	299	229	< 0.01	50	3460	16	2	15	43	< 0.01	< 10	< 10	78	30	118
575403H	299	229	< 0.01	11	730	14	6	5	12	< 0.01	< 10	< 10	27	10	60
575404H	299	229	0.01	23	2410	24	4	10	37	< 0.01	< 10	< 10	48	20	82
575405H	299	229	0.01	12	1040	14	22	5	17	< 0.01	< 10	< 10	29	20	54
575406H	299	229	0.01	9	860	6	14	6	12	< 0.01	< 10	< 10	27	10	40
575407H	299	229	0.01	6	860	12	12	8	12	< 0.01	< 10	< 10	42	10	104
575408H	299	229	0.01	6	750	16	40	5	10	< 0.01	< 10	< 10	34	10	186
575409H	299	229	< 0.01	5	660	14	14	3	8	< 0.01	< 10	< 10	17	10	96
575410H	299	229	< 0.01	10	1270	12	8	9	25	< 0.01	< 10	< 10	45	10	108
575411H	299	229	< 0.01	10	1240	12	6	8	32	< 0.01	< 10	< 10	48	10	58
575412H	299	229	< 0.01	3	720	14	10	2	24	< 0.01	< 10	< 10	11	< 10	42
575413H	299	229	< 0.01	8	960	8	8	3	35	< 0.01	< 10	< 10	12	< 10	94
575414H	299	229	< 0.01	10	1320	6	6	7	49	< 0.01	< 10	< 10	35	< 10	40
575415H	299	229	< 0.01	5	1210	6	6	10	12	< 0.01	< 10	< 10	57	10	120
575416H	299	229	< 0.01	7	1140	6	6	10	9	< 0.01	< 10	10	51	10	82
575417H	299	229	< 0.01	5	500	16	18	3	9	< 0.01	< 10	< 10	11	10	50
575418H	299	229	< 0.01	6	440	12	18	3	8	< 0.01	< 10	< 10	14	10	44
575419H	299	229	< 0.01	6	350	16	38	1	11	< 0.01	< 10	< 10	8	10	60
575420H	299	229	< 0.01	2	120	18	6	< 1	7	< 0.01	< 10	< 10	2	10	40
575421H	299	229	< 0.01	4	400	4	4	4	13	< 0.01	< 10	< 10	18	10	22
575422H	299	229	0.02	30	2510	8	< 2	10	52	0.01	< 10	< 10	46	30	74
575423H	299	229	0.02	28	2400	12	2	10	67	0.01	< 10	< 10	42	20	82

CERTIFICATION: Jhai D Ma

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 192
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-SEP-93
Invoice No. :I9320571
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320571

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575424H	299	229	1.0	0.83	22	90	< 0.5	8	1.57	< 0.5	9	141	2590	1.85	< 10	< 1	0.25	20	0.64	350	117
575425H	299	229	1.0	1.07	16	30	< 0.5	< 2	1.07	0.5	10	163	1725	1.26	10	< 1	0.16	30	0.40	285	127
575426H	299	229	1.2	0.80	18	60	< 0.5	8	1.90	0.5	22	169	1960	3.20	< 10	< 1	0.24	20	0.82	585	114
575427H	299	229	1.4	0.79	460	90	< 0.5	8	1.54	2.0	8	158	1970	1.88	< 10	< 1	0.28	20	0.66	1075	91
575428H	299	229	3.6	0.79	434	100	< 0.5	10	1.30	4.0	11	178	1960	1.91	< 10	1	0.30	20	0.61	1050	134
575429H	299	229	0.8	0.73	30	240	< 0.5	2	1.95	0.5	4	144	1255	1.41	< 10	< 1	0.20	20	0.88	455	284
575430H	299	229	0.8	0.85	18	130	< 0.5	2	0.66	< 0.5	17	131	761	1.65	10	< 1	0.41	30	0.34	205	831
575431H	299	229	1.6	1.01	32	60	< 0.5	2	2.22	< 0.5	8	111	2120	1.83	< 10	< 1	0.21	30	0.81	520	375
575432H	299	229	1.2	1.09	26	240	< 0.5	< 2	2.48	< 0.5	6	126	1475	1.77	< 10	< 1	0.22	20	0.87	645	374
575433H	299	229	1.2	1.04	26	100	< 0.5	4	2.10	< 0.5	8	137	1155	2.07	< 10	< 1	0.24	30	0.79	545	197
575434H	299	229	1.0	1.13	22	100	< 0.5	4	2.08	< 0.5	7	118	1065	1.99	10	< 1	0.27	40	0.73	460	298
575435H	299	229	1.6	0.40	232	70	< 0.5	< 2	2.83	1.0	12	35	1095	2.29	< 10	< 1	0.13	40	1.31	1195	391
575436H	299	229	0.2	3.20	12	490	< 0.5	4	1.58	< 0.5	14	68	138	4.28	20	< 1	0.34	50	2.09	605	22
575437H	299	229	1.4	0.50	50	180	< 0.5	4	2.18	< 0.5	13	23	1915	1.83	< 10	< 1	0.12	30	0.89	475	451
575438H	299	229	2.2	0.82	26	70	< 0.5	14	2.24	2.0	14	79	1945	3.69	10	< 1	0.27	30	0.86	455	239
575439H	299	229	0.6	0.81	24	50	< 0.5	6	1.89	< 0.5	7	115	1500	1.33	< 10	< 1	0.16	20	0.82	260	201
575440H	299	229	2.0	0.67	90	40	< 0.5	6	1.87	0.5	12	82	2790	2.16	< 10	< 1	0.18	10	0.80	360	361
575441H	299	229	2.0	0.36	56	20	< 0.5	10	0.92	1.5	13	47	1565	5.20	< 10	< 1	0.19	< 10	0.43	250	113
575442H	299	229	2.0	0.75	32	40	< 0.5	12	1.77	1.0	9	106	2070	4.97	10	< 1	0.39	10	0.83	990	112
575443H	299	229	1.6	0.82	22	120	< 0.5	4	2.46	< 0.5	12	84	2980	2.23	< 10	< 1	0.25	30	0.95	405	314
575444H	299	229	2.2	0.61	34	130	< 0.5	4	1.89	< 0.5	13	63	4030	2.02	< 10	< 1	0.18	30	0.72	285	275
575445H	299	229	1.8	1.10	24	100	< 0.5	10	1.82	< 0.5	8	85	3200	1.68	10	< 1	0.25	50	0.67	235	349
575446H	299	229	1.4	1.76	6	130	< 0.5	2	2.35	< 0.5	10	60	2640	2.25	10	< 1	0.75	60	1.32	270	453
575447H	299	229	2.4	1.42	12	130	< 0.5	12	2.08	< 0.5	15	113	4020	2.40	10	< 1	0.59	60	0.90	160	1195
575448H	299	229	2.4	1.23	2	130	< 0.5	6	3.61	< 0.5	9	97	4710	1.54	10	< 1	0.60	70	0.93	195	1190
575449H	299	229	2.2	1.63	10	190	< 0.5	12	3.68	< 0.5	11	34	4380	2.33	10	< 1	0.76	30	1.45	205	464
575450H	299	229	3.8	1.43	4	70	< 0.5	2	2.52	< 0.5	8	91	6600	1.87	10	< 1	0.46	30	0.86	150	615
575501H	299	229	2.4	1.97	32	140	< 0.5	4	2.32	< 0.5	14	91	6570	2.43	10	< 1	0.60	30	1.41	195	591
575502H	299	229	2.0	1.33	20	270	< 0.5	18	2.16	< 0.5	10	67	6060	2.13	10	< 1	0.47	30	1.22	180	285
575503H	299	229	2.0	1.08	26	40	< 0.5	< 2	2.77	< 0.5	10	49	4250	2.02	< 10	< 1	0.20	30	1.08	245	289
575504H	299	229	3.0	0.79	24	180	< 0.5	8	2.03	< 0.5	13	40	5680	1.84	< 10	< 1	0.15	30	0.80	175	129
575505H	299	229	2.4	1.27	20	240	0.5	6	2.17	< 0.5	13	55	4800	2.61	< 10	< 1	0.19	30	0.82	255	168
575506H	299	229	0.4	2.09	16	400	0.5	2	1.61	< 0.5	11	81	1170	3.01	< 10	< 1	0.62	20	1.15	155	8
575507H	299	229	1.2	1.81	18	170	0.5	< 2	1.72	< 0.5	11	57	2060	2.93	< 10	< 1	0.39	20	0.93	190	12
575508H	299	229	1.4	1.19	22	90	< 0.5	< 2	2.41	< 0.5	8	66	4050	1.97	< 10	< 1	0.23	30	0.86	220	174
575509H	299	229	1.6	0.58	4	160	< 0.5	2	2.00	< 0.5	12	52	3000	1.81	< 10	< 1	0.18	30	0.67	175	218
575510H	299	229	0.8	1.80	14	140	0.5	< 2	1.36	< 0.5	10	64	1445	3.53	< 10	1	0.42	20	0.97	155	127
575511H	299	229	0.4	1.52	14	570	0.5	< 2	1.23	< 0.5	9	58	893	2.78	< 10	< 1	0.51	20	1.06	135	43
575512H	299	229	2.2	0.93	48	220	< 0.5	< 2	2.13	< 0.5	11	84	4510	1.88	< 10	< 1	0.15	60	0.75	190	703
575513H	299	229	2.2	0.78	28	290	< 0.5	2	1.58	< 0.5	12	46	4910	1.98	10	< 1	0.07	60	0.58	190	435

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Page N :3-B
Total Pa :4
Certificate Date: 10-SEP-93
Invoice No. :19320571
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320571

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575424H	299	229	0.01	5	370	6	8	2	16	< 0.01	< 10	< 10	12	10	14
575425H	299	229	< 0.01	5	610	8	4	6	10	< 0.01	< 10	< 10	25	< 10	38
575426H	299	229	0.01	25	500	10	2	3	21	< 0.01	< 10	< 10	18	10	52
575427H	299	229	0.01	5	420	6	24	2	17	< 0.01	< 10	< 10	13	10	38
575428H	299	229	0.01	8	310	8	98	2	16	< 0.01	< 10	< 10	11	10	112
575429H	299	229	0.01	3	360	8	10	3	20	< 0.01	< 10	< 10	16	< 10	22
575430H	299	229	0.01	3	340	6	20	1	20	< 0.01	< 10	< 10	11	10	18
575431H	299	229	< 0.01	4	810	8	22	6	18	< 0.01	< 10	< 10	31	10	38
575432H	299	229	< 0.01	4	900	4	14	7	22	< 0.01	< 10	< 10	33	10	28
575433H	299	229	< 0.01	3	740	8	10	4	24	< 0.01	< 10	10	22	10	24
575434H	299	229	0.01	4	880	8	12	4	21	< 0.01	< 10	< 10	23	10	20
575435H	299	229	0.01	4	600	8	34	4	24	< 0.01	< 10	< 10	17	10	42
575436H	299	229	0.03	27	2260	20	6	9	53	0.02	< 10	< 10	39	30	86
575437H	299	229	< 0.01	5	780	4	16	6	17	< 0.01	< 10	< 10	27	10	20
575438H	299	229	0.01	11	630	16	8	4	51	< 0.01	< 10	< 10	26	20	78
575439H	299	229	< 0.01	3	390	8	8	3	18	< 0.01	< 10	< 10	16	< 10	14
575440H	299	229	0.01	6	650	6	24	4	20	< 0.01	< 10	< 10	17	10	32
575441H	299	229	< 0.01	6	300	34	14	2	12	< 0.01	< 10	< 10	8	20	44
575442H	299	229	0.01	5	280	44	12	3	16	< 0.01	< 10	< 10	12	30	58
575443H	299	229	0.01	7	490	10	16	7	20	< 0.01	< 10	< 10	26	10	34
575444H	299	229	< 0.01	9	480	12	32	5	19	< 0.01	< 10	20	25	10	32
575445H	299	229	0.01	9	660	4	30	12	18	< 0.01	< 10	50	53	10	22
575446H	299	229	0.01	8	1300	4	10	14	21	0.06	< 10	20	89	20	26
575447H	299	229	0.01	9	780	12	12	7	19	0.01	< 10	20	45	20	20
575448H	299	229	0.01	8	590	2	12	7	31	0.03	< 10	10	54	10	14
575449H	299	229	0.01	6	820	14	4	11	52	0.06	< 10	10	81	20	22
575450H	299	229	0.01	8	580	6	6	6	59	0.02	< 10	< 10	45	10	18
575501H	299	229	0.01	11	770	6	12	11	56	0.05	< 10	10	75	20	34
575502H	299	229	0.01	10	950	4	4	13	32	0.05	< 10	10	80	10	28
575503H	299	229	0.01	9	1140	4	6	12	30	< 0.01	< 10	20	66	10	40
575504H	299	229	< 0.01	11	980	6	2	17	24	< 0.01	< 10	< 10	58	10	24
575505H	299	229	0.01	10	1010	4	4	12	37	0.01	< 10	< 10	59	10	30
575506H	299	229	0.03	15	840	14	6	8	59	0.07	< 10	< 10	55	20	32
575507H	299	229	0.01	12	800	8	12	7	24	0.03	< 10	< 10	44	10	30
575508H	299	229	0.01	6	610	12	8	8	25	< 0.01	< 10	< 10	44	10	28
575509H	299	229	< 0.01	6	620	12	6	7	24	< 0.01	< 10	< 10	37	10	16
575510H	299	229	0.01	14	840	12	2	9	56	0.04	< 10	< 10	54	20	22
575511H	299	229	0.01	17	820	4	6	8	117	0.07	< 10	< 10	52	20	28
575512H	299	229	0.01	10	710	14	16	10	20	< 0.01	< 10	< 10	44	10	24
575513H	299	229	< 0.01	10	830	14	8	13	17	< 0.01	< 10	< 10	52	10	26

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 192
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-SEP-93
Invoice No. :I9320571
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320571

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575514H	299	229	2.4	1.01	194	90	0.5	< 2	2.42	0.5	11	91	3090	2.77	< 10	< 1	0.19	40	0.88	645	462
575515H	299	229	1.6	2.41	58	210	0.5	6	1.45	< 0.5	17	77	4570	4.31	< 10	< 1	0.65	30	1.51	345	346
575516H	299	229	0.8	1.11	36	260	< 0.5	2	1.27	< 0.5	8	80	1465	1.81	< 10	< 1	0.15	30	0.56	230	180
575517H	299	229	0.8	1.02	32	240	< 0.5	< 2	1.90	< 0.5	8	133	1520	2.08	< 10	< 1	0.19	40	0.75	385	231
575518H	299	229	12.0	1.22	128	180	< 0.5	< 2	1.95	2.5	9	112	3870	2.52	< 10	1	0.13	20	0.71	810	425
575519H	299	229	1.4	1.44	24	420	< 0.5	< 2	2.24	< 0.5	11	105	2380	1.87	< 10	< 1	0.09	30	0.81	395	325
575520H	299	229	1.8	1.23	48	160	< 0.5	< 2	2.61	< 0.5	8	104	2950	2.01	< 10	< 1	0.14	20	0.99	540	557
575521H	299	229	11.0	1.15	116	160	< 0.5	< 2	2.30	6.0	8	157	3280	2.10	< 10	< 1	0.14	30	0.89	590	424
575522H	299	229	17.6	0.78	494	30	< 0.5	2	2.25	8.5	9	162	2660	3.26	< 10	< 1	0.30	10	0.63	1230	262
575523H	299	229	3.0	1.29	184	120	0.5	2	2.53	1.0	9	133	2210	2.23	< 10	1	0.24	20	0.81	665	197
575524H	299	229	1.6	0.83	42	140	< 0.5	< 2	2.59	< 0.5	8	178	1925	1.74	< 10	< 1	0.28	30	0.89	310	592
575525H	299	229	2.0	1.25	74	230	0.5	< 2	3.31	< 0.5	9	145	2780	1.67	< 10	< 1	0.25	20	1.36	495	648
575526H	299	229	1.6	0.83	116	10	< 0.5	4	1.99	6.5	13	179	1770	6.57	< 10	1	0.29	10	0.85	360	461
575527H	299	229	3.6	0.82	136	70	0.5	< 2	2.19	1.5	8	162	3120	2.05	< 10	1	0.27	20	0.80	455	632
575528H	299	229	4.2	0.74	156	80	< 0.5	2	2.55	0.5	10	153	3410	1.93	< 10	< 1	0.22	20	1.01	445	445
575529H	299	229	1.6	0.54	70	190	< 0.5	< 2	2.42	< 0.5	10	40	3970	1.24	< 10	< 1	0.10	30	1.09	160	636
575530H	299	229	1.8	0.44	54	160	< 0.5	< 2	1.67	< 0.5	8	42	3250	1.12	< 10	< 1	0.10	30	0.68	140	560
575531H	299	229	1.8	0.55	66	200	< 0.5	< 2	2.30	< 0.5	6	34	3260	1.14	< 10	< 1	0.11	30	0.89	165	708
575532H	299	229	6.4	0.48	140	150	< 0.5	< 2	2.27	32.5	5	45	3860	1.40	< 10	< 1	0.15	20	0.82	830	833
575533H	299	229	1.8	0.66	42	380	< 0.5	< 2	1.56	< 0.5	4	42	2670	0.72	< 10	< 1	0.15	30	0.59	90	1005
575534H	299	229	1.8	0.60	36	470	< 0.5	< 2	1.53	< 0.5	6	33	3100	0.78	< 10	< 1	0.14	30	0.53	100	645
575535H	299	229	2.4	0.47	52	290	< 0.5	12	3.26	< 0.5	5	41	3940	1.36	< 10	< 1	0.16	30	1.04	310	510
575536H	299	229	1.0	0.53	18	450	< 0.5	< 2	2.47	< 0.5	5	44	2590	1.02	< 10	< 1	0.13	30	0.98	185	302
575537H	299	229	1.2	0.53	8	570	< 0.5	< 2	2.31	< 0.5	6	46	1850	0.83	< 10	< 1	0.13	30	0.72	145	630
575538H	299	229	1.2	1.10	12	450	0.5	< 2	3.00	< 0.5	7	35	1680	1.22	< 10	< 1	0.46	30	1.03	150	691
575539H	299	229	1.0	0.62	24	650	< 0.5	< 2	3.02	< 0.5	4	33	1125	0.70	< 10	< 1	0.13	20	0.79	260	1020
575540H	299	229	1.6	0.56	46	540	< 0.5	< 2	1.51	< 0.5	6	30	1390	0.64	< 10	< 1	0.13	30	0.47	110	1165
575541H	299	229	1.0	0.63	62	730	< 0.5	< 2	1.22	< 0.5	6	32	1525	0.65	< 10	< 1	0.11	30	0.51	115	544
575542H	299	229	1.4	0.64	44	880	< 0.5	< 2	1.07	< 0.5	3	38	1030	0.50	< 10	< 1	0.14	30	0.44	105	1440
575543H	299	229	1.2	0.67	52	290	< 0.5	2	1.97	< 0.5	7	33	1500	0.81	< 10	< 1	0.10	20	0.86	135	1130
575544H	299	229	1.0	0.61	28	640	< 0.5	< 2	2.19	< 0.5	4	31	872	0.75	< 10	< 1	0.11	30	0.83	170	838
575545H	299	229	1.2	0.60	30	630	< 0.5	< 2	1.55	< 0.5	2	54	674	0.70	< 10	< 1	0.20	30	0.54	195	1440
575546H	299	229	1.4	0.52	36	490	< 0.5	< 2	1.64	0.5	2	43	417	0.66	< 10	< 1	0.22	20	0.57	205	488

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 192
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N... :4-B
Total Pages :4
Certificate Date: 10-SEP-93
Invoice No. :19320571
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320571

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575514H	299	229	0.01	9	630	22	34	9	22	< 0.01	< 10	< 10	44	20	46
575515H	299	229	0.01	13	1160	12	28	17	23	0.06	< 10	< 10	135	20	44
575516H	299	229	< 0.01	6	650	10	6	12	14	< 0.01	< 10	10	44	10	24
575517H	299	229	0.01	8	460	10	8	8	19	< 0.01	< 10	20	36	10	24
575518H	299	229	< 0.01	9	1020	46	52	11	21	< 0.01	< 10	< 10	56	10	112
575519H	299	229	< 0.01	7	940	8	6	12	24	< 0.01	< 10	10	56	10	24
575520H	299	229	0.01	7	930	12	14	13	26	< 0.01	< 10	< 10	55	10	32
575521H	299	229	0.01	6	650	942	242	14	23	< 0.01	< 10	< 10	59	10	316
575522H	299	229	0.01	7	700	280	204	5	26	< 0.01	< 10	< 10	29	20	392
575523H	299	229	0.01	6	990	42	38	9	22	< 0.01	< 10	< 10	41	20	72
575524H	299	229	0.01	5	630	8	18	4	23	< 0.01	< 10	< 10	24	10	20
575525H	299	229	0.01	6	650	14	34	9	29	< 0.01	< 10	10	50	10	22
575526H	299	229	0.01	4	410	66	42	4	16	< 0.01	< 10	10	23	40	364
575527H	299	229	0.01	5	550	42	46	4	20	< 0.01	< 10	20	23	10	104
575528H	299	229	0.01	6	670	96	56	4	25	< 0.01	< 10	< 10	20	10	34
575529H	299	229	0.01	4	440	12	10	8	23	< 0.01	< 10	< 10	23	10	20
575530H	299	229	< 0.01	4	410	12	10	7	16	< 0.01	< 10	10	22	10	24
575531H	299	229	< 0.01	4	430	14	12	7	21	< 0.01	< 10	10	23	10	20
575532H	299	229	0.01	3	500	708	160	6	20	< 0.01	< 10	10	24	10	1585
575533H	299	229	0.01	2	500	20	18	6	19	< 0.01	< 10	10	21	< 10	48
575534H	299	229	< 0.01	5	560	22	16	7	19	< 0.01	< 10	10	22	< 10	76
575535H	299	229	0.01	3	620	22	18	4	25	< 0.01	< 10	10	17	10	56
575536H	299	229	0.01	3	450	18	6	6	23	< 0.01	< 10	< 10	26	< 10	30
575537H	299	229	0.01	2	370	14	12	4	24	< 0.01	< 10	20	20	< 10	26
575538H	299	229	0.01	3	470	8	6	10	35	0.04	< 10	< 10	57	10	18
575539H	299	229	0.01	1	700	14	16	6	28	< 0.01	< 10	10	24	< 10	18
575540H	299	229	< 0.01	1	440	34	26	2	21	< 0.01	< 10	10	14	10	34
575541H	299	229	< 0.01	1	460	22	28	2	22	< 0.01	< 10	10	11	< 10	26
575542H	299	229	< 0.01	< 1	460	28	28	2	26	< 0.01	< 10	10	13	< 10	46
575543H	299	229	< 0.01	< 1	580	20	18	6	25	< 0.01	< 10	10	18	10	40
575544H	299	229	< 0.01	1	460	20	14	7	29	< 0.01	< 10	50	21	< 10	44
575545H	299	229	0.01	< 1	520	22	22	3	48	< 0.01	< 10	10	22	< 10	46
575546H	299	229	0.01	1	860	64	18	1	53	< 0.01	< 10	130	11	< 10	142

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-SEP-93
Invoice No. : 19320771
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320771

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H573986	208 276	0.08	0.015	0.27	8000
H573987	208 274	0.06	0.010	0.27	5000
H573988	208 274	0.04	0.008	0.17	5900
H573989	208 273	0.06	0.015	0.27	12200
H573990	208 276	0.07	0.021	0.24	9000
H573991	208 273	0.17	0.025	0.21	12260
H573992	208 273	0.11	0.020	0.27	15540
H573993	208 273	0.23	0.016	0.24	15020
H573994	208 276	0.22	0.021	0.34	9250
H573995	208 276	0.16	0.014	1.17	10900
H573996	208 273	0.24	0.030	0.34	12700
H573997	208 273	0.20	0.019	0.24	12000
H573998	208 276	0.21	0.020	0.31	11600
H573999	208 273	0.25	0.041	0.27	11980
H574000	208 273	0.22	0.027	0.41	12100
H574001	208 276	0.23	0.075	0.38	10880
H574002	208 276	0.32	0.074	0.27	11460
H574003	208 276	0.15	0.019	0.17	11680
H574004	208 276	0.26	0.028	0.21	11700
H574005	208 276	0.18	0.022	0.24	11240
H574006	208 273	0.21	0.020	0.34	12380
H574007	208 273	0.15	0.028	0.14	12600
H574008	208 273	0.19	0.030	0.27	12280
H574009	208 273	0.19	0.017	0.45	12640
H574010	208 276	0.18	0.017	0.27	11660
H574011	208 273	0.19	0.017	0.38	13060
H574012	208 273	0.24	0.018	0.34	13160
H574013	208 273	0.25	0.023	0.38	12880
H574014	208 273	0.36	0.024	0.41	13200
H574015	208 273	0.25	0.029	0.21	12340
H574016	208 273	0.37	0.041	0.41	13180
H574017	208 273	0.40	0.042	0.41	13220
H574018	208 273	0.18	0.021	0.17	13080
H574019	208 273	0.49	0.052	0.58	13240
H574020	208 273	0.41	0.030	0.41	13280
H574021	208 273	0.28	0.060	0.38	13780
H574022	208 273	0.21	0.046	0.27	12340
H574023	208 273	0.11	0.069	0.31	12000
H574024	208 273	0.06	0.030	0.21	12500
H574025	208 273	0.32	0.023	0.31	13520

CERTIFICATION: _____

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Certificate Date: 16-SEP-93
Invoice No. : I9320771
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CERTIFICATE OF ANALYSIS A9320771

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574026	208	273	0.53	0.031	0.79	12460						
H574027	208	273	0.50	0.018	0.58	11880						
H574028	208	276	0.33	0.032	0.34	11520						
H574029	208	276	0.42	0.033	0.41	11600						
H574030	208	273	0.33	0.081	0.31	12420						
H574031	208	273	0.39	0.034	0.27	12940						
H574032	208	273	0.29	0.041	0.27	12000						
H574033	208	273	0.13	0.012	0.14	13340						
H574034	208	276	0.23	0.017	0.17	10900						
H574035	208	276	0.22	0.017	0.24	11600						
H574036	208	273	0.24	0.033	0.41	13100						
H574037	208	276	0.23	0.025	0.17	10200						
H574038	208	276	0.33	0.027	0.21	10900						
H574039	208	276	0.26	0.010	0.17	11780						
H574040	208	273	0.25	0.013	0.17	12920						
H574041	208	273	0.22	0.015	0.31	13300						
H574042	208	273	0.26	0.032	0.31	12780						
H574043	208	273	0.33	0.027	0.51	12820						
H574044	208	273	0.29	0.019	0.41	11940						
H574045	208	273	0.26	0.017	0.34	13000						
H574046	208	276	0.25	0.063	0.31	10860						
H574047	208	273	0.35	0.031	0.45	12520						
H574048	208	273	0.13	0.019	0.14	12840						
H574049	208	276	0.17	0.019	0.21	11580						
H574050	208	273	0.21	0.013	0.24	12460						
H574051	208	273	0.20	0.021	0.24	13200						
H574052	208	273	0.19	0.009	0.27	13280						
H574053	208	273	0.25	0.053	0.24	12120						
H574054	208	273	0.20	0.011	0.27	13780						
H574055	208	276	0.38	0.034	0.27	11400						
H574056	208	273	0.25	0.042	0.17	12720						
H574057	208	273	0.22	0.015	0.17	12720						
H574058	208	273	0.11	0.011	0.10	12980						
H574059	208	273	0.13	0.025	0.17	12500						
H574060	208	273	0.15	0.017	0.21	11820						
H574061	208	273	0.12	0.015	0.10	12060						
H574062	208	273	0.20	0.036	0.21	12860						
H574063	208	273	0.26	0.045	0.21	12100						
H574064	208	273	0.22	0.088	0.14	12520						
H574065	208	273	0.20	0.035	0.21	12760						

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-SEP-93
Invoice No. : I9320771
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320771

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574066	208	273	0.17	0.012	0.24	11920						
H574067	208	273	0.26	0.055	0.21	12400						
H574068	208	273	0.15	0.015	0.14	12160						
H574069	208	273	0.17	0.014	0.17	12160						
H574070	208	273	0.15	0.028	0.10	13280						
H574071	208	276	0.26	0.058	0.24	11650						
H574072	208	273	0.12	0.021	0.14	11900						
H574073	208	273	0.15	0.061	0.14	13080						
H574074	208	273	0.24	0.052	0.31	12280						
H574075	208	273	0.23	0.027	0.24	12580						
H574076	208	273	0.24	0.024	0.24	12850						
H574077	208	276	0.26	0.053	0.17	11800						
H574078	208	273	0.37	0.030	0.31	11850						
H574079	208	276	0.31	0.022	0.27	11550						
H574080	208	273	0.25	0.029	0.24	12560						
H574081	208	273	0.27	0.048	0.31	11980						
H574082	208	276	0.26	0.030	0.21	11780						
H574083	208	273	0.23	0.033	0.27	12300						
H574084	208	273	0.16	0.025	0.17	11840						
H574085	208	273	0.18	0.067	0.17	12340						
H574086	208	273	0.19	0.021	0.14	12140						
H574087	208	273	0.17	0.025	0.14	12180						
H574088	208	273	0.17	0.027	0.14	12260						
H574089	208	276	0.25	0.024	0.24	11700						
H574090	208	273	0.17	0.060	0.21	12660						
H574091	208	273	0.20	0.045	0.21	12100						
H574092	208	273	0.22	0.030	0.17	12740						
H574093	208	273	0.17	0.070	0.17	12820						
H574094	208	273	0.28	0.124	0.17	12240						
H574095	208	273	0.18	0.044	0.14	12820						
H574096	208	276	0.28	0.043	0.24	11620						
H574097	208	273	0.14	0.037	0.21	12640						
H574098	208	273	0.25	0.043	0.21	12120						
H574099	208	273	0.26	0.021	0.21	13120						
H574100	208	273	0.23	0.022	0.17	11820						
H574101	208	276	0.17	0.016	0.17	11300						
H574102	208	273	0.23	0.051	0.24	12080						
H574103	208	273	0.13	0.032	0.14	12580						
H574104	208	273	0.20	0.062	0.17	13060						
H574105	208	274	0.25	0.015	0.21	6660						

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-SEP-93
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CERTIFICATE OF ANALYSIS A9320771

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574106	208	274	0.16	0.042	0.17	2720						
H574107	208	276	0.18	0.020	0.27	7300						
H574108	208	274	0.20	0.037	0.14	6700						
H574109	208	274	0.18	0.015	0.17	6720						
H574110	208	276	0.17	0.065	0.21	7280						
H574111	208	274	0.25	0.027	0.24	6400						
H574112	208	274	0.29	0.040	0.38	7020						
H574113	208	274	0.25	0.059	0.41	6920						
H574114	208	274	0.21	0.021	0.31	6620						
H574115	208	276	0.18	0.020	0.21	7780						
H574116	208	274	0.16	0.081	0.24	7260						
H574117	208	276	0.22	0.023	0.34	7900						
H574118	208	276	0.17	0.046	0.27	7520						
H574119	208	276	0.16	0.011	0.24	7800						
H574120	208	274	0.20	0.026	0.24	6900						
H574121	208	274	0.23	0.033	0.31	6620						
H574122	208	274	0.28	0.055	0.31	6960						
H574123	208	276	0.21	0.033	0.31	7520						
H574124	208	274	0.22	0.054	0.34	7100						
H574125	208	276	0.28	0.085	0.34	7280						
H574126	208	274	0.18	0.033	0.27	6560						
H574127	208	274	0.24	0.025	0.24	6900						
H574128	208	274	0.24	0.028	0.34	7180						
H574129	208	276	0.14	0.139	0.17	7500						
H574130	208	274	0.30	0.045	0.31	7160						
H574131	208	274	0.27	0.013	0.34	7200						
H574132	208	274	0.38	0.031	0.41	7120						
H574133	208	274	0.23	0.026	0.38	7000						
H574134	208	274	0.24	0.017	0.31	7120						
H574135	208	274	0.19	0.013	0.27	6460						
H574136	208	274	0.19	0.005	0.21	7200						
H574137	208	274	0.16	0.024	0.21	7100						
H574138	208	276	0.18	0.013	0.24	7360						
H574139	208	274	0.20	0.016	0.27	7240						
H574140	208	276	0.16	0.010	0.14	7420						
H574141	208	274	0.20	0.019	0.27	6780						
H574142	208	276	0.31	0.016	0.31	7360						
H574143	208	274	0.24	0.022	0.24	7020						
H574144	208	274	0.21	0.058	0.17	7080						
H574145	208	274	0.21	0.018	0.17	6700						

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CERTIFICATE OF ANALYSIS A9320771

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H574146	208 274	0.23	0.026	0.31	7050
H574147	208 276	0.15	0.046	0.14	7500
H574148	208 274	0.25	0.020	0.27	7060
H574149	208 274	0.32	0.024	0.41	6800
H574150	208 274	0.26	0.014	0.27	6940
H574151	208 276	0.16	0.017	0.10	7420
H574152	208 276	0.16	0.007	0.21	7680
H574153	208 274	0.14	0.014	0.10	7040
H574154	208 274	0.24	0.020	0.24	7240
H574155	208 276	0.15	0.019	0.14	7580
H574156	208 276	0.28	0.034	0.21	7860
H574157	208 274	0.40	0.030	0.41	6920
H574158	208 274	0.32	0.041	0.31	6950
H574159	208 274	0.23	0.022	0.27	7120
H574160	208 274	0.20	0.018	0.17	7000
H574161	208 274	0.16	0.020	0.14	6620
H574162	208 274	0.18	0.010	0.17	5220
H574163	208 274	0.15	0.096	0.21	5860
H574164	208 274	0.29	0.039	0.34	5100
H574165	208 274	0.16	0.011	0.21	5600
H574166	208 274	0.21	0.033	0.21	5760
H574167	208 274	0.23	0.042	0.24	5560
H574168	208 274	0.21	0.033	0.27	5460
H574169	208 274	0.19	0.008	0.21	5720
H574170	208 274	0.19	0.023	0.24	6920
H574171	208 274	0.15	0.021	0.24	7020
H574172	208 274	0.19	0.014	0.17	6920
H574173	208 276	0.14	0.032	0.14	7460
H574174	208 276	0.23	0.023	0.21	7740
H574175	208 274	0.36	0.057	0.34	6280
H574176	208 276	0.25	0.054	0.24	7520
H574177	208 274	0.27	0.042	0.27	7140
H574178	208 274	0.19	0.010	0.24	7240
H574179	208 274	0.21	0.025	0.24	6780
H574180	208 274	0.18	0.013	0.14	6960
H574181	208 274	0.11	0.011	0.10	6540
H574182	208 274	0.12	0.006	0.10	7200
H574183	208 274	0.11	0.009	0.10	6620
H574184	208 274	0.16	0.010	0.14	7000
H574185	208 274	0.26	0.012	0.31	6960

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CERTIFICATE OF ANALYSIS A9320771

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574186	208	274	0.30	0.086	0.34	7260						
H574187	208	274	0.23	0.023	0.27	6500						
H574188	208	276	0.16	0.007	0.24	7280						
H574189	208	274	0.28	0.010	0.24	6800						
H574190	208	274	0.21	0.017	0.17	7120						
H574191	208	276	0.27	0.012	0.24	7320						
H574192	208	274	0.18	0.016	0.17	6500						
H574193	208	276	0.18	0.013	0.21	7660						
H574194	208	276	0.17	0.011	0.10	7420						
H574195	208	276	0.21	0.013	1.14	7500						
H574196	208	274	0.16	0.023	0.14	7220						
H574197	208	274	0.17	0.016	0.24	3600						

CERTIFICATION: _____

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Project : CASINO 193
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P.O. Number :
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CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H573986	299	229	1.6	1.42	2	340	1.0	2	0.14	< 0.5	3	112	916	2.34	< 10	< 1	0.70	30	0.48	75	105
H573987	299	229	1.2	1.04	4	330	0.5	4	0.10	< 0.5	3	74	620	2.30	< 10	< 1	0.62	20	0.28	60	60
H573988	299	229	0.8	0.63	4	240	< 0.5	2	0.04	< 0.5	2	69	399	2.01	< 10	< 1	0.50	20	0.14	30	48
H573989	299	229	1.2	1.26	4	220	< 0.5	< 2	0.06	< 0.5	4	156	585	2.38	< 10	< 1	0.64	20	0.30	50	92
H573990	299	229	1.2	0.87	6	320	0.5	2	0.04	< 0.5	6	58	720	2.36	< 10	< 1	0.55	20	0.27	55	138
H573991	299	229	0.8	1.28	6	210	1.0	< 2	0.63	< 0.5	14	55	1715	2.95	10	< 1	0.50	30	0.62	125	157
H573992	299	229	1.8	0.96	4	170	0.5	2	0.26	< 0.5	8	99	1030	3.49	< 10	< 1	0.62	20	0.28	80	115
H573993	299	229	1.2	1.31	4	240	0.5	< 2	0.97	< 0.5	12	61	2250	2.54	< 10	< 1	0.42	20	0.66	210	101
H573994	299	229	1.6	1.04	14	150	0.5	6	0.94	< 0.5	18	159	2130	2.59	< 10	< 1	0.52	20	0.31	120	117
H573995	299	229	2.2	0.67	2	80	0.5	< 2	1.32	< 0.5	16	79	1585	3.39	< 10	< 1	0.35	10	0.29	575	84
H573996	299	229	3.0	1.11	< 2	120	0.5	< 2	1.08	< 0.5	13	115	2320	2.61	10	< 1	0.40	30	0.50	505	183
H573997	299	229	1.0	1.47	2	110	0.5	< 2	0.62	< 0.5	13	113	1920	2.59	< 10	< 1	0.52	20	0.68	200	113
H573998	299	229	1.4	1.23	8	290	0.5	< 2	1.05	< 0.5	14	116	2070	2.13	< 10	< 1	0.57	20	0.67	210	131
H573999	299	229	2.0	1.01	18	100	0.5	< 2	0.91	< 0.5	17	136	2570	3.00	< 10	< 1	0.46	20	0.48	175	244
H574000	299	229	1.6	1.19	6	180	0.5	< 2	0.56	< 0.5	19	107	2120	2.14	< 10	< 1	0.44	20	0.57	375	151
H574001	299	229	2.0	1.13	12	110	0.5	4	0.42	< 0.5	15	101	2160	2.56	< 10	< 1	0.42	30	0.42	160	429
H574002	299	229	2.8	1.03	12	100	< 0.5	4	0.30	< 0.5	14	114	3020	2.88	10	< 1	0.40	30	0.19	120	411
H574003	299	229	1.2	1.04	2	100	0.5	< 2	0.18	< 0.5	15	126	1465	4.18	< 10	< 1	0.45	20	0.22	85	101
H574004	299	229	1.6	1.24	8	150	0.5	2	0.47	< 0.5	19	112	2640	3.03	< 10	< 1	0.56	20	0.34	230	159
H574005	299	229	1.2	1.49	< 2	200	0.5	< 2	0.56	< 0.5	11	114	1745	2.70	10	< 1	0.76	30	0.97	280	122
H574006	299	229	1.4	1.05	< 2	130	0.5	< 2	0.51	< 0.5	16	121	1985	2.50	< 10	< 1	0.49	20	0.52	220	113
H574007	299	229	1.2	1.27	4	190	0.5	< 2	0.67	< 0.5	16	111	1490	2.56	10	< 1	0.63	20	0.84	235	160
H574008	299	229	1.8	0.60	12	90	0.5	< 2	0.78	< 0.5	13	98	1915	2.10	< 10	< 1	0.36	20	0.20	375	186
H574009	299	229	2.0	0.82	20	70	0.5	6	0.50	< 0.5	11	104	1945	2.92	< 10	< 1	0.36	20	0.18	170	95
H574010	299	229	1.4	0.97	< 2	70	0.5	< 2	0.86	< 0.5	12	144	1780	2.64	10	< 1	0.38	20	0.23	440	96
H574011	299	229	1.6	1.28	8	60	1.0	2	0.44	< 0.5	12	123	1935	2.98	< 10	< 1	0.39	20	0.39	415	94
H574012	299	229	2.4	0.83	6	70	0.5	< 2	0.72	< 0.5	13	109	2460	3.33	< 10	< 1	0.33	10	0.23	510	99
H574013	299	229	1.8	1.08	4	80	0.5	2	0.49	0.5	10	152	2400	2.73	< 10	< 1	0.39	20	0.11	130	117
H574014	299	229	2.4	0.92	< 2	60	0.5	< 2	0.41	0.5	14	63	3570	2.65	< 10	< 1	0.32	20	0.12	250	135
H574015	299	229	1.4	1.01	6	100	0.5	< 2	0.22	< 0.5	16	170	2530	3.51	< 10	< 1	0.41	10	0.08	40	171
H574016	299	229	2.4	0.91	2	90	0.5	< 2	0.13	< 0.5	12	128	3490	1.96	< 10	< 1	0.33	20	0.07	30	245
H574017	299	229	2.8	1.06	18	90	0.5	< 2	0.29	< 0.5	15	149	3840	2.65	< 10	< 1	0.44	20	0.09	35	239
H574018	299	229	1.0	0.89	10	70	< 0.5	< 2	0.12	< 0.5	10	215	1775	1.57	< 10	< 1	0.43	20	0.05	20	129
H574019	299	229	4.4	1.02	22	120	0.5	2	0.20	< 0.5	14	176	5060	3.01	< 10	< 1	0.45	40	0.12	250	309
H574020	299	229	2.8	0.99	8	80	0.5	< 2	0.54	< 0.5	16	153	4200	2.48	< 10	< 1	0.44	30	0.12	120	184
H574021	299	229	2.4	0.91	6	80	0.5	< 2	0.81	0.5	18	188	2810	2.01	< 10	< 1	0.43	20	0.07	165	371
H574022	299	229	3.6	0.78	10	70	0.5	6	0.19	< 0.5	13	199	2070	2.08	< 10	< 1	0.42	10	0.06	30	283
H574023	299	229	5.4	0.94	14	100	0.5	< 2	0.20	< 0.5	8	158	1095	2.94	< 10	< 1	0.44	20	0.06	80	409
H574024	299	229	2.0	0.71	20	60	0.5	2	0.15	< 0.5	9	180	622	3.09	< 10	< 1	0.42	10	0.03	15	183
H574025	299	229	3.2	0.96	12	80	0.5	4	0.15	< 0.5	13	183	3270	2.47	< 10	< 1	0.52	10	0.08	20	140

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CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H573986	299	229	0.04	1	390	16	2	4	22	0.01	< 10	< 10	31	< 10	30
H573987	299	229	0.03	2	320	22	< 2	2	19	< 0.01	< 10	< 10	18	< 10	24
H573988	299	229	0.03	1	280	14	< 2	1	15	< 0.01	< 10	< 10	12	< 10	16
H573989	299	229	0.03	3	260	18	< 2	3	24	< 0.01	< 10	< 10	23	< 10	22
H573990	299	229	0.03	2	390	16	4	2	23	< 0.01	< 10	< 10	21	< 10	22
H573991	299	229	0.03	5	530	14	< 2	3	24	0.01	< 10	< 10	28	10	40
H573992	299	229	0.06	2	410	16	2	2	33	< 0.01	< 10	< 10	22	10	24
H573993	299	229	0.03	3	360	6	< 2	3	30	0.01	< 10	< 10	29	10	42
H573994	299	229	0.04	4	300	18	4	2	21	< 0.01	< 10	< 10	17	10	24
H573995	299	229	0.03	3	330	18	2	1	28	< 0.01	< 10	< 10	9	10	22
H573996	299	229	0.01	2	310	22	4	3	15	< 0.01	< 10	10	23	10	38
H573997	299	229	0.03	4	340	14	< 2	3	15	< 0.01	< 10	< 10	29	10	34
H573998	299	229	0.02	3	360	14	< 2	4	23	0.01	< 10	10	31	10	28
H573999	299	229	0.01	4	350	20	4	2	14	< 0.01	< 10	< 10	15	10	34
H574000	299	229	0.01	4	380	12	2	3	12	< 0.01	< 10	10	23	10	48
H574001	299	229	0.01	3	360	18	4	3	10	< 0.01	< 10	< 10	25	10	32
H574002	299	229	0.01	3	450	16	6	2	23	< 0.01	< 10	10	18	10	36
H574003	299	229	0.01	4	450	12	2	2	8	< 0.01	< 10	< 10	22	10	32
H574004	299	229	0.01	4	520	8	2	2	14	< 0.01	< 10	< 10	23	10	32
H574005	299	229	0.03	3	410	12	< 2	6	16	0.04	< 10	< 10	47	10	44
H574006	299	229	0.03	4	440	8	< 2	2	15	0.01	< 10	< 10	24	< 10	36
H574007	299	229	0.03	11	520	8	2	3	22	0.05	< 10	< 10	32	< 10	40
H574008	299	229	0.01	3	310	10	4	1	16	< 0.01	< 10	< 10	14	< 10	20
H574009	299	229	0.01	4	380	18	4	2	29	< 0.01	< 10	< 10	13	< 10	28
H574010	299	229	0.01	3	430	12	< 2	3	12	< 0.01	< 10	< 10	21	10	50
H574011	299	229	0.01	4	430	12	4	3	9	< 0.01	< 10	10	28	10	46
H574012	299	229	0.01	4	470	14	4	1	9	< 0.01	< 10	< 10	15	10	48
H574013	299	229	0.01	4	430	18	< 2	3	15	< 0.01	< 10	10	22	10	36
H574014	299	229	0.01	5	490	16	2	3	18	< 0.01	< 10	< 10	19	10	50
H574015	299	229	0.01	5	560	12	< 2	1	16	< 0.01	< 10	< 10	20	10	24
H574016	299	229	0.01	4	410	12	2	2	14	< 0.01	< 10	10	16	10	22
H574017	299	229	0.01	6	420	18	4	2	18	< 0.01	< 10	10	14	10	30
H574018	299	229	0.01	4	400	8	2	1	12	< 0.01	< 10	< 10	12	< 10	6
H574019	299	229	0.01	6	470	30	2	2	12	< 0.01	< 10	< 10	20	10	32
H574020	299	229	0.01	6	590	14	2	2	18	< 0.01	< 10	< 10	13	10	22
H574021	299	229	0.01	4	530	12	4	1	18	< 0.01	< 10	10	12	10	22
H574022	299	229	0.01	6	290	10	2	1	18	< 0.01	< 10	< 10	12	< 10	6
H574023	299	229	0.01	3	370	22	6	1	25	< 0.01	< 10	< 10	14	< 10	20
H574024	299	229	0.01	3	180	18	4	1	24	< 0.01	< 10	< 10	9	< 10	2
H574025	299	229	0.01	4	250	18	2	1	21	< 0.01	< 10	< 10	11	< 10	6

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
Comments: CC: PACIFIC SENTINEL GOLD CORP.

P. ...mber :2-A
Total Pages :6
Certificate Date: 20-SEP-93
Invoice No. :I9320772
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
B574026	299	229	4.6	1.44	2	160	0.5	< 2	0.25	< 0.5	11	135	5520	1.54	10	< 1	0.53	30	0.11	30	192
B574027	299	229	3.4	1.45	8	140	0.5	< 2	0.19	< 0.5	13	87	5060	2.10	< 10	< 1	0.41	20	0.23	85	112
B574028	299	229	2.2	1.71	12	110	0.5	4	0.16	< 0.5	13	113	3300	2.07	< 10	< 1	0.42	20	0.26	40	197
B574029	299	229	2.2	1.07	2	80	0.5	< 2	0.13	< 0.5	20	75	4430	2.76	< 10	< 1	0.33	20	0.10	15	211
B574030	299	229	2.0	0.93	18	70	0.5	< 2	0.08	< 0.5	20	124	3370	2.19	< 10	< 1	0.29	10	0.05	15	498
B574031	299	229	2.0	1.25	26	70	0.5	2	0.10	< 0.5	22	150	4150	3.81	< 10	< 1	0.36	10	0.07	15	230
B574032	299	229	2.2	1.23	6	90	0.5	< 2	0.16	< 0.5	16	99	3010	1.72	< 10	< 1	0.36	20	0.24	45	262
B574033	299	229	0.8	0.87	2	150	1.0	< 2	0.37	< 0.5	25	108	1290	3.45	< 10	< 1	0.32	20	0.26	360	70
B574034	299	229	1.2	1.53	4	150	0.5	< 2	0.26	< 0.5	21	108	2270	2.93	< 10	< 1	0.47	30	0.48	205	99
B574035	299	229	1.0	1.57	2	100	0.5	2	0.27	< 0.5	19	130	2250	3.10	< 10	< 1	0.51	20	0.48	195	105
B574036	299	229	1.4	1.01	8	90	0.5	< 2	0.66	< 0.5	17	91	2450	2.81	< 10	< 1	0.39	20	0.41	205	210
B574037	299	229	1.4	2.02	6	120	0.5	< 2	0.25	< 0.5	22	90	2360	3.07	< 10	< 1	0.55	20	0.45	115	152
B574038	299	229	1.6	1.75	12	90	1.0	< 2	0.15	< 0.5	29	97	3400	3.26	< 10	< 1	0.54	20	0.37	65	167
B574039	299	229	1.2	1.69	12	70	0.5	2	0.12	< 0.5	23	138	2520	2.77	< 10	< 1	0.34	20	0.20	25	61
B574040	299	229	1.4	1.66	< 2	80	0.5	< 2	0.13	< 0.5	27	100	2590	3.75	< 10	< 1	0.50	10	0.35	55	75
B574041	299	229	0.8	1.38	4	100	0.5	< 2	0.20	< 0.5	23	123	2180	3.42	< 10	< 1	0.62	10	0.55	225	91
B574042	299	229	1.6	1.22	8	70	0.5	< 2	0.32	< 0.5	16	89	2550	3.15	< 10	< 1	0.58	10	0.56	135	192
B574043	299	229	1.4	1.25	14	70	0.5	< 2	0.12	< 0.5	21	126	3200	3.15	< 10	< 1	0.49	20	0.29	55	163
B574044	299	229	1.8	1.10	8	80	0.5	2	0.22	< 0.5	24	91	2940	3.23	< 10	< 1	0.37	20	0.31	215	107
B574045	299	229	1.8	1.06	4	70	0.5	2	0.55	< 0.5	15	119	2570	3.26	< 10	< 1	0.54	10	0.49	200	90
B574046	299	229	1.4	1.18	2	230	0.5	< 2	0.91	< 0.5	13	82	2240	2.16	10	< 1	0.46	30	0.67	155	361
B574047	299	229	2.0	1.75	12	100	1.0	< 2	0.70	< 0.5	22	82	3400	3.20	10	< 1	0.71	20	0.88	265	186
B574048	299	229	0.6	0.81	10	40	0.5	< 2	0.46	< 0.5	13	157	1215	4.63	< 10	< 1	0.37	10	0.23	180	108
B574049	299	229	1.0	1.06	< 2	90	0.5	< 2	0.73	< 0.5	20	100	1660	2.70	< 10	< 1	0.40	20	0.47	155	108
B574050	299	229	1.2	0.98	4	120	0.5	2	1.06	< 0.5	14	74	1850	2.50	< 10	< 1	0.45	20	0.63	115	67
B574051	299	229	1.4	1.22	6	90	1.0	< 2	1.03	< 0.5	17	135	2070	3.05	< 10	< 1	0.59	20	0.69	105	124
B574052	299	229	1.0	1.07	8	80	0.5	2	0.56	< 0.5	19	104	1670	3.32	10	< 1	0.47	30	0.58	175	48
B574053	299	229	1.6	0.91	12	90	1.0	< 2	1.14	< 0.5	14	105	2370	3.30	< 10	< 1	0.34	20	0.47	155	296
B574054	299	229	1.0	1.42	4	100	1.0	< 2	1.03	< 0.5	13	123	1790	2.54	< 10	< 1	0.58	20	0.68	100	55
B574055	299	229	2.6	1.23	4	120	0.5	< 2	0.39	< 0.5	20	129	3590	2.63	< 10	< 1	0.45	30	0.34	135	199
B574056	299	229	1.6	1.06	8	90	0.5	< 2	0.20	< 0.5	13	170	2320	2.51	< 10	< 1	0.41	20	0.17	110	272
B574057	299	229	1.2	1.10	< 2	90	1.0	2	1.15	< 0.5	9	86	2060	2.39	< 10	< 1	0.38	20	0.68	125	84
B574058	299	229	0.6	1.05	< 2	60	1.0	< 2	1.13	< 0.5	11	129	1030	2.97	< 10	< 1	0.41	20	0.59	140	67
B574059	299	229	0.8	0.63	10	30	1.0	2	0.62	< 0.5	21	118	1225	3.85	< 10	< 1	0.35	10	0.27	105	134
B574060	299	229	0.6	0.89	6	140	0.5	< 2	0.55	< 0.5	12	115	1360	1.70	< 10	< 1	0.34	10	0.33	85	100
B574061	299	229	0.6	0.87	2	100	0.5	< 2	0.54	< 0.5	13	114	1200	2.01	< 10	< 1	0.29	10	0.32	125	84
B574062	299	229	1.2	0.86	2	100	1.0	2	0.76	< 0.5	15	143	1940	2.70	< 10	< 1	0.39	20	0.54	115	234
B574063	299	229	1.4	0.81	< 2	80	0.5	< 2	1.00	< 0.5	10	142	2520	2.15	< 10	< 1	0.30	20	0.38	125	279
B574064	299	229	1.4	0.65	< 2	90	0.5	< 2	0.84	< 0.5	12	60	2120	2.65	< 10	< 1	0.27	30	0.38	100	532
B574065	299	229	0.8	1.45	< 2	140	0.5	< 2	1.16	< 0.5	20	163	1945	2.68	< 10	< 1	0.63	20	0.80	100	203

CERTIFICATION:

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o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
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Certificate Date: 20-SEP-93
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CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B574026	299	229	0.01	5	870	6	2	2	17	< 0.01	< 10	< 10	18	10	16
B574027	299	229	0.01	4	450	6	2	2	12	< 0.01	< 10	10	24	10	26
B574028	299	229	0.01	5	630	12	4	3	17	0.01	< 10	10	29	< 10	16
B574029	299	229	0.01	6	660	8	< 2	2	11	< 0.01	< 10	< 10	14	10	12
B574030	299	229	0.01	4	540	8	4	1	8	< 0.01	< 10	< 10	12	10	8
B574031	299	229	0.01	7	510	18	2	2	12	< 0.01	< 10	10	16	< 10	10
B574032	299	229	0.01	4	410	12	2	4	11	< 0.01	< 10	10	29	10	16
B574033	299	229	0.01	3	350	6	2	1	12	< 0.01	< 10	< 10	13	< 10	44
B574034	299	229	0.02	5	430	8	< 2	4	7	0.01	< 10	10	31	< 10	32
B574035	299	229	0.02	5	390	18	< 2	4	19	0.01	< 10	< 10	31	< 10	32
B574036	299	229	0.03	4	410	8	4	2	27	< 0.01	< 10	< 10	22	< 10	20
B574037	299	229	0.01	9	650	6	2	2	11	0.01	< 10	< 10	26	< 10	26
B574038	299	229	0.01	8	580	12	< 2	4	15	0.01	< 10	10	31	< 10	18
B574039	299	229	0.01	6	530	8	2	4	10	< 0.01	< 10	< 10	27	< 10	10
B574040	299	229	0.01	6	470	12	< 2	4	8	0.01	< 10	< 10	32	< 10	16
B574041	299	229	0.03	3	440	12	< 2	4	14	0.02	< 10	< 10	34	< 10	30
B574042	299	229	0.02	4	410	8	2	4	21	0.02	< 10	10	34	< 10	20
B574043	299	229	0.01	6	450	6	6	3	9	0.01	< 10	< 10	28	< 10	16
B574044	299	229	0.01	6	470	12	4	3	8	< 0.01	< 10	< 10	29	< 10	26
B574045	299	229	0.03	4	360	6	2	4	34	0.01	< 10	< 10	34	< 10	28
B574046	299	229	0.02	3	350	16	4	5	14	0.02	< 10	< 10	39	< 10	20
B574047	299	229	0.01	8	610	6	4	6	12	0.03	< 10	< 10	46	< 10	34
B574048	299	229	0.01	5	330	16	2	3	7	< 0.01	< 10	< 10	15	< 10	16
B574049	299	229	0.01	4	450	14	< 2	4	12	< 0.01	< 10	< 10	26	< 10	16
B574050	299	229	0.02	2	370	6	< 2	3	20	0.01	< 10	< 10	28	< 10	14
B574051	299	229	0.03	4	390	16	4	4	20	0.02	< 10	< 10	33	< 10	30
B574052	299	229	0.04	4	410	16	2	4	20	0.02	< 10	< 10	34	< 10	30
B574053	299	229	0.01	5	350	6	2	3	14	< 0.01	< 10	< 10	19	< 10	16
B574054	299	229	0.03	4	460	8	< 2	4	20	0.02	< 10	10	34	< 10	12
B574055	299	229	0.01	5	380	16	2	3	9	0.01	< 10	< 10	26	< 10	18
B574056	299	229	0.01	5	400	6	4	3	12	< 0.01	< 10	< 10	19	< 10	18
B574057	299	229	0.02	7	630	10	< 2	3	27	< 0.01	< 10	10	25	< 10	18
B574058	299	229	0.02	7	790	6	2	2	30	< 0.01	< 10	< 10	21	< 10	16
B574059	299	229	0.01	6	270	10	2	1	13	< 0.01	< 10	< 10	13	< 10	8
B574060	299	229	0.01	3	270	6	< 2	2	12	< 0.01	< 10	10	18	< 10	16
B574061	299	229	0.01	4	330	8	2	3	10	< 0.01	< 10	< 10	20	< 10	14
B574062	299	229	0.01	4	410	12	4	6	11	0.02	< 10	< 10	35	< 10	14
B574063	299	229	0.01	4	400	4	2	6	12	< 0.01	< 10	< 10	24	< 10	8
B574064	299	229	0.01	3	370	12	4	6	15	0.01	< 10	< 10	25	< 10	10
B574065	299	229	0.02	4	390	6	4	6	32	0.03	< 10	10	42	< 10	14

CERTIFICATION: _____

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574066	299	229	0.8	1.59	2	150	0.5	< 2	1.00	< 0.5	19	155	1745	2.19	10	< 1	0.53	30	0.70	100	73
H574067	299	229	1.6	1.39	< 2	120	0.5	< 2	1.10	< 0.5	17	169	2680	2.60	10	< 1	0.54	30	0.62	100	345
H574068	299	229	0.8	0.92	< 2	90	0.5	< 2	1.08	< 0.5	14	124	1470	2.59	< 10	< 1	0.49	10	0.58	90	82
H574069	299	229	0.8	1.21	< 2	220	0.5	2	1.20	< 0.5	11	50	1595	1.73	< 10	< 1	0.62	20	0.91	95	86
H574070	299	229	0.8	1.11	< 2	80	1.0	< 2	0.92	< 0.5	10	128	1570	2.79	< 10	< 1	0.47	10	0.61	85	129
H574071	299	229	1.6	0.46	< 2	90	0.5	< 2	0.81	< 0.5	7	124	2830	1.70	< 10	< 1	0.25	20	0.29	115	376
H574072	299	229	0.8	1.11	< 2	70	0.5	< 2	0.57	< 0.5	11	158	1365	3.23	< 10	< 1	0.47	20	0.51	105	128
H574073	299	229	1.2	0.46	< 2	60	0.5	< 2	0.53	< 0.5	11	111	1725	2.68	< 10	< 1	0.21	20	0.24	125	355
H574074	299	229	1.8	0.88	< 2	80	0.5	2	0.54	< 0.5	11	138	2650	2.29	10	< 1	0.22	40	0.18	140	310
H574075	299	229	1.4	0.79	2	80	0.5	< 2	0.34	< 0.5	14	79	2440	2.47	< 10	< 1	0.37	10	0.46	85	147
H574076	299	229	1.4	0.84	< 2	70	0.5	2	0.32	< 0.5	18	171	2620	2.42	< 10	< 1	0.26	20	0.13	80	138
H574077	299	229	1.4	0.38	2	40	0.5	< 2	0.14	< 0.5	14	127	2870	3.12	< 10	< 1	0.19	20	0.08	25	329
H574078	299	229	2.0	0.71	2	100	0.5	< 2	0.15	< 0.5	11	152	3780	1.65	< 10	< 1	0.23	20	0.06	20	188
H574079	299	229	2.2	0.75	4	80	0.5	< 2	0.22	< 0.5	20	77	3220	2.68	< 10	< 1	0.26	30	0.30	75	140
H574080	299	229	1.6	0.87	4	50	1.0	2	0.15	< 0.5	19	155	2520	3.42	< 10	< 1	0.32	20	0.11	45	196
H574081	299	229	1.6	0.66	< 2	30	1.0	< 2	0.23	< 0.5	32	102	2900	4.20	< 10	< 1	0.19	20	0.10	70	276
H574082	299	229	1.6	0.43	< 2	90	0.5	< 2	0.16	< 0.5	19	125	2830	2.53	< 10	< 1	0.15	20	0.07	50	198
H574083	299	229	1.4	0.89	4	90	0.5	2	0.22	< 0.5	14	125	2360	2.46	10	< 1	0.29	40	0.14	60	212
H574084	299	229	1.2	0.80	4	70	1.0	< 2	0.17	< 0.5	16	144	1645	2.82	< 10	< 1	0.17	30	0.11	40	142
H574085	299	229	1.4	0.42	52	30	1.0	< 2	0.26	< 0.5	13	97	1840	3.92	< 10	< 1	0.10	20	0.08	55	405
H574086	299	229	1.2	1.23	< 2	40	0.5	< 2	0.70	< 0.5	19	123	1980	3.65	10	< 1	0.33	30	0.40	120	122
H574087	299	229	1.2	1.15	< 2	50	1.0	2	0.80	< 0.5	15	142	1840	3.21	10	< 1	0.28	60	0.35	100	148
H574088	299	229	0.8	0.61	2	80	0.5	< 2	0.75	< 0.5	18	144	1850	2.97	< 10	< 1	0.25	20	0.21	80	157
H574089	299	229	1.4	1.27	6	120	0.5	< 2	0.62	< 0.5	16	200	2530	2.21	< 10	< 1	0.44	20	0.34	75	141
H574090	299	229	1.0	0.96	< 2	140	0.5	< 2	0.75	< 0.5	21	112	1810	2.27	10	< 1	0.46	30	0.56	75	370
H574091	299	229	1.4	1.39	< 2	130	0.5	< 2	0.68	< 0.5	12	137	1925	2.30	10	< 1	0.47	30	0.66	100	271
H574092	299	229	1.2	2.06	< 2	190	1.0	< 2	1.09	< 0.5	12	194	2040	2.00	10	< 1	0.55	30	0.89	105	167
H574093	299	229	0.8	0.86	2	90	0.5	< 2	1.19	< 0.5	10	159	1630	1.98	10	< 1	0.32	50	0.43	230	394
H574094	299	229	2.0	0.36	4	30	0.5	2	0.92	< 0.5	15	86	2900	2.39	10	< 1	0.16	50	0.20	220	775
H574095	299	229	1.0	0.29	10	30	1.0	< 2	0.86	< 0.5	21	70	1805	6.06	< 10	< 1	0.18	20	0.06	240	253
H574096	299	229	2.0	1.07	8	100	1.0	< 2	0.97	< 0.5	21	235	2920	3.89	< 10	< 1	0.49	30	0.22	270	281
H574097	299	229	0.8	0.61	6	80	0.5	< 2	1.16	< 0.5	16	141	1405	3.78	< 10	< 1	0.34	20	0.24	245	208
H574098	299	229	1.4	0.93	< 2	80	0.5	2	0.43	< 0.5	13	160	2680	2.90	< 10	< 1	0.44	30	0.23	45	291
H574099	299	229	1.4	0.77	< 2	80	0.5	< 2	1.02	< 0.5	13	106	2480	2.37	< 10	< 1	0.36	20	0.41	100	116
H574100	299	229	1.4	1.06	< 2	90	0.5	2	0.99	< 0.5	13	200	2330	2.14	< 10	< 1	0.43	30	0.27	115	132
H574101	299	229	0.8	0.64	< 2	80	0.5	< 2	1.47	< 0.5	13	101	1690	2.04	< 10	< 1	0.27	30	0.51	115	99
H574102	299	229	1.4	1.04	2	110	0.5	< 2	1.37	< 0.5	13	141	2170	1.93	10	< 1	0.48	40	0.75	100	300
H574103	299	229	0.8	0.72	< 2	60	0.5	< 2	1.66	< 0.5	14	94	1255	2.55	< 10	< 1	0.36	30	0.77	100	208
H574104	299	229	1.2	1.21	< 2	160	0.5	2	1.39	< 0.5	11	113	1985	1.79	< 10	< 1	0.63	30	0.92	90	368
H574105	299	229	0.8	0.90	< 2	90	0.5	2	1.29	< 0.5	21	72	2350	2.53	< 10	< 1	0.40	30	0.93	85	97

CERTIFICATION: David Buchler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-SEP-93
Invoice No. :19320772
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H574066	299	229	0.02	4	460	8	2	7	31	0.03	< 10	< 10	47	< 10	16
H574067	299	229	0.01	6	390	6	4	7	20	0.02	< 10	< 10	42	< 10	10
H574068	299	229	0.01	3	360	2	< 2	4	17	0.02	< 10	10	29	< 10	6
H574069	299	229	0.01	2	370	8	< 2	9	31	0.04	< 10	10	54	< 10	14
H574070	299	229	0.01	4	410	6	2	6	18	0.02	< 10	10	36	< 10	20
H574071	299	229	0.01	3	250	10	6	3	10	< 0.01	< 10	< 10	19	10	6
H574072	299	229	0.01	6	380	8	< 2	6	9	0.02	< 10	< 10	33	< 10	18
H574073	299	229	< 0.01	3	400	10	4	3	8	< 0.01	< 10	< 10	16	< 10	10
H574074	299	229	< 0.01	3	560	12	2	7	9	< 0.01	< 10	< 10	26	< 10	16
H574075	299	229	< 0.01	4	350	6	2	3	7	0.01	< 10	< 10	27	< 10	6
H574076	299	229	0.01	4	410	8	2	3	8	< 0.01	< 10	< 10	17	< 10	14
H574077	299	229	< 0.01	5	420	10	2	1	6	< 0.01	< 10	< 10	10	< 10	4
H574078	299	229	0.01	4	480	6	2	2	8	< 0.01	< 10	< 10	16	< 10	14
H574079	299	229	< 0.01	5	610	8	< 2	6	5	0.01	< 10	< 10	31	< 10	22
H574080	299	229	0.01	6	510	12	2	3	6	< 0.01	< 10	< 10	16	< 10	14
H574081	299	229	< 0.01	6	820	16	4	4	7	< 0.01	< 10	< 10	29	< 10	22
H574082	299	229	< 0.01	6	450	8	< 2	2	7	< 0.01	< 10	< 10	13	< 10	14
H574083	299	229	0.01	5	520	6	2	5	8	< 0.01	< 10	< 10	23	< 10	16
H574084	299	229	< 0.01	5	550	10	< 2	5	6	< 0.01	< 10	< 10	23	< 10	20
H574085	299	229	< 0.01	4	460	8	4	4	8	< 0.01	< 10	< 10	16	< 10	22
H574086	299	229	0.02	7	790	6	4	3	22	< 0.01	< 10	< 10	23	< 10	16
H574087	299	229	0.01	7	790	8	< 2	4	19	< 0.01	< 10	10	26	< 10	16
H574088	299	229	< 0.01	5	530	8	< 2	3	9	< 0.01	< 10	< 10	19	< 10	8
H574089	299	229	0.01	6	540	8	2	6	13	0.01	< 10	< 10	32	< 10	10
H574090	299	229	0.01	4	570	6	2	7	16	0.03	< 10	< 10	42	< 10	14
H574091	299	229	0.01	4	440	12	4	6	21	0.02	< 10	< 10	39	< 10	14
H574092	299	229	0.01	6	440	6	6	6	34	0.02	< 10	10	42	< 10	24
H574093	299	229	0.01	4	370	18	2	6	12	< 0.01	< 10	< 10	28	< 10	14
H574094	299	229	< 0.01	3	530	16	6	4	11	< 0.01	< 10	< 10	18	< 10	22
H574095	299	229	< 0.01	4	310	20	4	2	6	< 0.01	< 10	< 10	8	< 10	24
H574096	299	229	0.01	7	470	16	2	5	12	< 0.01	< 10	10	23	< 10	28
H574097	299	229	0.01	6	420	14	4	3	13	< 0.01	< 10	< 10	18	< 10	20
H574098	299	229	0.01	5	500	8	4	3	12	< 0.01	< 10	< 10	22	< 10	6
H574099	299	229	0.01	3	410	8	< 2	3	27	0.01	< 10	< 10	22	< 10	8
H574100	299	229	0.01	5	450	4	< 2	4	20	< 0.01	< 10	< 10	24	< 10	12
H574101	299	229	0.01	3	510	8	< 2	4	74	0.01	< 10	< 10	23	< 10	6
H574102	299	229	0.02	3	460	6	4	5	48	0.02	< 10	< 10	37	< 10	12
H574103	299	229	0.02	3	390	8	2	3	102	0.03	< 10	< 10	30	< 10	16
H574104	299	229	0.03	3	450	10	6	7	55	0.05	< 10	< 10	49	< 10	12
H574105	299	229	0.02	3	450	8	2	4	74	0.03	< 10	< 10	40	< 10	12

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574106	299	229	0.8	0.88	< 2	120	0.5	< 2	1.04	< 0.5	12	38	1610	1.86	< 10	< 1	0.49	30	0.76	65	279
H574107	299	229	0.8	0.95	< 2	90	0.5	8	1.74	< 0.5	14	46	1885	2.18	< 10	< 1	0.51	20	0.86	80	120
H574108	299	229	1.2	0.74	2	110	0.5	< 2	1.19	< 0.5	15	51	2060	2.49	< 10	< 1	0.36	20	0.58	115	261
H574109	299	229	0.8	0.83	< 2	80	1.0	< 2	1.21	< 0.5	17	53	1870	2.84	< 10	< 1	0.49	10	0.67	55	112
H574110	299	229	1.2	0.94	< 2	70	1.0	< 2	1.10	< 0.5	22	47	1785	2.73	< 10	< 1	0.51	30	0.73	60	382
H574111	299	229	1.0	0.98	< 2	150	0.5	2	1.10	< 0.5	15	42	2400	2.05	< 10	< 1	0.48	20	0.79	65	172
H574112	299	229	1.2	0.95	10	170	0.5	4	1.15	< 0.5	22	36	3050	1.84	< 10	< 1	0.50	30	0.80	65	255
H574113	299	229	2.6	1.05	6	160	0.5	4	1.35	< 0.5	10	55	2600	1.51	< 10	< 1	0.53	30	0.85	75	357
H574114	299	229	0.8	1.02	< 2	130	0.5	2	1.47	< 0.5	18	58	2110	1.91	< 10	< 1	0.40	20	0.78	75	140
H574115	299	229	0.8	1.02	< 2	160	0.5	< 2	1.61	< 0.5	13	74	1760	1.82	< 10	< 1	0.47	20	0.88	95	111
H574116	299	229	1.0	0.83	10	100	< 0.5	4	2.00	< 0.5	12	79	1640	1.64	< 10	< 1	0.46	20	0.79	75	464
H574117	299	229	1.2	1.12	20	130	< 0.5	< 2	1.54	< 0.5	14	75	2170	1.97	< 10	< 1	0.50	10	0.98	80	120
H574118	299	229	0.8	1.19	< 2	160	< 0.5	2	1.44	< 0.5	11	81	1635	1.97	10	< 1	0.61	20	0.96	80	269
H574119	299	229	0.6	1.25	2	150	< 0.5	4	1.55	< 0.5	11	85	1505	2.03	< 10	< 1	0.58	20	1.04	85	59
H574120	299	229	0.8	1.28	2	260	0.5	< 2	1.38	< 0.5	14	88	2020	1.65	10	< 1	0.64	40	0.94	75	157
H574121	299	229	0.8	1.07	4	150	0.5	< 2	1.51	< 0.5	12	76	2250	1.75	10	< 1	0.45	30	0.75	75	194
H574122	299	229	1.2	1.33	6	260	0.5	< 2	1.27	< 0.5	10	62	2700	1.80	10	< 1	0.61	30	0.84	80	334
H574123	299	229	1.2	1.60	2	240	0.5	< 2	1.32	< 0.5	13	79	2020	1.99	10	< 1	0.67	40	0.89	85	207
H574124	299	229	1.0	1.19	6	170	0.5	4	1.39	< 0.5	11	60	2230	1.76	10	< 1	0.55	40	0.80	70	315
H574125	299	229	1.4	0.90	2	170	0.5	< 2	1.14	< 0.5	12	64	2830	1.79	10	< 1	0.44	40	0.68	110	522
H574126	299	229	1.0	0.68	2	100	< 0.5	< 2	0.85	< 0.5	11	62	1835	1.69	< 10	< 1	0.26	30	0.39	95	193
H574127	299	229	1.6	1.08	6	120	0.5	4	0.90	0.5	22	55	2400	2.24	10	< 1	0.44	30	0.59	65	144
H574128	299	229	1.4	1.03	10	100	0.5	< 2	1.13	< 0.5	32	60	2520	2.29	10	< 1	0.45	30	0.63	75	183
H574129	299	229	2.2	0.55	8	30	< 0.5	< 2	1.51	< 0.5	23	98	1470	5.65	10	< 1	0.29	40	0.52	220	831
H574130	299	229	1.8	0.94	4	110	0.5	< 2	0.98	< 0.5	22	56	2940	1.95	10	< 1	0.43	30	0.55	90	291
H574131	299	229	1.2	0.64	2	70	< 0.5	2	1.30	< 0.5	25	115	2840	2.72	< 10	< 1	0.33	30	0.33	90	88
H574132	299	229	1.2	1.19	10	140	0.5	< 2	2.07	< 0.5	27	65	3650	2.31	10	< 1	0.56	30	0.77	75	185
H574133	299	229	0.8	1.65	2	280	0.5	< 2	1.50	< 0.5	15	88	2280	2.03	10	< 1	0.72	30	0.95	80	168
H574134	299	229	1.2	1.42	< 2	210	0.5	2	1.23	< 0.5	16	79	2270	2.13	10	< 1	0.63	20	1.05	95	103
H574135	299	229	0.6	1.41	< 2	160	< 0.5	2	1.27	< 0.5	16	99	1860	1.81	< 10	< 1	0.73	10	1.08	75	74
H574136	299	229	0.6	1.37	4	120	< 0.5	< 2	1.51	< 0.5	21	80	1780	2.58	< 10	< 1	0.50	10	1.07	100	24
H574137	299	229	0.6	1.20	< 2	110	< 0.5	4	1.45	< 0.5	14	79	1580	1.85	< 10	< 1	0.67	10	1.04	75	147
H574138	299	229	0.8	1.55	< 2	170	0.5	< 2	1.13	< 0.5	18	71	1730	2.31	< 10	< 1	0.71	10	1.17	100	67
H574139	299	229	0.6	1.65	< 2	170	0.5	6	0.91	< 0.5	23	62	1955	2.50	< 10	< 1	0.75	20	1.19	95	91
H574140	299	229	1.2	1.10	< 2	80	0.5	< 2	1.41	< 0.5	14	84	1555	3.11	< 10	< 1	0.46	10	0.80	125	51
H574141	299	229	0.6	1.27	< 2	220	0.5	< 2	0.65	< 0.5	16	54	1805	1.75	< 10	< 1	0.67	20	0.98	80	113
H574142	299	229	2.0	1.43	< 2	110	0.5	2	0.77	< 0.5	41	67	3090	2.76	< 10	< 1	0.82	20	0.99	115	93
H574143	299	229	2.0	1.11	6	70	0.5	2	1.02	< 0.5	21	54	2310	2.84	10	< 1	0.51	40	0.62	125	114
H574144	299	229	2.2	0.36	16	70	< 0.5	< 2	2.56	< 0.5	11	104	2030	2.25	< 10	< 1	0.18	30	0.21	280	329
H574145	299	229	1.4	0.84	6	140	0.5	< 2	0.77	< 0.5	17	54	1990	1.63	10	< 1	0.36	40	0.52	115	103

CERTIFICATION:

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Page Number :4-B
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H574106	299	229	0.02	2	350	8	< 2	4	55	0.04	< 10	< 10	36	< 10	8
H574107	299	229	0.02	3	430	6	2	5	142	0.04	< 10	< 10	39	< 10	10
H574108	299	229	0.01	3	440	8	< 2	4	42	0.02	< 10	10	28	< 10	8
H574109	299	229	0.01	3	410	8	< 2	4	89	0.03	< 10	< 10	30	< 10	6
H574110	299	229	0.01	4	400	8	2	4	116	0.04	< 10	< 10	38	< 10	8
H574111	299	229	0.01	4	350	10	2	5	57	0.03	< 10	< 10	38	< 10	10
H574112	299	229	0.01	4	370	8	2	6	158	0.03	< 10	< 10	44	< 10	12
H574113	299	229	0.01	3	380	8	4	7	66	0.03	< 10	< 10	51	10	12
H574114	299	229	0.02	3	430	14	2	7	124	0.03	< 10	< 10	45	< 10	16
H574115	299	229	0.03	4	420	6	4	7	109	0.06	< 10	< 10	51	< 10	22
H574116	299	229	0.02	2	360	12	2	5	109	0.04	< 10	< 10	40	10	16
H574117	299	229	0.03	3	410	6	2	7	84	0.07	< 10	< 10	56	10	20
H574118	299	229	0.03	3	380	8	2	9	88	0.08	< 10	< 10	64	< 10	14
H574119	299	229	0.03	3	410	2	2	9	92	0.08	< 10	10	62	10	14
H574120	299	229	0.03	3	410	12	< 2	10	77	0.07	< 10	< 10	65	10	14
H574121	299	229	0.02	4	390	10	2	6	91	0.02	< 10	< 10	36	< 10	14
H574122	299	229	0.02	3	400	10	2	8	108	0.06	< 10	< 10	56	10	30
H574123	299	229	0.02	4	490	8	4	9	126	0.05	< 10	< 10	60	10	24
H574124	299	229	0.01	3	430	20	2	8	71	0.03	< 10	< 10	52	10	28
H574125	299	229	0.01	3	380	14	6	7	43	0.02	< 10	< 10	43	10	20
H574126	299	229	0.01	4	480	20	2	7	33	< 0.01	< 10	< 10	30	< 10	28
H574127	299	229	0.01	4	470	30	2	6	58	0.02	< 10	< 10	38	10	56
H574128	299	229	0.01	4	490	6	4	6	49	0.02	< 10	< 10	40	10	24
H574129	299	229	0.01	4	450	< 2	8	5	26	< 0.01	< 10	< 10	24	10	16
H574130	299	229	0.01	4	400	6	4	8	47	0.02	< 10	< 10	39	< 10	18
H574131	299	229	0.01	4	440	6	2	4	24	0.01	< 10	< 10	23	10	12
H574132	299	229	0.01	5	440	8	2	7	55	0.03	< 10	< 10	44	10	16
H574133	299	229	0.02	6	440	10	< 2	10	73	0.06	< 10	< 10	63	10	16
H574134	299	229	0.03	4	410	8	< 2	8	96	0.06	< 10	< 10	64	10	18
H574135	299	229	0.04	4	370	6	< 2	9	78	0.09	< 10	< 10	67	10	16
H574136	299	229	0.03	4	430	8	< 2	7	54	0.05	< 10	< 10	54	10	16
H574137	299	229	0.04	3	400	8	2	8	133	0.10	< 10	< 10	66	< 10	20
H574138	299	229	0.03	4	470	10	< 2	9	60	0.09	< 10	< 10	72	< 10	18
H574139	299	229	0.03	4	440	4	2	9	123	0.09	< 10	< 10	71	10	18
H574140	299	229	0.02	4	380	4	4	5	269	0.04	< 10	< 10	42	< 10	16
H574141	299	229	0.02	3	350	14	2	8	51	0.06	< 10	< 10	60	< 10	18
H574142	299	229	0.01	7	600	4	< 2	9	37	0.06	< 10	< 10	62	10	16
H574143	299	229	0.01	5	550	8	2	9	40	0.02	< 10	< 10	48	< 10	20
H574144	299	229	< 0.01	5	460	20	8	7	29	< 0.01	< 10	< 10	14	10	32
H574145	299	229	0.01	2	430	38	2	7	48	0.01	< 10	< 10	34	< 10	40

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#574146	299	229	1.8	0.61	4	110	< 0.5	< 2	0.66	< 0.5	15	29	2400	2.46	10	< 1	0.34	40	0.44	95	167
#574147	299	229	1.6	1.29	4	170	< 0.5	< 2	1.54	< 0.5	15	146	1650	2.11	10	< 1	0.51	20	0.78	185	280
#574148	299	229	1.4	1.05	8	120	< 0.5	< 2	0.80	< 0.5	22	56	2660	2.01	10	< 1	0.39	20	0.58	100	117
#574149	299	229	3.2	1.39	4	190	< 0.5	< 2	0.87	< 0.5	17	101	3370	2.11	10	< 1	0.57	30	0.60	105	142
#574150	299	229	2.0	0.57	2	80	< 0.5	< 2	1.38	< 0.5	25	35	3020	2.31	10	< 1	0.24	20	0.27	130	74
#574151	299	229	1.0	1.87	16	160	< 0.5	< 2	2.01	< 0.5	24	104	1700	2.61	10	< 1	0.57	10	0.66	190	99
#574152	299	229	1.0	2.08	18	40	< 0.5	< 2	1.65	< 0.5	29	166	1645	3.31	10	< 1	0.78	20	0.84	150	36
#574153	299	229	1.2	1.52	6	40	< 0.5	< 2	1.16	< 0.5	28	92	1580	3.85	10	< 1	0.40	20	0.42	90	85
#574154	299	229	1.8	1.64	16	80	< 0.5	< 2	1.50	< 0.5	23	106	2510	3.30	10	< 1	0.69	20	0.86	140	112
#574155	299	229	0.8	1.28	6	100	< 0.5	< 2	1.26	< 0.5	19	104	1615	2.09	10	< 1	0.58	20	0.69	85	108
#574156	299	229	1.6	1.25	10	120	< 0.5	< 2	0.79	< 0.5	19	125	2820	2.14	10	< 1	0.58	30	0.77	110	189
#574157	299	229	2.0	1.15	14	100	< 0.5	< 2	0.93	< 0.5	29	125	4250	2.69	10	< 1	0.47	30	0.57	145	179
#574158	299	229	2.0	1.31	2	100	< 0.5	< 2	0.93	< 0.5	20	158	3410	2.15	10	< 1	0.49	30	0.63	145	245
#574159	299	229	1.2	1.02	6	120	< 0.5	< 2	0.95	< 0.5	21	113	2510	2.07	10	< 1	0.38	30	0.52	115	126
#574160	299	229	1.0	1.45	6	130	< 0.5	< 2	0.85	< 0.5	17	131	2010	2.43	10	< 1	0.64	20	0.76	105	101
#574161	299	229	0.6	1.70	12	240	< 0.5	< 2	0.98	< 0.5	18	146	1835	1.75	10	< 1	0.58	20	0.70	70	122
#574162	299	229	1.2	1.74	10	250	< 0.5	< 2	1.16	< 0.5	15	130	1935	1.85	10	< 1	0.58	20	0.72	75	56
#574163	299	229	1.4	1.12	4	150	< 0.5	< 2	1.18	< 0.5	17	118	1565	2.00	10	< 1	0.35	30	0.49	125	574
#574164	299	229	1.4	1.44	10	190	< 0.5	< 2	1.24	< 0.5	19	98	2950	1.94	10	< 1	0.58	20	0.73	85	211
#574165	299	229	0.8	1.57	10	260	< 0.5	< 2	1.10	< 0.5	15	124	1580	1.84	10	< 1	0.63	20	0.78	85	57
#574166	299	229	1.2	1.26	2	180	< 0.5	< 2	0.52	< 0.5	13	104	2090	1.63	10	< 1	0.57	30	0.63	70	185
#574167	299	229	1.2	0.87	2	90	< 0.5	< 2	0.58	< 0.5	15	89	2220	1.66	10	< 1	0.22	30	0.28	125	242
#574168	299	229	1.4	1.16	6	70	< 0.5	< 2	0.61	< 0.5	15	117	1975	1.97	10	< 1	0.25	30	0.28	165	185
#574169	299	229	0.8	1.79	2	130	< 0.5	< 2	0.81	< 0.5	17	93	1770	2.55	10	< 1	0.73	20	1.00	110	37
#574170	299	229	0.8	1.52	2	220	< 0.5	< 2	0.91	< 0.5	15	107	1785	1.91	10	< 1	0.74	20	0.90	75	126
#574171	299	229	0.8	1.40	6	280	< 0.5	< 2	0.95	< 0.5	11	95	1480	1.72	10	< 1	0.74	20	0.86	80	121
#574172	299	229	0.8	1.18	< 2	130	< 0.5	< 2	1.16	< 0.5	14	132	1990	1.81	10	< 1	0.77	10	0.83	70	86
#574173	299	229	0.6	1.14	4	170	< 0.5	< 2	1.23	< 0.5	13	109	1345	1.52	10	< 1	0.61	10	0.77	65	178
#574174	299	229	1.6	1.14	6	160	< 0.5	< 2	1.29	< 0.5	16	107	2350	1.61	10	< 1	0.64	20	0.76	70	134
#574175	299	229	1.6	1.06	4	190	< 0.5	< 2	0.91	< 0.5	9	97	3510	1.15	10	< 1	0.45	20	0.61	50	329
#574176	299	229	1.4	0.92	10	110	< 0.5	< 2	1.06	< 0.5	17	98	2430	1.59	10	< 1	0.50	10	0.57	50	318
#574177	299	229	1.8	1.14	14	90	< 0.5	< 2	1.35	< 0.5	14	97	2610	1.80	10	< 1	0.80	10	0.83	70	234
#574178	299	229	1.4	1.13	< 2	90	< 0.5	< 2	1.18	< 0.5	22	100	1925	2.43	10	< 1	0.70	10	0.80	85	49
#574179	299	229	1.0	1.19	6	100	< 0.5	< 2	1.44	< 0.5	19	87	2120	2.51	10	< 1	0.73	< 10	0.95	95	127
#574180	299	229	1.2	1.12	< 2	110	< 0.5	< 2	1.22	< 0.5	22	77	1670	2.32	10	< 1	0.59	10	0.78	90	64
#574181	299	229	0.6	1.14	2	70	< 0.5	< 2	1.22	< 0.5	22	80	1125	2.77	10	< 1	0.59	10	0.79	105	58
#574182	299	229	0.8	1.17	< 2	80	< 0.5	< 2	1.27	< 0.5	20	82	1115	2.72	10	< 1	0.54	10	0.81	105	30
#574183	299	229	1.2	1.40	6	150	< 0.5	< 2	1.00	< 0.5	14	101	1120	2.09	10	< 1	0.61	20	0.81	130	48
#574184	299	229	1.2	1.09	< 2	110	< 0.5	< 2	1.16	< 0.5	15	103	1600	2.23	10	< 1	0.50	10	0.75	145	54
#574185	299	229	3.4	0.48	28	40	< 0.5	8	1.15	< 0.5	16	100	2760	4.22	< 10	< 1	0.24	10	0.47	165	57

CERTIFICATION: Stewart Bachler

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 20-SEP-93
Invoice No. :19320772
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R574146	299	229	0.01	3	490	8	2	4	28	0.01	< 10	< 10	22	< 10	20
R574147	299	229	0.02	4	460	6	4	5	52	0.01	< 10	< 10	29	< 10	24
R574148	299	229	0.01	5	470	12	4	6	226	0.01	< 10	< 10	36	< 10	24
R574149	299	229	0.02	5	430	12	4	7	39	0.02	< 10	< 10	44	< 10	554
R574150	299	229	< 0.01	4	540	16	2	8	35	< 0.01	< 10	< 10	28	< 10	20
R574151	299	229	0.02	4	460	14	2	9	58	0.02	< 10	< 10	53	< 10	30
R574152	299	229	0.03	6	540	4	2	11	68	0.05	< 10	< 10	65	< 10	24
R574153	299	229	0.01	4	510	6	< 2	6	49	< 0.01	< 10	< 10	32	< 10	22
R574154	299	229	0.02	5	660	8	4	13	59	0.05	< 10	< 10	70	< 10	34
R574155	299	229	0.02	3	430	4	< 2	8	62	0.03	< 10	< 10	49	< 10	20
R574156	299	229	0.01	4	400	6	2	7	34	0.03	< 10	< 10	44	< 10	24
R574157	299	229	0.01	7	550	6	< 2	9	21	0.02	< 10	< 10	44	< 10	24
R574158	299	229	0.01	6	440	8	2	8	22	0.01	< 10	< 10	39	< 10	32
R574159	299	229	0.01	4	480	4	< 2	7	18	< 0.01	< 10	< 10	31	< 10	20
R574160	299	229	0.03	4	450	4	< 2	8	28	0.03	< 10	< 10	45	< 10	18
R574161	299	229	0.03	4	360	4	< 2	7	77	0.02	< 10	< 10	47	< 10	18
R574162	299	229	0.03	4	440	8	< 2	9	66	0.03	< 10	< 10	56	< 10	20
R574163	299	229	0.01	4	440	6	4	6	45	< 0.01	< 10	< 10	26	< 10	18
R574164	299	229	0.02	4	420	4	< 2	9	55	0.03	< 10	< 10	52	< 10	20
R574165	299	229	0.04	4	410	4	< 2	10	226	0.06	< 10	< 10	59	< 10	16
R574166	299	229	0.01	5	540	6	< 2	8	30	0.03	< 10	< 10	48	< 10	16
R574167	299	229	0.01	4	460	4	< 2	9	29	< 0.01	< 10	< 10	36	< 10	20
R574168	299	229	0.01	4	540	6	< 2	10	23	< 0.01	< 10	< 10	40	< 10	24
R574169	299	229	0.03	3	520	2	< 2	12	46	0.07	< 10	< 10	69	< 10	22
R574170	299	229	0.03	3	390	< 2	< 2	9	51	0.06	< 10	< 10	61	< 10	16
R574171	299	229	0.04	3	400	2	2	9	40	0.07	< 10	< 10	60	< 10	16
R574172	299	229	0.06	4	420	< 2	< 2	9	121	0.06	< 10	< 10	61	< 10	14
R574173	299	229	0.03	3	390	2	< 2	8	84	0.04	< 10	< 10	50	< 10	14
R574174	299	229	0.03	4	420	2	< 2	9	133	0.04	< 10	< 10	55	< 10	18
R574175	299	229	0.01	4	480	6	2	8	57	0.01	< 10	< 10	44	< 10	16
R574176	299	229	0.02	4	370	2	2	6	101	0.02	< 10	< 10	37	< 10	20
R574177	299	229	0.03	4	430	4	2	9	104	0.06	< 10	< 10	57	< 10	20
R574178	299	229	0.04	3	400	2	< 2	8	113	0.06	< 10	< 10	59	< 10	20
R574179	299	229	0.04	4	410	< 2	< 2	9	67	0.07	< 10	< 10	64	< 10	20
R574180	299	229	0.03	2	410	< 2	< 2	9	101	0.04	< 10	< 10	56	< 10	24
R574181	299	229	0.03	3	490	2	< 2	9	75	0.03	< 10	< 10	55	< 10	22
R574182	299	229	0.03	3	480	< 2	< 2	8	85	0.04	< 10	< 10	53	< 10	20
R574183	299	229	0.02	3	490	4	< 2	9	65	0.02	< 10	< 10	54	< 10	20
R574184	299	229	0.02	3	460	4	< 2	8	48	0.02	< 10	< 10	40	< 10	20
R574185	299	229	0.01	4	410	20	4	3	16	< 0.01	< 10	< 10	12	< 10	22

CERTIFICATION: Harold Ristau

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 193
Comments: CC: PACIFIC SENTINEL GOLD CORP.

P. .umber :6-A
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CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574186	299	229	4.0	0.90	22	50	< 0.5	8	1.26	< 0.5	17	165	3090	3.97	10	< 1	0.44	20	0.55	185	474
H574187	299	229	1.2	0.79	16	70	< 0.5	< 2	2.39	< 0.5	13	109	2270	1.49	< 10	< 1	0.25	< 10	1.14	165	121
H574188	299	229	1.4	1.12	8	120	< 0.5	< 2	1.29	< 0.5	18	75	1505	2.43	10	< 1	0.68	10	0.95	170	37
H574189	299	229	2.0	1.20	12	100	< 0.5	< 2	1.10	< 0.5	18	81	2660	2.03	10	< 1	0.67	10	0.90	160	50
H574190	299	229	1.4	1.25	< 2	100	< 0.5	< 2	1.47	< 0.5	20	134	2070	2.35	10	< 1	0.81	< 10	0.89	125	85
H574191	299	229	1.8	1.17	< 2	110	< 0.5	< 2	1.15	< 0.5	15	106	2630	2.11	10	< 1	0.77	10	0.93	105	60
H574192	299	229	1.4	1.01	2	80	< 0.5	< 2	1.51	< 0.5	19	79	1850	2.07	< 10	< 1	0.72	10	0.86	90	86
H574193	299	229	2.0	1.41	6	80	< 0.5	< 2	1.29	< 0.5	15	110	1875	2.62	10	< 1	0.60	10	1.07	115	69
H574194	299	229	2.2	1.47	< 2	80	< 0.5	< 2	1.27	< 0.5	19	153	1715	2.64	< 10	< 1	0.73	< 10	0.96	95	60
H574195	299	229	2.0	1.33	6	70	< 0.5	14	1.32	< 0.5	29	107	2320	2.93	< 10	< 1	0.71	< 10	0.89	105	65
H574196	299	229	1.4	1.62	4	150	< 0.5	< 2	1.36	< 0.5	16	158	1625	2.06	10	< 1	0.78	10	1.00	100	132
H574197	299	229	1.4	1.58	10	150	< 0.5	< 2	1.24	< 0.5	19	134	1765	2.15	< 10	< 1	0.76	10	0.88	90	91

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9320772

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B574186	299	229	0.01	5	460	18	8	5	21	< 0.01	< 10	< 10	20	< 10	22
B574187	299	229	0.02	4	390	4	< 2	10	34	< 0.01	< 10	< 10	43	< 10	20
B574188	299	229	0.03	3	500	< 2	< 2	8	132	0.06	< 10	< 10	57	< 10	22
B574189	299	229	0.02	4	400	2	< 2	7	42	0.03	< 10	< 10	47	< 10	22
B574190	299	229	0.05	4	420	< 2	< 2	9	97	0.07	< 10	< 10	58	< 10	20
B574191	299	229	0.03	4	410	4	< 2	8	149	0.07	< 10	< 10	57	< 10	22
B574192	299	229	0.03	3	420	2	< 2	9	149	0.08	< 10	< 10	57	< 10	22
B574193	299	229	0.06	6	760	6	< 2	6	86	0.06	< 10	< 10	49	< 10	40
B574194	299	229	0.06	4	440	4	< 2	7	74	0.06	< 10	< 10	50	< 10	24
B574195	299	229	0.05	3	440	4	< 2	8	76	0.07	< 10	< 10	53	< 10	24
B574196	299	229	0.07	3	470	6	< 2	9	68	0.08	< 10	< 10	63	< 10	26
B574197	299	229	0.05	4	450	4	< 2	8	52	0.06	< 10	< 10	55	< 10	24

CERTIFICATION: Ian Bichler

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Invoice No. :19320572
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CERTIFICATE OF ANALYSIS A9320572

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569849H	208 276	0.05	0.028	0.34	9580
569850H	208 273	0.06	0.022	0.69	13000
569851H	208 273	0.05	0.017	0.62	14800
569852H	208 270	0.06	0.013	0.34	17600
569853H	208 276	0.05	0.021	0.65	8460
569854H	208 276	0.07	0.025	0.38	11000
569855H	208 273	0.07	0.012	0.99	12660
569856H	208 273	0.10	0.017	0.51	11920
569857H	208 276	0.15	0.021	0.48	10160
569858H	208 276	0.08	0.019	0.75	11760
569859H	208 273	0.12	0.014	0.62	12080
569860H	208 276	0.13	0.017	0.24	10860
569861H	208 276	0.15	0.016	0.72	10520
569862H	208 276	0.20	0.016	0.82	10660
569863H	208 273	0.16	0.009	1.34	12020
569864H	208 276	0.13	0.009	0.96	10060
569865H	208 273	0.11	0.011	0.99	12900
569866H	208 273	0.12	0.009	0.93	14160
569867H	208 273	0.18	0.012	1.23	11960
569868H	208 273	0.16	0.017	1.06	13400
569869H	208 273	0.12	0.010	0.65	13320
569870H	208 273	0.17	0.018	1.10	12560
569871H	208 273	0.16	0.011	0.69	12860
569872H	208 273	0.19	0.034	2.13	11900
569873H	208 273	0.12	0.014	0.93	12060
569874H	208 276	0.22	0.015	1.06	9260
569875H	208 276	0.23	0.013	0.65	11600
569876H	208 273	0.27	0.012	0.58	11820
569877H	208 273	0.26	0.016	0.34	13160
569878H	208 273	0.32	0.017	0.38	13100
569879H	208 273	0.57	0.017	0.41	13160
569880H	208 276	0.24	0.016	0.45	11500
569881H	208 273	0.35	0.018	0.58	13760
569882H	208 273	0.44	0.016	0.45	12020
569883H	208 273	0.40	0.014	0.21	14100
569884H	208 273	0.28	0.012	0.24	14460
569885H	208 273	0.27	0.011	0.38	13500
569886H	208 273	0.20	0.010	0.20	13660
569887H	208 273	0.60	0.024	0.69	12200
569888H	208 273	0.40	0.020	0.65	12960

CERTIFICATION: Jean Vork

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569889H	208	273	0.68	0.025	0.65	12740						
569890H	208	273	0.21	0.011	0.45	12480						
569891H	208	273	0.23	0.011	0.41	13120						
569892H	208	273	0.31	0.018	0.45	13500						
569893H	208	273	0.25	0.019	0.41	12500						
569894H	208	273	0.20	0.013	0.34	13660						
569895H	208	273	0.19	0.011	0.31	13960						
569896H	208	273	0.24	0.011	0.31	12960						
569897H	208	273	0.19	0.013	0.27	13520						
569898H	208	273	0.30	0.018	0.38	13060						
569899H	208	273	0.33	0.008	0.31	13040						
569900H	208	273	0.48	0.033	0.55	12600						
569901H	208	273	0.50	0.020	0.62	12660						
569902H	208	273	0.32	0.015	0.21	11940						
569903H	208	273	0.31	0.022	0.17	12080						
569904H	208	273	0.24	0.038	0.31	13300						
569905H	208	273	0.20	0.017	0.14	13180						
569906H	208	276	0.42	0.019	0.21	11180						
569907H	208	273	0.23	0.015	0.34	13640						
569908H	208	276	0.22	0.022	0.31	10560						
569909H	208	273	0.19	0.009	0.17	14580						
569910H	208	276	0.14	0.015	0.14	8960						
569911H	208	273	0.28	0.020	0.38	12580						
569912H	208	276	0.22	0.015	0.14	7640						
569913H	208	270	0.18	0.044	0.14	16400						
569914H	208	276	0.19	0.026	0.10	10860						
569915H	208	276	0.19	0.008	0.17	10220						
569916H	208	273	0.26	0.008	0.24	13400						
569917H	208	274	0.29	0.026	0.31	6500						
569918H	208	276	0.13	0.010	0.07	8560						
569919H	208	273	0.12	0.012	0.10	13480						
569920H	208	273	0.11	0.010	0.10	12860						
569921H	208	273	0.07	0.021	0.14	13020						
569922H	208	273	0.09	0.025	0.03	13280						
569923H	208	273	0.07	0.008	0.03	12400						
569924H	208	273	0.10	0.013	0.07	13940						
569925H	208	273	0.38	0.022	0.14	13160						
569926H	208	273	0.11	0.008	0.21	12500						
569927H	208	273	0.06	0.006	0.07	13360						
569928H	208	273	0.13	0.020	0.17	12940						

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 194
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-SEP-93
Invoice No. : I9320572
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320572

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569929H	208	273	0.16	0.016	0.17	12620						
569930H	208	276	0.09	0.014	0.07	10980						
569931H	208	273	0.11	0.027	0.10	12520						
569932H	208	273	0.09	0.015	0.10	13120						
569933H	208	273	0.20	0.019	0.17	12120						
569934H	208	273	0.19	0.113	0.21	12760						
569935H	208	273	0.13	0.024	0.17	13320						
569936H	208	273	0.17	0.023	0.21	12960						
569937H	208	273	0.12	0.026	0.17	12860						
569938H	208	274	0.12	0.013	0.14	5980						
569939H	208	274	0.11	0.009	0.14	7120						
569940H	208	273	0.13	0.014	0.24	13260						
569941H	208	273	0.10	0.016	0.14	13120						
569942H	208	273	0.15	0.024	0.31	12440						
569943H	208	273	0.12	0.017	0.14	12180						
569944H	208	273	0.10	0.018	0.21	13240						
569945H	208	273	0.19	0.034	0.21	13360						
569946H	208	273	0.16	0.014	0.21	13370						
569947H	208	273	0.11	0.055	0.17	13280						
569948H	208	--	0.11	0.013	0.14	73600						
569949H	208	273	0.14	0.015	0.24	11860						
569950H	208	273	0.18	0.013	0.24	15600						
569951H	208	--	0.18	0.013	0.27	81800						
569952H	208	276	0.11	0.022	0.17	11100						
569953H	208	--	0.09	0.027	0.10	66400						
569954H	208	--	0.10	0.010	0.10	80400						
569955H	208	273	0.09	0.018	0.14	11860						
569956H	208	273	0.06	0.011	0.07	11940						
569957H	208	276	0.11	0.037	0.10	10060						
569958H	208	273	0.08	0.013	0.10	14700						
569959H	208	273	0.03	0.004	0.07	13080						
569960H	208	273	0.03	0.014	0.07	12740						
569961H	208	273	0.10	0.010	0.14	13000						
569962H	208	273	0.14	0.056	0.17	12600						
569963H	208	273	0.11	0.038	0.17	12160						
569964H	208	273	0.02	0.011	0.10	12460						
569965H	208	273	0.24	0.023	0.24	13860						
569966H	208	273	0.10	0.019	0.21	12640						
569967H	208	273	0.15	0.052	0.14	13560						
569968H	208	--	0.37	0.028	0.24	56000						

CERTIFICATION:_____

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 194
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Certificate Date: 14-SEP-93
Invoice No. : I9320572
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Account : FC

CERTIFICATE OF ANALYSIS A9320572

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
569969H	208 273	0.21	0.052	0.17	13500
569970H	208 273	0.14	0.025	0.14	13280
569971H	208 273	0.14	0.044	0.10	12860
569972H	208 276	0.14	0.014	0.14	11300
569973H	208 276	0.09	0.010	0.10	11560
569974H	208 273	0.07	0.008	0.10	12200
569975H	208 273	0.04	0.012	0.07	13400
569976H	208 273	0.05	0.020	0.07	13100
569977H	208 273	0.05	0.008	0.10	12200
569978H	208 276	0.04	0.006	0.03	10480
569979H	208 273	0.09	0.037	0.14	12400
569980H	208 273	0.07	0.012	0.07	14850
569981H	208 273	0.09	0.014	0.10	13650
569982H	208 273	0.02	0.005	0.03	13100
569983H	208 273	0.06	0.018	0.07	12800
569984H	208 273	0.03	0.008	0.07	12560
569985H	208 273	0.02	0.005	0.03	13880
569986H	208 273	0.05	0.004	0.07	13100
569987H	208 273	0.04	0.008	< 0.03	13460
569988H	208 273	0.03	0.005	0.10	13580
569989H	208 273	0.03	0.004	< 0.03	13620
569990H	208 273	0.02	0.004	0.03	14400
569991H	208 273	0.04	0.005	0.07	12720
569992H	208 276	0.21	0.022	0.21	11060
569993H	208 273	0.13	0.022	0.14	11960
569994H	208 273	0.09	0.017	0.07	12260
569995H	208 273	0.11	0.013	0.10	12800

CERTIFICATION:_____

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: CHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 194
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. : I9320573
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320573

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569849H	299	229	2.4	1.06	16	100	< 0.5	< 2	0.03	< 0.5	5	81	461	7.14	< 10	< 1	0.47	20	0.48	120	151
569850H	299	229	3.8	0.89	24	70	< 0.5	< 2	0.02	< 0.5	4	82	567	6.90	< 10	< 1	0.40	20	0.35	115	121
569851H	299	229	4.6	0.85	32	120	< 0.5	4	0.01	< 0.5	1	92	470	5.90	< 10	< 1	0.61	20	0.30	70	98
569852H	299	229	2.8	0.96	32	80	< 0.5	6	0.01	< 0.5	6	82	573	5.54	< 10	< 1	0.40	10	0.46	120	73
569853H	299	229	2.0	0.97	78	60	< 0.5	< 2	0.01	< 0.5	11	87	491	4.65	< 10	< 1	0.36	20	0.53	100	117
569854H	299	229	1.8	0.82	52	30	< 0.5	< 2	0.02	< 0.5	12	64	649	6.05	< 10	< 1	0.23	20	0.44	125	139
569855H	299	229	1.8	1.36	8	40	< 0.5	< 2	0.02	< 0.5	12	97	733	5.64	< 10	< 1	0.54	10	1.02	180	70
569856H	299	229	2.2	0.96	16	20	< 0.5	< 2	0.04	< 0.5	11	68	975	4.95	< 10	< 1	0.28	30	0.51	150	99
569857H	299	229	2.4	1.31	16	90	< 0.5	< 2	0.07	< 0.5	14	79	1540	4.67	10	< 1	0.48	40	0.79	170	124
569858H	299	229	2.2	1.17	2	40	< 0.5	< 2	0.03	< 0.5	9	86	821	4.57	< 10	< 1	0.38	30	0.71	155	114
569859H	299	229	1.6	1.47	< 2	40	< 0.5	< 2	0.05	< 0.5	15	84	1170	6.02	< 10	< 1	0.47	20	0.93	210	80
569860H	299	229	1.0	1.31	6	70	< 0.5	< 2	0.05	< 0.5	15	90	1415	6.27	10	< 1	0.42	30	0.55	220	105
569861H	299	229	3.4	0.90	22	80	< 0.5	< 2	0.02	< 0.5	10	83	1605	7.15	< 10	< 1	0.45	30	0.31	125	97
569862H	299	229	1.6	1.00	18	120	< 0.5	< 2	0.02	< 0.5	10	80	2160	4.87	< 10	< 1	0.50	40	0.37	150	99
569863H	299	229	2.4	1.23	18	580	< 0.5	< 2	0.03	< 0.5	9	89	1655	6.02	< 10	< 1	0.36	20	0.67	165	54
569864H	299	229	3.2	1.27	8	260	< 0.5	< 2	0.03	< 0.5	9	85	1360	5.97	< 10	< 1	0.43	20	0.72	155	52
569865H	299	229	3.2	1.37	6	90	< 0.5	< 2	0.03	< 0.5	11	89	1170	6.31	< 10	< 1	0.48	20	0.93	210	66
569866H	299	229	2.6	1.11	12	60	< 0.5	< 2	0.03	< 0.5	7	71	1240	5.20	< 10	< 1	0.37	20	0.70	155	54
569867H	299	229	2.4	1.24	38	40	< 0.5	< 2	0.04	< 0.5	11	75	1710	7.50	< 10	< 1	0.40	20	0.85	185	64
569868H	299	229	3.2	1.47	14	90	< 0.5	2	0.04	< 0.5	10	69	1565	5.47	< 10	< 1	0.58	20	1.03	180	94
569869H	299	229	2.0	1.32	14	60	< 0.5	< 2	0.07	< 0.5	11	75	1225	6.96	< 10	< 1	0.45	20	0.92	190	53
569870H	299	229	3.0	1.18	8	600	< 0.5	< 2	0.04	< 0.5	12	76	1645	4.23	< 10	< 1	0.53	30	0.73	165	97
569871H	299	229	2.4	1.30	16	710	< 0.5	< 2	0.04	< 0.5	10	88	1620	4.43	< 10	< 1	0.53	20	0.73	165	64
569872H	299	229	13.6	1.03	40	110	< 0.5	8	0.03	< 0.5	9	84	1990	6.49	< 10	< 1	0.57	20	0.28	95	197
569873H	299	229	5.0	1.13	22	150	< 0.5	< 2	0.02	< 0.5	11	83	1290	5.02	< 10	< 1	0.82	40	0.47	155	81
569874H	299	229	5.0	0.98	26	70	< 0.5	< 2	0.02	< 0.5	8	76	2100	4.50	< 10	< 1	0.52	30	0.30	90	82
569875H	299	229	4.8	0.77	34	80	< 0.5	12	0.02	< 0.5	10	87	2460	4.77	< 10	< 1	0.45	40	0.13	100	78
569876H	299	229	3.6	0.72	22	40	< 0.5	< 2	0.04	< 0.5	13	91	2850	4.89	10	< 1	0.33	60	0.21	175	76
569877H	299	229	2.4	1.29	10	160	< 0.5	2	0.17	< 0.5	11	85	2520	4.92	< 10	< 1	0.34	20	0.77	290	90
569878H	299	229	4.4	0.91	36	40	< 0.5	2	0.21	< 0.5	17	79	3270	5.53	< 10	< 1	0.40	20	0.49	235	92
569879H	299	229	5.2	0.68	76	80	< 0.5	8	0.14	< 0.5	11	81	5770	5.25	< 10	< 1	0.51	20	0.08	165	97
569880H	299	229	4.4	0.81	40	70	< 0.5	< 2	0.20	0.5	12	75	2520	5.59	< 10	< 1	0.39	40	0.19	320	89
569881H	299	229	7.6	0.64	54	70	< 0.5	4	0.11	< 0.5	13	77	3530	6.11	< 10	< 1	0.40	20	0.13	200	104
569882H	299	229	9.0	1.07	42	50	< 0.5	8	0.17	< 0.5	19	72	4380	6.59	< 10	< 1	0.33	20	0.67	285	82
569883H	299	229	3.6	1.32	4	60	< 0.5	< 2	0.32	0.5	19	98	3820	5.12	< 10	< 1	0.37	20	1.00	490	76
569884H	299	229	3.2	1.23	18	50	< 0.5	< 2	0.52	1.0	21	78	2620	5.09	10	< 1	0.26	30	0.95	745	67
569885H	299	229	3.6	1.48	10	70	< 0.5	< 2	0.53	0.5	22	90	2470	4.04	< 10	< 1	0.37	20	1.11	415	61
569886H	299	229	1.6	1.22	12	70	< 0.5	< 2	0.59	0.5	16	71	1930	5.23	10	< 1	0.30	20	0.92	545	50
569887H	299	229	7.4	0.84	72	30	< 0.5	< 2	0.41	3.0	23	71	5780	5.41	< 10	< 1	0.28	20	0.39	580	136
569888H	299	229	4.8	1.23	26	50	< 0.5	4	0.41	0.5	30	69	4030	6.14	< 10	< 1	0.47	20	0.60	355	110

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 194
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nun. :1-B
Total Pages :4
Certificate Date: 13-SEP-93
Invoice No. :19320573
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320573

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569849H	299	229	0.03	7	460	14	4	2	12	0.01	< 10	< 10	31	20	54
569850H	299	229	0.02	4	340	20	2	1	10	< 0.01	< 10	< 10	24	20	54
569851H	299	229	0.02	3	340	26	2	1	13	< 0.01	< 10	< 10	23	< 10	44
569852H	299	229	0.03	4	370	12	2	1	10	< 0.01	< 10	< 10	23	< 10	54
569853H	299	229	0.03	6	250	18	4	1	11	< 0.01	< 10	< 10	23	< 10	68
569854H	299	229	0.03	9	400	18	< 2	1	8	< 0.01	< 10	< 10	27	10	84
569855H	299	229	0.02	9	340	16	< 2	3	8	0.02	< 10	< 10	36	10	104
569856H	299	229	0.03	6	430	26	< 2	1	8	< 0.01	< 10	< 10	33	10	74
569857H	299	229	0.02	8	550	24	< 2	3	10	0.03	< 10	< 10	37	10	90
569858H	299	229	0.02	6	400	10	2	2	11	< 0.01	< 10	< 10	34	10	74
569859H	299	229	0.03	8	390	20	< 2	3	9	0.02	< 10	< 10	46	10	90
569860H	299	229	0.02	8	470	32	2	2	10	0.01	< 10	< 10	31	30	88
569861H	299	229	0.03	7	520	20	< 2	2	12	< 0.01	< 10	< 10	33	30	104
569862H	299	229	0.01	7	450	16	2	3	14	0.01	< 10	< 10	35	10	108
569863H	299	229	0.02	10	420	12	2	3	15	0.01	< 10	< 10	35	20	88
569864H	299	229	0.03	9	430	24	< 2	2	14	0.01	< 10	< 10	28	10	86
569865H	299	229	0.02	10	400	12	< 2	3	10	0.02	< 10	< 10	41	10	92
569866H	299	229	0.03	7	370	8	2	2	10	0.01	< 10	< 10	28	10	78
569867H	299	229	0.03	10	390	16	< 2	2	9	0.01	< 10	< 10	36	20	82
569868H	299	229	0.03	9	430	16	2	3	11	0.03	< 10	< 10	40	10	94
569869H	299	229	0.03	9	430	12	< 2	3	8	0.02	< 10	< 10	44	20	82
569870H	299	229	0.01	8	370	12	2	3	15	0.02	< 10	< 10	34	10	114
569871H	299	229	0.02	8	370	16	< 2	3	17	0.02	< 10	< 10	32	10	96
569872H	299	229	0.02	7	700	32	6	2	15	< 0.01	< 10	< 10	25	10	104
569873H	299	229	0.02	7	560	22	2	4	21	0.02	< 10	< 10	33	10	164
569874H	299	229	0.02	5	500	16	< 2	3	18	0.01	< 10	< 10	28	10	94
569875H	299	229	0.02	9	700	24	2	3	17	< 0.01	< 10	< 10	22	< 10	122
569876H	299	229	0.01	8	530	22	< 2	3	15	< 0.01	< 10	< 10	28	10	128
569877H	299	229	0.01	11	450	14	2	3	8	0.01	< 10	< 10	36	10	118
569878H	299	229	0.02	7	480	26	2	2	17	< 0.01	< 10	< 10	22	10	106
569879H	299	229	0.01	8	620	30	4	2	16	< 0.01	< 10	< 10	19	20	72
569880H	299	229	0.01	9	770	26	2	3	18	< 0.01	< 10	< 10	33	20	112
569881H	299	229	0.02	8	460	30	2	2	22	< 0.01	< 10	< 10	23	10	116
569882H	299	229	0.01	12	490	38	2	2	8	< 0.01	< 10	< 10	26	30	72
569883H	299	229	0.02	13	550	10	< 2	3	9	0.01	< 10	< 10	43	20	120
569884H	299	229	0.01	14	510	20	4	2	12	0.01	< 10	< 10	36	20	150
569885H	299	229	0.02	12	560	18	< 2	3	13	0.01	< 10	< 10	37	< 10	116
569886H	299	229	0.02	15	570	14	2	3	15	0.01	< 10	< 10	40	20	142
569887H	299	229	0.01	12	440	32	12	2	7	< 0.01	< 10	< 10	24	20	186
569888H	299	229	0.01	12	590	18	< 2	3	9	0.01	< 10	< 10	29	20	106

CERTIFICATION: _____

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 194
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Num. :2-A
Total Pages :4
Certificate Date: 13-SEP-93
Invoice No. :I9320573
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320573

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569889H	299	229	6.8	1.61	256	100	< 0.5	< 2	0.33	4.5	16	119	7300	4.93	10	< 1	0.39	20	0.40	555	142
569890H	299	229	1.4	1.82	< 2	220	< 0.5	< 2	0.53	0.5	17	142	2090	5.09	10	< 1	0.68	20	1.19	425	61
569891H	299	229	1.4	1.32	14	160	< 0.5	< 2	0.70	1.0	11	119	2170	5.07	10	< 1	0.41	20	0.86	435	57
569892H	299	229	2.2	1.17	142	60	< 0.5	< 2	0.70	2.0	17	129	3170	6.95	10	< 1	0.34	10	0.63	1745	100
569893H	299	229	2.0	1.62	20	50	< 0.5	< 2	0.43	0.5	18	119	2490	5.85	10	< 1	0.42	20	0.66	555	100
569894H	299	229	2.2	1.54	32	70	< 0.5	< 2	0.51	0.5	18	113	2010	6.75	10	< 1	0.57	20	0.98	440	71
569895H	299	229	1.4	1.52	< 2	100	< 0.5	< 2	0.32	0.5	16	123	1805	6.37	10	< 1	0.48	20	0.99	325	54
569896H	299	229	1.2	1.59	8	90	< 0.5	< 2	0.17	< 0.5	16	127	2440	7.24	10	< 1	0.55	40	0.98	180	62
569897H	299	229	0.8	1.62	4	40	< 0.5	< 2	0.15	0.5	16	130	2060	6.52	10	< 1	0.62	50	0.84	150	68
569898H	299	229	1.2	1.72	< 2	80	< 0.5	< 2	0.17	1.0	19	138	3080	6.36	10	< 1	0.61	20	1.03	185	102
569899H	299	229	1.0	1.71	4	130	< 0.5	< 2	0.18	< 0.5	15	155	3230	5.57	10	< 1	0.62	20	1.05	150	44
569900H	299	229	1.8	1.41	< 2	40	< 0.5	< 2	0.49	2.5	24	150	4900	5.56	10	< 1	0.58	30	0.64	445	180
569901H	299	229	2.2	1.52	6	80	< 0.5	< 2	0.23	< 0.5	16	115	5280	5.83	10	< 1	0.48	30	0.50	140	116
569902H	299	229	1.6	1.33	12	90	< 0.5	< 2	0.20	1.5	17	157	3290	4.47	10	< 1	0.48	30	0.32	315	88
569903H	299	229	2.0	1.29	8	40	< 0.5	< 2	0.24	1.0	21	119	3370	5.83	10	< 1	0.54	30	0.29	365	126
569904H	299	229	2.4	1.17	2	70	< 0.5	< 2	0.57	1.0	20	129	2480	5.00	10	< 1	0.51	20	0.44	475	213
569905H	299	229	2.0	1.28	12	60	< 0.5	< 2	0.33	0.5	16	166	2050	6.37	10	< 1	0.50	20	0.55	470	98
569906H	299	229	2.8	0.94	78	30	< 0.5	2	0.23	2.5	19	101	4510	5.82	10	< 1	0.32	20	0.22	365	103
569907H	299	229	2.0	1.28	34	100	< 0.5	< 2	0.56	1.5	15	173	2340	5.15	10	< 1	0.58	20	0.70	510	81
569908H	299	229	1.8	1.27	12	70	< 0.5	< 2	0.30	0.5	15	88	2220	6.57	10	< 1	0.32	20	0.84	350	115
569909H	299	229	1.6	1.34	2	90	< 0.5	< 2	0.23	1.0	19	135	2030	6.27	20	< 1	0.47	40	0.83	325	49
569910H	299	229	1.2	0.98	< 2	60	< 0.5	< 2	0.27	1.5	24	84	1520	5.83	20	< 1	0.27	50	0.77	450	93
569911H	299	229	1.6	1.57	6	110	< 0.5	< 2	0.25	1.0	24	114	2970	4.87	20	< 1	0.51	60	1.04	415	113
569912H	299	229	1.2	1.79	4	140	< 0.5	< 2	0.23	0.5	19	88	2460	3.87	10	< 1	0.58	30	1.42	270	86
569913H	299	229	1.4	1.94	14	150	< 0.5	< 2	0.43	1.0	25	134	1950	5.16	20	< 1	0.65	60	1.35	445	260
569914H	299	229	1.8	1.76	12	70	< 0.5	< 2	0.28	0.5	23	99	2080	4.58	20	< 1	0.37	20	1.13	415	157
569915H	299	229	2.0	2.07	20	90	< 0.5	< 2	0.31	1.0	17	124	2030	4.71	20	< 1	0.59	10	1.27	245	44
569916H	299	229	2.0	1.64	14	40	< 0.5	< 2	0.22	3.5	17	75	2640	4.84	10	< 1	0.37	10	1.29	185	44
569917H	299	229	1.2	2.08	18	120	< 0.5	< 2	0.47	< 0.5	19	130	3140	5.11	20	< 1	0.78	20	1.49	150	161
569918H	299	229	0.8	1.94	< 2	80	< 0.5	< 2	1.20	0.5	18	99	1505	4.76	20	< 1	0.71	30	1.50	265	53
569919H	299	229	0.8	2.03	6	120	< 0.5	< 2	2.07	< 0.5	17	173	1280	4.26	10	< 1	0.69	10	1.42	265	68
569920H	299	229	0.8	1.70	< 2	100	< 0.5	< 2	1.49	< 0.5	25	109	1195	4.92	10	< 1	0.54	10	1.37	215	55
569921H	299	229	0.8	1.80	22	100	< 0.5	< 2	1.67	< 0.5	21	190	792	5.24	20	< 1	0.64	10	1.05	445	120
569922H	299	229	0.8	1.72	2	110	< 0.5	< 2	1.52	< 0.5	20	148	954	4.67	20	< 1	0.57	10	1.37	270	137
569923H	299	229	0.6	1.87	6	150	< 0.5	< 2	1.45	< 0.5	17	195	800	4.28	10	< 1	0.70	10	1.45	255	42
569924H	299	229	1.2	1.62	2	90	< 0.5	< 2	1.45	< 0.5	15	92	1035	4.28	10	< 1	0.52	10	1.30	360	86
569925H	299	229	5.4	1.48	22	40	< 0.5	132	1.31	0.5	24	93	4190	5.26	10	< 1	0.51	10	1.09	290	113
569926H	299	229	1.2	1.64	10	90	< 0.5	< 2	1.26	< 0.5	14	124	1140	4.32	10	< 1	0.46	10	1.21	260	38
569927H	299	229	0.6	1.61	4	200	< 0.5	< 2	1.12	< 0.5	15	110	664	3.33	10	< 1	0.55	10	1.41	185	32
569928H	299	229	1.2	1.74	22	140	< 0.5	< 2	1.25	< 0.5	17	152	1470	3.72	10	< 1	0.58	10	1.40	195	110

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569889H	299	229	0.01	10	390	50	40	3	15	0.01	< 10	< 10	30	10	232
569890H	299	229	0.03	10	550	2	< 2	7	16	0.06	< 10	< 10	62	10	90
569891H	299	229	0.02	11	500	8	< 2	3	17	0.02	< 10	< 10	36	20	90
569892H	299	229	0.02	12	480	18	8	2	17	< 0.01	< 10	< 10	27	20	134
569893H	299	229	0.01	9	520	6	2	3	9	0.01	< 10	< 10	26	20	104
569894H	299	229	0.02	11	540	12	< 2	4	14	0.03	< 10	< 10	37	20	88
569895H	299	229	0.03	12	530	4	< 2	5	14	0.03	< 10	< 10	51	20	100
569896H	299	229	0.03	14	520	12	< 2	5	11	0.03	< 10	< 10	52	30	96
569897H	299	229	0.02	12	520	6	< 2	3	13	0.02	< 10	< 10	31	20	88
569898H	299	229	0.02	14	520	6	< 2	4	10	0.03	< 10	< 10	42	20	94
569899H	299	229	0.03	17	520	10	< 2	5	14	0.04	< 10	< 10	49	10	94
569900H	299	229	0.02	15	630	14	< 2	3	17	0.01	< 10	< 10	28	10	156
569901H	299	229	0.01	13	580	20	< 2	2	18	< 0.01	< 10	< 10	25	10	116
569902H	299	229	0.01	10	500	8	< 2	3	11	0.01	< 10	< 10	22	< 10	136
569903H	299	229	0.01	13	510	12	< 2	2	15	< 0.01	< 10	< 10	22	10	124
569904H	299	229	0.01	9	510	16	< 2	2	20	< 0.01	< 10	< 10	16	10	102
569905H	299	229	0.02	12	460	10	< 2	2	17	< 0.01	< 10	< 10	26	10	108
569906H	299	229	0.01	12	440	32	4	2	13	< 0.01	< 10	< 10	11	10	204
569907H	299	229	0.02	11	470	12	2	4	18	0.01	< 10	< 10	32	10	124
569908H	299	229	0.01	13	500	12	< 2	3	12	0.01	< 10	< 10	33	20	92
569909H	299	229	0.03	14	620	12	< 2	4	14	0.02	< 10	< 10	41	10	92
569910H	299	229	0.02	14	710	14	< 2	3	12	0.01	< 10	< 10	34	10	128
569911H	299	229	0.04	17	770	16	< 2	4	17	0.03	< 10	< 10	41	20	150
569912H	299	229	0.03	20	760	14	< 2	6	15	0.07	< 10	< 10	54	10	106
569913H	299	229	0.05	21	790	22	2	7	22	0.04	< 10	< 10	57	10	170
569914H	299	229	0.03	19	820	28	2	4	16	0.01	< 10	< 10	38	20	198
569915H	299	229	0.06	19	880	28	< 2	4	22	0.03	< 10	< 10	46	10	200
569916H	299	229	0.02	17	740	86	< 2	3	12	0.03	< 10	< 10	39	20	340
569917H	299	229	0.05	21	850	14	2	6	23	0.07	< 10	< 10	55	20	62
569918H	299	229	0.03	19	910	6	< 2	8	30	0.06	< 10	< 10	56	10	86
569919H	299	229	0.05	18	870	8	2	6	106	0.05	< 10	< 10	50	10	62
569920H	299	229	0.03	17	910	4	< 2	4	133	0.05	< 10	< 10	45	10	56
569921H	299	229	0.04	17	850	30	4	4	97	0.03	< 10	< 10	41	20	62
569922H	299	229	0.04	18	760	4	< 2	6	177	0.04	< 10	< 10	55	10	64
569923H	299	229	0.06	19	820	6	< 2	8	91	0.07	< 10	< 10	67	10	76
569924H	299	229	0.02	15	800	4	< 2	4	98	0.04	< 10	< 10	40	20	72
569925H	299	229	0.02	15	870	22	< 2	4	70	0.05	< 10	< 10	35	10	68
569926H	299	229	0.03	16	940	6	< 2	4	126	0.04	< 10	< 10	34	10	60
569927H	299	229	0.04	17	1000	6	< 2	6	78	0.09	< 10	< 10	51	< 10	54
569928H	299	229	0.04	18	950	4	< 2	6	97	0.08	< 10	< 10	52	10	50

CERTIFICATION: Stewart Bradshaw

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569929H	299	229	1.2	1.72	14	120	< 0.5	< 2	1.21	< 0.5	13	159	1690	3.74	10	< 1	0.72	20	1.35	185	91
569930H	299	229	0.8	1.58	22	90	< 0.5	< 2	1.22	< 0.5	16	129	919	3.31	10	< 1	0.58	10	1.28	180	75
569931H	299	229	1.4	1.55	22	90	< 0.5	< 2	1.26	< 0.5	19	139	1080	3.35	10	< 1	0.58	10	1.26	195	147
569932H	299	229	1.0	1.59	22	100	< 0.5	< 2	1.32	< 0.5	20	133	943	3.76	10	< 1	0.61	20	1.19	240	87
569933H	299	229	2.2	1.66	30	50	< 0.5	22	1.40	< 0.5	19	109	2080	4.28	10	< 1	0.61	20	1.15	245	98
569934H	299	229	2.0	1.64	12	80	< 0.5	8	1.13	< 0.5	20	104	1985	4.90	20	< 1	0.41	10	1.24	240	624
569935H	299	229	1.2	1.66	8	110	< 0.5	< 2	1.02	< 0.5	18	114	1365	4.07	10	< 1	0.46	20	1.13	210	135
569936H	299	229	2.8	1.53	26	110	< 0.5	4	1.18	< 0.5	18	113	1695	4.84	10	< 1	0.47	10	1.06	240	128
569937H	299	229	1.6	1.74	16	150	< 0.5	28	0.84	< 0.5	16	105	1270	3.67	10	< 1	0.59	10	1.32	235	142
569938H	299	229	1.6	1.92	14	100	< 0.5	40	0.95	< 0.5	19	108	1255	4.29	10	< 1	0.59	< 10	1.32	295	74
569939H	299	229	1.4	1.67	16	180	< 0.5	2	0.81	< 0.5	13	103	1080	3.70	10	< 1	0.53	10	1.28	315	51
569940H	299	229	1.8	1.73	24	70	< 0.5	22	1.38	< 0.5	13	109	1255	4.22	10	< 1	0.64	10	1.13	305	78
569941H	299	229	1.6	1.90	22	190	< 0.5	< 2	1.11	< 0.5	14	124	1020	3.49	10	< 1	0.68	10	1.40	320	86
569942H	299	229	2.0	2.19	30	140	< 0.5	< 2	2.23	< 0.5	17	107	1570	3.53	10	< 1	0.56	< 10	1.31	390	140
569943H	299	229	1.4	1.80	18	100	< 0.5	< 2	1.03	< 0.5	15	115	1160	3.50	10	< 1	0.57	20	1.20	190	94
569944H	299	229	0.8	1.83	12	130	< 0.5	< 2	1.00	< 0.5	14	107	1105	3.56	10	< 1	0.62	10	1.24	170	98
569945H	299	229	1.4	1.42	14	250	< 0.5	2	4.13	< 0.5	12	96	1750	2.90	10	< 1	0.53	< 10	0.71	330	177
569946H	299	229	1.4	1.67	32	110	< 0.5	< 2	1.04	< 0.5	13	116	1550	3.08	10	< 1	0.67	20	1.29	160	79
569947H	299	229	1.0	1.56	26	100	< 0.5	< 2	1.28	< 0.5	19	115	1145	3.59	10	< 1	0.46	10	1.16	170	299
569948H	299	229	1.2	1.63	22	160	< 0.5	< 2	0.93	< 0.5	11	112	1075	2.83	10	< 1	0.55	10	1.35	175	71
569949H	299	229	1.4	1.71	28	140	< 0.5	< 2	1.25	< 0.5	14	108	1345	3.31	10	< 1	0.44	10	1.23	195	84
569950H	299	229	2.0	1.76	22	100	< 0.5	2	2.12	< 0.5	16	97	1825	3.61	10	< 1	0.62	10	1.07	385	76
569951H	299	229	1.8	2.31	16	110	< 0.5	22	2.53	< 0.5	15	82	1695	4.27	10	< 1	0.39	< 10	1.32	365	71
569952H	299	229	0.8	2.26	16	140	< 0.5	< 2	0.95	< 0.5	14	109	1005	4.15	10	< 1	0.66	< 10	1.53	200	124
569953H	299	229	1.2	1.86	20	240	< 0.5	< 2	0.68	< 0.5	12	107	909	4.01	10	< 1	0.70	10	1.40	215	151
569954H	299	229	1.0	1.83	18	170	< 0.5	< 2	0.79	< 0.5	15	98	950	3.51	10	< 1	0.59	< 10	1.33	200	59
569955H	299	229	0.8	1.61	4	230	< 0.5	< 2	0.79	< 0.5	10	109	780	3.13	10	< 1	0.68	10	1.33	175	101
569956H	299	229	0.4	1.82	14	240	< 0.5	< 2	0.86	< 0.5	10	106	551	3.05	10	< 1	0.73	< 10	1.40	200	67
569957H	299	229	0.6	1.87	14	150	< 0.5	< 2	1.47	< 0.5	15	113	996	3.60	10	< 1	0.73	< 10	1.23	190	199
569958H	299	229	0.6	1.69	14	200	< 0.5	< 2	1.08	< 0.5	12	117	678	3.10	10	< 1	0.74	10	1.23	190	73
569959H	299	229	0.2	1.63	8	330	< 0.5	< 2	0.83	< 0.5	11	120	303	2.77	10	< 1	1.06	10	1.41	170	28
569960H	299	229	0.2	1.53	12	270	< 0.5	< 2	1.46	1.5	12	137	309	2.72	10	< 1	0.85	< 10	1.33	215	84
569961H	299	229	0.6	1.69	16	150	< 0.5	< 2	1.20	1.0	22	118	835	3.07	10	< 1	0.77	< 10	1.32	235	60
569962H	299	229	1.4	1.89	14	80	< 0.5	< 2	2.69	< 0.5	34	99	1360	5.80	10	< 1	0.73	< 10	1.10	285	296
569963H	299	229	0.8	2.32	14	120	< 0.5	< 2	4.06	1.0	22	113	1045	3.88	10	< 1	0.77	< 10	1.30	280	181
569964H	299	229	< 0.2	2.30	< 2	140	< 0.5	< 2	2.79	0.5	24	117	194	4.99	10	< 1	0.98	< 10	1.56	265	56
569965H	299	229	1.8	1.68	22	90	< 0.5	< 2	2.30	7.5	29	77	2340	5.36	10	< 1	0.62	< 10	1.18	310	116
569966H	299	229	1.2	1.85	56	60	< 0.5	< 2	2.72	0.5	20	98	965	5.46	10	< 1	0.72	< 10	1.29	505	95
569967H	299	229	4.4	1.33	18	90	< 0.5	16	2.14	0.5	23	67	1550	5.30	10	< 1	0.53	< 10	1.18	430	272
569968H	299	229	3.4	1.81	10	90	< 0.5	< 2	2.01	< 0.5	14	83	3710	3.26	10	< 1	0.68	10	0.89	160	145

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9320573

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569929H	299	229	0.06	17	1010	4	< 2	6	75	0.10	< 10	< 10	52	< 10	44
569930H	299	229	0.06	17	920	4	< 2	6	86	0.09	< 10	< 10	51	< 10	54
569931H	299	229	0.06	17	890	6	< 2	5	122	0.08	< 10	< 10	47	10	70
569932H	299	229	0.06	22	850	6	< 2	6	95	0.08	< 10	< 10	51	< 10	60
569933H	299	229	0.04	16	810	8	< 2	6	54	0.06	< 10	< 10	46	10	56
569934H	299	229	0.04	17	840	< 2	2	4	113	0.04	< 10	< 10	39	10	64
569935H	299	229	0.05	18	820	2	< 2	6	68	0.05	< 10	< 10	48	< 10	50
569936H	299	229	0.04	17	950	6	2	4	66	0.05	< 10	< 10	49	30	66
569937H	299	229	0.05	17	900	16	2	6	60	0.13	< 10	< 10	54	30	82
569938H	299	229	0.04	17	890	18	< 2	4	56	0.10	< 10	< 10	47	20	116
569939H	299	229	0.06	16	820	6	< 2	4	53	0.09	< 10	< 10	52	20	108
569940H	299	229	0.04	15	810	10	< 2	4	102	0.05	< 10	< 10	35	10	84
569941H	299	229	0.06	18	850	6	< 2	6	74	0.08	< 10	< 10	50	< 10	84
569942H	299	229	0.03	16	870	8	2	4	80	0.04	< 10	< 10	38	< 10	66
569943H	299	229	0.05	15	870	4	< 2	5	65	0.06	< 10	< 10	43	< 10	44
569944H	299	229	0.05	17	860	2	2	6	70	0.08	< 10	< 10	46	10	38
569945H	299	229	0.03	13	770	4	2	4	105	0.04	< 10	< 10	32	< 10	30
569946H	299	229	0.05	16	820	6	< 2	6	135	0.08	< 10	< 10	46	10	38
569947H	299	229	0.06	17	850	6	2	4	81	0.03	< 10	< 10	40	30	34
569948H	299	229	0.06	15	930	4	< 2	5	40	0.06	< 10	< 10	47	10	34
569949H	299	229	0.04	17	840	< 2	< 2	4	51	0.04	< 10	< 10	44	20	40
569950H	299	229	0.04	17	900	24	< 2	6	81	0.05	< 10	< 10	48	< 10	66
569951H	299	229	0.02	17	840	24	< 2	4	94	0.02	< 10	< 10	37	60	44
569952H	299	229	0.07	18	890	4	< 2	7	90	0.17	< 10	< 10	64	20	34
569953H	299	229	0.08	17	860	2	< 2	6	102	0.20	< 10	< 10	63	< 10	52
569954H	299	229	0.08	17	830	6	< 2	5	130	0.17	< 10	< 10	55	10	40
569955H	299	229	0.08	16	820	8	< 2	6	64	0.19	< 10	< 10	58	20	36
569956H	299	229	0.08	15	860	16	< 2	6	62	0.18	< 10	< 10	56	10	36
569957H	299	229	0.08	16	750	6	< 2	6	107	0.08	< 10	< 10	47	30	40
569958H	299	229	0.08	16	790	10	< 2	6	75	0.11	< 10	< 10	52	10	40
569959H	299	229	0.07	15	840	2	< 2	7	71	0.16	< 10	< 10	63	< 10	34
569960H	299	229	0.07	16	810	8	< 2	7	180	0.13	< 10	< 10	55	10	90
569961H	299	229	0.08	15	840	14	< 2	6	96	0.11	< 10	< 10	51	< 10	52
569962H	299	229	0.06	15	860	6	< 2	7	87	0.07	< 10	< 10	56	300	36
569963H	299	229	0.12	11	710	30	< 2	5	294	0.08	< 10	< 10	47	100	82
569964H	299	229	0.08	19	1200	8	< 2	7	185	0.08	< 10	< 10	52	10	46
569965H	299	229	0.06	18	730	100	< 2	5	150	0.04	< 10	< 10	43	20	216
569966H	299	229	0.03	16	640	12	2	5	103	0.04	< 10	< 10	38	< 10	50
569967H	299	229	0.02	17	820	28	2	5	134	0.03	< 10	< 10	36	< 10	40
569968H	299	229	0.02	15	770	2	< 2	6	111	0.01	< 10	< 10	32	< 10	24

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ...CHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 194
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Account :FC

CERTIFICATE OF ANALYSIS A9320573

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569969H	299	229	2.0	1.90	20	120	< 0.5	< 2	1.66	< 0.5	23	91	2070	4.44	10	< 1	0.63	20	1.04	185	284
569970H	299	229	1.4	2.42	28	180	< 0.5	< 2	1.80	< 0.5	19	83	1375	3.05	10	1	0.84	< 10	1.41	200	150
569971H	299	229	1.2	2.11	18	160	< 0.5	< 2	2.94	< 0.5	12	106	1335	3.54	10	< 1	0.53	< 10	0.93	225	239
569972H	299	229	1.6	1.58	22	40	< 0.5	4	1.86	< 0.5	15	57	1370	4.53	10	< 1	0.35	< 10	0.92	185	81
569973H	299	229	0.6	2.12	24	240	< 0.5	< 2	1.28	< 0.5	12	117	858	3.58	10	< 1	0.73	< 10	1.33	185	65
569974H	299	229	0.6	1.88	12	300	< 0.5	< 2	0.85	< 0.5	12	84	670	4.18	10	< 1	1.02	< 10	1.52	200	57
569975H	299	229	0.4	1.78	20	280	< 0.5	< 2	0.90	< 0.5	10	126	428	3.44	10	< 1	1.02	< 10	1.34	175	69
569976H	299	229	0.4	1.65	26	150	< 0.5	< 2	1.30	< 0.5	11	90	551	3.48	10	1	0.84	< 10	1.30	175	111
569977H	299	229	0.4	1.86	20	210	< 0.5	< 2	0.89	< 0.5	10	123	535	3.95	10	< 1	1.04	< 10	1.37	185	47
569978H	299	229	0.4	1.69	12	160	< 0.5	< 2	0.92	< 0.5	9	88	368	3.59	10	< 1	1.01	< 10	1.34	160	42
569979H	299	229	0.6	1.94	20	120	< 0.5	< 2	1.41	< 0.5	14	110	830	3.98	10	< 1	1.21	< 10	1.42	175	191
569980H	299	229	0.6	1.70	24	200	< 0.5	< 2	1.71	< 0.5	10	75	591	3.31	10	< 1	0.81	10	1.09	170	64
569981H	299	229	0.8	2.00	24	240	< 0.5	< 2	1.39	< 0.5	12	108	846	3.81	10	< 1	0.92	10	1.23	165	75
569982H	299	229	0.4	1.67	28	340	< 0.5	< 2	1.10	< 0.5	9	103	413	3.05	10	< 1	1.06	20	1.33	160	47
569983H	299	229	0.6	1.82	26	320	< 0.5	< 2	1.16	< 0.5	11	127	589	3.21	10	< 1	1.16	20	1.30	165	105
569984H	299	229	0.4	1.66	20	330	< 0.5	< 2	0.81	< 0.5	9	82	294	3.08	10	< 1	1.17	10	1.33	170	42
569985H	299	229	0.2	1.49	18	350	< 0.5	< 2	0.95	< 0.5	6	81	224	3.15	10	< 1	1.03	10	1.27	155	32
569986H	299	229	0.6	1.47	12	310	< 0.5	< 2	1.02	< 0.5	6	83	517	3.46	10	< 1	1.02	20	1.27	160	29
569987H	299	229	0.4	1.44	16	230	< 0.5	< 2	1.20	< 0.5	8	97	162	3.96	10	< 1	0.82	20	1.18	165	30
569988H	299	229	0.4	1.57	6	350	< 0.5	< 2	1.12	< 0.5	8	107	259	3.40	10	< 1	0.99	10	1.31	185	31
569989H	299	229	0.4	1.46	8	330	< 0.5	< 2	1.03	< 0.5	9	85	245	3.34	10	< 1	0.98	20	1.26	160	27
569990H	299	229	0.4	1.30	10	220	< 0.5	< 2	1.17	< 0.5	9	79	205	3.51	10	< 1	0.76	10	1.13	315	27
569991H	299	229	0.4	1.44	4	330	< 0.5	< 2	1.04	< 0.5	9	98	413	3.37	10	< 1	0.83	20	1.28	145	28
569992H	299	229	1.6	1.45	18	230	< 0.5	< 2	1.72	< 0.5	14	88	2020	3.74	10	< 1	0.79	10	1.17	170	128
569993H	299	229	1.4	1.31	24	160	< 0.5	< 2	1.43	< 0.5	11	90	1325	3.49	10	< 1	0.73	10	1.03	200	128
569994H	299	229	1.2	1.62	16	230	< 0.5	< 2	1.55	< 0.5	13	96	857	4.14	20	< 1	0.94	10	1.29	215	94
569995H	299	229	1.4	1.63	18	220	< 0.5	< 2	1.21	< 0.5	12	106	1050	3.91	10	< 1	0.82	10	1.28	200	76

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To. CHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 194
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. :19320573
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320573

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569969H	299	229	0.05	18	760	2	< 2	4	132	0.03	< 10	< 10	31	20	30
569970H	299	229	0.19	17	780	4	2	6	148	0.10	< 10	< 10	49	10	42
569971H	299	229	0.14	14	720	6	< 2	5	175	0.04	< 10	< 10	35	< 10	30
569972H	299	229	0.10	16	780	8	< 2	3	193	0.04	< 10	< 10	30	< 10	32
569973H	299	229	0.13	15	770	8	2	6	157	0.11	< 10	< 10	51	< 10	38
569974H	299	229	0.07	16	810	6	< 2	6	67	0.16	< 10	< 10	59	< 10	46
569975H	299	229	0.09	16	780	4	< 2	7	98	0.16	< 10	< 10	58	< 10	40
569976H	299	229	0.06	16	800	6	2	6	88	0.13	< 10	< 10	51	< 10	36
569977H	299	229	0.09	17	800	8	< 2	7	71	0.16	< 10	< 10	60	< 10	42
569978H	299	229	0.06	15	800	4	< 2	6	67	0.15	< 10	< 10	57	10	32
569979H	299	229	0.08	16	660	< 2	< 2	7	119	0.15	< 10	< 10	54	20	38
569980H	299	229	0.04	14	790	6	< 2	7	101	0.09	< 10	< 10	46	< 10	32
569981H	299	229	0.07	16	710	< 2	< 2	7	80	0.09	< 10	< 10	49	< 10	40
569982H	299	229	0.05	15	830	< 2	< 2	8	76	0.16	< 10	< 10	59	< 10	40
569983H	299	229	0.08	15	790	2	< 2	8	125	0.16	< 10	< 10	60	< 10	34
569984H	299	229	0.05	14	780	< 2	< 2	7	49	0.17	< 10	< 10	60	< 10	40
569985H	299	229	0.04	14	760	< 2	< 2	7	158	0.16	< 10	< 10	57	10	36
569986H	299	229	0.04	15	790	< 2	< 2	8	125	0.15	< 10	< 10	57	20	36
569987H	299	229	0.05	16	830	10	2	7	112	0.11	< 10	< 10	51	20	44
569988H	299	229	0.06	15	810	2	< 2	8	182	0.15	< 10	< 10	58	10	48
569989H	299	229	0.06	15	800	< 2	< 2	8	137	0.15	< 10	< 10	57	10	42
569990H	299	229	0.04	14	780	2	< 2	7	110	0.10	< 10	< 10	48	20	34
569991H	299	229	0.05	15	800	< 2	< 2	7	146	0.12	< 10	< 10	56	10	30
569992H	299	229	0.04	17	760	< 2	2	7	184	0.09	< 10	< 10	50	10	38
569993H	299	229	0.04	15	790	< 2	< 2	6	187	0.09	< 10	< 10	45	20	42
569994H	299	229	0.05	18	860	4	< 2	8	312	0.12	< 10	< 10	57	20	52
569995H	299	229	0.06	15	800	2	< 2	7	143	0.11	< 10	< 10	53	60	44

CERTIFICATION:

Chemex Labs Ltd.

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO 195
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CERTIFICATE OF ANALYSIS A9320574

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
565088H	208 276	0.01	0.001	0.14	10400
565089H	208 273	0.01	0.003	0.21	11980
565090H	208 276	< 0.01	0.003	0.21	10350
565091H	208 276	< 0.01	0.002	0.21	10580
565092H	208 276	< 0.01	0.001	0.31	9450
565093H	208 273	< 0.01	0.002	0.17	12040
565094H	208 276	< 0.01	0.003	0.10	9600
565095H	208 273	< 0.01	0.002	0.07	14160
565096H	208 276	< 0.01	0.002	0.17	8500
565097H	208 273	< 0.01	0.007	0.34	12540
565098H	208 276	< 0.01	0.001	0.21	10080
565099H	208 276	< 0.01	0.001	0.17	8300
565100H	208 276	< 0.01	0.002	0.07	11320
565101H	208 273	< 0.01	0.001	0.10	11950
565102H	208 276	< 0.01	0.002	0.17	7850
565103H	208 276	< 0.01	0.002	0.07	8880
565104H	208 276	< 0.01	0.001	0.17	8660
565105H	208 273	< 0.01	0.001	0.10	12500
565106H	208 273	< 0.01	0.001	0.10	14160
565107H	208 276	< 0.01	0.001	0.21	11320
565108H	208 274	< 0.01	0.001	0.14	6750
565109H	208 276	< 0.01	0.001	0.14	11020
565110H	208 274	< 0.01	0.002	0.03	5180
565111H	208 276	< 0.01	0.001	0.07	7920
565112H	208 276	< 0.01	0.001	0.07	10980
565113H	208 273	< 0.01	0.001	0.17	13120
565114H	208 276	< 0.01	0.001	0.21	8520
565115H	208 276	< 0.01	0.001	0.17	10100
565116H	208 276	< 0.01	0.001	0.07	10160
565117H	208 --	< 0.01	0.002	0.14	56000
565118H	208 276	< 0.01	0.001	0.07	10240
565119H	208 276	< 0.01	0.001	0.10	10800
565120H	208 276	< 0.01	0.002	0.27	8560
565121H	208 274	< 0.01	0.002	0.21	6160
565122H	208 276	< 0.01	0.002	0.21	10440
565123H	208 276	< 0.01	0.001	0.10	10620
565124H	208 276	< 0.01	< 0.001	0.21	10000
565125H	208 274	< 0.01	< 0.001	0.31	7000
565126H	208 273	< 0.01	< 0.001	0.21	14220
565127H	208 273	< 0.01	< 0.001	0.14	13380

CERTIFICATION: _____

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
565128H	208	273	< 0.01	0.002	0.21	11980						
565129H	208	276	< 0.01	0.002	0.27	11640						
565130H	208	276	< 0.01	0.002	0.21	11260						
565131H	208	276	0.01	0.001	0.62	10860						
565132H	208	273	0.01	0.001	0.14	12360						
565133H	208	273	0.06	0.002	0.14	13780						
565134H	208	273	0.05	0.002	0.14	12100						
565135H	208	273	0.10	0.007	0.17	11960						
565136H	208	274	0.03	0.001	0.10	6600						
565137H	208	276	0.04	0.002	0.14	9320						
565138H	208	273	0.06	0.004	0.07	12260						
565139H	208	273	0.02	0.001	0.07	12680						
565140H	208	276	0.03	0.001	0.10	7900						
565141H	208	276	0.10	0.001	0.17	11060						
565142H	208	276	0.05	0.003	0.10	8260						
565143H	208	276	0.02	0.002	0.10	9560						
565144H	208	276	0.03	0.002	0.10	10900						
565145H	208	273	0.04	0.002	0.14	12500						
565146H	208	273	0.03	0.002	0.17	12460						
565147H	208	276	0.05	0.002	0.21	11720						
565148H	208	270	0.09	0.001	0.24	16760						
565149H	208	276	0.04	0.003	0.21	8320						
565150H	208	273	0.06	0.001	0.17	12660						
565151H	208	273	0.09	0.002	0.07	12600						
565152H	208	273	0.03	0.002	0.10	12800						
565153H	208	273	0.04	0.003	0.14	11900						
565154H	208	273	0.05	0.001	0.17	13220						
565155H	208	273	0.03	0.001	0.17	12760						
565156H **	208	273	0.07	0.001	0.21	13520						
565157H	208	273	0.06	0.002	0.24	12600						
565158H	208	273	0.14	0.005	0.24	12360						
565159H **	208	273	0.05	0.002	0.21	14300						
565160H **	208	273	0.03	0.003	0.14	12700						
565161H	208	273	0.05	0.001	0.14	12760						
565162H	208	273	0.05	0.008	0.24	13000						
565163H	208	276	0.09	0.002	0.24	11160						
565164H	208	273	0.07	0.002	0.21	12560						
565165H	208	273	0.08	0.001	0.14	12480						
565166H	208	273	0.07	0.002	0.34	12700						
565167H	208	276	0.06	0.002	0.14	11080						

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9320574

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
565168H	208	273	0.04	0.001	0.24	12320
565169H	208	276	0.09	0.001	0.17	8380
565170H	208	273	0.04	0.001	0.10	13900
565171H	208	274	0.01	0.005	0.07	7100
565172H	208	273	0.03	0.001	0.31	12560
565173H	208	273	0.02	0.001	0.41	13860
565174H	208	273	0.04	0.001	1.23	13680
565175H	208	270	0.02	0.002	0.24	18340
565176H	208	273	0.04	0.002	0.14	14220
565177H	208	273	0.02	0.001	0.10	15740
565178H	208	270	0.06	0.002	0.07	17220
565179H	208	276	0.05	0.001	0.10	11200
565180H	208	273	0.04	0.002	< 0.03	12480
565181H	208	276	0.03	0.002	< 0.03	8240
565182H	208	276	0.04	0.004	< 0.03	10140
565183H	208	273	0.02	0.004	0.07	13240
565184H	208	273	0.01	0.002	< 0.03	15060
565185H	208	276	0.02	0.002	0.07	10220
565186H	208	273	0.03	0.003	0.07	13560
565187H	208	276	0.02	0.001	0.10	10520
565188H	208	273	0.02	0.002	0.21	14800
565189H	208	273	0.05	0.006	0.17	15940
565190H	208	273	0.04	0.004	0.27	13240
565191H	208	273	0.04	0.003	0.07	13560
565192H	208	276	0.06	0.003	0.21	10980
565193H	208	276	0.14	0.003	0.17	11640
565194H	208	273	0.06	0.004	0.14	11840
565195H	208	273	0.02	0.003	0.27	13320
565196H	208	276	0.06	0.002	0.14	11440
565197H	208	273	0.06	0.003	0.14	12080
565198H	208	276	0.05	0.006	0.21	10940
565199H	208	273	0.07	0.010	0.10	13020
565200H	208	273	0.06	0.002	0.10	12700
565201H	208	273	0.06	0.006	0.14	12760
565202H	208	273	0.07	0.016	0.14	12320
565203H	208	276	0.08	0.011	0.14	11660
565204H	208	273	0.05	0.002	0.10	14600
565205H	208	273	0.11	0.008	0.24	13340
565206H	208	273	0.06	0.003	0.10	12540
565207H	208	273	0.06	0.002	0.14	13980

CERTIFICATION:

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Project : CASINO 195
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Account :FC

CERTIFICATE OF ANALYSIS A9320574

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
565208H	208	273	0.06	0.002	0.10	13060
565209H	208	273	0.09	0.004	0.27	13300
565210H	208	276	0.05	0.003	0.14	10800
565211H	208	276	0.07	0.004	0.14	11240

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Certificate Date: 13-SEP-93
Invoice No. :I9320575
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Account :FC

CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565088H	299	229	1.8	0.76	18	290	< 0.5	4	0.01	< 0.5	< 1	144	85	2.51	< 10	< 1	0.80	20	0.06	20	10
565089H	299	229	1.8	0.75	16	350	< 0.5	8	0.01	< 0.5	< 1	162	70	2.64	< 10	< 1	0.87	10	0.04	15	21
565090H	299	229	1.6	0.62	14	280	< 0.5	10	0.01	< 0.5	< 1	136	17	2.88	< 10	< 1	0.87	10	0.03	10	19
565091H	299	229	3.0	0.57	30	170	< 0.5	12	0.01	< 0.5	< 1	103	13	3.85	< 10	< 1	1.08	10	0.02	10	14
565092H	299	229	3.8	0.52	36	250	< 0.5	6	0.01	< 0.5	< 1	156	10	2.59	< 10	< 1	0.77	< 10	0.02	10	9
565093H	299	229	2.6	0.69	20	270	< 0.5	12	0.01	< 0.5	< 1	161	15	2.39	< 10	< 1	0.82	10	0.04	15	15
565094H	299	229	1.8	0.73	16	280	< 0.5	8	0.01	< 0.5	< 1	139	7	2.48	< 10	< 1	0.83	10	0.05	15	17
565095H	299	229	1.6	0.80	14	320	< 0.5	4	0.01	< 0.5	< 1	153	8	2.22	< 10	< 1	0.81	10	0.07	20	10
565096H	299	229	2.4	0.63	30	150	< 0.5	6	0.01	< 0.5	< 1	144	14	4.08	< 10	< 1	1.13	10	0.03	15	13
565097H	299	229	2.0	0.67	28	190	< 0.5	6	0.01	< 0.5	< 1	147	20	3.79	< 10	< 1	1.01	10	0.03	10	42
565098H	299	229	1.2	0.74	20	290	< 0.5	6	0.01	< 0.5	< 1	155	17	2.55	< 10	< 1	0.81	10	0.05	15	8
565099H	299	229	1.4	0.84	14	400	< 0.5	6	0.01	< 0.5	< 1	151	11	1.60	< 10	< 1	0.73	10	0.06	20	6
565100H	299	229	2.4	0.76	16	370	< 0.5	6	0.01	< 0.5	< 1	139	8	2.02	< 10	< 1	0.76	10	0.05	20	11
565101H	299	229	2.0	0.91	18	440	< 0.5	2	0.01	< 0.5	< 1	126	12	1.62	< 10	< 1	0.68	10	0.08	25	6
565102H	299	229	1.6	0.88	24	390	< 0.5	4	0.01	< 0.5	< 1	119	7	1.98	< 10	< 1	0.73	10	0.06	30	12
565103H	299	229	1.8	0.95	24	380	< 0.5	4	0.01	< 0.5	< 1	124	18	2.88	< 10	< 1	0.76	20	0.07	25	10
565104H	299	229	1.6	0.97	4	260	< 0.5	4	0.01	< 0.5	< 1	112	21	2.78	< 10	< 1	0.86	20	0.07	20	6
565105H	299	229	1.6	1.00	8	260	< 0.5	4	0.01	< 0.5	< 1	111	19	3.02	< 10	< 1	1.01	20	0.07	20	7
565106H	299	229	1.6	0.84	14	400	< 0.5	2	0.01	< 0.5	< 1	101	20	2.27	< 10	< 1	0.78	20	0.06	15	5
565107H	299	229	1.8	0.77	4	300	< 0.5	12	0.01	< 0.5	< 1	107	21	1.55	< 10	< 1	0.65	20	0.06	20	3
565108H	299	229	2.2	0.96	< 2	400	< 0.5	20	0.02	< 0.5	< 1	110	24	1.10	< 10	< 1	0.66	10	0.07	25	3
565109H	299	229	1.8	0.94	4	390	< 0.5	6	0.02	< 0.5	< 1	108	15	0.88	< 10	< 1	0.59	10	0.07	25	1
565110H	299	229	1.2	0.74	6	310	< 0.5	6	0.02	< 0.5	< 1	89	12	2.59	< 10	< 1	0.85	10	0.05	15	8
565111H	299	229	0.8	0.74	8	230	< 0.5	2	0.01	< 0.5	< 1	101	14	2.92	< 10	1	0.91	10	0.05	10	6
565112H	299	229	1.4	0.54	12	140	< 0.5	8	0.01	< 0.5	< 1	115	9	3.97	< 10	< 1	1.07	10	0.02	10	4
565113H	299	229	2.4	0.61	40	120	< 0.5	4	0.01	< 0.5	< 1	129	13	4.27	< 10	< 1	1.17	10	0.03	10	8
565114H	299	229	1.6	0.85	18	290	< 0.5	8	0.01	< 0.5	< 1	118	14	2.98	< 10	< 1	1.03	20	0.04	10	6
565115H	299	229	0.8	0.56	20	250	< 0.5	6	0.01	< 0.5	< 1	95	11	2.91	< 10	< 1	0.89	10	0.03	10	3
565116H	299	229	1.0	0.65	8	360	< 0.5	4	0.01	< 0.5	< 1	103	11	2.14	< 10	< 1	0.78	10	0.03	10	4
565117H	299	229	2.6	0.69	4	370	< 0.5	6	0.01	< 0.5	< 1	118	12	1.93	< 10	< 1	0.75	10	0.04	10	9
565118H	299	229	0.8	0.68	4	380	< 0.5	4	0.01	< 0.5	< 1	119	13	1.87	< 10	< 1	0.74	10	0.04	10	4
565119H	299	229	1.2	0.61	8	260	< 0.5	16	0.01	< 0.5	< 1	117	15	3.03	< 10	< 1	0.95	30	0.03	10	5
565120H	299	229	1.6	0.51	8	310	< 0.5	26	0.01	< 0.5	< 1	109	16	3.03	10	< 1	0.84	60	0.03	15	7
565121H	299	229	1.8	0.56	8	230	< 0.5	26	0.01	< 0.5	< 1	112	22	3.32	10	1	0.94	30	0.04	15	11
565122H	299	229	3.6	0.49	14	350	< 0.5	14	0.01	< 0.5	< 1	86	12	2.04	< 10	< 1	0.67	10	0.03	15	5
565123H	299	229	1.4	0.44	8	270	< 0.5	8	0.02	< 0.5	< 1	95	16	2.33	< 10	< 1	0.71	10	0.03	10	4
565124H	299	229	1.8	0.64	< 2	270	< 0.5	4	0.02	< 0.5	< 1	118	38	2.69	< 10	< 1	0.70	20	0.05	15	3
565125H	299	229	2.2	0.74	14	320	< 0.5	6	0.02	< 0.5	< 1	131	27	2.46	< 10	< 1	0.85	20	0.06	30	2
565126H	299	229	3.8	0.71	14	270	< 0.5	8	0.02	< 0.5	< 1	139	27	2.56	< 10	< 1	0.81	20	0.06	25	2
565127H	299	229	1.6	0.92	2	590	< 0.5	6	0.02	< 0.5	1	181	24	1.85	< 10	< 1	0.56	20	0.07	20	3

CERTIFICATION:

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Project : CASINO 195
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. :19320575
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565088H	299	229	0.02	< 1	220	22	< 2	1	11	< 0.01	< 10	< 10	11	< 10	10
565089H	299	229	0.02	1	150	20	< 2	1	9	< 0.01	< 10	< 10	12	< 10	6
565090H	299	229	0.02	< 1	90	8	< 2	1	5	< 0.01	< 10	< 10	11	< 10	6
565091H	299	229	0.02	< 1	80	6	< 2	2	4	< 0.01	< 10	< 10	11	< 10	4
565092H	299	229	0.01	< 1	50	6	< 2	1	4	< 0.01	< 10	< 10	9	< 10	4
565093H	299	229	0.02	1	90	14	< 2	1	5	< 0.01	< 10	< 10	9	< 10	6
565094H	299	229	0.02	< 1	110	14	< 2	2	6	< 0.01	< 10	< 10	10	< 10	6
565095H	299	229	0.01	1	100	8	< 2	1	6	< 0.01	< 10	< 10	9	< 10	8
565096H	299	229	0.02	< 1	90	8	< 2	1	4	< 0.01	< 10	< 10	13	< 10	6
565097H	299	229	0.02	< 1	100	12	< 2	1	4	< 0.01	< 10	< 10	12	< 10	8
565098H	299	229	0.01	1	80	12	< 2	1	7	< 0.01	< 10	< 10	13	< 10	8
565099H	299	229	0.01	1	60	12	< 2	1	6	< 0.01	< 10	< 10	11	< 10	8
565100H	299	229	0.01	< 1	70	24	< 2	1	6	< 0.01	< 10	< 10	11	< 10	10
565101H	299	229	0.02	< 1	120	24	< 2	1	9	< 0.01	< 10	< 10	11	< 10	14
565102H	299	229	0.01	< 1	160	14	< 2	1	6	< 0.01	< 10	< 10	10	< 10	14
565103H	299	229	0.01	< 1	240	12	< 2	1	10	< 0.01	< 10	< 10	21	< 10	18
565104H	299	229	0.02	< 1	210	14	< 2	2	15	< 0.01	< 10	< 10	14	< 10	10
565105H	299	229	0.02	1	220	14	< 2	2	15	< 0.01	< 10	< 10	13	< 10	8
565106H	299	229	0.02	< 1	170	12	< 2	1	12	< 0.01	< 10	< 10	14	< 10	6
565107H	299	229	0.01	1	150	16	< 2	1	12	< 0.01	< 10	< 10	10	< 10	6
565108H	299	229	0.01	< 1	100	8	< 2	1	11	< 0.01	< 10	< 10	11	< 10	4
565109H	299	229	0.01	1	20	8	< 2	1	8	< 0.01	< 10	< 10	13	< 10	6
565110H	299	229	0.02	< 1	30	4	< 2	1	7	< 0.01	< 10	< 10	11	< 10	6
565111H	299	229	0.02	1	40	6	< 2	1	6	< 0.01	< 10	< 10	13	< 10	6
565112H	299	229	0.02	< 1	40	8	< 2	1	6	0.01	< 10	< 10	13	10	2
565113H	299	229	0.02	< 1	40	10	< 2	1	6	0.01	< 10	< 10	15	10	2
565114H	299	229	0.02	1	60	20	< 2	2	5	< 0.01	< 10	< 10	16	< 10	4
565115H	299	229	0.02	< 1	40	6	< 2	1	4	< 0.01	< 10	< 10	12	< 10	2
565116H	299	229	0.01	1	70	6	< 2	1	4	< 0.01	< 10	< 10	11	< 10	2
565117H	299	229	0.01	1	70	2	< 2	1	4	< 0.01	< 10	< 10	10	< 10	2
565118H	299	229	0.01	1	80	4	< 2	1	6	< 0.01	< 10	< 10	12	< 10	2
565119H	299	229	0.01	< 1	130	12	< 2	2	6	0.01	< 10	< 10	18	10	2
565120H	299	229	0.02	< 1	230	16	< 2	3	12	< 0.01	< 10	< 10	23	< 10	2
565121H	299	229	0.02	2	240	40	< 2	2	15	< 0.01	< 10	< 10	17	10	4
565122H	299	229	0.01	< 1	150	16	< 2	1	10	< 0.01	< 10	< 10	10	< 10	4
565123H	299	229	0.01	1	140	14	< 2	1	10	< 0.01	< 10	< 10	8	< 10	4
565124H	299	229	0.01	< 1	230	18	< 2	1	24	< 0.01	< 10	< 10	10	< 10	6
565125H	299	229	0.02	2	200	8	< 2	1	17	< 0.01	< 10	< 10	9	< 10	6
565126H	299	229	0.01	< 1	200	18	< 2	1	21	< 0.01	< 10	< 10	12	< 10	10
565127H	299	229	0.02	1	140	16	< 2	1	15	< 0.01	< 10	< 10	15	< 10	8

CERTIFICATION: Stewart Buchler

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Certificate Date: 13-SEP-93
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CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565128H	299	229	1.8	0.75	12	200	< 0.5	< 2	0.01	< 0.5	1	145	22	2.78	< 10	< 1	0.69	10	0.07	25	7
565129H	299	229	2.0	0.68	20	60	< 0.5	2	0.01	< 0.5	6	153	32	4.05	< 10	< 1	0.75	20	0.06	20	8
565130H	299	229	1.8	0.87	14	70	< 0.5	4	0.01	< 0.5	7	156	38	3.79	< 10	< 1	0.71	40	0.08	25	9
565131H	299	229	1.6	1.05	8	20	< 0.5	< 2	0.01	< 0.5	14	117	114	5.79	< 10	< 1	0.56	20	0.11	30	1
565132H	299	229	1.4	0.89	6	20	< 0.5	< 2	0.02	< 0.5	18	107	120	6.03	< 10	< 1	0.48	20	0.09	30	3
565133H	299	229	1.6	1.19	12	60	< 0.5	2	0.01	< 0.5	15	120	589	4.33	< 10	< 1	0.62	20	0.12	40	13
565134H	299	229	1.6	1.03	16	30	< 0.5	2	0.02	< 0.5	15	120	531	5.17	< 10	< 1	0.52	20	0.11	35	9
565135H	299	229	2.2	0.84	18	20	< 0.5	< 2	0.01	< 0.5	18	93	1115	6.77	< 10	< 1	0.44	20	0.10	20	47
565136H	299	229	0.8	0.77	12	30	< 0.5	< 2	0.01	< 0.5	17	107	352	5.41	< 10	< 1	0.40	10	0.09	20	2
565137H	299	229	0.6	0.84	30	30	< 0.5	< 2	0.02	< 0.5	21	97	431	4.89	< 10	< 1	0.39	10	0.08	25	6
565138H	299	229	1.0	0.84	6	10	< 0.5	< 2	0.07	< 0.5	25	98	481	7.24	< 10	< 1	0.36	10	0.06	15	3
565139H	299	229	0.6	1.00	12	20	< 0.5	< 2	0.10	< 0.5	15	96	268	5.91	< 10	< 1	0.35	20	0.07	15	1
565140H	299	229	0.8	1.27	12	10	< 0.5	< 2	0.10	< 0.5	16	140	383	6.27	< 10	< 1	0.53	20	0.11	25	1
565141H	299	229	2.0	1.42	40	10	< 0.5	2	0.11	< 0.5	17	119	1110	7.14	< 10	< 1	0.58	20	0.12	35	2
565142H	299	229	0.6	1.21	14	10	< 0.5	< 2	0.15	< 0.5	19	96	520	7.23	< 10	< 1	0.44	30	0.10	25	14
565143H	299	229	0.4	1.07	20	10	< 0.5	< 2	0.13	< 0.5	25	111	255	7.41	< 10	< 1	0.47	10	0.09	20	4
565144H	299	229	0.4	1.14	16	20	< 0.5	< 2	0.12	< 0.5	27	130	374	6.54	< 10	< 1	0.50	10	0.09	20	4
565145H	299	229	1.0	1.01	18	30	< 0.5	< 2	0.13	< 0.5	14	112	442	4.50	< 10	< 1	0.45	10	0.09	50	6
565146H	299	229	0.6	1.19	6	10	< 0.5	< 2	0.14	< 0.5	15	134	335	6.32	< 10	< 1	0.53	20	0.10	65	2
565147H	299	229	0.8	1.12	12	10	< 0.5	< 2	0.13	< 0.5	25	100	520	6.21	< 10	< 1	0.46	20	0.10	45	3
565148H	299	229	2.2	1.15	18	30	< 0.5	4	0.15	< 0.5	16	113	952	5.04	< 10	< 1	0.47	20	0.10	55	1
565149H	299	229	0.6	1.06	6	70	< 0.5	< 2	0.15	< 0.5	14	103	433	4.29	< 10	< 1	0.42	20	0.12	245	15
565150H	299	229	1.4	1.12	6	90	< 0.5	< 2	0.18	0.5	12	127	605	4.28	< 10	< 1	0.36	20	0.40	790	2
565151H	299	229	1.2	0.81	14	30	< 0.5	< 2	0.19	< 0.5	15	87	1015	5.04	< 10	< 1	0.29	20	0.19	755	7
565152H	299	229	0.6	1.27	4	60	< 0.5	< 2	0.21	< 0.5	15	97	325	5.07	< 10	< 1	0.29	20	0.73	765	5
565153H	299	229	1.2	1.36	6	80	< 0.5	< 2	0.23	< 0.5	16	102	370	4.69	< 10	< 1	0.31	20	0.85	620	14
565154H	299	229	0.8	1.05	8	40	< 0.5	< 2	0.17	< 0.5	24	102	507	6.50	< 10	< 1	0.36	20	0.44	395	< 1
565155H	299	229	1.0	1.17	12	50	< 0.5	< 2	0.19	< 0.5	14	99	392	5.89	< 10	< 1	0.42	20	0.47	765	1
565156H	299	229	2.0	1.17	12	40	< 0.5	2	0.17	< 0.5	16	114	828	6.21	< 10	< 1	0.45	20	0.35	585	3
565157H	299	229	1.8	1.46	14	30	< 0.5	2	0.17	< 0.5	15	112	672	5.60	< 10	< 1	0.55	20	0.49	745	7
565158H	299	229	2.0	1.28	16	20	< 0.5	< 2	0.16	< 0.5	22	112	1455	6.50	< 10	< 1	0.49	20	0.16	115	24
565159H	299	229	0.6	1.29	22	10	< 0.5	< 2	0.27	< 0.5	19	124	552	10.65	< 10	< 1	0.53	10	0.13	260	8
565160H	299	229	0.4	1.19	12	20	< 0.5	< 2	0.13	< 0.5	25	126	349	6.84	< 10	< 1	0.52	10	0.23	185	12
565161H	299	229	1.0	1.12	6	70	< 0.5	< 2	0.22	< 0.5	12	110	566	5.17	< 10	< 1	0.42	20	0.42	995	2
565162H	299	229	0.6	0.97	12	50	< 0.5	< 2	0.15	< 0.5	14	134	558	4.86	< 10	< 1	0.39	20	0.13	355	14
565163H	299	229	1.2	1.42	12	10	< 0.5	< 2	0.10	< 0.5	22	128	1000	7.67	< 10	< 1	0.55	10	0.13	35	6
565164H	299	229	1.0	1.18	12	30	< 0.5	< 2	0.07	< 0.5	28	122	745	6.47	< 10	< 1	0.47	10	0.11	30	9
565165H	299	229	1.2	1.06	14	60	< 0.5	2	0.15	< 0.5	13	115	786	4.83	< 10	< 1	0.38	20	0.19	95	2
565166H	299	229	1.0	0.93	8	40	< 0.5	2	0.15	< 0.5	22	112	809	5.26	< 10	< 1	0.40	20	0.12	80	11
565167H	299	229	1.4	0.96	18	40	< 0.5	2	0.14	< 0.5	15	104	579	5.04	< 10	< 1	0.43	20	0.12	55	6

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 195
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. :I9320575
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565128H	299	229	0.01	2	140	8	< 2	1	17	< 0.01	< 10	< 10	12	< 10	8
565129H	299	229	0.02	3	200	6	< 2	2	16	< 0.01	< 10	< 10	11	< 10	10
565130H	299	229	0.01	4	180	10	< 2	2	13	< 0.01	< 10	< 10	9	< 10	10
565131H	299	229	0.01	3	90	12	< 2	2	11	< 0.01	< 10	< 10	9	< 10	14
565132H	299	229	0.01	4	100	12	< 2	2	18	< 0.01	< 10	< 10	8	< 10	16
565133H	299	229	0.01	6	130	18	< 2	4	25	< 0.01	< 10	< 10	12	< 10	18
565134H	299	229	0.01	3	150	22	< 2	2	29	< 0.01	< 10	< 10	10	< 10	22
565135H	299	229	0.01	4	130	18	< 2	2	29	< 0.01	< 10	< 10	7	< 10	20
565136H	299	229	0.01	4	100	12	< 2	2	12	< 0.01	< 10	< 10	6	< 10	18
565137H	299	229	0.01	4	170	10	< 2	2	16	< 0.01	< 10	< 10	8	< 10	46
565138H	299	229	0.01	5	470	12	< 2	2	10	< 0.01	< 10	< 10	9	< 10	22
565139H	299	229	0.01	4	630	8	< 2	2	9	< 0.01	< 10	< 10	10	< 10	18
565140H	299	229	0.01	4	590	30	< 2	2	22	< 0.01	10	< 10	14	< 10	36
565141H	299	229	0.01	4	650	22	< 2	3	49	< 0.01	10	< 10	17	< 10	40
565142H	299	229	0.01	5	890	10	< 2	3	23	< 0.01	10	< 10	16	< 10	32
565143H	299	229	0.01	4	670	8	< 2	2	14	< 0.01	< 10	< 10	11	< 10	24
565144H	299	229	0.01	6	630	6	< 2	2	34	< 0.01	< 10	< 10	11	< 10	24
565145H	299	229	0.01	4	650	18	< 2	2	51	< 0.01	< 10	< 10	10	< 10	44
565146H	299	229	0.01	4	680	8	< 2	2	30	< 0.01	< 10	< 10	12	< 10	32
565147H	299	229	0.01	4	660	14	< 2	2	37	< 0.01	< 10	< 10	11	< 10	46
565148H	299	229	0.01	5	680	12	< 2	2	37	< 0.01	< 10	< 10	13	< 10	44
565149H	299	229	0.01	4	670	4	< 2	2	53	< 0.01	< 10	< 10	11	< 10	38
565150H	299	229	0.01	4	640	16	2	2	14	< 0.01	< 10	< 10	14	< 10	108
565151H	299	229	0.01	4	700	8	< 2	2	51	< 0.01	< 10	< 10	12	< 10	44
565152H	299	229	0.01	4	570	6	< 2	2	10	< 0.01	< 10	< 10	14	< 10	64
565153H	299	229	0.01	4	590	6	< 2	2	7	< 0.01	< 10	< 10	15	< 10	80
565154H	299	229	0.01	4	590	8	< 2	1	28	< 0.01	< 10	< 10	10	< 10	66
565155H	299	229	0.01	3	630	10	2	2	28	< 0.01	< 10	< 10	13	< 10	68
565156H	299	229	0.01	5	690	6	< 2	2	109	< 0.01	< 10	< 10	12	< 10	46
565157H	299	229	0.01	4	650	8	2	2	42	< 0.01	< 10	< 10	14	30	52
565158H	299	229	0.01	7	870	8	< 2	2	110	< 0.01	< 10	< 10	11	10	32
565159H	299	229	0.01	5	1450	18	< 2	2	77	< 0.01	< 10	< 10	12	30	40
565160H	299	229	0.01	4	620	6	< 2	2	53	< 0.01	< 10	< 10	10	150	32
565161H	299	229	0.01	3	800	8	< 2	2	39	< 0.01	< 10	< 10	14	10	46
565162H	299	229	0.01	5	670	4	< 2	2	51	< 0.01	< 10	< 10	11	< 10	32
565163H	299	229	0.01	5	710	6	< 2	2	89	< 0.01	< 10	< 10	11	< 10	24
565164H	299	229	0.01	7	730	6	< 2	2	121	< 0.01	< 10	< 10	11	< 10	26
565165H	299	229	0.01	4	640	4	< 2	1	31	< 0.01	< 10	< 10	11	< 10	58
565166H	299	229	0.01	3	660	4	< 2	1	15	< 0.01	< 10	< 10	9	< 10	46
565167H	299	229	0.01	3	620	14	< 2	1	22	< 0.01	< 10	< 10	9	< 10	40

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Y1A 3S9

Project : CASINO 195
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. : I9320575
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565168H	299	229	0.8	1.46	8	20	< 0.5	8	0.12	< 0.5	15	170	432	5.38	< 10	< 1	0.75	10	0.17	25	1
565169H	299	229	2.2	1.42	6	60	< 0.5	10	0.09	0.5	12	137	919	3.85	< 10	< 1	0.70	20	0.14	30	1
565170H	299	229	0.6	1.23	8	50	< 0.5	4	0.06	< 0.5	14	165	469	4.82	< 10	< 1	0.66	10	0.12	20	3
565171H	299	229	0.2	1.24	16	10	< 0.5	< 2	0.09	< 0.5	26	128	100	8.02	< 10	< 1	0.68	< 10	0.10	15	26
565172H	299	229	< 0.2	1.02	6	30	< 0.5	2	0.07	< 0.5	15	119	309	4.87	< 10	< 1	0.54	< 10	0.09	15	3
565173H	299	229	0.2	0.98	14	70	< 0.5	2	0.07	< 0.5	13	121	243	4.43	< 10	< 1	0.54	< 10	0.09	15	4
565174H	299	229	0.2	1.08	20	30	< 0.5	< 2	0.08	< 0.5	15	144	469	5.42	< 10	< 1	0.55	< 10	0.10	15	3
565175H	299	229	0.4	1.12	32	10	< 0.5	6	0.08	< 0.5	23	139	166	6.62	< 10	< 1	0.57	< 10	0.11	15	7
565176H	299	229	0.6	1.25	12	30	< 0.5	4	0.12	< 0.5	17	155	442	5.07	< 10	< 1	0.64	< 10	0.13	20	9
565177H	299	229	0.2	1.07	6	20	< 0.5	< 2	0.14	< 0.5	21	138	230	6.03	< 10	< 1	0.57	< 10	0.11	20	2
565178H	299	229	0.6	1.10	24	20	< 0.5	2	0.11	< 0.5	23	147	688	6.52	< 10	< 1	0.55	< 10	0.09	20	9
565179H	299	229	0.6	1.04	12	20	< 0.5	2	0.11	< 0.5	15	116	527	4.78	< 10	< 1	0.56	< 10	0.11	20	< 1
565180H	299	229	0.6	1.00	16	40	< 0.5	< 2	0.14	< 0.5	22	123	449	4.29	< 10	< 1	0.55	10	0.11	120	4
565181H	299	229	0.2	1.02	12	40	< 0.5	6	0.11	< 0.5	18	101	298	4.30	< 10	< 1	0.57	< 10	0.11	20	2
565182H	299	229	0.6	0.82	10	30	< 0.5	< 2	0.10	< 0.5	14	117	383	3.70	< 10	< 1	0.47	10	0.08	20	19
565183H	299	229	0.6	0.91	22	20	< 0.5	6	0.10	< 0.5	22	94	257	5.11	< 10	< 1	0.52	< 10	0.07	15	21
565184H	299	229	0.2	0.93	22	30	< 0.5	2	0.11	< 0.5	20	115	109	4.96	< 10	< 1	0.52	< 10	0.07	15	4
565185H	299	229	0.2	1.41	18	70	< 0.5	6	0.13	< 0.5	17	145	232	6.33	< 10	< 1	0.73	< 10	0.13	60	3
565186H	299	229	0.4	1.26	12	20	0.5	< 2	0.13	< 0.5	24	112	339	5.59	< 10	< 1	0.66	< 10	0.13	35	11
565187H	299	229	0.2	1.40	12	30	< 0.5	< 2	0.16	< 0.5	17	139	243	5.69	< 10	< 1	0.73	10	0.17	220	1
565188H	299	229	0.6	1.29	46	10	< 0.5	6	0.14	< 0.5	24	141	227	6.78	< 10	< 1	0.68	< 10	0.15	150	1
565189H	299	229	0.6	1.03	88	10	< 0.5	< 2	0.15	< 0.5	30	98	479	6.85	< 10	< 1	0.57	10	0.13	285	28
565190H	299	229	0.8	0.96	16	10	< 0.5	< 2	0.15	< 0.5	33	107	405	6.88	< 10	< 1	0.56	10	0.12	305	18
565191H	299	229	0.6	0.94	30	20	< 0.5	2	0.14	< 0.5	26	97	418	6.42	< 10	< 1	0.54	10	0.12	220	6
565192H	299	229	1.4	1.01	22	10	< 0.5	2	0.21	< 0.5	45	117	586	6.50	< 10	< 1	0.57	< 10	0.13	105	9
565193H	299	229	2.2	1.11	32	60	0.5	2	0.16	< 0.5	29	108	1400	4.47	< 10	< 1	0.58	20	0.14	680	9
565194H	299	229	1.2	1.29	20	20	< 0.5	2	0.17	< 0.5	27	127	664	6.35	< 10	< 1	0.63	10	0.14	420	15
565195H	299	229	0.6	1.18	86	10	< 0.5	10	0.12	< 0.5	26	122	251	10.35	< 10	< 1	0.65	< 10	0.13	55	9
565196H	299	229	0.8	1.43	18	50	0.5	< 2	0.16	< 0.5	19	119	582	5.41	< 10	< 1	0.66	10	0.19	120	5
565197H	299	229	1.0	1.96	12	90	0.5	< 2	0.16	< 0.5	22	142	688	4.71	< 10	< 1	0.84	20	0.21	65	10
565198H	299	229	0.8	1.30	14	30	< 0.5	< 2	0.16	< 0.5	28	150	551	7.67	< 10	< 1	0.71	10	0.17	270	29
565199H	299	229	1.2	0.75	18	40	0.5	< 2	0.23	< 0.5	23	98	718	6.92	< 10	< 1	0.39	20	0.18	1705	60
565200H	299	229	1.2	1.48	16	80	0.5	< 2	0.20	< 0.5	17	165	635	5.62	< 10	< 1	0.75	20	0.23	985	9
565201H	299	229	1.2	1.36	16	40	0.5	2	0.17	< 0.5	22	130	585	5.97	< 10	2	0.66	10	0.19	495	31
565202H	299	229	1.0	1.14	8	40	0.5	2	0.15	< 0.5	19	125	696	4.97	< 10	< 1	0.62	10	0.14	205	89
565203H	299	229	1.6	1.58	16	60	0.5	< 2	0.16	< 0.5	23	156	891	4.04	< 10	< 1	0.78	10	0.17	140	59
565204H	299	229	0.8	1.60	22	20	0.5	< 2	0.15	< 0.5	18	165	530	6.23	< 10	< 1	0.81	20	0.17	355	8
565205H	299	229	1.2	1.35	22	20	< 0.5	2	0.14	< 0.5	28	146	1060	7.44	< 10	< 1	0.70	10	0.18	605	38
565206H	299	229	0.8	1.29	12	20	0.5	< 2	0.16	< 0.5	30	101	599	6.28	< 10	< 1	0.67	10	0.21	435	12
565207H	299	229	0.8	0.80	32	10	< 0.5	< 2	0.16	< 0.5	40	87	574	9.78	< 10	< 1	0.43	< 10	0.16	270	9

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CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565168H	299	229	0.01	3	550	4	< 2	2	46	< 0.01	< 10	< 10	13	< 10	20
565169H	299	229	0.01	3	600	68	< 2	2	119	< 0.01	< 10	< 10	13	< 10	52
565170H	299	229	0.01	2	410	6	< 2	1	85	< 0.01	< 10	< 10	8	< 10	14
565171H	299	229	0.02	3	450	8	2	2	30	< 0.01	< 10	< 10	15	< 10	6
565172H	299	229	0.01	2	430	8	< 2	1	62	< 0.01	< 10	< 10	8	< 10	8
565173H	299	229	0.01	2	390	4	< 2	1	59	< 0.01	< 10	< 10	8	< 10	8
565174H	299	229	0.01	3	480	6	< 2	1	53	< 0.01	< 10	< 10	10	< 10	14
565175H	299	229	0.01	3	410	8	2	1	14	< 0.01	< 10	< 10	12	< 10	14
565176H	299	229	0.01	2	620	4	< 2	2	12	< 0.01	< 10	< 10	13	< 10	16
565177H	299	229	0.01	4	670	6	< 2	1	12	< 0.01	< 10	< 10	12	< 10	22
565178H	299	229	0.01	4	600	8	< 2	2	58	< 0.01	< 10	< 10	10	< 10	14
565179H	299	229	0.01	2	550	6	< 2	1	77	< 0.01	< 10	< 10	10	< 10	18
565180H	299	229	0.01	3	680	6	< 2	1	99	< 0.01	< 10	< 10	10	< 10	18
565181H	299	229	0.01	3	500	2	< 2	1	39	< 0.01	< 10	< 10	10	< 10	20
565182H	299	229	0.01	2	510	8	4	1	41	< 0.01	< 10	< 10	8	< 10	22
565183H	299	229	0.01	3	490	8	< 2	1	32	< 0.01	< 10	< 10	11	< 10	12
565184H	299	229	0.01	1	560	4	4	1	61	< 0.01	< 10	< 10	9	< 10	14
565185H	299	229	0.01	4	640	4	< 2	2	55	< 0.01	< 10	< 10	15	< 10	28
565186H	299	229	0.01	3	670	12	< 2	1	85	< 0.01	< 10	< 10	13	< 10	22
565187H	299	229	0.01	3	590	8	< 2	2	7	< 0.01	< 10	< 10	16	< 10	26
565188H	299	229	0.01	4	550	8	2	2	23	< 0.01	< 10	< 10	13	< 10	20
565189H	299	229	0.01	2	550	4	< 2	1	6	< 0.01	< 10	< 10	13	< 10	24
565190H	299	229	0.01	3	490	8	2	1	4	< 0.01	< 10	< 10	12	< 10	36
565191H	299	229	0.01	2	470	12	< 2	1	4	< 0.01	< 10	< 10	10	< 10	22
565192H	299	229	0.01	3	780	16	< 2	1	6	< 0.01	< 10	< 10	11	< 10	26
565193H	299	229	0.01	2	540	10	2	2	6	< 0.01	< 10	< 10	18	< 10	44
565194H	299	229	0.01	3	580	< 2	< 2	2	15	< 0.01	< 10	< 10	18	< 10	28
565195H	299	229	0.01	4	490	16	4	2	19	< 0.01	< 10	< 10	12	< 10	8
565196H	299	229	0.01	2	550	4	2	2	6	< 0.01	< 10	< 10	18	< 10	22
565197H	299	229	0.02	2	560	8	2	3	7	< 0.01	< 10	< 10	25	< 10	34
565198H	299	229	0.02	3	560	4	6	2	6	< 0.01	< 10	< 10	16	< 10	20
565199H	299	229	0.01	2	560	8	2	1	5	< 0.01	< 10	< 10	13	< 10	36
565200H	299	229	0.02	2	600	4	2	2	6	< 0.01	< 10	< 10	19	< 10	30
565201H	299	229	0.01	3	580	16	6	2	7	< 0.01	< 10	< 10	20	< 10	32
565202H	299	229	0.01	3	520	24	2	2	5	< 0.01	< 10	< 10	16	< 10	36
565203H	299	229	0.02	4	590	14	2	2	7	< 0.01	< 10	< 10	21	< 10	32
565204H	299	229	0.02	3	510	6	2	2	7	< 0.01	< 10	< 10	19	< 10	28
565205H	299	229	0.02	2	450	6	< 2	2	7	< 0.01	< 10	< 10	19	< 10	24
565206H	299	229	0.01	2	510	8	4	2	5	< 0.01	< 10	< 10	18	< 10	26
565207H	299	229	0.01	3	500	14	< 2	1	4	< 0.01	< 10	< 10	11	< 10	16

CERTIFICATION: Stewart Bichler

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 195
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Num. :4-A
Total Pages :4
Certificate Date: 13-SEP-93
Invoice No. :I9320575
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565208H	299	229	0.8	1.13	12	70	0.5	< 2	0.16	< 0.5	25	104	665	6.02	< 10	< 1	0.54	10	0.25	735	8
565209H	299	229	1.4	1.15	18	90	< 0.5	< 2	0.15	< 0.5	24	90	856	7.45	< 10	< 1	0.54	10	0.25	635	17
565210H	299	229	0.8	1.28	10	60	0.5	8	0.14	< 0.5	22	93	556	5.16	< 10	1	0.58	20	0.21	255	13
565211H	299	229	0.6	2.11	62	50	1.0	6	0.19	< 0.5	21	98	671	5.65	< 10	< 1	0.56	10	0.80	280	21

CERTIFICATION: Ian Bickle

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Y1A 3S9

Project : CASINO 195
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. :19320575
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320575

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565208H	299	229	0.01	2	500	6	2	2	6	< 0.01	< 10	< 10	21	< 10	26
565209H	299	229	0.01	1	460	< 2	2	2	6	< 0.01	< 10	< 10	22	< 10	30
565210H	299	229	0.01	2	500	4	4	2	6	< 0.01	< 10	< 10	18	< 10	32
565211H	299	229	0.01	2	610	8	2	3	7	< 0.01	< 10	< 10	27	< 10	50

CERTIFICATION: Stewart Bradshaw

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Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :5
Certificate Date: 16-SEP-93
Invoice No. :19320619
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320619

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571644H	208	274	< 0.01	0.002	0.24	6200						
571645H	208	276	< 0.01	0.001	0.51	7360						
571646H	208	274	< 0.01	0.001	0.31	6860						
571647H	208	276	< 0.01	0.006	0.51	9120						
571648H	208	274	< 0.01	0.002	0.41	5520						
571649H	208	274	< 0.01	0.002	0.55	6980						
571650H	208	273	< 0.01	0.003	0.34	11880						
571651H	208	276	< 0.01	0.003	0.96	11040						
571652H	208	276	0.04	0.002	0.48	10200						
571653H	208	276	0.01	0.002	0.62	8760						
571654H	208	276	< 0.01	0.002	0.38	9940						
571655H	208	276	0.01	0.001	2.47	10640						
571656H	208	276	< 0.01	0.002	0.41	9080						
571657H	208	276	< 0.01	0.001	0.27	8280						
571658H	208	276	< 0.01	0.001	0.31	8140						
571659H	208	276	0.02	0.001	0.41	9380						
571660H	208	276	< 0.01	0.002	0.41	8620						
571661H	208	274	< 0.01	0.001	0.31	6180						
571662H	208	276	0.01	0.001	0.34	7560						
571663H	208	276	< 0.01	0.003	0.62	8220						
571664H	208	274	< 0.01	0.001	0.79	6200						
571665H	208	274	< 0.01	0.001	0.45	5540						
571666H	208	276	< 0.01	0.003	0.24	9500						
571667H	208	274	0.01	0.005	0.41	3820						
571668H	208	276	0.02	0.005	0.31	8660						
571669H	208	274	0.01	0.003	0.31	7200						
571670H	208	274	0.01	0.006	0.27	5560						
571671H	208	274	0.01	0.012	0.24	5760						
571672H	208	276	0.01	0.007	0.24	8460						
571673H	208	276	0.04	0.005	0.24	10280						
571674H	208	273	0.02	0.004	0.24	14580						
571675H	208	276	0.01	0.006	0.24	10680						
571676H	208	276	0.01	0.008	0.21	10000						
571677H	208	276	0.01	0.004	0.27	8880						
571678H	208	276	0.01	0.006	0.38	9380						
571679H	208	276	0.01	0.006	0.34	8100						
571680H	208	276	0.01	0.005	0.27	8440						
571681H	208	276	0.01	0.009	0.38	11240						
571682H	208	273	0.02	0.007	0.38	11920						
571683H	208	273	0.01	0.004	0.34	13600						

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Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-SEP-93
Invoice No. : I9320619
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320619

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571684H	208	276	0.01	0.005	0.38	10580						
571685H	208	276	0.01	0.009	0.41	7820						
571686H	208	276	0.01	0.013	1.17	7980						
571687H	208	274	0.01	0.009	0.31	5800						
571688H	208	273	0.02	0.011	0.45	12020						
571689H	208	273	0.01	0.007	0.34	12920						
571690H	208	276	0.01	0.006	0.24	10480						
571691H	208	273	0.01	0.006	0.24	12950						
571692H	208	276	0.02	0.007	0.38	11360						
571693H	208	273	0.02	0.003	0.21	12180						
571694H	208	276	0.07	0.003	0.21	11180						
571695H	208	276	0.05	0.004	0.31	11080						
571696H	208	273	0.10	0.004	0.38	12560						
571697H	208	273	0.25	0.001	0.51	12000						
571698H	208	273	0.17	0.001	0.27	12480						
571699H	208	273	0.11	0.003	0.31	13450						
571700H	208	276	0.08	0.002	0.24	8460						
571701H	208	273	0.14	0.003	0.21	12960						
571702H	208	273	0.15	0.006	0.31	13300						
571703H	208	273	0.12	0.003	0.21	13180						
571704H	208	276	0.18	0.004	0.31	10000						
571705H	208	276	0.12	0.001	0.21	10650						
571706H	208	276	0.22	0.005	0.17	7600						
571707H	208	276	0.16	0.004	0.17	11500						
571708H	208	273	0.15	0.002	0.17	12200						
571709H	208	273	0.18	0.021	0.21	12160						
571710H	208	273	0.12	0.002	0.27	13200						
571711H	208	273	0.14	0.005	0.10	13500						
571712H	208	276	0.09	0.006	0.14	7600						
571713H	208	276	0.15	0.002	0.17	11200						
571714H	208	273	0.26	0.004	0.21	11900						
571715H	208	274	0.16	0.004	0.21	7000						
571716H	208	273	0.15	0.010	0.14	12000						
571717H	208	276	0.11	0.004	0.17	8700						
571718H	208	273	0.11	0.004	0.14	12300						
571719H	208	276	0.18	0.002	0.17	11000						
571720H	208	276	0.10	0.001	0.17	9250						
571721H	208	276	0.10	0.002	0.17	11700						
571722H	208	276	0.12	0.002	0.21	11400						
571723H	208	273	0.11	0.007	0.21	13950						

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Project : CASINO 196
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Total Pages :5
Certificate Date: 16-SEP-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320619

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571724H	208	276	0.07	0.002	0.45	11320						
571725H	208	273	0.10	0.002	0.75	12100						
571726H	208	270	0.07	0.004	0.14	16880						
571727H	208	276	0.11	0.004	0.21	7360						
571728H	208	276	0.17	0.020	0.24	10640						
571729H	208	273	0.10	0.003	0.17	12800						
571730H	208	273	0.08	0.003	0.17	12200						
571731H	208	273	0.05	0.002	0.17	14800						
571732H	208	273	0.06	0.001	0.10	12200						
571733H	208	273	0.09	0.002	0.10	11960						
571734H	208	273	0.06	0.004	0.14	13560						
571735H	208	276	0.05	0.002	0.17	9120						
571736H	208	273	0.10	0.002	0.21	12560						
571737H	208	273	0.10	0.017	0.17	12580						
571738H	208	273	0.11	0.007	0.27	14720						
571739H	208	276	0.07	0.002	0.17	9360						
571740H	208	276	0.07	0.005	0.14	10800						
571741H	208	273	0.09	0.004	0.17	12320						
571742H	208	276	0.08	0.005	0.10	9760						
571743H	208	276	0.09	0.011	0.10	9600						
571744H	208	276	0.08	0.008	0.14	11460						
571745H	208	276	0.08	0.013	0.14	11220						
571746H	208	274	0.10	0.005	0.10	5600						
571747H	208	276	0.09	0.010	0.17	11200						
571748H	208	276	0.09	0.009	0.17	11260						
571749H	208	276	0.06	0.001	0.14	11320						
571750H	208	276	0.06	0.003	0.10	11760						
571751H	208	276	0.06	0.016	0.07	11520						
571752H	208	276	0.07	0.035	0.10	10600						
571753H	208	276	0.16	0.004	0.24	10660						
571754H	208	276	0.06	0.009	0.10	10120						
571755H	208	276	0.09	0.013	0.10	10000						
571756H	208	273	0.07	0.014	0.07	15700						
571757H	208	273	0.10	0.009	0.17	12060						
571758H	208	273	0.07	0.004	0.10	12560						
571759H	208	273	0.07	0.009	0.10	13500						
571760H	208	273	0.07	0.004	0.07	12700						
571761H	208	273	0.08	0.002	0.10	13620						
571762H	208	273	0.08	0.004	0.10	13300						
571763H	208	273	0.05	0.009	0.07	12560						

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Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-SEP-93
Invoice No. : I9320619
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320619

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571764H	208 273	0.05	0.006	0.07	13060
571765H	208 273	0.07	0.010	0.24	13180
571766H	208 273	0.09	0.007	0.14	13020
571767H	208 273	0.17	0.018	0.90	12580
571768H	208 276	0.07	0.004	0.07	9820
571769H	208 273	0.07	0.006	0.07	12300
571770H	208 273	0.06	0.007	0.03	12400
571771H	208 276	0.07	0.006	0.10	10340
571772H	208 276	0.08	0.016	0.14	11020
571773H	208 273	0.11	0.003	0.24	15640
571774H	208 273	0.05	0.003	0.07	12520
571775H	208 273	0.09	0.003	0.10	11900
571776H	208 273	0.08	0.002	0.10	11920
571777H	208 273	0.10	0.003	0.07	12520
571778H	208 273	0.15	0.005	0.07	12700
571779H	208 273	0.07	0.004	0.07	14040
571780H	208 273	0.06	0.002	0.10	12760
571781H	208 273	0.06	0.005	0.03	13640
571782H	208 273	0.02	0.002	0.03	13540
571783H	208 273	0.03	0.004	0.07	13340
571784H	208 273	0.07	0.006	0.07	13840
571785H	208 273	0.05	0.002	0.10	12560
571786H	208 276	0.04	0.002	0.10	8280
571787H	208 276	0.04	0.003	0.10	8900
571788H	208 276	0.06	0.009	0.10	9280
571789H	208 273	0.05	0.002	0.07	13580
571790H	208 273	0.13	0.003	0.07	13380
571791H	208 273	0.04	0.003	< 0.03	13060
571792H	208 273	0.02	0.001	< 0.03	13120
571793H	208 273	0.03	0.001	0.07	13060
571794H	208 273	0.06	0.002	0.03	12400
571795H	208 276	0.11	0.007	0.10	11780
571796H	208 276	0.06	0.002	0.07	11360
571797H	208 276	0.05	0.004	< 0.03	10960
571798H	208 273	0.08	0.002	0.07	12160
571799H	208 273	0.14	0.007	0.17	12660
571800H	208 273	0.04	0.002	0.10	12200
571801H	208 273	0.12	0.005	0.21	12700
571802H	208 273	0.06	0.007	0.10	12320
571803H	208 276	0.17	0.005	0.75	10620

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Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-SEP-93
Invoice No. :19320619
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320619

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
571804H	208	273	0.06	0.003	0.07	11900
571805H	208	276	0.07	0.002	0.14	11760
571806H	208	276	0.07	0.004	0.10	11700
571807H	208	273	0.03	0.002	0.10	12100

CERTIFICATION:

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To: ;HER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. :19320620
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571644H	299	229	1.8	0.80	6	490	< 0.5	8	0.02	< 0.5	< 1	231	43	1.33	< 10	< 1	0.63	20	0.08	20	11
571645H	299	229	4.4	0.35	4	210	< 0.5	10	0.02	< 0.5	< 1	131	37	2.42	< 10	< 1	0.63	10	0.03	10	7
571646H	299	229	1.8	0.69	< 2	260	< 0.5	8	0.02	< 0.5	< 1	187	38	1.56	< 10	< 1	0.65	10	0.05	15	7
571647H	299	229	3.6	0.74	< 2	270	< 0.5	2	0.01	< 0.5	< 1	237	41	1.95	< 10	< 1	0.69	20	0.05	15	32
571648H	299	229	3.4	0.39	6	200	< 0.5	6	0.01	< 0.5	< 1	113	31	0.91	< 10	< 1	0.36	20	0.03	10	9
571649H	299	229	4.0	1.02	< 2	440	< 0.5	16	0.01	< 0.5	< 1	211	32	1.25	< 10	< 1	0.70	20	0.08	20	13
571650H	299	229	2.0	0.99	12	250	< 0.5	20	0.01	< 0.5	< 1	204	38	2.50	10	< 1	0.77	20	0.08	20	17
571651H	299	229	2.8	1.04	6	440	< 0.5	6	0.02	< 0.5	< 1	212	39	2.27	10	< 1	0.71	10	0.09	20	15
571652H	299	229	1.4	1.43	< 2	320	< 0.5	< 2	0.01	< 0.5	< 1	187	430	4.13	10	< 1	0.68	20	0.25	80	10
571653H	299	229	1.4	1.10	6	340	< 0.5	< 2	0.02	< 0.5	< 1	197	132	3.48	< 10	< 1	0.77	20	0.14	35	10
571654H	299	229	1.6	0.99	2	270	< 0.5	< 2	0.01	< 0.5	< 1	226	48	2.55	10	< 1	0.77	20	0.08	20	12
571655H	299	229	1.6	1.25	2	180	< 0.5	< 2	0.02	< 0.5	< 1	173	81	4.08	10	< 1	0.86	20	0.12	30	7
571656H	299	229	2.0	1.13	4	170	< 0.5	8	0.02	< 0.5	< 1	211	40	3.04	10	< 1	0.88	30	0.10	20	6
571657H	299	229	1.2	0.93	14	260	< 0.5	2	0.01	< 0.5	< 1	189	44	2.80	10	< 1	0.82	20	0.08	20	4
571658H	299	229	1.8	0.95	10	350	< 0.5	< 2	0.01	< 0.5	1	233	55	2.93	< 10	< 1	0.87	10	0.07	30	6
571659H	299	229	1.8	1.03	2	250	< 0.5	2	0.01	< 0.5	< 1	173	180	3.90	10	< 1	0.82	20	0.08	90	5
571660H	299	229	2.6	1.05	8	300	< 0.5	2	0.01	< 0.5	< 1	211	59	2.52	10	< 1	0.81	30	0.09	30	6
571661H	299	229	1.6	0.87	< 2	320	< 0.5	4	0.01	< 0.5	< 1	244	47	3.07	< 10	< 1	0.83	20	0.08	30	3
571662H	299	229	1.8	0.73	16	260	< 0.5	< 2	0.01	< 0.5	< 1	193	77	3.60	< 10	< 1	0.77	20	0.06	30	8
571663H	299	229	2.0	0.72	18	290	< 0.5	< 2	0.01	< 0.5	1	189	48	2.88	< 10	< 1	0.73	20	0.06	30	17
571664H	299	229	2.4	0.96	8	340	< 0.5	6	0.01	< 0.5	< 1	216	35	2.22	< 10	< 1	0.82	20	0.08	20	9
571665H	299	229	1.2	0.83	8	300	< 0.5	4	0.01	< 0.5	< 1	207	25	2.47	< 10	< 1	0.84	20	0.06	15	3
571666H	299	229	1.2	0.88	2	420	< 0.5	2	0.01	< 0.5	< 1	204	31	2.27	< 10	< 1	0.75	20	0.07	20	18
571667H	299	229	2.0	1.08	18	370	< 0.5	< 2	0.01	< 0.5	< 1	198	119	3.02	10	< 1	0.82	30	0.10	35	28
571668H	299	229	1.6	0.97	38	450	< 0.5	< 2	0.01	< 0.5	< 1	170	220	3.66	< 10	1	0.74	20	0.09	85	30
571669H	299	229	1.6	1.06	8	420	< 0.5	8	0.01	< 0.5	< 1	211	133	2.78	< 10	< 1	0.82	20	0.10	30	18
571670H	299	229	1.8	0.95	10	390	< 0.5	8	0.02	< 0.5	< 1	193	99	2.46	< 10	< 1	0.79	20	0.09	20	31
571671H	299	229	1.6	0.94	16	300	< 0.5	2	0.01	< 0.5	< 1	202	65	1.90	< 10	< 1	0.68	20	0.09	35	74
571672H	299	229	1.4	0.94	26	300	< 0.5	4	0.01	< 0.5	< 1	221	131	2.69	< 10	< 1	0.78	20	0.08	20	42
571673H	299	229	1.6	1.12	22	270	< 0.5	8	0.02	< 0.5	2	174	444	4.33	10	< 1	0.68	30	0.08	195	30
571674H	299	229	1.4	1.08	6	230	< 0.5	12	0.02	< 0.5	1	187	218	2.80	< 10	< 1	0.65	20	0.08	25	23
571675H	299	229	1.8	0.91	10	280	< 0.5	< 2	0.02	< 0.5	< 1	173	140	2.37	< 10	< 1	0.62	20	0.09	20	37
571676H	299	229	1.0	0.64	8	260	< 0.5	6	0.01	< 0.5	< 1	154	85	2.57	< 10	< 1	0.48	10	0.07	45	52
571677H	299	229	2.6	0.78	12	180	< 0.5	8	0.01	< 0.5	< 1	167	104	2.76	< 10	< 1	0.67	20	0.08	15	23
571678H	299	229	1.8	0.88	20	310	< 0.5	46	0.02	< 0.5	< 1	172	156	4.66	< 10	< 1	0.66	20	0.09	65	41
571679H	299	229	1.8	0.88	4	350	< 0.5	20	0.01	< 0.5	< 1	178	62	2.22	< 10	< 1	0.70	10	0.08	25	40
571680H	299	229	2.4	0.75	30	200	< 0.5	16	0.01	< 0.5	1	188	79	2.87	< 10	< 1	0.76	10	0.06	20	33
571681H	299	229	2.6	0.64	8	200	< 0.5	2	0.01	< 0.5	< 1	169	53	3.02	< 10	< 1	0.79	20	0.05	25	55
571682H	299	229	2.2	0.98	34	150	< 0.5	4	0.01	< 0.5	< 1	206	210	3.51	< 10	< 1	0.79	30	0.10	30	42
571683H	299	229	2.0	1.07	18	190	< 0.5	12	0.01	< 0.5	1	196	139	3.18	10	1	0.80	30	0.11	25	23

CERTIFICATION:

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:HER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. : I9320620
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571644H	299	229	0.01	2	130	114	< 2	1	7	< 0.01	< 10	< 10	11	< 10	16
571645H	299	229	0.01	1	220	32	< 2	1	6	0.01	< 10	< 10	5	10	6
571646H	299	229	0.01	2	120	16	< 2	1	4	< 0.01	< 10	< 10	8	< 10	6
571647H	299	229	0.02	3	100	16	< 2	1	4	< 0.01	< 10	< 10	10	< 10	6
571648H	299	229	0.01	2	60	20	< 2	< 1	5	< 0.01	< 10	< 10	5	< 10	4
571649H	299	229	0.01	2	70	22	< 2	1	7	< 0.01	< 10	< 10	13	< 10	8
571650H	299	229	0.01	2	120	22	4	2	8	< 0.01	< 10	< 10	16	10	8
571651H	299	229	0.02	2	100	22	2	2	10	< 0.01	< 10	< 10	14	20	6
571652H	299	229	0.02	2	520	12	2	4	39	< 0.01	< 10	< 10	32	20	34
571653H	299	229	0.03	1	380	6	2	3	27	< 0.01	< 10	< 10	21	40	14
571654H	299	229	0.02	2	240	16	< 2	3	9	< 0.01	< 10	< 10	15	10	6
571655H	299	229	0.02	< 1	330	28	6	4	9	< 0.01	< 10	< 10	27	20	10
571656H	299	229	0.02	1	250	14	4	3	13	< 0.01	< 10	< 10	16	10	6
571657H	299	229	0.02	2	210	14	2	2	8	< 0.01	< 10	< 10	15	10	4
571658H	299	229	0.02	< 1	180	8	< 2	2	6	< 0.01	< 10	< 10	16	20	10
571659H	299	229	0.02	1	310	16	2	2	14	< 0.01	< 10	< 10	16	10	24
571660H	299	229	0.02	1	280	26	< 2	2	15	< 0.01	< 10	< 10	15	10	10
571661H	299	229	0.02	3	250	4	2	1	11	< 0.01	< 10	< 10	13	10	10
571662H	299	229	0.02	1	260	4	6	1	9	< 0.01	< 10	< 10	17	10	8
571663H	299	229	0.02	2	190	8	4	2	5	< 0.01	< 10	< 10	16	10	10
571664H	299	229	0.02	2	180	24	2	2	6	< 0.01	< 10	< 10	13	< 10	6
571665H	299	229	0.03	2	150	16	< 2	2	6	< 0.01	< 10	< 10	11	10	6
571666H	299	229	0.02	1	160	14	< 2	1	9	< 0.01	< 10	< 10	10	10	6
571667H	299	229	0.02	2	360	18	4	1	19	< 0.01	< 10	< 10	18	10	14
571668H	299	229	0.02	1	540	14	2	2	14	< 0.01	< 10	< 10	17	10	42
571669H	299	229	0.02	1	470	14	< 2	1	12	< 0.01	< 10	< 10	17	10	14
571670H	299	229	0.02	< 1	610	14	< 2	2	13	< 0.01	< 10	< 10	14	10	6
571671H	299	229	0.02	1	300	10	< 2	2	9	< 0.01	< 10	< 10	12	10	12
571672H	299	229	0.02	2	510	14	< 2	3	10	< 0.01	< 10	< 10	16	10	12
571673H	299	229	0.01	2	940	20	6	6	14	< 0.01	< 10	< 10	38	10	30
571674H	299	229	0.01	1	560	16	2	2	9	< 0.01	< 10	< 10	23	10	10
571675H	299	229	0.01	2	710	62	< 2	2	10	< 0.01	< 10	< 10	17	< 10	10
571676H	299	229	0.01	2	330	14	2	2	8	< 0.01	< 10	< 10	14	10	16
571677H	299	229	0.01	< 1	500	18	< 2	1	8	< 0.01	< 10	< 10	15	10	6
571678H	299	229	0.02	1	530	12	6	1	10	< 0.01	< 10	< 10	29	20	24
571679H	299	229	0.02	< 1	260	14	< 2	1	7	< 0.01	< 10	< 10	15	< 10	8
571680H	299	229	0.02	1	380	24	< 2	1	6	< 0.01	< 10	< 10	17	10	10
571681H	299	229	0.02	1	210	12	2	1	6	< 0.01	< 10	< 10	13	10	8
571682H	299	229	0.02	1	610	14	2	1	9	< 0.01	< 10	< 10	23	10	12
571683H	299	229	0.02	1	520	12	< 2	2	12	< 0.01	< 10	< 10	19	10	12

CERTIFICATION: Ivan Bichler

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To: ...CHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. : I9320620
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571684H	299	229	2.6	0.67	14	360	< 0.5	12	0.03	< 0.5	< 1	110	90	2.07	< 10	< 1	0.58	20	0.08	20	22
571685H	299	229	2.0	0.67	16	120	< 0.5	10	0.02	< 0.5	< 1	86	150	3.34	< 10	< 1	0.59	30	0.08	30	47
571686H	299	229	4.0	0.57	14	220	< 0.5	48	0.01	< 0.5	< 1	98	101	3.16	< 10	1	0.62	20	0.06	15	80
571687H	299	229	1.6	0.59	8	260	< 0.5	20	0.01	< 0.5	< 1	88	92	2.27	< 10	< 1	0.47	10	0.07	15	47
571688H	299	229	2.4	0.56	12	230	< 0.5	12	0.01	< 0.5	2	93	271	3.18	< 10	< 1	0.47	20	0.06	65	60
571689H	299	229	1.6	0.55	20	210	< 0.5	< 2	0.01	< 0.5	3	83	146	2.27	< 10	< 1	0.46	10	0.07	15	36
571690H	299	229	1.6	0.59	8	60	< 0.5	2	0.01	< 0.5	8	68	153	2.80	< 10	< 1	0.47	10	0.06	35	32
571691H	299	229	1.0	0.78	8	180	< 0.5	< 2	0.01	< 0.5	5	95	132	2.28	< 10	< 1	0.49	10	0.09	15	31
571692H	299	229	2.2	0.54	6	90	< 0.5	22	0.01	< 0.5	13	72	198	2.83	< 10	< 1	0.43	10	0.06	15	34
571693H	299	229	1.2	0.56	< 2	60	< 0.5	14	0.01	< 0.5	14	88	257	2.58	< 10	< 1	0.41	10	0.06	10	11
571694H	299	229	1.4	0.88	6	60	< 0.5	< 2	0.01	< 0.5	14	86	781	3.18	< 10	< 1	0.40	10	0.09	10	12
571695H	299	229	1.4	0.72	18	30	< 0.5	46	0.01	< 0.5	14	82	548	4.26	< 10	< 1	0.37	10	0.08	10	20
571696H	299	229	1.6	0.96	8	40	< 0.5	18	0.02	< 0.5	12	70	1030	3.24	< 10	< 1	0.43	20	0.09	15	24
571697H	299	229	3.2	1.13	14	40	< 0.5	14	0.01	< 0.5	10	50	2490	3.04	10	< 1	0.30	40	0.08	20	3
571698H	299	229	1.4	2.17	< 2	30	< 0.5	12	0.22	0.5	8	47	1675	3.78	10	< 1	0.23	30	0.92	1025	2
571699H	299	229	1.2	1.51	12	20	< 0.5	12	0.18	< 0.5	22	93	1135	3.83	10	1	0.37	30	0.46	210	13
571700H	299	229	1.4	1.38	12	80	< 0.5	< 2	0.04	< 0.5	21	111	950	3.25	< 10	< 1	0.50	20	0.15	165	12
571701H	299	229	0.8	1.37	6	40	< 0.5	< 2	0.05	< 0.5	24	124	1620	4.39	< 10	< 1	0.50	10	0.15	55	13
571702H	299	229	2.0	1.12	14	40	< 0.5	< 2	0.09	< 0.5	33	100	1735	4.97	< 10	< 1	0.47	20	0.18	1035	31
571703H	299	229	0.8	1.26	6	40	< 0.5	< 2	0.09	< 0.5	21	118	1410	4.36	< 10	< 1	0.43	10	0.13	280	15
571704H	299	229	1.2	1.35	12	30	< 0.5	< 2	0.07	< 0.5	38	87	1940	4.26	< 10	< 1	0.50	10	0.15	175	20
571705H	299	229	0.8	1.02	28	10	< 0.5	4	0.02	< 0.5	30	99	1245	5.46	< 10	< 1	0.44	< 10	0.13	15	2
571706H	299	229	1.4	2.05	32	40	< 0.5	2	0.04	< 0.5	30	180	2370	3.83	< 10	< 1	0.79	10	0.19	90	29
571707H	299	229	0.8	1.93	16	30	< 0.5	2	0.03	< 0.5	35	210	1775	4.46	< 10	< 1	0.84	10	0.21	30	18
571708H	299	229	1.0	1.39	14	20	< 0.5	4	0.02	< 0.5	39	81	1630	4.79	< 10	< 1	0.39	10	0.11	20	4
571709H	299	229	1.2	1.98	34	20	< 0.5	< 2	0.06	< 0.5	33	206	1940	7.54	< 10	< 1	0.69	10	0.15	175	120
571710H	299	229	0.6	1.00	14	40	< 0.5	< 2	0.07	< 0.5	23	95	1290	5.15	< 10	< 1	0.41	10	0.13	870	11
571711H	299	229	0.4	1.41	8	10	< 0.5	< 2	0.02	< 0.5	59	146	1510	6.18	< 10	< 1	0.65	< 10	0.15	20	23
571712H	299	229	0.6	1.16	54	10	< 0.5	4	0.03	< 0.5	56	98	996	7.29	< 10	< 1	0.53	10	0.14	10	32
571713H	299	229	0.6	1.29	34	20	< 0.5	4	0.04	< 0.5	28	73	1525	5.51	< 10	< 1	0.54	< 10	0.13	60	10
571714H	299	229	1.4	1.47	18	30	< 0.5	2	0.06	< 0.5	22	74	2730	4.00	< 10	< 1	0.52	10	0.13	160	21
571715H	299	229	0.8	1.63	16	40	< 0.5	< 2	0.08	< 0.5	19	87	1710	4.75	< 10	< 1	0.56	10	0.16	645	23
571716H	299	229	1.2	1.29	2	30	< 0.5	< 2	0.15	< 0.5	30	79	1660	5.02	< 10	< 1	0.44	20	0.17	760	58
571717H	299	229	1.2	0.96	< 2	30	< 0.5	< 2	0.14	< 0.5	21	78	1145	5.09	< 10	< 1	0.34	20	0.21	420	18
571718H	299	229	0.6	1.06	18	60	< 0.5	< 2	0.11	< 0.5	29	77	1120	4.62	< 10	< 1	0.39	20	0.15	830	14
571719H	299	229	1.4	1.14	16	20	< 0.5	4	0.08	< 0.5	39	75	1910	5.46	< 10	< 1	0.44	10	0.12	70	12
571720H	299	229	0.6	0.93	10	30	< 0.5	< 2	0.04	< 0.5	34	79	1050	4.05	< 10	< 1	0.45	10	0.11	15	5
571721H	299	229	0.8	1.02	6	30	< 0.5	2	0.06	< 0.5	37	92	1075	3.91	< 10	< 1	0.49	10	0.13	30	11
571722H	299	229	0.8	1.54	18	30	< 0.5	< 2	0.09	< 0.5	39	96	1240	5.05	< 10	< 1	0.59	10	0.14	85	10
571723H	299	229	1.2	1.51	18	50	< 0.5	< 2	0.16	< 0.5	33	83	1255	5.58	< 10	< 1	0.58	10	0.17	580	32

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Project : CASINO 196
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Certificate Date: 13-SEP-93
Invoice No. :19320620
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571684H	299	229	0.02	< 1	270	18	< 2	1	9	< 0.01	< 10	< 10	11	10	8
571685H	299	229	0.02	< 1	500	8	4	1	10	< 0.01	< 10	< 10	16	10	22
571686H	299	229	0.01	< 1	320	6	< 2	1	8	< 0.01	< 10	< 10	15	10	4
571687H	299	229	0.01	< 1	190	8	2	1	7	< 0.01	< 10	< 10	12	10	6
571688H	299	229	0.01	< 1	350	10	6	1	7	< 0.01	< 10	< 10	20	10	24
571689H	299	229	0.01	1	280	10	2	1	7	< 0.01	< 10	< 10	12	< 10	8
571690H	299	229	0.01	1	180	14	< 2	1	4	< 0.01	< 10	< 10	9	10	14
571691H	299	229	0.01	1	280	6	2	1	7	< 0.01	< 10	< 10	12	10	6
571692H	299	229	0.01	1	120	8	< 2	1	4	< 0.01	< 10	< 10	7	< 10	6
571693H	299	229	0.01	2	70	16	< 2	1	3	< 0.01	< 10	< 10	5	< 10	4
571694H	299	229	0.01	2	180	18	< 2	2	7	< 0.01	< 10	< 10	9	10	4
571695H	299	229	0.01	2	160	12	2	2	6	< 0.01	< 10	< 10	9	10	4
571696H	299	229	0.01	2	370	32	< 2	5	7	< 0.01	< 10	< 10	11	10	4
571697H	299	229	< 0.01	7	330	22	4	6	12	< 0.01	< 10	< 10	14	< 10	6
571698H	299	229	0.02	8	1160	12	< 2	3	27	< 0.01	< 10	< 10	28	10	58
571699H	299	229	0.02	6	900	10	< 2	3	25	< 0.01	< 10	< 10	21	10	26
571700H	299	229	0.01	4	440	6	2	2	8	< 0.01	< 10	< 10	15	10	16
571701H	299	229	0.02	5	510	4	6	2	6	< 0.01	< 10	< 10	15	10	20
571702H	299	229	0.02	3	360	< 2	2	2	6	< 0.01	< 10	< 10	14	10	14
571703H	299	229	0.01	3	730	4	4	2	8	< 0.01	< 10	< 10	17	10	24
571704H	299	229	0.02	4	530	6	< 2	2	7	< 0.01	< 10	< 10	14	10	14
571705H	299	229	0.02	3	280	4	< 2	2	10	< 0.01	< 10	< 10	8	10	6
571706H	299	229	0.02	4	350	4	2	3	8	< 0.01	< 10	< 10	17	10	78
571707H	299	229	0.03	5	430	4	< 2	2	9	< 0.01	< 10	< 10	16	10	30
571708H	299	229	0.01	3	480	6	< 2	3	4	< 0.01	< 10	< 10	11	10	10
571709H	299	229	0.02	6	880	2	4	2	7	< 0.01	< 10	< 10	26	20	32
571710H	299	229	0.01	3	720	4	2	1	9	< 0.01	< 10	< 10	12	10	16
571711H	299	229	0.02	4	580	8	< 2	2	10	< 0.01	< 10	< 10	12	10	8
571712H	299	229	0.02	3	730	6	2	2	13	< 0.01	< 10	< 10	10	10	8
571713H	299	229	0.02	3	640	< 2	2	1	6	< 0.01	< 10	< 10	13	20	6
571714H	299	229	0.02	3	790	< 2	2	2	7	< 0.01	< 10	< 10	15	10	12
571715H	299	229	0.02	4	820	4	< 2	2	5	< 0.01	< 10	< 10	21	10	20
571716H	299	229	0.01	3	840	6	< 2	2	7	< 0.01	< 10	10	15	10	24
571717H	299	229	0.01	2	660	< 2	< 2	2	7	< 0.01	< 10	< 10	13	10	18
571718H	299	229	0.01	2	700	6	4	1	6	< 0.01	< 10	< 10	17	10	22
571719H	299	229	0.01	4	690	< 2	< 2	1	4	< 0.01	< 10	< 10	16	10	8
571720H	299	229	0.01	2	470	4	2	1	6	< 0.01	< 10	< 10	7	10	8
571721H	299	229	0.02	4	460	6	< 2	1	7	< 0.01	< 10	< 10	9	10	6
571722H	299	229	0.02	4	820	4	2	2	13	< 0.01	< 10	< 10	14	10	16
571723H	299	229	0.02	2	790	< 2	4	2	7	< 0.01	< 10	< 10	24	20	28

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. :I9320620
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571724H	299	229	0.2	1.10	32	< 10	< 0.5	< 2	0.09	< 0.5	42	79	723	8.74	< 10	< 1	0.48	< 10	0.12	60	6
571725H	299	229	1.0	1.17	16	10	< 0.5	2	0.09	< 0.5	49	68	1110	6.55	< 10	< 1	0.53	10	0.14	10	6
571726H	299	229	0.6	1.07	16	30	< 0.5	2	0.11	< 0.5	41	90	789	4.87	< 10	< 1	0.43	10	0.12	150	16
571727H	299	229	0.6	1.20	6	30	< 0.5	< 2	0.11	< 0.5	29	71	1220	4.43	< 10	< 1	0.42	10	0.10	355	17
571728H	299	229	1.2	1.00	16	20	< 0.5	< 2	0.11	< 0.5	44	78	1840	5.75	< 10	< 1	0.37	10	0.10	380	127
571729H	299	229	0.6	0.90	2	60	< 0.5	< 2	0.18	< 0.5	30	83	1045	5.66	< 10	< 1	0.37	20	0.17	870	11
571730H	299	229	0.6	0.99	8	30	< 0.5	2	0.08	< 0.5	29	74	834	3.91	< 10	< 1	0.35	10	0.10	15	11
571731H	299	229	0.4	0.90	8	20	< 0.5	< 2	0.10	< 0.5	35	82	534	5.33	< 10	< 1	0.35	10	0.09	10	3
571732H	299	229	1.0	0.77	12	40	< 0.5	< 2	0.15	< 0.5	22	64	686	4.83	< 10	< 1	0.34	10	0.11	590	1
571733H	299	229	0.8	0.93	22	20	< 0.5	2	0.10	< 0.5	45	80	929	5.50	< 10	< 1	0.40	10	0.10	15	9
571734H	299	229	0.6	0.79	10	20	< 0.5	< 2	0.09	< 0.5	40	82	622	4.67	< 10	< 1	0.35	< 10	0.08	10	20
571735H	299	229	0.8	0.83	24	30	< 0.5	< 2	0.14	< 0.5	31	79	521	5.49	< 10	< 1	0.37	10	0.11	670	5
571736H	299	229	1.0	1.24	16	40	< 0.5	< 2	0.17	< 0.5	23	81	1055	4.38	< 10	< 1	0.38	20	0.16	1120	10
571737H	299	229	0.8	1.05	8	90	< 0.5	< 2	0.15	< 0.5	22	71	1050	4.79	< 10	< 1	0.39	20	0.18	1100	94
571738H	299	229	1.0	1.59	24	140	< 0.5	2	0.20	< 0.5	27	92	1180	3.66	< 10	< 1	0.39	20	0.17	40	42
571739H	299	229	0.8	1.36	4	100	< 0.5	< 2	0.14	< 0.5	27	79	782	3.94	< 10	< 1	0.46	20	0.16	45	12
571740H	299	229	0.4	1.01	10	100	< 0.5	< 2	0.14	< 0.5	38	96	699	5.67	< 10	< 1	0.36	20	0.16	65	24
571741H	299	229	0.8	1.69	12	130	< 0.5	< 2	0.16	< 0.5	31	163	972	3.72	< 10	< 1	0.55	20	0.21	45	18
571742H	299	229	1.2	1.56	8	110	< 0.5	< 2	0.14	< 0.5	24	188	855	4.24	< 10	1	0.62	20	0.18	35	25
571743H	299	229	1.0	1.55	< 2	50	< 0.5	< 2	0.14	< 0.5	30	193	938	4.66	< 10	< 1	0.58	10	0.15	35	61
571744H	299	229	0.8	1.57	10	40	< 0.5	< 2	0.19	< 0.5	25	149	907	3.93	< 10	1	0.47	20	0.31	85	45
571745H	299	229	0.8	1.56	6	40	< 0.5	< 2	0.20	< 0.5	27	173	849	4.65	< 10	< 1	0.46	30	0.25	65	73
571746H	299	229	0.6	1.66	16	60	< 0.5	< 2	0.17	< 0.5	19	180	1060	3.72	< 10	< 1	0.52	20	0.22	65	28
571747H	299	229	1.0	1.36	16	60	< 0.5	2	0.16	< 0.5	20	166	969	4.10	< 10	< 1	0.47	20	0.21	70	66
571748H	299	229	0.8	1.43	18	40	< 0.5	2	0.16	< 0.5	21	178	928	4.46	< 10	< 1	0.54	20	0.22	100	50
571749H	299	229	0.4	1.25	6	60	< 0.5	< 2	0.29	< 0.5	32	157	692	5.64	< 10	1	0.35	20	0.26	760	3
571750H	299	229	0.4	1.20	6	70	< 0.5	< 2	0.20	< 0.5	33	180	621	5.53	< 10	< 1	0.49	10	0.18	630	15
571751H	299	229	0.4	1.32	8	30	< 0.5	< 2	0.17	< 0.5	29	162	654	6.47	< 10	< 1	0.61	10	0.16	765	94
571752H	299	229	0.6	1.20	14	70	< 0.5	< 2	0.16	< 0.5	23	137	808	5.33	< 10	< 1	0.55	20	0.13	1135	209
571753H	299	229	1.2	1.25	< 2	10	< 0.5	< 2	0.13	0.5	95	146	1700	6.50	< 10	< 1	0.55	10	0.14	155	18
571754H	299	229	0.6	1.10	2	20	< 0.5	< 2	0.13	< 0.5	37	113	679	5.26	< 10	< 1	0.46	10	0.11	140	42
571755H	299	229	0.8	1.12	< 2	30	< 0.5	8	0.14	0.5	24	144	915	4.36	< 10	< 1	0.45	10	0.14	35	71
571756H	299	229	0.6	1.20	2	10	< 0.5	4	0.14	< 0.5	54	159	732	6.47	< 10	< 1	0.47	10	0.14	30	74
571757H	299	229	2.2	1.14	16	20	< 0.5	< 2	0.14	2.5	23	137	1040	4.73	< 10	< 1	0.45	10	0.13	240	43
571758H	299	229	0.4	1.15	< 2	30	< 0.5	< 2	0.15	< 0.5	29	104	709	4.45	< 10	< 1	0.45	10	0.13	215	25
571759H	299	229	0.6	1.23	< 2	40	< 0.5	< 2	0.17	< 0.5	25	151	790	4.75	< 10	1	0.48	20	0.14	620	52
571760H	299	229	0.4	1.08	10	30	< 0.5	< 2	0.16	< 0.5	36	132	714	5.25	< 10	< 1	0.46	10	0.13	795	19
571761H	299	229	0.6	1.13	4	40	< 0.5	< 2	0.17	< 0.5	26	142	860	4.65	< 10	< 1	0.40	20	0.12	510	11
571762H	299	229	0.4	1.18	8	20	< 0.5	2	0.15	< 0.5	24	143	858	5.06	< 10	< 1	0.48	10	0.12	305	21
571763H	299	229	0.4	0.96	< 2	100	< 0.5	< 2	0.12	< 0.5	17	124	524	3.81	< 10	< 1	0.41	20	0.10	80	49

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ...CHER CATHRO & ASSOC. (1981) LTD.
...TTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. :19320620
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571724H	299	229	0.02	4	570	2	2	1	12	< 0.01	< 10	< 10	10	< 10	12
571725H	299	229	0.02	4	600	2	< 2	1	16	< 0.01	< 10	< 10	10	< 10	8
571726H	299	229	0.01	4	720	4	< 2	1	18	< 0.01	< 10	< 10	10	< 10	14
571727H	299	229	0.01	3	760	2	2	1	19	< 0.01	< 10	< 10	17	< 10	16
571728H	299	229	0.01	3	730	2	4	1	18	< 0.01	< 10	< 10	14	< 10	14
571729H	299	229	0.01	3	610	< 2	< 2	1	9	< 0.01	< 10	< 10	15	< 10	26
571730H	299	229	0.01	2	670	< 2	< 2	1	21	< 0.01	< 10	< 10	8	< 10	6
571731H	299	229	0.01	3	650	< 2	< 2	1	17	< 0.01	< 10	< 10	8	< 10	12
571732H	299	229	0.01	2	610	16	< 2	1	9	< 0.01	< 10	< 10	11	< 10	24
571733H	299	229	0.01	3	620	6	2	1	17	< 0.01	< 10	< 10	8	< 10	12
571734H	299	229	0.01	3	560	4	< 2	1	23	< 0.01	< 10	< 10	7	< 10	6
571735H	299	229	0.01	4	630	2	< 2	1	23	< 0.01	< 10	< 10	9	< 10	16
571736H	299	229	0.01	3	840	6	2	2	40	< 0.01	< 10	10	15	< 10	34
571737H	299	229	0.01	2	580	< 2	8	1	10	< 0.01	< 10	< 10	19	< 10	36
571738H	299	229	0.01	4	1370	4	2	3	32	< 0.01	< 10	10	23	< 10	28
571739H	299	229	0.01	3	660	< 2	< 2	2	12	< 0.01	< 10	< 10	20	< 10	22
571740H	299	229	0.01	4	600	2	2	1	8	< 0.01	< 10	< 10	15	< 10	26
571741H	299	229	0.02	4	720	< 2	< 2	2	18	< 0.01	< 10	< 10	20	< 10	24
571742H	299	229	0.02	4	620	4	< 2	2	12	< 0.01	< 10	< 10	18	< 10	20
571743H	299	229	0.02	4	680	6	2	2	29	< 0.01	< 10	< 10	17	< 10	22
571744H	299	229	0.02	4	670	10	2	2	31	< 0.01	< 10	< 10	17	< 10	24
571745H	299	229	0.02	6	890	8	< 2	6	88	< 0.01	< 10	10	39	< 10	28
571746H	299	229	0.02	4	830	6	4	3	124	< 0.01	< 10	< 10	24	< 10	28
571747H	299	229	0.02	5	600	14	4	2	9	< 0.01	< 10	< 10	20	< 10	34
571748H	299	229	0.02	4	610	6	2	2	8	< 0.01	< 10	10	23	< 10	40
571749H	299	229	0.01	4	560	4	2	2	9	< 0.01	< 10	< 10	15	< 10	24
571750H	299	229	0.02	3	560	2	< 2	2	9	< 0.01	< 10	10	14	< 10	24
571751H	299	229	0.02	4	570	< 2	< 2	2	8	< 0.01	< 10	< 10	17	< 10	22
571752H	299	229	0.02	2	530	6	6	1	8	< 0.01	< 10	< 10	20	< 10	44
571753H	299	229	0.02	4	460	32	< 2	1	7	< 0.01	< 10	< 10	13	< 10	96
571754H	299	229	0.02	5	500	4	2	1	18	< 0.01	< 10	< 10	14	< 10	32
571755H	299	229	0.02	6	580	16	2	1	58	< 0.01	< 10	< 10	13	< 10	34
571756H	299	229	0.02	6	580	4	< 2	2	19	< 0.01	< 10	< 10	15	< 10	24
571757H	299	229	0.02	5	600	76	< 2	2	56	< 0.01	< 10	< 10	17	< 10	202
571758H	299	229	0.02	3	570	< 2	2	1	8	< 0.01	< 10	< 10	16	< 10	26
571759H	299	229	0.02	4	610	14	< 2	2	10	< 0.01	< 10	< 10	21	< 10	44
571760H	299	229	0.02	5	590	< 2	< 2	2	30	< 0.01	< 10	< 10	19	< 10	32
571761H	299	229	0.02	6	630	2	< 2	2	14	< 0.01	< 10	< 10	21	< 10	40
571762H	299	229	0.02	4	580	6	< 2	2	31	< 0.01	< 10	< 10	18	< 10	28
571763H	299	229	0.01	6	480	10	< 2	1	11	< 0.01	< 10	< 10	14	< 10	30

CERTIFICATION: _____

Chemex Labs Ltd.

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Certificate Date: 13-SEP-93
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CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571764H	299	229	1.0	0.54	< 2	10	< 0.5	2	0.13	< 0.5	40	70	590	6.05	< 10	< 1	0.25	10	0.08	450	29
571765H	299	229	0.8	1.08	36	20	< 0.5	< 2	0.13	< 0.5	26	126	765	4.73	< 10	< 1	0.47	10	0.11	300	52
571766H	299	229	0.8	0.86	8	30	< 0.5	< 2	0.12	< 0.5	20	119	937	4.37	< 10	< 1	0.34	10	0.09	200	32
571767H	299	229	7.4	1.24	8	40	< 0.5	12	0.15	< 0.5	19	134	1785	4.03	< 10	< 1	0.47	20	0.12	585	101
571768H	299	229	0.4	0.52	2	30	< 0.5	< 2	0.14	< 0.5	20	75	700	3.96	< 10	< 1	0.21	20	0.08	310	21
571769H	299	229	0.8	1.24	8	50	< 0.5	< 2	0.17	< 0.5	15	116	766	4.36	< 10	< 1	0.42	20	0.15	620	28
571770H	299	229	0.4	1.26	< 2	20	< 0.5	2	0.14	< 0.5	27	131	628	4.26	< 10	< 1	0.49	10	0.12	320	30
571771H	299	229	0.6	1.34	8	20	< 0.5	4	0.23	< 0.5	34	160	710	5.00	< 10	< 1	0.60	10	0.13	215	30
571772H	299	229	0.6	1.58	24	20	< 0.5	2	0.15	< 0.5	22	156	781	5.43	< 10	< 1	0.57	10	0.14	270	89
571773H	299	229	1.2	1.13	2	20	< 0.5	< 2	0.15	< 0.5	31	130	1135	5.31	< 10	< 1	0.48	10	0.14	385	8
571774H	299	229	0.4	1.11	4	30	< 0.5	2	0.14	< 0.5	26	108	538	3.51	< 10	< 1	0.38	20	0.11	50	14
571775H	299	229	0.4	1.25	2	30	< 0.5	< 2	0.14	< 0.5	23	118	964	4.14	< 10	< 1	0.41	20	0.12	470	11
571776H	299	229	0.6	1.34	< 2	40	< 0.5	2	0.16	< 0.5	18	121	863	4.98	< 10	< 1	0.43	20	0.19	510	11
571777H	299	229	0.4	1.34	18	30	< 0.5	< 2	0.16	< 0.5	25	108	1040	4.69	< 10	< 1	0.47	10	0.13	295	15
571778H	299	229	0.6	1.51	8	30	< 0.5	< 2	0.17	< 0.5	22	116	1490	3.83	< 10	< 1	0.45	20	0.12	185	25
571779H	299	229	0.6	1.31	8	20	< 0.5	2	0.17	< 0.5	25	132	668	5.43	< 10	< 1	0.54	10	0.14	240	19
571780H	299	229	0.4	1.65	6	20	< 0.5	< 2	0.16	< 0.5	24	115	635	4.38	< 10	< 1	0.39	10	0.16	75	6
571781H	299	229	0.6	1.35	20	20	< 0.5	< 2	0.15	< 0.5	21	105	657	4.61	< 10	< 1	0.43	10	0.14	100	29
571782H	299	229	< 0.2	1.06	2	20	< 0.5	4	0.15	< 0.5	34	114	239	4.48	< 10	< 1	0.48	10	0.11	55	3
571783H	299	229	0.2	0.86	2	30	< 0.5	6	0.12	< 0.5	53	139	322	6.79	< 10	< 1	0.47	< 10	0.05	15	14
571784H	299	229	0.6	0.63	2	10	< 0.5	6	0.14	< 0.5	65	86	673	7.72	< 10	< 1	0.36	10	0.04	20	27
571785H	299	229	0.4	0.90	< 2	10	< 0.5	< 2	0.14	< 0.5	37	122	499	5.57	< 10	< 1	0.46	10	0.08	20	6
571786H	299	229	0.2	1.08	12	10	< 0.5	6	0.14	< 0.5	39	132	345	5.35	< 10	< 1	0.56	10	0.10	30	3
571787H	299	229	0.2	0.99	< 2	10	< 0.5	< 2	0.13	< 0.5	42	156	390	6.69	< 10	< 1	0.51	< 10	0.08	25	7
571788H	299	229	0.2	1.09	2	30	< 0.5	< 2	0.14	< 0.5	36	138	636	5.23	< 10	< 1	0.47	10	0.13	365	41
571789H	299	229	0.4	1.03	< 2	20	< 0.5	< 2	0.14	< 0.5	48	99	485	5.11	< 10	< 1	0.42	10	0.12	195	4
571790H	299	229	0.4	1.21	12	10	< 0.5	< 2	0.16	< 0.5	36	125	1305	6.34	< 10	< 1	0.48	10	0.14	225	9
571791H	299	229	0.4	1.36	4	20	< 0.5	< 2	0.14	< 0.5	25	163	366	5.76	< 10	< 1	0.53	10	0.15	105	7
571792H	299	229	0.2	1.43	4	20	< 0.5	< 2	0.14	< 0.5	17	173	231	5.02	< 10	< 1	0.51	10	0.14	45	1
571793H	299	229	0.2	1.26	2	20	< 0.5	2	0.15	< 0.5	21	182	299	4.73	< 10	< 1	0.46	10	0.13	35	1
571794H	299	229	0.2	1.34	< 2	20	< 0.5	4	0.15	< 0.5	51	146	619	5.27	< 10	< 1	0.56	10	0.14	25	6
571795H	299	229	0.6	0.97	< 2	10	< 0.5	< 2	0.15	< 0.5	48	106	1140	5.24	< 10	< 1	0.45	10	0.10	20	42
571796H	299	229	0.6	1.30	8	30	< 0.5	< 2	0.15	< 0.5	27	120	648	3.58	< 10	< 1	0.43	10	0.14	40	11
571797H	299	229	0.8	1.12	16	10	< 0.5	4	0.14	< 0.5	43	123	551	5.93	< 10	< 1	0.52	10	0.12	40	20
571798H	299	229	0.4	1.14	< 2	70	< 0.5	< 2	0.15	< 0.5	40	112	773	4.79	< 10	< 1	0.44	10	0.13	60	8
571799H	299	229	1.6	1.05	8	10	< 0.5	< 2	0.14	< 0.5	50	99	1410	8.92	< 10	< 1	0.55	10	0.11	30	35
571800H	299	229	1.6	1.06	44	10	< 0.5	< 2	0.14	< 0.5	27	115	368	6.09	< 10	< 1	0.55	10	0.12	25	8
571801H	299	229	1.8	1.08	32	20	< 0.5	< 2	0.15	< 0.5	49	109	1290	5.64	< 10	< 1	0.51	10	0.12	60	22
571802H	299	229	1.4	1.15	20	10	< 0.5	4	0.13	< 0.5	34	104	610	6.61	< 10	< 1	0.55	10	0.12	75	35
571803H	299	229	5.2	1.05	244	30	< 0.5	10	0.14	< 0.5	54	108	1580	9.31	< 10	< 1	0.48	10	0.12	30	20

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-SEP-93
Invoice No. : I9320620
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571764H	299	229	0.01	3	460	250	2	1	6	< 0.01	< 10	< 10	10	< 10	60
571765H	299	229	0.02	6	490	58	2	2	21	< 0.01	< 10	< 10	15	< 10	30
571766H	299	229	0.01	4	490	86	2	1	28	< 0.01	< 10	< 10	13	< 10	20
571767H	299	229	0.01	4	580	40	2	2	11	< 0.01	< 10	< 10	20	< 10	50
571768H	299	229	0.01	3	490	22	< 2	1	6	< 0.01	< 10	< 10	14	< 10	26
571769H	299	229	0.01	4	560	8	2	3	7	< 0.01	< 10	< 10	29	< 10	32
571770H	299	229	0.02	4	540	2	2	2	11	< 0.01	< 10	10	22	< 10	22
571771H	299	229	0.02	7	1010	< 2	< 2	2	58	< 0.01	< 10	< 10	20	< 10	16
571772H	299	229	0.02	11	720	4	< 2	3	26	< 0.01	< 10	< 10	25	< 10	32
571773H	299	229	0.02	5	530	< 2	< 2	2	9	< 0.01	< 10	< 10	18	< 10	22
571774H	299	229	0.01	3	510	< 2	2	1	7	< 0.01	< 10	< 10	13	< 10	26
571775H	299	229	0.01	6	620	4	< 2	2	8	< 0.01	< 10	< 10	21	< 10	28
571776H	299	229	0.01	3	550	< 2	2	3	6	< 0.01	< 10	< 10	29	< 10	30
571777H	299	229	0.02	4	630	< 2	< 2	3	9	< 0.01	< 10	< 10	28	< 10	22
571778H	299	229	0.02	4	720	< 2	2	3	13	< 0.01	< 10	< 10	28	< 10	30
571779H	299	229	0.02	4	580	14	< 2	3	8	< 0.01	< 10	< 10	24	< 10	24
571780H	299	229	0.01	4	580	10	< 2	4	6	< 0.01	< 10	< 10	28	< 10	32
571781H	299	229	0.01	3	540	< 2	< 2	2	6	< 0.01	< 10	10	21	< 10	20
571782H	299	229	0.02	3	530	< 2	< 2	1	6	< 0.01	< 10	< 10	12	< 10	14
571783H	299	229	0.02	6	430	< 2	< 2	1	5	< 0.01	< 10	< 10	12	< 10	4
571784H	299	229	0.02	5	510	2	< 2	1	5	< 0.01	< 10	< 10	9	< 10	4
571785H	299	229	0.02	4	470	14	< 2	1	6	< 0.01	< 10	< 10	12	< 10	14
571786H	299	229	0.02	4	500	< 2	< 2	2	6	< 0.01	< 10	< 10	15	< 10	16
571787H	299	229	0.02	4	440	< 2	< 2	2	6	< 0.01	< 10	< 10	14	< 10	12
571788H	299	229	0.02	4	510	2	2	2	7	< 0.01	< 10	< 10	16	< 10	26
571789H	299	229	0.02	3	490	6	< 2	2	7	< 0.01	< 10	< 10	16	< 10	26
571790H	299	229	0.02	4	520	2	< 2	2	6	< 0.01	< 10	< 10	19	< 10	36
571791H	299	229	0.02	6	510	< 2	< 2	2	7	< 0.01	< 10	< 10	17	< 10	24
571792H	299	229	0.02	3	510	< 2	< 2	2	7	< 0.01	< 10	< 10	17	< 10	42
571793H	299	229	0.01	5	530	12	< 2	2	7	< 0.01	< 10	< 10	16	< 10	24
571794H	299	229	0.02	4	550	6	< 2	2	6	< 0.01	< 10	< 10	15	< 10	18
571795H	299	229	0.02	5	520	6	< 2	1	5	< 0.01	< 10	< 10	13	< 10	14
571796H	299	229	0.01	4	550	4	< 2	2	6	< 0.01	< 10	< 10	19	< 10	24
571797H	299	229	0.02	4	500	86	< 2	2	6	< 0.01	< 10	< 10	16	< 10	50
571798H	299	229	0.02	4	550	8	< 2	2	6	< 0.01	< 10	< 10	16	< 10	16
571799H	299	229	0.02	4	460	26	2	2	4	< 0.01	< 10	< 10	21	< 10	28
571800H	299	229	0.02	4	500	36	4	2	4	< 0.01	< 10	< 10	14	< 10	50
571801H	299	229	0.02	3	570	2	< 2	2	6	< 0.01	< 10	< 10	15	< 10	16
571802H	299	229	0.02	4	480	8	2	2	6	< 0.01	< 10	< 10	18	< 10	20
571803H	299	229	0.01	4	490	18	4	2	4	< 0.01	< 10	< 10	14	< 10	34

CERTIFICATION: Ian R. Bradley

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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To. RCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Numb 3-A
Total Pages :5
Certificate Date: 13-SEP-93
Invoice No. :I9320620
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571804H	299	229	0.6	1.94	6	50	< 0.5	< 2	0.21	< 0.5	19	124	652	4.01	10	< 1	0.41	10	0.20	85	9
571805H	299	229	0.8	1.81	42	30	< 0.5	< 2	0.17	< 0.5	19	142	778	4.54	10	< 1	0.52	10	0.17	60	10
571806H	299	229	1.0	1.36	12	30	< 0.5	2	0.16	< 0.5	38	96	722	4.35	< 10	< 1	0.43	10	0.14	55	17
571807H	299	229	0.8	1.13	28	10	< 0.5	< 2	0.15	< 0.5	25	117	284	6.44	< 10	< 1	0.46	10	0.12	35	5

CERTIFICATION:

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Project : CASINO 196
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Numb. :B
Total Pages :5
Certificate Date: 13-SEP-93
Invoice No. :19320620
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320620

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571804H	299	229	0.01	4	650	4	< 2	5	8	< 0.01	< 10	< 10	40	< 10	32
571805H	299	229	0.02	5	670	8	< 2	4	7	< 0.01	< 10	< 10	34	< 10	26
571806H	299	229	0.01	4	620	4	< 2	3	7	< 0.01	< 10	< 10	23	< 10	24
571807H	299	229	0.02	3	570	2	2	2	5	< 0.01	< 10	< 10	15	< 10	18

CERTIFICATION:

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Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :4
Certificate Date: 21-SEP-93
Invoice No. :I9320780
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320780

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
569996	208	274	0.34	0.045	0.41	1400						
569997	208	276	0.42	0.049	0.69	7720						
569998	208	276	0.20	0.037	0.55	8500						
569999	208	274	0.08	0.041	0.24	5900						
570000	208	276	0.13	0.047	0.14	11060						
587501	208	276	0.15	0.092	0.27	8000						
587502	208	276	0.15	0.033	0.34	11280						
587503	208	276	0.22	0.048	0.34	10980						
587504	208	276	0.11	0.025	0.14	9220						
587505	208	276	0.08	0.031	0.21	10700						
587506	208	276	0.19	0.041	0.21	10200						
587507	208	276	0.24	0.071	0.48	10480						
587508	208	274	0.36	0.053	0.51	4140						
587509	208	276	0.23	0.064	0.75	11300						
587510	208	276	0.09	0.017	0.17	10100						
587511	208	273	0.07	0.033	0.14	12240						
587512	208	276	0.07	0.041	0.14	10980						
587513	208	274	0.17	0.045	0.14	6260						
587514	208	276	0.05	0.016	0.10	11440						
587515	208	273	0.17	0.031	0.14	12360						
587516	208	276	0.12	0.025	0.14	9420						
587517	208	274	0.18	0.037	0.14	2400						
587518	208	276	0.09	0.020	0.10	10260						
587519	208	276	0.25	0.025	0.10	11800						
587520	208	273	0.39	0.068	0.41	12940						
587521	208	274	0.29	0.042	0.31	6880						
587522	208	276	0.38	0.049	0.34	10800						
587523	208	274	0.35	0.070	0.65	3460						
587524	208	276	0.43	0.041	0.99	9400						
587525	208	273	0.56	0.061	0.82	13740						
587526	208	276	0.22	0.112	0.45	11280						
587527	208	276	0.17	0.037	0.34	10800						
587528	208	276	0.23	0.044	0.27	10700						
587529	208	276	0.25	0.041	0.27	9820						
587530	208	276	0.22	0.044	0.31	8800						
587531	208	276	0.40	0.082	0.62	8700						
587532	208	276	0.17	0.041	0.27	9800						
587533	208	276	0.24	0.021	0.34	9880						
587534	208	276	0.16	0.021	0.24	9980						
587535	208	276	0.18	0.014	0.14	10060						

CERTIFICATION: _____

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Y1A 3S9

Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2
Total Pages :4
Certificate Date: 21-SEP-93
Invoice No. :19320780
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320780

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
587536	208	274	0.22	0.023	0.24	5400						
587537	208	276	0.18	0.052	0.17	9480						
587538	208	276	0.20	0.040	0.21	8940						
587539	208	276	0.13	0.033	0.14	10300						
587540	208	276	0.20	0.032	0.21	11540						
587541	208	276	0.20	0.039	0.17	10740						
587542	208	276	0.20	0.096	0.31	9060						
587543	208	276	0.20	0.051	0.34	9620						
587544	208	274	0.23	0.075	0.38	7140						
587545	208	274	0.16	0.037	0.31	5980						
587546	208	274	0.15	0.026	0.17	7100						
587547	208	274	0.14	0.029	0.14	5200						
587548	208	274	0.23	0.049	0.21	6400						
587549	208	276	0.14	0.034	0.17	8000						
587550	208	274	0.09	0.023	0.14	4480						
587551	208	276	0.10	0.026	0.14	7480						
587552	208	276	0.19	0.031	0.27	8560						
587553	208	276	0.17	0.079	0.24	7640						
587554	208	274	0.08	0.071	0.14	3780						
587555	208	276	0.09	0.031	0.10	11000						
587556	208	276	0.11	0.041	0.14	9000						
587557	208	276	0.14	0.121	0.21	8640						
587558	208	276	0.15	0.053	0.34	8820						
587559	208	274	0.13	0.045	0.24	5720						
587560	208	276	0.10	0.232	0.24	8560						
587561	208	273	0.19	0.116	0.24	12320						
587562	208	273	0.27	0.054	0.31	16180						
587563	208	273	0.16	0.068	0.24	13360						
587564	208	273	0.14	0.065	0.24	12240						
587565	208	273	0.15	0.087	0.17	11860						
587566	208	273	0.13	0.101	0.21	13040						
587567	208	273	0.14	0.099	0.24	12400						
587568	208	273	0.10	0.111	0.14	12540						
587569	208	273	0.15	0.089	0.24	12220						
587570	208	273	0.22	0.080	0.38	12560						
587571	208	273	0.15	0.052	0.34	12740						
587572	208	273	0.23	0.097	0.65	12260						
587573	208	273	0.14	0.116	0.24	12920						
587574	208	273	0.10	0.085	0.38	12140						
587575	208	273	0.10	0.080	0.24	12040						

CERTIFICATION: _____

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Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-SEP-93
Invoice No. : I9320780
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320780

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
587576	208	273	0.11	0.096	0.17	11880						
587577	208	276	0.11	0.047	0.17	10760						
587578	208	270	0.10	0.195	0.17	17100						
587579	208	276	0.10	0.104	0.55	9000						
587580	208	276	0.11	0.044	0.21	11800						
587581	208	273	0.28	0.054	0.38	12120						
587582	208	273	0.13	0.122	0.24	12060						
587583	208	276	0.10	0.078	0.14	10240						
587584	208	273	0.10	0.025	0.21	11900						
587585	208	276	0.07	0.084	0.69	11560						
587586	208	273	0.10	0.196	0.17	13840						
587587	208	273	0.12	0.126	0.34	12480						
587588	208	273	0.08	0.061	0.17	12800						
587589	208	273	0.15	0.053	0.31	12160						
587590	208	273	0.07	0.065	0.17	13060						
587591	208	273	0.05	0.028	0.14	12120						
587592	208	276	0.08	0.039	0.21	11560						
587593	208	273	0.46	0.062	0.21	13040						
587594	208	273	0.22	0.051	0.21	12560						
587595	208	273	0.13	0.144	0.17	12800						
587596	208	273	0.10	0.063	0.10	11900						
587597	208	276	0.22	0.113	0.21	11560						
587598	208	273	0.15	0.052	0.21	12820						
587599	208	276	0.11	0.088	0.21	9100						
587600	208	276	0.09	0.080	0.10	11620						
587601	208	273	0.14	0.091	0.17	12500						
587602	208	276	0.14	0.043	0.17	10660						
587603	208	276	0.11	0.058	0.10	10080						
587604	208	273	0.18	0.065	0.48	13600						
587605	208	276	0.08	0.106	0.17	11360						
587606	208	276	0.07	0.044	0.14	11700						
587607	208	276	0.17	0.065	0.07	11380						
587608	208	276	0.79	0.048	0.31	11800						
587609	208	273	0.42	0.019	0.41	12920						
587610	208	276	0.18	0.028	0.17	11400						
587611	208	273	0.12	0.041	0.14	14560						
587612	208	273	0.20	0.145	0.07	14020						
587613	208	273	0.08	0.019	0.14	13520						
587614	208	273	0.12	0.026	0.17	13360						
587615	208	273	0.18	0.050	0.45	13900						

CERTIFICATION:

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Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4
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Certificate Date: 21-SEP-93
Invoice No. :I9320780
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320780

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
587616	208	273	0.10	0.039	0.24	14300						
587617	208	273	0.07	0.041	0.17	13740						
587618	208	273	0.06	0.061	0.21	13920						
587619	208	273	0.09	0.052	0.27	13200						
587620	208	273	0.11	0.081	0.21	13800						
587621	208	273	0.04	0.053	0.10	13500						
587622	208	273	0.08	0.032	0.17	13460						
587623	208	273	0.09	0.094	0.14	12480						
587624	208	273	0.05	0.022	0.14	13030						
587625	208	273	0.03	0.023	0.07	13360						
587626	208	273	0.04	0.013	0.10	12800						
587627	208	273	0.05	0.013	0.10	12260						

CERTIFICATION: _____

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Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :4
Certificate Date: 21-SEP-93
Invoice No. :19320781
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
569996	299	229	1.2	2.48	4	330	< 0.5	< 2	0.34	2.0	15	179	3180	3.08	10	< 1	1.55	30	2.07	440	251
569997	299	229	2.6	2.29	22	850	< 0.5	< 2	0.35	1.5	13	141	3930	3.10	< 10	< 1	1.41	20	2.07	245	276
569998	299	229	1.4	1.37	20	150	< 0.5	< 2	0.38	1.0	11	59	2050	2.45	10	< 1	0.60	30	0.68	230	220
569999	299	229	1.2	0.36	6	140	< 0.5	< 2	0.10	0.5	3	102	885	1.85	< 10	< 1	0.16	30	0.07	65	252
570000	299	229	1.2	0.70	8	150	< 0.5	< 2	0.16	1.0	5	70	1260	2.48	10	1	0.31	60	0.26	85	269
587501	299	229	2.0	0.50	44	830	< 0.5	8	0.11	0.5	6	71	1615	3.80	< 10	< 1	0.31	30	0.11	110	577
587502	299	229	1.8	1.51	14	700	< 0.5	2	0.31	1.0	13	66	1595	3.04	10	< 1	0.70	40	0.76	310	190
587503	299	229	1.4	2.16	32	490	< 0.5	4	0.42	1.0	11	51	2130	3.47	10	< 1	1.08	30	1.31	260	277
587504	299	229	0.8	1.50	2	2100	< 0.5	2	0.18	1.0	12	91	1075	2.85	10	< 1	0.69	30	0.78	185	133
587505	299	229	1.2	1.02	4	1500	< 0.5	< 2	0.09	< 0.5	11	104	832	2.71	< 10	< 1	0.53	30	0.56	110	180
587506	299	229	1.6	1.88	12	720	< 0.5	2	0.30	1.0	17	60	1895	3.59	10	< 1	0.87	40	1.08	320	235
587507	299	229	2.4	2.81	14	1130	< 0.5	4	0.51	2.0	20	33	2280	3.81	10	< 1	1.21	40	1.83	555	390
587508	299	229	2.8	2.09	36	660	< 0.5	8	0.44	1.5	13	24	3410	3.89	10	1	0.80	30	1.24	250	298
587509	299	229	3.8	1.79	16	700	< 0.5	8	0.26	< 0.5	11	34	2200	4.14	10	< 1	0.80	30	1.00	315	374
587510	299	229	1.2	1.37	12	640	< 0.5	< 2	0.11	< 0.5	7	77	923	1.80	< 10	< 1	0.52	20	0.58	160	105
587511	299	229	1.8	0.47	22	260	< 0.5	< 2	0.02	< 0.5	4	112	698	2.09	< 10	< 1	0.19	20	0.04	30	212
587512	299	229	2.2	0.54	52	240	< 0.5	4	0.01	< 0.5	4	131	757	2.20	< 10	< 1	0.21	30	0.03	25	280
587513	299	229	2.2	0.83	82	150	< 0.5	8	0.02	< 0.5	9	96	1740	4.58	< 10	< 1	0.17	30	0.03	40	274
587514	299	229	1.6	0.42	6	410	< 0.5	< 2	0.01	< 0.5	4	127	570	2.17	< 10	< 1	0.26	30	0.04	35	100
587515	299	229	1.4	1.02	24	100	< 0.5	< 2	0.04	< 0.5	7	70	1650	2.47	< 10	< 1	0.34	30	0.32	70	169
587516	299	229	1.8	0.58	58	160	< 0.5	12	0.02	< 0.5	6	101	1155	4.10	< 10	< 1	0.22	20	0.08	40	145
587517	299	229	2.2	0.65	22	120	< 0.5	< 2	0.03	< 0.5	4	100	1795	4.79	< 10	< 1	0.20	10	0.06	30	219
587518	299	229	2.4	0.50	96	490	< 0.5	4	0.01	< 0.5	2	124	903	2.36	< 10	< 1	0.15	10	0.03	20	118
587519	299	229	1.8	0.90	18	90	< 0.5	< 2	0.03	< 0.5	5	83	2330	1.85	< 10	< 1	0.40	20	0.34	45	145
587520	299	229	1.6	2.64	2	690	< 0.5	< 2	0.27	0.5	10	46	3690	2.57	10	< 1	1.20	40	1.75	180	407
587521	299	229	1.0	2.03	18	610	< 0.5	< 2	0.25	0.5	10	55	2770	2.00	10	< 1	0.80	30	1.31	145	258
587522	299	229	0.8	1.86	< 2	140	< 0.5	< 2	0.38	2.0	10	77	3670	1.60	10	< 1	0.62	30	1.08	155	288
587523	299	229	0.8	2.56	< 2	690	< 0.5	< 2	1.76	2.5	14	50	3290	2.41	10	< 1	1.25	50	1.92	430	375
587524	299	229	1.0	2.05	< 2	280	< 0.5	< 2	0.30	0.5	11	55	4240	3.02	10	< 1	1.22	40	1.75	175	224
587525	299	229	1.4	1.98	< 2	240	< 0.5	2	0.25	< 0.5	11	62	5380	3.25	10	< 1	1.29	20	1.79	150	355
587526	299	229	0.6	1.69	< 2	280	< 0.5	< 2	0.23	< 0.5	8	82	2140	2.93	< 10	< 1	1.06	10	1.45	120	634
587527	299	229	0.2	2.07	2	400	< 0.5	< 2	0.32	< 0.5	10	57	1610	3.61	< 10	< 1	1.32	20	1.79	145	200
587528	299	229	0.4	1.04	2	110	< 0.5	< 2	0.11	< 0.5	9	74	2210	1.54	< 10	< 1	0.53	20	0.88	100	269
587529	299	229	1.0	1.14	8	100	< 0.5	< 2	0.15	2.0	12	84	2620	2.33	10	< 1	0.49	30	0.89	240	260
587530	299	229	0.6	2.11	< 2	230	< 0.5	< 2	0.27	1.5	11	75	2160	3.18	10	< 1	1.01	30	1.64	295	262
587531	299	229	3.0	1.68	4	160	< 0.5	< 2	0.22	4.5	13	76	4220	3.11	10	< 1	0.70	30	1.14	355	525
587532	299	229	0.8	1.34	< 2	100	< 0.5	< 2	0.17	3.0	13	112	1835	2.81	< 10	< 1	0.53	20	0.97	430	251
587533	299	229	0.8	1.52	2	160	< 0.5	< 2	0.17	2.0	15	106	2520	3.03	< 10	< 1	0.52	20	1.04	365	129
587534	299	229	0.2	2.50	< 2	330	< 0.5	2	0.27	1.0	13	76	1630	4.08	10	< 1	1.49	10	1.88	185	111
587535	299	229	< 0.2	2.44	< 2	380	< 0.5	4	0.26	0.5	13	70	1745	3.66	< 10	< 1	1.35	10	1.77	185	76

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

P. number :1-B
Total Pages :4
Certificate Date: 21-SEP-93
Invoice No. :I9320781
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
569996	299	229	0.02	34	530	24	2	15	14	0.18	< 10	< 10	111	< 10	194
569997	299	229	0.02	24	480	22	4	15	22	0.11	< 10	< 10	104	< 10	254
569998	299	229	0.01	8	1080	18	6	11	14	0.03	< 10	< 10	62	< 10	180
569999	299	229	0.01	4	340	24	6	2	11	< 0.01	< 10	< 10	16	< 10	130
570000	299	229	0.01	4	700	10	4	7	17	0.01	< 10	< 10	32	< 10	156
587501	299	229	0.01	3	420	20	12	4	22	< 0.01	< 10	< 10	24	< 10	178
587502	299	229	0.01	4	850	10	4	9	18	0.07	< 10	< 10	57	< 10	316
587503	299	229	0.01	7	1160	8	6	13	13	0.11	< 10	< 10	94	< 10	232
587504	299	229	0.01	7	510	14	< 2	8	24	0.06	< 10	< 10	54	< 10	250
587505	299	229	0.01	6	250	12	< 2	7	26	0.04	< 10	< 10	41	< 10	244
587506	299	229	0.01	7	820	30	4	11	13	0.09	< 10	< 10	71	< 10	286
587507	299	229	0.01	6	1260	24	4	17	13	0.14	< 10	< 10	131	< 10	244
587508	299	229	0.01	6	1200	18	4	14	11	0.08	< 10	< 10	108	< 10	254
587509	299	229	0.01	7	1090	18	4	12	13	0.08	< 10	< 10	89	< 10	244
587510	299	229	0.01	4	390	6	2	6	15	0.03	< 10	< 10	35	< 10	144
587511	299	229	0.01	2	80	16	4	< 1	9	< 0.01	< 10	< 10	5	< 10	138
587512	299	229	0.01	4	70	22	10	< 1	12	< 0.01	< 10	< 10	4	< 10	120
587513	299	229	< 0.01	9	110	32	12	2	11	< 0.01	< 10	< 10	8	< 10	332
587514	299	229	0.01	3	100	16	2	1	13	< 0.01	< 10	< 10	7	< 10	116
587515	299	229	< 0.01	5	330	14	4	3	6	0.01	< 10	< 10	22	< 10	196
587516	299	229	0.01	4	310	24	6	2	8	< 0.01	< 10	< 10	12	< 10	218
587517	299	229	0.01	7	150	20	2	1	6	< 0.01	< 10	< 10	7	< 10	208
587518	299	229	0.01	4	70	26	18	< 1	13	< 0.01	< 10	< 10	3	< 10	120
587519	299	229	0.01	2	220	14	4	5	6	0.02	< 10	< 10	24	< 10	106
587520	299	229	0.01	6	900	24	< 2	13	21	0.12	< 10	< 10	89	< 10	122
587521	299	229	0.01	5	620	14	2	9	22	0.08	< 10	< 10	62	< 10	114
587522	299	229	0.01	5	520	16	< 2	7	10	0.04	< 10	< 10	52	< 10	128
587523	299	229	0.02	7	890	14	2	15	28	0.17	< 10	< 10	108	< 10	262
587524	299	229	0.05	8	970	12	2	15	12	0.22	< 10	< 10	120	< 10	64
587525	299	229	0.05	9	790	10	< 2	15	10	0.25	< 10	< 10	127	< 10	62
587526	299	229	0.06	8	590	12	4	14	13	0.23	< 10	< 10	116	< 10	44
587527	299	229	0.07	10	840	10	< 2	17	13	0.29	< 10	< 10	133	< 10	54
587528	299	229	0.04	4	350	10	< 2	7	9	0.07	< 10	< 10	45	< 10	48
587529	299	229	0.04	6	390	18	< 2	7	10	0.06	< 10	< 10	55	< 10	94
587530	299	229	0.06	10	800	10	< 2	14	13	0.17	< 10	< 10	115	< 10	114
587531	299	229	0.04	11	660	22	6	8	12	0.08	< 10	< 10	66	< 10	122
587532	299	229	0.05	10	410	12	2	8	11	0.06	< 10	< 10	72	< 10	158
587533	299	229	0.04	10	400	14	< 2	7	9	0.06	< 10	< 10	59	< 10	146
587534	299	229	0.08	16	760	12	< 2	19	16	0.28	< 10	< 10	146	< 10	78
587535	299	229	0.07	22	680	6	< 2	17	17	0.26	< 10	< 10	130	< 10	82

CERTIFICATION: Stewart Sinclair

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o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-SEP-93
Invoice No. :19320781
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587536	299	229	0.4	1.58	< 2	180	< 0.5	< 2	0.20	0.5	9	67	2120	1.84	< 10	< 1	0.59	10	0.96	200	141
587537	299	229	0.8	1.51	4	230	< 0.5	< 2	0.24	0.5	8	73	1730	2.42	< 10	< 1	0.71	20	1.00	280	301
587538	299	229	0.4	1.46	< 2	130	< 0.5	< 2	0.16	< 0.5	10	75	1915	2.02	< 10	< 1	0.66	20	1.01	135	225
587539	299	229	0.4	1.35	< 2	120	< 0.5	2	0.21	1.0	9	67	1350	2.36	< 10	< 1	0.72	20	1.10	160	190
587540	299	229	0.6	1.30	< 2	130	< 0.5	< 2	0.22	1.0	9	16	2030	2.61	< 10	< 1	0.60	10	1.11	140	172
587541	299	229	0.4	2.08	< 2	510	< 0.5	2	0.40	1.5	13	47	2060	4.57	10	< 1	1.09	20	1.58	285	222
587542	299	229	1.4	1.05	< 2	200	< 0.5	2	0.20	3.0	9	45	2000	2.10	< 10	< 1	0.65	30	0.93	120	553
587543	299	229	1.2	1.55	< 2	270	< 0.5	2	0.33	1.0	10	67	2030	2.88	< 10	< 1	0.86	20	1.31	150	303
587544	299	229	2.4	0.68	< 2	110	< 0.5	< 2	0.12	0.5	6	27	2420	1.80	< 10	< 1	0.27	30	0.55	120	549
587545	299	229	1.4	1.44	< 2	200	< 0.5	< 2	0.32	0.5	7	116	1635	2.08	10	< 1	0.52	20	0.87	150	220
587546	299	229	1.2	0.76	< 2	110	< 0.5	< 2	0.11	0.5	7	24	1530	1.57	< 10	< 1	0.26	20	0.67	125	157
587547	299	229	1.0	1.43	4	160	< 0.5	< 2	0.15	1.0	9	120	1395	2.35	10	< 1	0.69	40	0.91	245	163
587548	299	229	2.8	0.92	4	60	< 0.5	8	0.18	1.5	18	16	2500	4.13	< 10	1	0.49	30	0.80	210	318
587549	299	229	1.2	1.79	< 2	180	< 0.5	< 2	0.24	0.5	11	76	1380	3.16	10	< 1	1.05	20	1.31	245	204
587550	299	229	0.4	1.53	2	180	< 0.5	< 2	0.23	< 0.5	10	19	880	2.63	< 10	< 1	0.91	20	1.44	155	137
587551	299	229	0.6	2.19	< 2	340	< 0.5	< 2	0.37	0.5	9	90	964	3.33	< 10	< 1	1.16	20	1.71	175	151
587552	299	229	1.2	1.97	4	300	< 0.5	4	0.38	0.5	9	26	2020	3.26	< 10	< 1	1.11	< 10	1.84	165	183
587553	299	229	1.2	1.94	4	280	< 0.5	4	0.32	< 0.5	10	81	1735	2.88	10	< 1	1.10	20	1.46	155	461
587554	299	229	0.4	1.94	< 2	400	< 0.5	4	0.44	< 0.5	11	27	778	4.11	< 10	< 1	1.24	10	1.86	150	372
587555	299	229	0.6	0.73	2	240	< 0.5	< 2	0.11	< 0.5	3	113	906	1.08	< 10	< 1	0.42	20	0.39	55	200
587556	299	229	0.8	0.89	2	130	< 0.5	2	0.21	< 0.5	6	68	1075	1.52	10	< 1	0.42	30	0.74	90	237
587557	299	229	1.2	1.53	< 2	220	< 0.5	< 2	0.45	0.5	7	133	1320	2.57	10	< 1	0.76	30	1.08	150	698
587558	299	229	0.6	1.68	2	350	< 0.5	< 2	0.39	< 0.5	9	65	1485	3.95	10	< 1	1.03	20	1.56	145	306
587559	299	229	0.4	2.25	< 2	540	< 0.5	2	0.52	< 0.5	10	72	1240	3.65	10	< 1	1.41	10	1.96	175	233
587560	299	229	0.8	1.76	< 2	100	< 0.5	4	1.74	< 0.5	9	19	932	3.82	10	< 1	1.22	10	1.82	155	1250
587561	299	229	1.6	1.50	< 2	150	< 0.5	< 2	2.18	< 0.5	7	124	1915	3.15	10	< 1	0.84	20	1.20	130	666
587562	299	229	1.6	1.12	4	120	< 0.5	6	1.26	< 0.5	10	178	2610	3.43	< 10	< 1	0.74	20	0.90	95	297
587563	299	229	1.2	1.29	< 2	140	< 0.5	< 2	1.96	< 0.5	6	168	1560	2.21	< 10	< 1	0.74	10	1.00	100	383
587564	299	229	1.2	1.78	< 2	150	< 0.5	< 2	2.14	< 0.5	7	235	1425	2.86	< 10	< 1	0.97	10	1.41	145	377
587565	299	229	1.4	1.43	< 2	140	< 0.5	< 2	2.08	< 0.5	7	133	1435	2.16	< 10	< 1	0.89	10	1.29	140	489
587566	299	229	1.2	1.48	< 2	120	< 0.5	4	2.26	< 0.5	9	44	1290	2.81	< 10	< 1	0.93	10	1.45	160	525
587567	299	229	1.4	1.09	4	130	< 0.5	2	2.22	< 0.5	6	108	1380	2.28	10	< 1	0.64	20	0.96	105	567
587568	299	229	1.0	0.90	< 2	100	< 0.5	4	2.84	< 0.5	4	202	1020	2.05	< 10	< 1	0.62	30	0.75	85	620
587569	299	229	1.4	1.25	< 2	140	< 0.5	2	2.20	< 0.5	6	132	1435	2.27	< 10	< 1	0.73	20	1.08	105	499
587570	299	229	1.6	1.19	2	120	< 0.5	2	2.29	< 0.5	7	59	2080	2.84	< 10	< 1	0.58	10	1.07	105	444
587571	299	229	0.8	1.94	6	190	< 0.5	4	1.75	< 0.5	10	130	1450	3.46	< 10	< 1	1.17	10	1.73	150	280
587572	299	229	1.0	1.54	2	150	< 0.5	2	2.03	< 0.5	8	99	2190	2.56	< 10	< 1	1.13	10	1.48	120	536
587573	299	229	0.8	1.48	< 2	180	< 0.5	6	2.11	< 0.5	6	152	1340	2.56	< 10	< 1	0.87	10	1.23	105	664
587574	299	229	0.6	1.72	< 2	160	< 0.5	2	2.46	< 0.5	8	181	991	3.20	10	< 1	1.03	20	1.35	110	455
587575	299	229	0.8	0.83	< 2	60	< 0.5	2	2.11	< 0.5	7	222	1110	3.84	< 10	< 1	0.54	20	0.54	80	459

CERTIFICATION: Hartt Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Page Number :2-B
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CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587536	299	229	0.04	10	490	6	< 2	8	13	0.08	< 10	< 10	59	< 10	96
587537	299	229	0.06	8	650	14	2	10	13	0.12	< 10	< 10	68	< 10	106
587538	299	229	0.04	12	470	6	< 2	8	12	0.10	< 10	< 10	63	< 10	68
587539	299	229	0.04	11	500	10	< 2	9	13	0.14	< 10	< 10	81	< 10	66
587540	299	229	0.02	10	670	8	< 2	8	9	0.14	< 10	< 10	69	< 10	64
587541	299	229	0.10	7	970	6	< 2	14	25	0.22	< 10	< 10	125	< 10	106
587542	299	229	0.04	4	500	6	4	8	13	0.12	< 10	< 10	69	< 10	54
587543	299	229	0.08	3	860	6	2	11	19	0.18	< 10	< 10	97	< 10	52
587544	299	229	0.02	3	330	22	4	3	8	0.02	< 10	< 10	33	< 10	54
587545	299	229	0.08	7	470	12	< 2	6	20	0.05	< 10	< 10	53	< 10	58
587546	299	229	0.01	3	260	4	< 2	3	6	0.02	< 10	< 10	32	< 10	52
587547	299	229	0.06	6	430	< 2	2	7	11	0.05	< 10	< 10	53	< 10	90
587548	299	229	0.01	6	560	14	4	4	7	0.03	< 10	< 10	39	< 10	86
587549	299	229	0.06	7	700	6	2	10	13	0.11	< 10	< 10	88	< 10	86
587550	299	229	0.02	6	710	10	< 2	9	9	0.12	< 10	< 10	77	< 10	68
587551	299	229	0.10	4	760	4	< 2	11	26	0.16	< 10	< 10	107	< 10	72
587552	299	229	0.04	4	980	2	< 2	14	14	0.22	< 10	< 10	129	< 10	62
587553	299	229	0.10	6	750	4	4	11	21	0.14	< 10	< 10	99	< 10	56
587554	299	229	0.07	4	1110	6	< 2	15	21	0.27	< 10	< 10	143	< 10	40
587555	299	229	0.07	4	230	2	2	2	13	0.02	< 10	< 10	20	< 10	20
587556	299	229	0.03	4	300	2	< 2	4	12	0.04	< 10	< 10	33	< 10	26
587557	299	229	0.08	5	540	4	2	8	21	0.08	< 10	< 10	68	< 10	44
587558	299	229	0.05	5	770	8	2	13	15	0.20	< 10	< 10	117	< 10	42
587559	299	229	0.10	7	950	4	2	15	27	0.30	< 10	< 10	130	< 10	44
587560	299	229	0.03	7	1030	< 2	14	14	68	0.24	< 10	< 10	122	< 10	40
587561	299	229	0.06	7	700	12	8	9	114	0.11	< 10	< 10	85	< 10	38
587562	299	229	0.04	8	360	6	2	10	107	0.09	< 10	< 10	74	< 10	26
587563	299	229	0.06	6	550	10	4	8	96	0.12	< 10	< 10	66	< 10	30
587564	299	229	0.08	7	810	2	2	11	103	0.20	< 10	< 10	100	< 10	52
587565	299	229	0.05	6	970	6	2	9	76	0.16	< 10	< 10	76	< 10	78
587566	299	229	0.03	5	1050	8	4	11	90	0.19	< 10	< 10	88	< 10	70
587567	299	229	0.04	6	480	6	4	8	140	0.09	< 10	< 10	70	< 10	34
587568	299	229	0.04	7	380	4	6	6	204	0.07	< 10	< 10	55	< 10	24
587569	299	229	0.07	6	630	6	4	8	131	0.13	< 10	< 10	74	< 10	24
587570	299	229	0.03	3	700	2	4	8	98	0.12	< 10	< 10	78	< 10	22
587571	299	229	0.10	5	940	6	< 2	14	74	0.26	< 10	< 10	119	< 10	30
587572	299	229	0.06	5	500	6	4	14	113	0.25	< 10	< 10	102	< 10	24
587573	299	229	0.07	5	540	6	6	10	113	0.17	< 10	< 10	91	< 10	20
587574	299	229	0.08	5	710	10	2	11	124	0.18	< 10	< 10	103	< 10	20
587575	299	229	0.03	7	410	8	4	4	109	0.02	< 10	< 10	39	< 10	16

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-SEP-93
Invoice No. :I9320781
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587576	299	229	1.2	0.54	6	110	< 0.5	2	2.26	< 0.5	4	70	1175	1.95	< 10	< 1	0.28	20	0.44	70	530
587577	299	229	0.8	1.64	< 2	170	< 0.5	6	1.59	< 0.5	8	81	1120	3.42	< 10	< 1	0.88	10	1.35	125	250
587578	299	229	1.0	0.93	< 2	120	< 0.5	< 2	1.37	< 0.5	6	69	1065	2.21	< 10	< 1	0.45	20	0.75	85	1070
587579	299	229	1.0	2.22	< 2	110	< 0.5	6	2.68	< 0.5	10	49	1000	4.12	< 10	< 1	1.16	10	1.83	160	541
587580	299	229	1.2	1.77	< 2	150	< 0.5	6	2.36	< 0.5	9	33	1110	3.28	< 10	< 1	0.67	10	1.56	165	227
587581	299	229	3.2	1.61	< 2	140	< 0.5	< 2	1.98	< 0.5	9	55	2820	3.62	10	< 1	0.70	10	1.40	130	291
587582	299	229	1.2	0.67	< 2	90	< 0.5	< 2	1.82	< 0.5	4	65	1385	2.26	< 10	< 1	0.33	20	0.60	75	639
587583	299	229	1.2	0.56	< 2	80	< 0.5	2	2.79	< 0.5	3	55	1045	1.57	< 10	< 1	0.27	20	0.39	55	434
587584	299	229	1.6	0.33	4	60	< 0.5	4	2.16	< 0.5	4	50	1170	2.84	< 10	< 1	0.21	10	0.23	55	137
587585	299	229	0.8	0.50	< 2	60	< 0.5	6	2.93	< 0.5	6	55	737	3.07	< 10	< 1	0.27	20	0.37	55	452
587586	299	229	1.2	1.14	< 2	110	< 0.5	< 2	2.82	< 0.5	6	58	986	2.23	< 10	< 1	0.63	20	1.09	105	973
587587	299	229	1.2	1.38	< 2	70	< 0.5	6	2.40	< 0.5	7	60	1235	3.91	10	< 1	0.72	20	1.26	110	674
587588	299	229	0.6	1.50	< 2	130	< 0.5	4	2.18	< 0.5	11	55	776	3.75	< 10	< 1	0.81	10	1.38	160	328
587589	299	229	1.2	1.40	< 2	190	< 0.5	2	1.95	< 0.5	8	80	1630	2.83	< 10	< 1	0.73	10	1.25	120	326
587590	299	229	0.6	0.96	< 2	140	< 0.5	4	2.53	< 0.5	6	43	730	1.96	< 10	< 1	0.48	10	0.83	85	365
587591	299	229	0.4	1.00	< 2	120	< 0.5	2	2.56	< 0.5	6	69	527	2.07	< 10	< 1	0.54	10	0.87	85	164
587592	299	229	0.4	0.82	< 2	100	< 0.5	4	2.70	< 0.5	6	64	753	1.75	< 10	< 1	0.40	10	0.75	75	215
587593	299	229	3.0	0.73	< 2	60	< 0.5	8	2.15	< 0.5	7	64	4520	3.64	< 10	< 1	0.43	10	0.65	80	329
587594	299	229	1.4	0.95	< 2	70	< 0.5	2	2.28	< 0.5	11	35	2180	3.58	< 10	< 1	0.55	10	0.86	85	252
587595	299	229	1.4	0.92	< 2	100	< 0.5	< 2	3.62	< 0.5	4	67	1270	1.63	< 10	< 1	0.56	20	0.80	70	890
587596	299	229	0.8	0.60	< 2	90	< 0.5	< 2	3.07	< 0.5	3	125	1110	1.20	< 10	< 1	0.34	10	0.23	35	362
587597	299	229	1.6	0.60	< 2	50	< 0.5	< 2	1.91	< 0.5	8	46	2380	1.79	< 10	< 1	0.33	10	0.37	35	595
587598	299	229	1.0	1.79	4	130	< 0.5	< 2	2.34	< 0.5	8	128	1505	3.20	< 10	< 1	1.01	10	1.49	125	254
587599	299	229	0.8	0.93	< 2	110	< 0.5	2	2.37	< 0.5	6	66	1050	2.15	< 10	< 1	0.50	10	0.89	95	463
587600	299	229	0.8	0.70	< 2	120	< 0.5	< 2	2.21	< 0.5	4	175	863	1.39	< 10	< 1	0.31	10	0.48	65	449
587601	299	229	1.2	1.10	< 2	100	< 0.5	< 2	2.51	< 0.5	6	62	1335	2.67	< 10	< 1	0.63	10	1.12	130	509
587602	299	229	0.8	1.09	6	120	< 0.5	< 2	2.24	< 0.5	7	106	1415	2.32	< 10	< 1	0.70	10	0.96	220	251
587603	299	229	0.8	0.79	8	130	< 0.5	< 2	2.24	< 0.5	4	269	1125	1.44	< 10	< 1	0.49	10	0.60	75	353
587604	299	229	1.0	1.64	< 2	90	< 0.5	4	2.80	< 0.5	9	114	1820	3.66	< 10	< 1	0.97	20	1.40	140	360
587605	299	229	1.0	0.97	24	140	< 0.5	2	2.99	0.5	7	63	762	2.52	< 10	< 1	0.45	10	0.97	360	563
587606	299	229	0.6	1.49	22	170	< 0.5	< 2	2.39	< 0.5	8	108	689	2.75	< 10	< 1	0.73	10	1.12	470	226
587607	299	229	1.2	0.24	44	60	< 0.5	< 2	1.78	< 0.5	5	88	1755	2.52	< 10	< 1	0.12	< 10	0.25	255	350
587608	299	229	5.2	0.42	68	10	< 0.5	46	1.32	0.5	12	57	7620	8.33	< 10	< 1	0.24	< 10	0.40	215	229
587609	299	229	28.6	0.74	554	10	< 0.5	26	1.73	>100.0	12	66	4170	6.29	< 10	< 1	0.36	10	0.67	420	85
587610	299	229	7.6	0.53	352	20	< 0.5	8	1.98	14.0	12	64	1795	4.99	< 10	< 1	0.25	10	0.65	740	142
587611	299	229	15.0	0.64	168	40	< 0.5	6	2.84	22.0	9	45	1200	3.60	< 10	< 1	0.34	10	0.86	615	208
587612	299	229	2.6	0.80	242	70	< 0.5	88	2.19	0.5	6	58	1890	2.57	< 10	< 1	0.52	10	1.05	245	748
587613	299	229	0.6	2.11	< 2	230	< 0.5	6	2.05	< 0.5	10	160	783	3.35	10	< 1	0.70	10	2.12	245	102
587614	299	229	0.8	0.84	< 2	130	< 0.5	< 2	2.23	< 0.5	6	73	1175	2.15	< 10	< 1	0.40	10	0.89	100	146
587615	299	229	0.8	1.79	< 2	170	< 0.5	4	2.01	< 0.5	10	63	1720	3.01	< 10	< 1	1.29	10	1.84	150	266

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-SEP-93
Invoice No. :19320781
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587576	299	229	0.02	3	300	6	4	3	50	0.02	< 10	< 10	28	< 10	14
587577	299	229	0.08	5	820	2	< 2	11	55	0.16	< 10	< 10	87	< 10	20
587578	299	229	0.02	3	470	4	10	5	55	0.05	< 10	< 10	50	< 10	12
587579	299	229	0.10	3	1080	2	2	13	98	0.21	< 10	< 10	121	10	26
587580	299	229	0.05	2	1160	4	< 2	9	94	0.18	< 10	< 10	83	< 10	36
587581	299	229	0.04	5	910	4	< 2	9	119	0.12	< 10	< 10	86	< 10	22
587582	299	229	0.02	3	270	4	6	4	132	0.03	< 10	< 10	45	< 10	14
587583	299	229	0.03	2	290	2	4	2	192	< 0.01	< 10	< 10	18	< 10	12
587584	299	229	0.02	2	280	4	2	1	143	< 0.01	< 10	< 10	7	< 10	18
587585	299	229	0.03	3	220	12	6	2	178	0.01	< 10	< 10	21	< 10	14
587586	299	229	0.03	2	740	2	10	8	131	0.12	< 10	< 10	75	< 10	16
587587	299	229	0.03	4	790	4	4	9	110	0.10	< 10	< 10	80	< 10	16
587588	299	229	0.05	4	850	2	< 2	11	92	0.17	< 10	< 10	100	< 10	18
587589	299	229	0.07	3	800	6	2	10	73	0.17	< 10	< 10	90	< 10	18
587590	299	229	0.04	3	570	6	4	7	112	0.09	< 10	< 10	55	< 10	14
587591	299	229	0.04	3	360	4	2	8	102	0.09	< 10	< 10	59	< 10	14
587592	299	229	0.03	1	300	< 2	2	7	118	0.09	< 10	< 10	52	< 10	12
587593	299	229	0.03	3	450	12	2	5	144	0.04	< 10	< 10	37	< 10	18
587594	299	229	0.03	4	860	8	2	6	96	0.08	< 10	< 10	51	< 10	14
587595	299	229	0.03	2	480	2	6	5	173	0.06	< 10	< 10	42	< 10	12
587596	299	229	0.03	4	460	2	4	1	274	< 0.01	< 10	< 10	16	< 10	6
587597	299	229	0.02	3	490	4	4	2	112	0.01	< 10	< 10	27	< 10	6
587598	299	229	0.10	4	830	8	< 2	12	118	0.22	< 10	< 10	108	< 10	18
587599	299	229	0.03	4	540	2	4	7	143	0.09	< 10	< 10	60	< 10	14
587600	299	229	0.04	3	280	4	4	3	132	0.02	< 10	< 10	28	< 10	12
587601	299	229	0.03	4	580	6	4	8	153	0.09	< 10	< 10	67	< 10	16
587602	299	229	0.04	5	810	2	6	9	154	0.07	< 10	< 10	62	< 10	20
587603	299	229	0.05	6	300	4	2	4	198	0.03	< 10	< 10	33	< 10	14
587604	299	229	0.06	6	780	< 2	< 2	11	154	0.14	< 10	< 10	96	< 10	22
587605	299	229	0.02	4	750	52	12	7	138	0.06	< 10	< 10	55	< 10	64
587606	299	229	0.04	5	930	< 2	6	10	105	0.09	< 10	< 10	67	< 10	18
587607	299	229	0.01	2	210	6	4	1	81	< 0.01	< 10	< 10	5	< 10	18
587608	299	229	0.01	6	560	16	4	2	30	< 0.01	< 10	< 10	13	< 10	42
587609	299	229	0.01	3	1050	3770	218	3	33	0.01	< 10	< 10	25	10	5110
587610	299	229	0.01	5	1080	314	80	2	46	< 0.01	< 10	< 10	18	< 10	802
587611	299	229	0.01	3	1030	1795	72	6	79	0.03	< 10	< 10	37	< 10	1065
587612	299	229	0.02	2	590	26	20	8	103	0.08	< 10	< 10	57	< 10	90
587613	299	229	0.07	36	870	2	2	11	124	0.11	< 10	< 10	90	< 10	26
587614	299	229	0.03	4	640	2	< 2	6	141	0.05	< 10	< 10	51	< 10	16
587615	299	229	0.05	7	990	4	< 2	15	95	0.22	< 10	< 10	104	< 10	24

CERTIFICATION:

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
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Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-A
Total Pages :4
Certificate Date: 21-SEP-93
Invoice No. :I9320781
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587616	299	229	2.6	1.62	6	200	< 0.5	4	1.64	< 0.5	9	57	1060	3.08	< 10	< 1	1.12	10	1.60	140	217
587617	299	229	0.6	1.98	< 2	240	< 0.5	2	2.23	< 0.5	10	75	716	3.28	< 10	< 1	0.99	10	1.66	175	217
587618	299	229	1.0	1.63	18	240	< 0.5	< 2	2.42	< 0.5	10	60	660	3.89	< 10	< 1	1.00	10	1.47	185	321
587619	299	229	4.2	0.95	114	70	< 0.5	2	3.15	3.0	8	115	985	3.36	< 10	< 1	0.39	10	0.95	1260	300
587620	299	229	6.6	0.95	62	80	< 0.5	10	2.07	6.0	9	63	1225	3.45	< 10	< 1	0.56	10	0.87	380	475
587621	299	229	4.4	1.00	44	100	< 0.5	4	3.00	7.0	8	135	414	2.64	< 10	< 1	0.56	10	0.92	700	287
587622	299	229	4.4	1.38	90	110	< 0.5	4	2.17	9.5	8	60	835	3.65	< 10	< 1	0.79	10	1.24	1350	163
587623	299	229	11.4	1.25	192	60	< 0.5	6	2.23	17.0	11	111	1025	4.35	< 10	< 1	0.55	10	0.87	1000	565
587624	299	229	11.4	1.05	120	90	< 0.5	< 2	1.53	44.5	7	86	535	3.06	< 10	< 1	0.53	10	0.94	1110	112
587625	299	229	0.2	1.39	4	260	< 0.5	4	2.02	< 0.5	6	126	262	2.77	10	< 1	0.79	20	1.35	150	121
587626	299	229	0.6	1.31	2	240	< 0.5	2	2.32	0.5	6	57	480	2.64	< 10	< 1	0.84	10	1.41	235	76
587627	299	229	9.8	0.50	102	280	< 0.5	< 2	1.41	56.5	4	167	533	1.17	< 10	< 1	0.23	10	0.41	835	64

CERTIFICATION: Stan H Beckler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 197
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-SEP-93
Invoice No. : I9320781
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320781

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587616	299	229	0.06	4	870	222	< 2	13	66	0.21	< 10	< 10	116	< 10	38
587617	299	229	0.05	6	980	18	< 2	11	85	0.19	< 10	< 10	105	< 10	20
587618	299	229	0.06	5	910	46	2	11	90	0.17	< 10	< 10	108	< 10	28
587619	299	229	0.01	6	710	76	44	7	183	0.01	< 10	< 10	52	< 10	162
587620	299	229	0.03	4	850	318	50	6	101	0.07	< 10	< 10	53	< 10	302
587621	299	229	0.02	4	740	384	32	7	134	0.06	< 10	< 10	50	< 10	360
587622	299	229	0.02	4	730	260	34	9	57	0.11	< 10	< 10	67	< 10	416
587623	299	229	0.01	7	940	680	124	7	50	0.04	< 10	< 10	47	< 10	846
587624	299	229	0.02	14	750	1230	66	4	99	0.05	< 10	< 10	39	< 10	2340
587625	299	229	0.06	15	760	4	< 2	7	222	0.13	< 10	< 10	61	< 10	30
587626	299	229	0.03	11	890	14	< 2	7	183	0.13	< 10	< 10	60	< 10	48
587627	299	229	0.01	5	290	1490	58	3	45	< 0.01	< 10	< 10	12	< 10	3010

CERTIFICATION: Stuart Bradley

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Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9320815

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H565212	208	276	0.07	0.012	0.21	8060						
H565213	208	276	0.08	0.011	0.31	8080						
H565214	208	276	0.09	0.016	0.34	10840						
H565215	208	276	0.05	0.035	0.48	7420						
H565216	208	276	0.05	0.020	0.31	9460						
H565217	208	276	0.05	0.026	0.41	10860						
H565218	208	276	0.05	0.018	0.31	10240						
H565219	208	273	0.06	0.025	0.48	12120						
H565220	208	276	0.06	0.033	0.62	8760						
H565221	208	276	0.07	0.048	0.58	10760						
H565222	208	274	0.07	0.018	0.41	3160						
H565223	208	276	0.12	0.054	0.41	9100						
H565224	208	276	0.15	0.055	0.48	9890						
H565225	208	276	0.11	0.061	0.38	11600						
H565226	208	276	0.10	0.019	0.55	11400						
H565227	208	276	0.07	0.074	0.51	10160						
H565228	208	274	0.06	0.034	0.65	6100						
H565229	208	276	0.08	0.059	0.38	8020						
H565230	208	273	0.07	0.041	0.21	13320						
H565231	208	276	0.07	0.035	0.34	9500						
H565232	208	276	0.08	0.037	0.62	9100						
H565233	208	276	0.07	0.038	0.55	9820						
H565234	208	276	0.07	0.018	0.24	8500						
H565235	208	276	0.11	0.041	0.45	11700						
H565236	208	273	0.44	0.051	0.55	12080						
H565237	208	276	0.22	0.053	0.51	11200						
H565238	208	276	0.25	0.032	0.48	10020						
H565239	208	276	0.33	0.042	0.65	9920						
H565240	208	276	0.64	0.034	1.30	11000						
H565241	208	276	0.57	0.036	0.69	10580						
H565242	208	276	0.89	0.016	0.58	10380						
H565243	208	276	0.44	0.015	0.31	11560						
H565244	208	276	0.38	0.014	0.31	11650						
H565245	208	273	0.56	0.016	0.62	13020						
H565246	208	276	0.42	0.011	0.24	10870						
H565247	208	274	0.32	0.015	0.10	7000						
H565248	208	276	0.53	0.018	0.45	10920						
H565249	208	276	0.34	0.042	0.21	9180						
H565250	208	276	0.31	0.019	0.27	10300						
H565251	208	276	0.41	0.012	0.27	10260						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 198
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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H565252	208 276	0.18	0.017	0.21	9780
H565253	208 274	0.22	0.009	0.31	5460
H565254	208 273	0.23	0.011	0.17	13920
H565255	208 274	0.26	0.015	0.41	7100
H565256	208 273	0.19	0.034	0.21	14420
H565257	208 276	0.13	0.025	0.24	7920
H565258	208 276	0.11	0.016	0.14	11800
H565259	208 276	0.07	0.015	0.10	11360
H565260	208 276	0.14	0.015	0.24	10420
H565261	208 276	0.09	0.016	0.17	11520
H565262	208 274	0.07	0.008	0.14	5800
H565263	208 276	0.23	0.029	0.14	10840
H565264	208 276	0.17	0.028	0.14	11360
H565265	208 276	0.11	0.019	0.24	9640
H565266	208 273	0.12	0.016	0.21	12400
H565267	208 276	0.11	0.032	0.14	10360
H565268	208 273	0.16	0.017	0.21	11900
H565269	208 276	0.08	0.012	0.14	10860
H565270	208 276	0.11	0.009	0.21	10880
H565271	208 273	0.05	0.021	0.07	12020
H565272	208 276	0.12	0.019	0.17	11460
H565273	208 276	0.13	0.028	0.27	8840
H565274	208 274	0.15	0.023	0.27	6960
H565275	208 276	0.05	0.035	0.10	8580
H565276	208 273	0.11	0.014	0.14	12500
H565277	208 276	0.10	0.011	0.17	11000
H565278	208 276	0.08	0.013	0.10	8340
H565279	208 274	0.10	0.011	0.10	5740
H565280	208 276	0.08	0.014	0.14	10060
H565281	208 273	0.10	0.017	0.14	11840
H565282	208 276	0.06	0.012	0.10	11180
H565283	208 276	0.10	0.036	0.14	9620
H565284	208 276	0.12	0.044	0.24	11020
H565285	208 274	0.09	0.018	0.10	7080
H565286	208 273	0.09	0.017	0.17	13380
H565287	208 273	0.13	0.014	0.86	14520
H565288	208 276	0.15	0.055	1.47	11180
H565289	208 276	0.22	0.085	0.51	11240
H565290	208 276	0.51	0.130	1.03	11000
H565291	208 276	0.10	0.088	0.24	11740

CERTIFICATION: A Christie

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Y1A 3S9

Project : CASINO 198
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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H565292	208	276	0.06	0.017	0.14	11000						
H565293	208	276	0.12	0.048	0.17	11180						
H565294	208	276	0.06	0.134	0.07	11380						
H565295	208	273	0.06	0.137	0.10	11920						
H565296	208	276	0.11	0.063	0.21	11300						
H565297	208	276	0.08	0.014	0.10	11080						
H565298	208	276	0.04	0.016	0.07	10560						
H565299	208	276	0.02	0.041	0.07	11540						
H565300	208	276	0.03	0.057	0.07	11760						
H565301	208	276	0.04	0.026	0.10	11020						
H565302	208	276	0.04	0.024	0.07	11200						
H565303	208	276	0.11	0.021	0.21	11340						
H565304	208	276	0.09	0.054	0.14	11680						
H565305	208	276	0.06	0.113	0.10	11060						
H565306	208	276	0.09	0.026	0.21	10400						
H565307	208	273	0.02	0.013	0.14	12300						
H565308	208	276	0.10	0.025	0.17	11040						
H565309	208	276	0.08	0.024	0.10	10500						
H565310	208	276	0.03	0.012	0.21	11650						
H565311	208	273	0.10	0.029	0.10	12250						
H565312	208	276	0.11	0.021	0.17	9820						
H565313	208	273	0.07	0.017	0.10	12000						
H565314	208	276	0.05	0.009	0.10	9500						
H565315	208	276	0.11	0.019	0.14	8760						
H565316	208	276	0.08	0.019	0.17	11780						
H565317	208	273	0.06	0.022	0.10	12740						
H565318	208	273	0.16	0.209	0.31	12400						
H565319	208	273	0.19	0.243	0.31	11840						
H565320	208	273	0.11	0.199	0.24	13080						
H565321	208	273	0.21	0.119	0.27	12840						
H565322	208	273	0.50	0.157	0.62	12240						
H565323	208	276	0.20	0.146	0.24	11540						
H565324	208	273	0.06	0.038	0.27	12540						
H565325	208	274	0.03	0.052	0.07	7180						
H565326	208	273	0.02	0.021	0.07	12820						
H565327	208	273	0.09	0.035	0.10	12360						
H565328	208	273	0.13	0.041	0.14	12100						
H565329	208	273	0.06	0.019	0.07	12840						
H565330	208	276	0.10	0.015	0.17	11480						
H565331	208	276	0.50	0.042	0.93	11700						

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Project : CASINO 198
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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H565332	208 273	0.09	0.010	0.14	12450
H565333	208 273	0.04	0.016	0.07	12870
H565334	208 273	0.09	0.019	0.07	12520
H565335	208 273	0.04	0.015	0.07	12440
H565336	208 273	0.08	0.032	0.10	13360
H565337	208 273	0.10	0.042	0.10	14380
H565338	208 273	0.10	0.066	0.17	13580
H565339	208 273	0.04	0.055	0.07	13100
H565340	208 273	0.05	0.071	0.07	13920
H565341	208 273	0.04	0.044	0.07	13820
H565342	208 273	0.06	0.041	0.07	13280

CERTIFICATION: D. Christie

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 198
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565212	299	229	1.4	1.86	40	80	< 0.5	< 2	0.03	< 0.5	4	102	673	5.89	10	< 1	0.69	20	0.90	130	71
H565213	299	229	1.6	2.19	46	110	0.5	< 2	0.02	< 0.5	4	72	840	5.40	10	1	0.82	30	1.03	115	65
H565214	299	229	2.0	2.06	60	170	0.5	2	0.02	< 0.5	4	70	970	5.95	10	< 1	1.01	60	0.90	110	93
H565215	299	229	3.2	1.34	112	170	< 0.5	40	0.02	< 0.5	2	64	551	6.41	10	< 1	1.05	40	0.43	60	208
H565216	299	229	1.8	1.36	52	210	< 0.5	2	0.02	< 0.5	1	108	494	7.38	10	< 1	0.90	20	0.51	75	122
H565217	299	229	2.2	1.42	70	150	< 0.5	< 2	0.01	< 0.5	1	95	539	7.67	10	< 1	0.78	20	0.64	90	153
H565218	299	229	1.6	1.42	32	140	< 0.5	< 2	0.01	< 0.5	1	118	530	6.25	10	< 1	0.76	20	0.65	80	104
H565219	299	229	2.2	1.85	38	160	< 0.5	4	0.01	< 0.5	3	78	662	5.55	10	< 1	0.74	20	0.91	105	146
H565220	299	229	8.4	1.34	188	200	< 0.5	36	0.01	< 0.5	4	115	679	6.37	10	1	1.03	30	0.50	65	194
H565221	299	229	2.2	2.56	32	380	0.5	< 2	0.02	< 0.5	7	82	791	5.16	10	< 1	1.08	20	1.14	120	279
H565222	299	229	2.6	2.96	66	290	0.5	8	0.02	< 0.5	11	84	725	5.89	10	< 1	1.42	30	1.30	115	104
H565223	299	229	2.8	2.90	38	320	0.5	2	0.05	< 0.5	10	123	1295	5.66	10	< 1	1.48	40	1.35	140	329
H565224	299	229	2.6	2.27	60	250	0.5	2	0.05	< 0.5	11	151	1735	6.30	10	< 1	1.04	30	0.85	135	332
H565225	299	229	2.4	2.16	42	220	0.5	< 2	0.02	< 0.5	7	133	1140	4.93	10	< 1	0.92	30	0.89	115	363
H565226	299	229	2.6	2.26	82	150	0.5	4	0.02	< 0.5	11	106	1095	7.91	10	< 1	0.99	30	1.07	155	108
H565227	299	229	3.4	1.46	110	80	< 0.5	32	0.01	< 0.5	16	142	778	7.26	10	< 1	0.93	30	0.43	105	466
H565228	299	229	4.4	1.61	80	160	< 0.5	52	0.01	< 0.5	9	113	673	7.53	10	< 1	1.14	30	0.52	95	219
H565229	299	229	3.2	1.23	122	60	< 0.5	46	0.02	< 0.5	12	180	792	7.51	10	< 1	0.90	20	0.19	55	361
H565230	299	229	1.8	2.14	36	200	< 0.5	< 2	0.02	< 0.5	11	90	728	7.60	10	< 1	1.13	30	1.02	145	241
H565231	299	229	1.6	1.64	38	190	< 0.5	2	0.01	< 0.5	4	117	755	7.88	10	< 1	1.01	40	0.84	100	206
H565232	299	229	2.8	1.69	30	190	< 0.5	6	0.01	< 0.5	10	102	775	8.27	10	1	1.24	30	0.93	140	221
H565233	299	229	2.2	1.59	26	160	< 0.5	< 2	0.01	< 0.5	7	102	679	6.18	10	< 1	0.87	20	0.83	120	225
H565234	299	229	1.8	1.65	26	130	< 0.5	2	0.01	< 0.5	11	116	736	4.37	10	< 1	0.93	40	0.88	140	110
H565235	299	229	2.4	1.66	22	140	< 0.5	< 2	0.02	< 0.5	12	101	1150	9.23	10	< 1	1.13	30	0.89	150	247
H565236	299	229	2.6	1.86	14	110	0.5	2	0.08	< 0.5	20	102	4640	7.55	10	< 1	0.90	30	0.94	175	313
H565237	299	229	2.4	2.26	28	90	0.5	2	0.07	< 0.5	21	138	2410	7.66	10	1	1.05	30	0.89	160	318
H565238	299	229	2.4	1.82	18	130	< 0.5	2	0.06	< 0.5	13	138	2570	6.90	10	< 1	1.07	30	1.02	155	194
H565239	299	229	2.4	1.99	8	110	< 0.5	< 2	0.08	< 0.5	15	142	3250	8.03	10	< 1	1.10	30	1.15	175	236
H565240	299	229	3.2	1.85	30	60	< 0.5	6	0.10	< 0.5	20	59	6710	8.58	10	< 1	1.03	20	1.12	180	190
H565241	299	229	2.2	1.77	12	100	< 0.5	2	0.10	< 0.5	16	78	6340	8.11	10	< 1	0.83	20	1.07	160	211
H565242	299	229	2.2	2.26	28	80	< 0.5	50	0.14	< 0.5	15	203	>10000	6.57	10	< 1	1.22	20	1.38	150	97
H565243	299	229	1.2	1.85	20	90	< 0.5	< 2	0.10	< 0.5	12	166	4970	4.01	10	< 1	0.81	20	0.89	110	91
H565244	299	229	1.4	1.88	8	100	< 0.5	4	0.11	< 0.5	14	271	4180	6.33	10	< 1	0.91	10	0.80	115	83
H565245	299	229	1.8	2.64	12	120	< 0.5	18	0.22	< 0.5	13	272	6280	6.18	10	< 1	1.42	30	1.73	190	89
H565246	299	229	1.4	1.69	22	100	< 0.5	< 2	0.10	< 0.5	9	168	4700	4.64	10	< 1	0.62	20	0.64	90	68
H565247	299	229	1.4	1.43	8	50	< 0.5	6	0.14	< 0.5	11	193	3580	5.52	10	< 1	0.55	10	0.55	85	93
H565248	299	229	1.8	2.40	18	130	0.5	< 2	0.24	< 0.5	13	219	5860	4.88	10	< 1	1.02	20	1.31	180	101
H565249	299	229	1.2	2.01	8	130	0.5	< 2	0.20	< 0.5	18	136	3490	4.93	10	< 1	1.08	20	1.26	245	239
H565250	299	229	1.6	1.99	18	70	0.5	2	0.25	< 0.5	16	122	3360	5.88	10	< 1	0.82	20	1.03	235	115
H565251	299	229	2.0	2.21	28	90	0.5	16	0.17	< 0.5	12	193	4610	8.43	10	< 1	0.71	20	0.92	150	69

CERTIFICATION:

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
B565212	299	229	0.11	14	600	< 2	< 2	4	30	0.03	< 10	< 10	51	< 10	72
B565213	299	229	0.10	12	840	< 2	4	3	41	0.04	< 10	< 10	40	< 10	74
B565214	299	229	0.16	9	840	2	< 2	4	57	0.05	< 10	< 10	39	< 10	74
B565215	299	229	0.15	7	790	16	2	3	54	0.03	< 10	< 10	30	20	66
B565216	299	229	0.07	8	480	2	2	3	25	0.03	< 10	< 10	50	< 10	48
B565217	299	229	0.06	8	410	8	2	3	19	0.03	< 10	< 10	52	< 10	46
B565218	299	229	0.06	8	420	< 2	< 2	4	17	0.04	< 10	< 10	51	< 10	40
B565219	299	229	0.06	10	480	< 2	2	6	20	0.06	< 10	< 10	59	< 10	52
B565220	299	229	0.04	9	620	304	82	5	25	0.03	< 10	< 10	47	< 10	86
B565221	299	229	0.04	13	470	< 2	2	10	29	0.10	< 10	< 10	74	< 10	76
B565222	299	229	0.03	13	460	102	8	16	14	0.12	< 10	< 10	106	< 10	120
B565223	299	229	0.04	17	800	24	4	17	17	0.14	< 10	< 10	107	< 10	128
B565224	299	229	0.02	13	700	4	2	10	14	0.06	< 10	< 10	69	< 10	120
B565225	299	229	0.03	11	680	2	4	6	19	0.04	< 10	< 10	49	< 10	78
B565226	299	229	0.04	15	660	< 2	2	7	16	0.06	< 10	< 10	65	< 10	122
B565227	299	229	0.02	12	640	10	4	4	19	0.02	< 10	< 10	45	< 10	128
B565228	299	229	0.05	10	660	2	4	5	25	0.05	< 10	< 10	53	< 10	134
B565229	299	229	0.02	10	740	24	4	3	19	0.01	< 10	< 10	27	< 10	90
B565230	299	229	0.06	12	610	2	4	7	21	0.09	< 10	< 10	64	< 10	130
B565231	299	229	0.09	11	670	10	< 2	6	26	0.07	< 10	< 10	58	< 10	60
B565232	299	229	0.06	11	650	< 2	2	9	16	0.11	< 10	< 10	78	< 10	106
B565233	299	229	0.05	10	410	2	< 2	7	17	0.08	< 10	< 10	62	< 10	76
B565234	299	229	0.04	11	350	< 2	< 2	9	12	0.09	< 10	< 10	46	< 10	106
B565235	299	229	0.06	13	630	< 2	2	8	17	0.08	< 10	< 10	64	< 10	144
B565236	299	229	0.02	16	630	2	< 2	8	14	0.09	< 10	< 10	65	< 10	126
B565237	299	229	0.01	14	560	2	2	10	10	0.10	< 10	< 10	89	< 10	158
B565238	299	229	0.03	13	470	4	2	9	11	0.12	< 10	< 10	84	< 10	104
B565239	299	229	0.03	16	570	< 2	< 2	10	10	0.11	< 10	< 10	84	< 10	110
B565240	299	229	0.02	17	710	10	2	11	11	0.12	< 10	< 10	81	< 10	134
B565241	299	229	0.03	15	570	8	< 2	8	9	0.09	< 10	< 10	65	< 10	108
B565242	299	229	0.02	42	780	2	2	9	9	0.09	< 10	< 10	65	< 10	58
B565243	299	229	0.02	17	500	8	< 2	6	9	0.08	< 10	< 10	46	< 10	42
B565244	299	229	0.03	22	530	2	< 2	7	13	0.08	< 10	< 10	69	< 10	44
B565245	299	229	0.03	27	970	8	< 2	12	12	0.13	< 10	< 10	92	< 10	62
B565246	299	229	0.02	15	510	12	< 2	4	11	0.04	< 10	< 10	44	< 10	42
B565247	299	229	0.02	15	610	4	< 2	4	11	0.02	< 10	< 10	44	< 10	48
B565248	299	229	0.03	32	1010	8	2	8	15	0.08	< 10	< 10	69	< 10	64
B565249	299	229	0.03	18	630	2	< 2	9	12	0.12	< 10	< 10	66	< 10	74
B565250	299	229	0.03	19	790	2	2	6	13	0.06	< 10	< 10	54	< 10	86
B565251	299	229	0.02	26	520	8	< 2	6	14	0.04	< 10	< 10	63	< 10	68

CERTIFICATION: Ian R Pitcher

Chemex Labs Ltd.

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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 198
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9320816

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565252	299	229	2.4	1.90	24	150	< 0.5	< 2	0.25	< 0.5	13	102	2080	5.46	10	< 1	0.77	20	1.10	140	114
H565253	299	229	1.6	2.06	18	120	0.5	4	0.19	< 0.5	11	82	2530	4.55	10	< 1	0.92	20	1.41	150	49
H565254	299	229	1.4	1.64	14	100	0.5	< 2	0.21	< 0.5	11	105	2560	5.09	10	< 1	0.66	20	1.04	200	62
H565255	299	229	1.6	1.71	14	100	< 0.5	< 2	0.26	< 0.5	11	74	2780	5.61	10	< 1	0.60	30	1.09	175	85
H565256	299	229	1.6	1.58	20	80	0.5	2	0.29	1.5	19	113	2120	6.42	10	< 1	0.65	30	0.90	375	211
H565257	299	229	1.2	1.30	22	70	0.5	< 2	0.32	1.0	19	106	1460	5.20	10	< 1	0.67	20	0.77	465	138
H565258	299	229	1.4	1.29	18	60	0.5	< 2	0.29	1.0	17	146	1260	5.97	10	< 1	0.62	20	0.66	405	85
H565259	299	229	0.8	1.40	22	100	0.5	< 2	0.36	0.5	18	129	792	5.26	10	< 1	0.69	30	0.78	525	77
H565260	299	229	1.6	1.35	18	110	0.5	< 2	0.30	0.5	20	117	1630	6.29	10	< 1	0.72	40	0.82	495	87
H565261	299	229	1.2	1.92	36	130	0.5	< 2	0.46	0.5	21	85	1030	6.46	10	< 1	0.98	30	1.20	505	89
H565262	299	229	1.6	1.55	36	50	0.5	6	0.42	0.5	27	117	803	8.97	10	< 1	0.67	20	0.71	785	39
H565263	299	229	1.8	0.80	38	40	0.5	6	0.23	1.0	16	113	2620	6.20	< 10	< 1	0.25	20	0.17	490	181
H565264	299	229	1.6	1.15	28	60	0.5	2	0.43	1.0	16	130	1960	6.66	10	< 1	0.40	20	0.27	425	169
H565265	299	229	1.4	1.37	26	60	0.5	< 2	0.60	1.0	23	121	1290	6.46	10	< 1	0.49	30	0.62	525	113
H565266	299	229	1.2	0.71	30	60	< 0.5	4	0.45	< 0.5	15	48	1390	5.56	10	< 1	0.31	20	0.56	285	85
H565267	299	229	1.2	1.02	40	60	0.5	< 2	0.73	1.5	15	79	1235	6.07	10	< 1	0.29	30	0.48	755	193
H565268	299	229	2.4	1.05	52	50	< 0.5	4	0.57	1.0	17	108	1780	7.28	10	< 1	0.37	20	0.38	610	94
H565269	299	229	1.0	0.87	28	60	< 0.5	< 2	0.58	< 0.5	12	74	905	4.75	10	< 1	0.31	20	0.37	400	66
H565270	299	229	1.2	1.45	36	80	0.5	2	0.85	< 0.5	11	186	1245	6.10	10	< 1	0.56	20	0.84	475	47
H565271	299	229	0.6	1.22	14	60	0.5	2	0.99	< 0.5	11	164	575	5.05	10	< 1	0.45	20	0.61	225	117
H565272	299	229	1.6	1.13	18	80	< 0.5	8	0.78	< 0.5	13	172	1445	7.31	10	< 1	0.53	20	0.81	190	98
H565273	299	229	1.6	1.16	18	110	< 0.5	20	0.86	< 0.5	16	201	1540	6.62	10	< 1	0.45	30	0.94	305	165
H565274	299	229	1.4	1.05	14	110	< 0.5	< 2	0.63	< 0.5	19	177	1660	6.52	10	< 1	0.53	20	0.81	245	138
H565275	299	229	0.6	1.35	18	160	0.5	2	0.76	< 0.5	11	173	536	4.83	10	< 1	0.59	20	0.73	220	210
H565276	299	229	1.2	1.36	14	130	< 0.5	6	0.32	0.5	16	202	1245	6.63	10	< 1	0.80	20	1.02	440	75
H565277	299	229	1.2	1.60	18	120	< 0.5	< 2	0.27	< 0.5	17	140	1040	6.80	10	< 1	0.73	30	1.12	440	58
H565278	299	229	0.8	1.71	8	160	< 0.5	< 2	0.33	< 0.5	13	124	844	6.27	10	< 1	0.85	20	1.16	355	67
H565279	299	229	0.8	1.17	6	110	< 0.5	< 2	0.21	< 0.5	11	196	1110	4.48	10	< 1	0.43	10	0.70	310	58
H565280	299	229	0.8	1.29	8	160	< 0.5	< 2	0.87	< 0.5	10	239	847	5.55	10	< 1	0.54	20	0.79	235	71
H565281	299	229	2.0	1.02	44	40	< 0.5	6	0.95	< 0.5	10	144	1185	7.00	10	1	0.48	20	0.64	470	94
H565282	299	229	0.6	1.19	8	220	< 0.5	< 2	0.82	< 0.5	12	150	658	4.80	10	< 1	0.58	20	0.78	180	70
H565283	299	229	0.8	0.95	14	130	< 0.5	< 2	0.45	< 0.5	11	166	1065	5.41	10	< 1	0.52	20	0.69	190	211
H565284	299	229	1.2	1.27	18	120	< 0.5	< 2	0.34	< 0.5	16	136	1285	7.36	10	< 1	0.64	30	0.88	300	259
H565285	299	229	2.8	0.74	18	90	< 0.5	44	0.75	0.5	12	118	919	5.40	10	< 1	0.40	20	0.61	660	93
H565286	299	229	0.6	1.11	16	110	< 0.5	< 2	0.27	< 0.5	12	133	908	5.82	10	< 1	0.58	20	0.90	190	97
H565287	299	229	11.4	0.95	1185	90	< 0.5	< 2	0.78	42.0	16	179	1400	6.11	10	1	0.45	20	0.70	1415	82
H565288	299	229	5.8	0.77	1395	80	< 0.5	< 2	1.06	1.0	13	122	1680	5.66	10	< 1	0.31	20	0.71	1130	324
H565289	299	229	1.6	0.89	152	130	< 0.5	< 2	1.65	0.5	15	170	2300	4.82	10	< 1	0.42	20	0.97	765	480
H565290	299	229	2.4	1.07	12	110	< 0.5	< 2	0.51	< 0.5	18	132	5640	6.74	10	< 1	0.73	20	0.90	195	811
H565291	299	229	1.2	1.15	242	190	< 0.5	< 2	1.09	< 0.5	11	135	1130	6.93	10	< 1	0.58	30	1.09	810	545

CERTIFICATION:

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565252	299	229	0.03	16	700	106	2	7	15	0.08	< 10	< 10	78	< 10	54
H565253	299	229	0.03	21	640	26	< 2	9	13	0.11	< 10	< 10	81	< 10	42
H565254	299	229	0.03	17	640	22	2	5	12	0.06	< 10	< 10	59	< 10	56
H565255	299	229	0.02	19	900	20	< 2	5	13	0.07	< 10	< 10	69	< 10	50
H565256	299	229	0.02	17	690	8	2	4	15	0.05	< 10	< 10	49	< 10	92
H565257	299	229	0.01	16	610	14	< 2	6	16	0.06	< 10	< 10	42	< 10	114
H565258	299	229	0.02	16	460	8	< 2	5	16	0.04	< 10	< 10	46	< 10	90
H565259	299	229	0.02	14	710	16	< 2	6	16	0.05	< 10	< 10	44	< 10	108
H565260	299	229	0.01	16	430	6	< 2	7	16	0.07	< 10	< 10	73	< 10	88
H565261	299	229	0.01	12	710	4	6	11	19	0.12	< 10	< 10	103	< 10	108
H565262	299	229	0.01	13	860	10	4	10	13	0.06	< 10	< 10	79	< 10	206
H565263	299	229	0.01	15	330	22	4	3	10	< 0.01	< 10	< 10	29	< 10	128
H565264	299	229	0.01	16	600	10	2	4	13	< 0.01	< 10	< 10	37	< 10	94
H565265	299	229	0.01	17	740	8	4	4	18	0.03	< 10	< 10	48	< 10	96
H565266	299	229	0.01	12	380	12	< 2	3	13	0.01	< 10	< 10	32	< 10	58
H565267	299	229	0.01	13	650	12	14	6	15	< 0.01	< 10	< 10	58	< 10	138
H565268	299	229	0.01	18	550	66	16	6	13	< 0.01	< 10	< 10	41	< 10	126
H565269	299	229	0.01	9	400	10	10	3	14	< 0.01	< 10	< 10	30	< 10	62
H565270	299	229	0.01	17	690	6	10	7	18	0.03	< 10	< 10	57	< 10	54
H565271	299	229	0.02	10	620	8	2	3	31	0.02	< 10	< 10	37	< 10	30
H565272	299	229	0.04	13	450	6	2	5	26	0.03	< 10	< 10	65	< 10	32
H565273	299	229	0.03	18	620	12	2	4	29	0.02	< 10	< 10	51	< 10	48
H565274	299	229	0.03	15	380	4	2	4	23	0.02	< 10	< 10	50	< 10	40
H565275	299	229	0.03	11	510	2	2	4	25	0.03	< 10	< 10	45	< 10	32
H565276	299	229	0.05	16	550	< 2	< 2	7	19	0.07	< 10	< 10	79	< 10	140
H565277	299	229	0.05	16	730	4	< 2	6	19	0.07	< 10	< 10	73	< 10	104
H565278	299	229	0.05	13	710	< 2	< 2	7	21	0.08	< 10	< 10	75	< 10	76
H565279	299	229	0.06	9	430	4	< 2	3	18	0.02	< 10	< 10	47	< 10	60
H565280	299	229	0.03	12	460	6	< 2	4	23	0.03	< 10	< 10	59	< 10	36
H565281	299	229	0.01	14	410	8	6	4	23	0.02	< 10	< 10	51	< 10	48
H565282	299	229	0.03	11	620	2	2	6	30	0.04	< 10	< 10	53	< 10	30
H565283	299	229	0.03	11	390	2	< 2	4	20	0.03	< 10	< 10	56	< 10	44
H565284	299	229	0.04	18	610	< 2	2	6	22	0.07	< 10	< 10	73	< 10	80
H565285	299	229	0.02	11	540	20	< 2	4	21	0.02	< 10	< 10	43	< 10	82
H565286	299	229	0.04	12	440	< 2	< 2	6	18	0.06	< 10	< 10	72	< 10	42
H565287	299	229	0.01	15	570	1545	262	5	23	0.01	< 10	< 10	55	< 10	2240
H565288	299	229	0.01	15	660	182	76	6	23	< 0.01	< 10	< 10	56	< 10	82
H565289	299	229	0.02	19	450	10	18	6	27	0.02	< 10	< 10	54	< 10	52
H565290	299	229	0.03	20	600	< 2	4	6	21	0.07	< 10	< 10	61	< 10	44
H565291	299	229	0.03	16	610	< 2	4	6	32	0.05	< 10	< 10	81	< 10	40

CERTIFICATION: Stan H Beckler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565292	299	229	0.8	1.46	24	30	< 0.5	10	1.17	< 0.5	13	117	607	5.73	< 10	< 1	0.48	10	0.76	570	83
H565293	299	229	0.8	1.38	20	80	< 0.5	4	1.16	< 0.5	11	153	1370	4.87	< 10	< 1	0.37	< 10	0.64	535	259
H565294	299	229	0.4	1.28	38	30	< 0.5	< 2	1.22	< 0.5	11	92	687	5.69	< 10	< 1	0.16	< 10	0.84	715	713
H565295	299	229	0.6	1.30	38	20	< 0.5	8	1.46	< 0.5	12	72	627	6.59	< 10	< 1	0.29	10	0.63	305	667
H565296	299	229	0.8	1.51	18	90	< 0.5	4	1.15	< 0.5	12	121	1160	5.35	< 10	< 1	0.50	10	0.87	270	333
H565297	299	229	4.8	1.50	12	100	< 0.5	46	0.75	< 0.5	8	117	836	6.20	< 10	< 1	0.63	< 10	0.87	190	70
H565298	299	229	< 0.2	1.48	6	110	< 0.5	6	0.97	< 0.5	7	132	366	5.49	10	< 1	0.52	10	0.78	145	71
H565299	299	229	< 0.2	1.54	14	80	< 0.5	4	1.55	< 0.5	11	97	186	6.20	10	< 1	0.51	20	1.18	200	197
H565300	299	229	0.2	1.36	14	100	< 0.5	2	1.82	< 0.5	9	107	265	4.70	10	< 1	0.45	20	0.93	175	295
H565301	299	229	< 0.2	1.91	< 2	80	< 0.5	2	0.94	< 0.5	9	110	405	5.13	10	< 1	0.71	10	1.22	165	131
H565302	299	229	0.2	1.75	2	100	< 0.5	4	1.26	< 0.5	10	120	440	5.76	10	< 1	0.79	10	0.97	195	119
H565303	299	229	1.2	1.68	12	110	< 0.5	12	0.93	< 0.5	11	99	1105	4.86	10	< 1	0.71	10	0.96	455	109
H565304	299	229	0.4	2.23	< 2	100	< 0.5	4	0.81	< 0.5	10	145	864	6.63	10	< 1	1.05	10	1.52	170	282
H565305	299	229	0.2	1.97	2	120	< 0.5	2	0.89	< 0.5	8	140	542	5.34	10	< 1	0.80	20	1.15	150	578
H565306	299	229	0.2	1.54	14	100	< 0.5	4	1.05	< 0.5	9	125	893	5.57	10	< 1	0.53	10	0.77	150	128
H565307	299	229	0.4	1.58	26	40	< 0.5	14	1.80	< 0.5	6	133	242	5.98	10	< 1	0.50	< 10	0.80	475	56
H565308	299	229	0.4	1.61	26	70	< 0.5	4	1.26	< 0.5	10	148	1015	4.66	< 10	< 1	0.63	< 10	0.94	110	115
H565309	299	229	0.2	2.17	10	80	< 0.5	4	0.90	< 0.5	13	138	796	6.46	10	< 1	0.82	10	1.07	135	107
H565310	299	229	0.2	1.98	6	40	< 0.5	4	0.95	< 0.5	15	110	318	6.45	10	< 1	0.77	10	0.88	240	52
H565311	299	229	0.6	2.01	28	40	< 0.5	4	0.69	< 0.5	16	75	1025	5.03	< 10	< 1	0.73	10	0.89	125	137
H565312	299	229	0.6	1.87	18	110	< 0.5	2	0.84	< 0.5	13	138	1000	5.48	10	< 1	0.65	10	0.95	145	103
H565313	299	229	0.8	1.82	18	110	< 0.5	< 2	0.97	14.0	13	153	711	5.29	10	< 1	0.64	10	1.04	225	90
H565314	299	229	0.6	1.54	24	100	< 0.5	4	0.87	10.5	11	173	475	5.25	< 10	< 1	0.56	10	0.87	345	42
H565315	299	229	0.4	2.15	8	100	< 0.5	2	0.75	< 0.5	12	194	1120	6.96	10	< 1	0.94	10	1.33	185	95
H565316	299	229	0.6	1.86	18	110	< 0.5	8	1.08	< 0.5	13	152	768	6.70	10	< 1	0.65	10	0.89	305	94
H565317	299	229	0.4	2.00	30	160	< 0.5	4	1.23	< 0.5	10	127	635	6.26	10	< 1	0.69	10	1.08	335	111
H565318	299	229	1.4	2.41	8	200	< 0.5	4	1.46	< 0.5	17	128	1605	5.23	10	< 1	1.01	20	1.28	215	1030
H565319	299	229	1.4	1.98	18	100	< 0.5	4	1.56	< 0.5	18	194	1935	6.25	10	< 1	0.78	10	0.86	240	1195
H565320	299	229	2.2	2.06	128	< 10	< 0.5	14	1.53	1.0	20	162	1125	14.15	10	< 1	0.42	10	0.76	610	823
H565321	299	229	1.6	1.53	44	80	< 0.5	6	1.08	< 0.5	18	186	2050	5.66	< 10	< 1	0.63	10	0.95	345	573
H565322	299	229	3.2	1.69	34	10	< 0.5	12	1.44	1.5	26	58	4690	10.05	10	< 1	0.54	10	0.94	435	695
H565323	299	229	1.4	1.74	22	90	< 0.5	< 2	1.63	< 0.5	24	110	1955	5.42	10	< 1	0.72	10	0.87	225	723
H565324	299	229	0.2	1.34	22	100	< 0.5	8	1.51	< 0.5	11	66	590	4.73	< 10	< 1	0.45	10	0.97	250	187
H565325	299	229	0.2	1.54	10	20	< 0.5	4	1.02	< 0.5	8	113	292	6.80	< 10	< 1	0.59	< 10	0.86	160	239
H565326	299	229	0.2	1.32	6	10	< 0.5	16	1.14	< 0.5	8	53	247	8.17	< 10	< 1	0.42	< 10	0.77	165	88
H565327	299	229	0.4	1.29	6	80	< 0.5	4	0.49	< 0.5	8	91	918	4.82	< 10	< 1	0.56	10	0.73	110	178
H565328	299	229	0.6	1.53	6	70	< 0.5	6	0.66	< 0.5	13	82	1290	6.15	< 10	< 1	0.55	< 10	0.87	125	194
H565329	299	229	0.2	1.72	16	100	< 0.5	4	0.88	< 0.5	11	97	582	6.00	10	< 1	0.60	10	0.94	140	87
H565330	299	229	0.4	1.63	< 2	110	< 0.5	< 2	0.87	< 0.5	9	70	1020	5.17	10	< 1	0.60	10	0.99	140	76
H565331	299	229	2.2	1.87	12	80	< 0.5	< 2	0.87	< 0.5	20	79	4550	10.90	10	< 1	0.45	10	0.54	175	204

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 198
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565292	299	229	0.01	14	610	18	6	4	28	0.01	< 10	< 10	35	10	88
H565293	299	229	0.01	11	480	8	8	5	23	< 0.01	< 10	< 10	31	10	74
H565294	299	229	0.01	11	510	12	12	6	19	< 0.01	< 10	< 10	68	10	80
H565295	299	229	0.01	8	390	18	14	2	16	< 0.01	< 10	< 10	23	10	86
H565296	299	229	0.01	11	440	14	8	6	27	0.03	< 10	< 10	59	10	80
H565297	299	229	0.03	10	560	24	2	6	24	0.06	< 10	< 10	59	10	86
H565298	299	229	0.04	11	510	2	2	6	27	0.05	< 10	< 10	63	10	72
H565299	299	229	0.02	12	830	4	4	7	26	0.04	< 10	< 10	57	20	86
H565300	299	229	0.03	8	600	4	4	6	32	0.04	< 10	< 10	48	10	68
H565301	299	229	0.03	9	510	8	2	7	22	0.05	< 10	< 10	46	10	74
H565302	299	229	0.03	12	700	16	2	6	25	0.07	< 10	< 10	57	10	86
H565303	299	229	0.03	11	790	76	4	4	26	0.06	< 10	< 10	46	10	84
H565304	299	229	0.03	14	730	< 2	2	9	22	0.09	< 10	< 10	61	10	90
H565305	299	229	0.05	11	750	12	8	6	34	0.09	< 10	< 10	62	10	78
H565306	299	229	0.04	11	550	6	2	4	32	0.04	< 10	< 10	52	10	76
H565307	299	229	0.02	12	640	12	< 2	3	39	0.03	< 10	< 10	38	10	78
H565308	299	229	0.02	11	470	6	< 2	6	29	0.06	< 10	< 10	44	10	60
H565309	299	229	0.04	13	730	8	< 2	4	33	0.08	< 10	< 10	54	10	84
H565310	299	229	0.03	12	740	8	2	3	33	0.06	< 10	< 10	40	10	86
H565311	299	229	0.02	12	630	6	< 2	3	25	0.03	< 10	< 10	28	10	78
H565312	299	229	0.03	11	670	6	2	3	27	0.06	< 10	< 10	45	10	76
H565313	299	229	0.03	14	630	308	< 2	4	38	0.05	< 10	< 10	52	10	814
H565314	299	229	0.03	12	660	66	2	3	32	0.04	< 10	< 10	45	10	654
H565315	299	229	0.06	20	810	8	< 2	6	27	0.08	< 10	< 10	72	10	104
H565316	299	229	0.02	13	590	14	2	4	28	0.04	< 10	< 10	47	10	94
H565317	299	229	0.04	13	750	16	2	5	41	0.06	< 10	< 10	55	10	90
H565318	299	229	0.03	12	590	8	6	8	33	0.09	< 10	< 10	72	10	84
H565319	299	229	0.03	13	580	8	10	4	31	0.05	< 10	< 10	56	20	90
H565320	299	229	0.01	11	420	222	40	3	23	< 0.01	< 10	< 10	34	10	326
H565321	299	229	0.01	13	470	6	12	6	32	0.04	< 10	< 10	55	< 10	84
H565322	299	229	0.01	14	390	46	14	4	26	0.03	< 10	< 10	43	10	270
H565323	299	229	0.02	11	760	10	6	5	38	0.05	< 10	< 10	45	10	74
H565324	299	229	0.01	10	690	4	2	5	41	0.03	< 10	< 10	38	10	64
H565325	299	229	0.04	9	520	12	2	4	31	0.04	< 10	< 10	31	10	86
H565326	299	229	0.01	8	520	14	2	3	25	0.04	< 10	< 10	28	10	98
H565327	299	229	0.03	9	390	6	2	4	19	0.06	< 10	< 10	50	< 10	62
H565328	299	229	0.02	12	360	< 2	4	4	22	0.04	< 10	< 10	59	< 10	78
H565329	299	229	0.03	14	950	8	< 2	5	32	0.06	< 10	< 10	59	10	76
H565330	299	229	0.03	13	730	4	2	6	26	0.08	< 10	< 10	57	10	70
H565331	299	229	0.02	24	480	4	2	3	24	0.02	< 10	< 10	143	10	124

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9320816

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565332	299	229	0.2	1.54	2	110	< 0.5	4	0.59	< 0.5	11	83	927	6.58	10	< 1	0.66	< 10	0.93	155	50
H565333	299	229	< 0.2	1.49	6	120	< 0.5	6	0.47	< 0.5	7	134	424	6.00	10	< 1	0.68	10	0.91	160	92
H565334	299	229	0.2	1.63	< 2	90	< 0.5	8	0.54	< 0.5	14	89	984	6.52	< 10	< 1	0.74	< 10	1.09	200	117
H565335	299	229	< 0.2	1.18	20	70	< 0.5	2	0.29	< 0.5	8	155	402	8.07	< 10	< 1	0.36	< 10	0.55	135	81
H565336	299	229	0.2	1.37	12	130	< 0.5	8	0.75	< 0.5	11	83	864	3.96	< 10	< 1	0.72	10	1.11	165	232
H565337	299	229	0.8	1.89	14	140	< 0.5	< 2	0.82	3.5	12	94	980	3.75	10	< 1	0.95	20	1.31	270	224
H565338	299	229	0.6	1.31	6	150	< 0.5	< 2	0.68	< 0.5	11	77	1010	4.87	< 10	< 1	0.63	10	1.02	155	380
H565339	299	229	< 0.2	1.72	< 2	90	< 0.5	2	0.40	< 0.5	11	103	369	5.79	10	< 1	0.86	10	1.14	150	301
H565340	299	229	0.2	1.60	8	80	< 0.5	8	0.39	< 0.5	10	76	479	5.36	< 10	< 1	0.83	< 10	1.08	120	373
H565341	299	229	0.2	1.43	8	50	< 0.5	6	1.57	< 0.5	12	104	418	4.85	< 10	< 1	0.67	< 10	1.03	195	237
H565342	299	229	0.4	1.82	< 2	60	< 0.5	< 2	1.36	< 0.5	9	73	619	4.66	10	< 1	0.75	< 10	1.22	130	191

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565332	299	229	0.02	12	680	< 2	2	5	23	0.07	< 10	< 10	59	< 10	82
H565333	299	229	0.04	10	730	10	2	6	24	0.07	< 10	< 10	64	< 10	82
H565334	299	229	0.03	12	670	8	< 2	6	21	0.09	< 10	< 10	57	10	84
H565335	299	229	0.03	12	220	8	< 2	2	18	0.02	< 10	< 10	62	< 10	96
H565336	299	229	0.03	11	840	6	4	6	28	0.09	< 10	< 10	48	< 10	58
H565337	299	229	0.04	12	690	42	< 2	7	31	0.10	< 10	< 10	56	< 10	152
H565338	299	229	0.02	10	440	6	2	6	28	0.07	< 10	< 10	52	< 10	66
H565339	299	229	0.04	11	490	6	< 2	7	18	0.10	< 10	< 10	55	< 10	72
H565340	299	229	0.02	12	470	4	4	7	14	0.11	< 10	< 10	60	< 10	66
H565341	299	229	0.02	12	440	2	2	7	34	0.07	< 10	< 10	45	10	62
H565342	299	229	0.01	14	500	6	2	6	37	0.06	< 10	< 10	55	10	58

CERTIFICATION: Jean H Bucklar

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
571808H	208	274	0.08	0.003	0.10	2030
571809H	208	274	0.08	0.004	0.14	1920
571810H	208	274	0.08	0.005	< 0.03	5400
571811H	208	274	0.08	0.002	0.14	4480
571812H	208	276	0.10	0.002	0.10	7920
571813H	208	276	0.10	0.002	0.21	9200
571814H	208	276	0.08	0.002	0.24	10700
571815H	208	276	0.07	0.001	0.07	7700
571816H	208	276	0.23	0.003	0.14	9080
571817H	208	274	0.62	0.013	0.27	6800
571818H	208	276	0.33	0.003	0.17	8200
571819H	208	276	0.37	0.006	0.17	8960
571820H	208	276	0.40	0.010	0.34	9460
571821H	208	276	0.20	0.003	0.10	10560
571822H	208	276	0.34	0.005	0.24	10800
571823H	208	276	0.31	0.003	0.17	10660
571824H	208	276	0.32	0.004	0.31	9480
571825H	208	276	0.42	0.005	0.34	9600
571826H	208	276	0.39	0.009	0.45	11240
571827H	208	276	0.21	0.003	0.21	11600
571828H	208	276	0.20	0.003	0.17	10780
571829H	208	276	0.24	0.010	0.24	11260
571830H	208	276	0.26	0.006	0.27	9160
571831H	208	276	0.20	0.005	0.14	9500
571832H	208	273	0.32	0.005	0.41	13180
571833H	208	276	0.19	0.004	0.17	11680
571834H	208	276	0.13	0.004	0.14	11140
571835H	208	276	0.17	0.016	0.14	8320
571836H	208	276	0.21	0.016	0.17	7380
571837H	208	276	0.27	0.008	0.31	10900
571838H	208	276	0.23	0.006	0.21	11740
571839H	208	276	0.10	0.012	0.07	9880
571840H	208	273	0.10	0.006	0.10	12920
571841H	208	273	0.14	0.010	0.14	12360
571842H	208	276	0.09	0.012	0.03	9400
571843H	208	276	0.11	0.020	0.10	11640
571844H	208	270	0.08	0.007	0.10	16700
571845H	208	273	0.17	0.006	0.14	12860
571846H	208	273	0.28	0.008	0.31	12720
571847H	208	273	0.09	0.003	0.07	12760

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CERTIFICATE OF ANALYSIS A9321311

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571848H	208 270	0.11	0.004	0.14	17300
571849H	208 276	0.13	0.002	0.10	11620
571850H	208 273	0.15	0.005	0.14	13660
571851H	208 273	0.10	0.004	0.03	14800
571852H	208 273	0.12	0.002	0.10	13100
571853H	208 273	0.10	0.004	0.31	13080
571854H	208 273	0.15	0.012	0.14	14120
571855H	208 273	0.13	0.008	0.10	14300
571856H	208 273	0.16	0.013	0.10	12460
571857H	208 273	0.22	0.005	0.21	13860
571858H	208 273	0.22	0.019	0.17	12340
571859H	208 273	0.29	0.009	0.21	12320
571860H	208 276	0.43	0.006	0.38	11700
571861H	208 273	0.22	0.009	0.17	12520
571862H	208 273	0.17	0.014	0.14	13700
571863H	208 273	0.26	0.014	0.24	12320
571864H	208 273	0.25	0.007	0.24	12240
571865H	208 273	0.12	0.012	0.10	13260
571866H	208 273	0.26	0.015	0.21	13060
571867H	208 273	0.16	0.009	0.07	13120
571868H	208 273	0.17	0.007	0.10	14400
571869H	208 273	0.19	0.014	0.21	14260
571870H	208 273	0.18	0.039	0.14	13560
571871H	208 273	0.19	0.012	0.14	14540
571872H	208 273	0.16	0.008	0.17	13260
571873H	208 273	0.13	0.012	0.10	13420
571874H	208 273	0.19	0.026	0.27	13260
571875H	208 273	0.24	0.019	0.31	14080
571876H	208 273	0.18	0.006	0.17	13420
571877H	208 273	0.14	0.011	0.10	13760
571878H	208 273	0.20	0.011	0.17	14360
571879H	208 273	0.32	0.004	0.24	14020
571880H	208 273	0.20	0.019	0.17	13900
571881H	208 273	0.12	0.026	0.17	12960
571882H	208 273	0.11	0.001	0.10	14260
571883H	208 273	0.30	0.005	0.24	14200
571884H	208 276	0.12	0.012	0.10	11440
571885H	208 273	0.08	0.009	0.07	12760
571886H	208 273	0.05	0.009	0.07	12320
571887H	208 273	0.11	0.014	0.03	13260

CERTIFICATION:

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
571888H	208	273	0.18	0.013	0.14	12640						
571889H	208	273	0.34	0.028	0.96	12040						
571890H	208	273	0.11	0.023	0.07	11900						
571891H	208	273	0.12	0.015	0.10	13400						
571892H	208	276	0.10	0.016	0.10	10860						
571893H	208	273	0.09	0.026	0.10	12500						
571894H	208	273	0.09	0.010	0.14	12260						
571895H	208	273	0.17	0.012	0.21	12380						
571896H	208	276	0.14	0.032	0.10	11100						
571897H	208	276	0.16	0.011	0.17	11500						
571898H	208	273	0.24	0.039	0.17	12700						
571899H	208	276	0.28	0.038	0.34	11500						
571900H	208	273	0.22	0.018	0.21	13860						
571901H	208	273	0.32	0.026	0.21	13700						
571902H	208	273	0.24	0.017	0.24	13600						
571903H	208	273	0.11	0.010	0.07	13460						
571904H	208	273	0.34	0.017	0.27	13800						
571905H	208	273	0.22	0.015	0.14	12400						
571906H	208	273	0.30	0.007	0.17	13980						
571907H	208	273	0.16	0.010	0.14	12860						
571908H	208	273	0.19	0.033	0.14	12720						
571909H	208	273	0.35	0.073	0.27	13600						
571910H	208	273	0.08	0.004	0.07	13900						
571911H	208	273	0.08	0.109	0.07	13540						
571912H	208	273	0.12	0.003	0.03	12780						
571913H	208	273	0.07	0.010	0.10	12000						
571914H	208	273	0.11	0.007	0.14	12760						
571915H	208	276	0.09	0.007	0.10	11040						
571916H	208	276	0.07	0.017	0.07	11080						
571917H	208	273	0.07	0.004	0.07	12040						
571918H	208	273	0.10	0.004	0.10	12600						
571919H	208	273	0.09	0.009	0.17	12300						
571920H	208	273	0.16	0.003	0.14	13100						
571921H	208	273	0.22	0.004	0.24	11940						
571922H	208	273	0.14	0.076	0.14	12400						
571923H	208	273	0.10	0.009	0.10	16280						
571924H	208	276	0.15	0.002	0.07	10400						
571925H	208	276	0.18	0.003	0.17	7300						
571926H	208	273	0.12	0.015	0.10	12980						
571927H	208	276	0.09	0.003	0.10	10400						

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9321311

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
571928H	208 276	0.35	0.009	0.27	11540
571929H	208 274	0.26	0.003	0.24	6200
571930H	208 273	0.29	0.021	0.24	12460
571931H	208 276	0.17	0.007	0.14	11640
571932H	208 273	0.08	0.007	0.07	12840
571933H	208 276	0.14	0.012	0.14	8320
571934H	208 273	0.09	0.006	0.10	12400
571935H	208 273	0.12	0.014	0.10	12080
571936H	208 276	0.12	0.012	0.14	11440
571937H	208 273	0.10	0.008	0.07	12740
571938H	208 273	0.05	0.010	0.03	12280
571939H	208 273	0.05	0.012	0.07	12560
571940H	208 274	0.08	0.009	0.07	4740
571941H	208 273	0.04	0.046	< 0.03	12720
571942H	208 273	0.07	0.014	0.14	12460
571943H	208 273	0.15	0.014	0.21	12480
571944H	208 273	0.08	0.011	0.10	12360
571945H	208 273	0.05	0.006	0.10	12460
571946H	208 273	0.04	0.007	0.07	12600
571947H	208 273	0.04	0.010	0.03	13460
571948H	208 273	0.05	0.013	0.07	12920
571949H	208 273	0.05	0.039	0.03	12760
571950H	208 273	0.05	0.099	0.07	13240
571951H	208 276	0.12	0.008	0.17	11460
571952H	208 276	0.09	0.012	0.10	11760

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-199
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 26-SEP-93
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Account :FC

CERTIFICATE OF ANALYSIS A9321312

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571808H	299	229	1.0	1.34	< 2	280	< 0.5	< 2	0.18	< 0.5	3	104	787	1.81	10	< 1	0.32	20	0.57	105	19
571809H	299	229	1.0	1.53	< 2	280	< 0.5	< 2	0.22	0.5	4	52	737	2.84	10	< 1	0.25	10	0.86	120	23
571810H	299	229	0.8	1.65	< 2	300	< 0.5	< 2	0.19	0.5	2	66	720	2.47	10	< 1	0.38	10	0.87	80	26
571811H	299	229	1.2	2.22	12	430	0.5	< 2	0.30	< 0.5	6	58	825	2.87	10	< 1	0.71	20	1.33	105	10
571812H	299	229	0.8	1.95	6	430	< 0.5	< 2	0.34	< 0.5	4	33	952	2.97	10	1	0.72	20	1.29	80	10
571813H	299	229	1.4	1.20	8	330	< 0.5	< 2	0.22	< 0.5	5	44	975	2.01	10	< 1	0.37	20	0.67	50	13
571814H	299	229	1.4	1.63	< 2	240	< 0.5	< 2	0.25	< 0.5	7	39	803	2.99	10	< 1	0.43	10	1.12	95	10
571815H	299	229	1.0	1.95	< 2	230	< 0.5	< 2	0.30	< 0.5	9	41	731	3.61	10	< 1	0.49	10	1.39	115	6
571816H	299	229	1.2	1.33	2	290	0.5	< 2	0.26	< 0.5	24	34	2280	2.81	10	< 1	0.36	10	0.77	60	16
571817H	299	229	1.6	1.10	12	230	< 0.5	< 2	0.32	1.5	19	30	6510	1.85	< 10	< 1	0.37	10	0.56	40	79
571818H	299	229	1.0	1.59	< 2	150	< 0.5	< 2	0.27	< 0.5	22	38	3230	3.24	10	< 1	0.47	10	1.26	95	17
571819H	299	229	1.0	1.70	< 2	170	< 0.5	< 2	0.29	0.5	18	41	3820	3.17	10	< 1	0.42	10	1.31	120	29
571820H	299	229	1.6	1.30	14	220	< 0.5	< 2	0.53	3.0	21	31	3850	2.71	10	< 1	0.40	10	0.73	210	53
571821H	299	229	1.0	2.03	6	250	< 0.5	< 2	0.52	1.5	18	54	2050	4.04	10	< 1	0.53	10	1.39	120	14
571822H	299	229	1.8	1.79	6	190	< 0.5	< 2	0.38	2.0	23	44	3590	3.15	10	< 1	0.43	10	1.17	145	31
571823H	299	229	1.6	1.64	4	260	< 0.5	< 2	0.32	1.5	20	51	3010	2.58	10	< 1	0.50	10	0.97	150	19
571824H	299	229	1.6	1.45	10	230	< 0.5	< 2	0.57	2.0	28	47	3420	2.66	10	< 1	0.44	10	0.94	165	24
571825H	299	229	1.8	1.84	2	320	< 0.5	< 2	0.35	2.5	23	50	4290	2.50	10	< 1	0.79	20	1.04	75	27
571826H	299	229	1.8	1.59	< 2	220	< 0.5	< 2	1.12	1.0	18	46	3790	2.45	10	< 1	0.58	10	1.02	135	50
571827H	299	229	1.8	1.62	10	280	< 0.5	< 2	1.73	1.0	20	49	2160	2.80	10	< 1	0.55	< 10	1.13	265	21
571828H	299	229	1.2	1.36	4	180	< 0.5	< 2	1.87	< 0.5	26	100	2100	2.40	10	< 1	0.39	< 10	0.75	160	15
571829H	299	229	1.2	0.85	2	140	< 0.5	< 2	1.89	< 0.5	26	51	2520	2.21	< 10	< 1	0.33	< 10	0.68	145	57
571830H	299	229	1.2	1.36	2	190	< 0.5	< 2	2.85	0.5	27	85	2620	2.59	< 10	< 1	0.47	< 10	0.71	190	32
571831H	299	229	1.2	1.40	< 2	270	< 0.5	< 2	0.79	0.5	21	42	1975	2.60	10	< 1	0.61	10	1.20	120	23
571832H	299	229	18.0	1.44	22	110	< 0.5	< 2	2.04	1.0	14	95	3160	3.52	10	< 1	0.56	< 10	0.98	665	25
571833H	299	229	2.2	1.74	2	300	< 0.5	< 2	0.80	< 0.5	20	86	2020	3.21	10	< 1	0.83	< 10	1.46	150	26
571834H	299	229	1.0	2.05	4	430	< 0.5	< 2	0.94	< 0.5	15	117	1370	3.08	10	< 1	0.86	< 10	1.53	470	19
571835H	299	229	1.2	1.80	10	340	< 0.5	< 2	1.23	< 0.5	18	119	1715	2.86	10	< 1	0.84	< 10	1.25	150	93
571836H	299	229	1.0	1.10	10	170	< 0.5	< 2	1.93	< 0.5	26	66	2190	2.38	< 10	< 1	0.32	< 10	0.86	145	86
571837H	299	229	1.4	1.86	< 2	360	< 0.5	< 2	0.84	< 0.5	15	109	2690	2.69	10	< 1	0.82	10	1.38	120	42
571838H	299	229	1.4	0.90	12	230	< 0.5	< 2	1.12	< 0.5	18	80	2440	2.11	10	< 1	0.28	10	0.65	135	34
571839H	299	229	0.8	0.84	12	240	< 0.5	< 2	0.70	< 0.5	9	183	1120	1.11	< 10	< 1	0.36	10	0.12	85	70
571840H	299	229	0.6	0.24	14	250	< 0.5	< 2	1.08	< 0.5	12	74	1125	1.01	< 10	< 1	0.12	< 10	0.06	90	33
571841H	299	229	1.0	0.56	16	270	< 0.5	< 2	1.42	< 0.5	11	156	1535	1.04	< 10	< 1	0.28	< 10	0.09	120	57
571842H	299	229	0.6	0.25	16	140	< 0.5	< 2	0.82	< 0.5	12	87	1140	1.09	< 10	< 1	0.15	< 10	0.08	125	82
571843H	299	229	0.6	0.57	8	170	0.5	< 2	0.52	< 0.5	16	165	1225	1.26	< 10	< 1	0.30	10	0.08	105	114
571844H	299	229	0.6	0.27	16	130	< 0.5	< 2	1.33	< 0.5	7	122	923	1.13	< 10	< 1	0.18	< 10	0.07	455	39
571845H	299	229	1.2	1.27	8	170	< 0.5	< 2	1.51	< 0.5	15	136	1770	2.17	10	< 1	0.46	10	0.71	165	32
571846H	299	229	1.4	4.21	14	350	< 0.5	< 2	2.48	< 0.5	32	160	2960	4.56	20	< 1	1.68	< 10	2.98	220	37
571847H	299	229	0.6	2.20	6	280	0.5	< 2	1.71	< 0.5	13	158	978	2.64	10	< 1	0.77	< 10	1.50	165	17

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571808H	299	229	0.04	7	290	18	< 2	3	27	< 0.01	< 10	< 10	28	< 10	42
571809H	299	229	0.03	4	440	14	< 2	6	24	0.02	< 10	< 10	52	< 10	52
571810H	299	229	0.05	5	470	14	< 2	5	21	0.02	< 10	< 10	45	< 10	42
571811H	299	229	0.05	4	770	26	< 2	9	22	0.09	< 10	< 10	80	< 10	46
571812H	299	229	0.03	3	920	28	< 2	10	23	0.10	< 10	< 10	82	< 10	40
571813H	299	229	0.02	2	490	18	< 2	5	21	0.02	< 10	< 10	40	< 10	38
571814H	299	229	0.03	2	740	12	< 2	7	17	0.05	< 10	< 10	66	< 10	40
571815H	299	229	0.04	2	970	22	< 2	8	17	0.06	< 10	< 10	85	< 10	46
571816H	299	229	0.02	3	780	16	< 2	5	19	0.03	< 10	< 10	51	< 10	36
571817H	299	229	0.02	4	910	14	8	5	20	0.02	< 10	< 10	42	< 10	42
571818H	299	229	0.04	4	830	6	< 2	7	12	0.06	< 10	< 10	73	< 10	32
571819H	299	229	0.03	4	890	8	< 2	6	14	0.04	< 10	< 10	70	< 10	50
571820H	299	229	0.02	6	1070	10	6	8	19	0.04	< 10	< 10	56	< 10	92
571821H	299	229	0.06	7	900	8	2	8	20	0.08	< 10	< 10	92	< 10	56
571822H	299	229	0.03	8	840	8	< 2	7	17	0.04	< 10	< 10	67	< 10	94
571823H	299	229	0.04	4	720	16	< 2	8	19	0.06	< 10	< 10	69	< 10	90
571824H	299	229	0.03	6	700	12	< 2	6	22	0.04	< 10	< 10	53	< 10	96
571825H	299	229	0.04	6	590	6	< 2	11	19	0.11	< 10	< 10	80	< 10	80
571826H	299	229	0.03	5	620	6	< 2	8	21	0.07	< 10	< 10	63	< 10	68
571827H	299	229	0.04	4	510	32	2	10	32	0.07	< 10	< 10	67	< 10	168
571828H	299	229	0.04	5	510	14	< 2	7	35	0.01	< 10	< 10	44	< 10	42
571829H	299	229	0.02	5	440	12	< 2	6	36	0.01	< 10	< 10	39	< 10	34
571830H	299	229	0.03	5	590	8	2	6	43	0.02	< 10	< 10	46	< 10	32
571831H	299	229	0.03	4	620	10	< 2	10	19	0.10	< 10	< 10	80	< 10	40
571832H	299	229	0.04	4	550	88	4	8	36	0.04	< 10	< 10	59	< 10	146
571833H	299	229	0.06	4	630	12	< 2	14	22	0.15	< 10	< 10	96	< 10	32
571834H	299	229	0.11	6	710	6	< 2	13	37	0.14	< 10	< 10	101	< 10	40
571835H	299	229	0.10	6	580	2	2	11	34	0.12	< 10	< 10	81	< 10	28
571836H	299	229	0.03	4	520	4	2	7	35	0.02	< 10	< 10	48	< 10	28
571837H	299	229	0.10	6	580	8	< 2	12	31	0.13	< 10	< 10	93	< 10	30
571838H	299	229	0.02	4	410	10	4	5	26	0.02	< 10	< 10	39	< 10	28
571839H	299	229	0.02	4	180	14	2	< 1	21	< 0.01	< 10	< 10	2	< 10	12
571840H	299	229	0.01	2	170	16	< 2	< 1	29	< 0.01	< 10	< 10	< 1	< 10	16
571841H	299	229	0.02	4	170	18	2	< 1	29	< 0.01	< 10	< 10	1	< 10	22
571842H	299	229	0.01	3	150	18	4	< 1	20	< 0.01	< 10	< 10	< 1	< 10	28
571843H	299	229	0.02	4	140	8	2	< 1	15	< 0.01	< 10	< 10	1	< 10	14
571844H	299	229	0.02	3	150	20	< 2	< 1	26	< 0.01	< 10	< 10	< 1	< 10	28
571845H	299	229	0.06	7	270	20	2	6	35	0.02	< 10	< 10	44	< 10	28
571846H	299	229	0.22	22	560	2	4	29	106	0.20	< 10	< 10	198	< 10	42
571847H	299	229	0.13	10	450	4	< 2	13	57	0.12	< 10	< 10	103	< 10	30

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571848H	299	229	0.8	3.72	12	420	< 0.5	< 2	2.11	< 0.5	18	140	1075	4.02	< 10	< 1	1.45	< 10	2.57	205	23
571849H	299	229	1.2	3.03	8	100	< 0.5	< 2	2.71	0.5	20	100	1220	4.30	10	< 1	1.01	< 10	2.06	355	9
571850H	299	229	0.8	2.75	8	150	< 0.5	< 2	2.40	< 0.5	24	91	1465	4.30	10	< 1	1.21	< 10	2.16	185	30
571851H	299	229	0.4	3.41	18	200	< 0.5	< 2	2.87	< 0.5	20	66	969	4.24	< 10	< 1	1.32	< 10	2.11	240	23
571852H	299	229	0.6	3.47	20	90	< 0.5	< 2	2.85	< 0.5	23	150	1170	4.00	10	< 1	1.42	< 10	2.42	160	11
571853H	299	229	0.8	2.08	6	230	< 0.5	< 2	1.73	< 0.5	17	177	964	3.04	10	< 1	0.89	< 10	1.56	135	25
571854H	299	229	1.0	3.09	2	200	< 0.5	< 2	2.95	< 0.5	19	131	1460	3.11	< 10	< 1	1.26	< 10	1.92	215	68
571855H	299	229	1.2	2.27	10	210	0.5	< 2	1.95	< 0.5	15	148	1290	3.37	10	< 1	0.89	< 10	1.56	175	49
571856H	299	229	1.2	1.81	4	180	< 0.5	< 2	1.85	< 0.5	14	129	1430	2.54	10	< 1	0.70	< 10	1.33	135	69
571857H	299	229	1.4	1.83	8	170	0.5	< 2	2.11	< 0.5	14	161	2290	2.53	10	< 1	0.73	< 10	1.38	115	35
571858H	299	229	1.6	1.20	12	190	< 0.5	< 2	2.30	< 0.5	13	171	2150	2.11	10	< 1	0.45	< 10	0.87	175	119
571859H	299	229	2.8	0.87	234	110	0.5	10	2.18	< 0.5	13	120	2870	2.35	< 10	< 1	0.33	< 10	0.63	830	54
571860H	299	229	4.8	1.39	420	60	< 0.5	< 2	3.00	< 0.5	23	126	4440	3.92	< 10	< 1	0.45	< 10	0.72	1270	40
571861H	299	229	1.4	3.15	4	400	0.5	4	2.85	< 0.5	18	133	2110	3.10	10	< 1	1.43	< 10	2.14	200	53
571862H	299	229	0.8	4.28	6	450	< 0.5	< 2	3.55	< 0.5	17	152	1680	3.26	10	< 1	1.65	< 10	2.62	205	83
571863H	299	229	1.2	4.25	< 2	510	< 0.5	< 2	2.71	< 0.5	18	148	2520	3.13	10	< 1	1.73	< 10	2.78	160	74
571864H	299	229	1.6	4.21	6	370	< 0.5	< 2	2.71	< 0.5	25	169	2490	3.45	10	< 1	1.66	< 10	2.57	155	39
571865H	299	229	0.8	2.36	8	270	< 0.5	< 2	2.37	< 0.5	13	154	1180	2.46	10	< 1	0.96	< 10	1.48	130	69
571866H	299	229	1.4	3.35	4	340	< 0.5	< 2	2.83	< 0.5	19	208	2550	3.52	10	< 1	1.49	< 10	2.21	165	89
571867H	299	229	0.8	4.16	16	280	< 0.5	< 2	3.40	< 0.5	19	178	1560	3.87	10	< 1	1.66	< 10	2.53	185	56
571868H	299	229	0.6	3.72	4	240	< 0.5	< 2	2.77	< 0.5	15	188	1715	3.58	< 10	1	1.63	< 10	2.35	165	42
571869H	299	229	1.0	3.15	10	150	< 0.5	< 2	2.18	< 0.5	15	166	1905	3.58	< 10	1	1.54	< 10	2.11	160	81
571870H	299	229	1.4	3.83	14	370	< 0.5	< 2	2.79	< 0.5	17	129	1800	3.54	< 10	2	1.41	< 10	2.10	195	207
571871H	299	229	0.8	3.94	8	300	< 0.5	< 2	3.57	< 0.5	22	87	1945	4.01	< 10	< 1	1.56	< 10	2.21	215	57
571872H	299	229	0.8	3.06	2	350	< 0.5	< 2	2.18	< 0.5	12	133	1715	3.67	< 10	2	1.72	< 10	2.37	180	43
571873H	299	229	0.8	3.93	8	100	< 0.5	< 2	3.10	< 0.5	15	90	1295	4.47	< 10	< 1	1.47	< 10	2.11	235	62
571874H	299	229	1.0	4.78	< 2	250	< 0.5	< 2	4.69	< 0.5	17	62	1860	4.31	< 10	< 1	1.58	< 10	2.40	240	132
571875H	299	229	1.2	3.56	16	120	< 0.5	< 2	3.30	< 0.5	17	96	2260	4.20	10	< 1	1.40	< 10	2.37	280	101
571876H	299	229	0.8	2.38	4	100	< 0.5	< 2	2.54	< 0.5	15	138	1755	2.95	10	< 1	1.18	< 10	1.86	125	38
571877H	299	229	0.6	2.00	8	140	< 0.5	< 2	1.76	< 0.5	14	198	1365	3.00	10	< 1	0.96	< 10	1.56	135	62
571878H	299	229	1.2	2.06	12	100	< 0.5	< 2	2.24	< 0.5	14	167	1885	2.78	10	< 1	0.87	< 10	1.53	115	63
571879H	299	229	1.2	4.27	4	340	< 0.5	< 2	3.57	< 0.5	15	84	3020	4.00	10	< 1	1.29	< 10	2.14	200	24
571880H	299	229	1.2	4.32	24	190	< 0.5	< 2	3.45	1.0	17	112	1950	4.50	10	< 1	1.27	< 10	2.32	300	111
571881H	299	229	0.6	3.75	12	260	< 0.5	< 2	3.04	< 0.5	15	124	1150	3.84	10	< 1	1.36	< 10	2.12	190	138
571882H	299	229	0.4	3.89	< 2	270	< 0.5	< 2	3.00	< 0.5	17	107	1025	3.86	10	< 1	1.01	< 10	1.82	250	7
571883H	299	229	1.2	3.77	4	280	< 0.5	< 2	3.41	< 0.5	15	104	2730	3.58	10	< 1	1.26	< 10	2.11	235	27
571884H	299	229	0.6	1.87	8	410	< 0.5	< 2	1.60	< 0.5	10	147	1110	1.98	10	< 1	0.55	< 10	0.68	135	69
571885H	299	229	0.2	0.41	4	340	< 0.5	< 2	1.03	< 0.5	4	160	784	0.48	< 10	< 1	0.20	< 10	0.04	85	61
571886H	299	229	0.6	0.49	6	360	< 0.5	< 2	1.36	0.5	3	214	482	0.55	< 10	< 1	0.25	< 10	0.04	175	56
571887H	299	229	0.6	1.70	4	350	< 0.5	< 2	2.26	< 0.5	8	146	1060	1.79	10	< 1	0.66	< 10	0.89	110	86

CERTIFICATION: Ian H Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-199
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-SEP-93
Invoice No. : I9321312
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321312

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571848H	299	229	0.24	13	610	4	< 2	25	78	0.26	< 10	< 10	176	< 10	40
571849H	299	229	0.16	11	680	14	< 2	17	97	0.17	< 10	< 10	138	< 10	108
571850H	299	229	0.15	10	680	4	< 2	19	76	0.22	< 10	< 10	155	< 10	40
571851H	299	229	0.24	8	910	2	4	18	107	0.28	< 10	< 10	183	< 10	38
571852H	299	229	0.22	13	630	4	2	24	103	0.25	< 10	< 10	169	< 10	32
571853H	299	229	0.12	13	500	2	< 2	13	80	0.14	< 10	< 10	92	< 10	28
571854H	299	229	0.18	8	440	8	< 2	18	111	0.18	< 10	< 10	148	< 10	46
571855H	299	229	0.14	6	680	4	2	15	78	0.16	< 10	< 10	112	< 10	34
571856H	299	229	0.08	5	600	6	< 2	12	83	0.11	< 10	< 10	80	< 10	32
571857H	299	229	0.09	7	590	4	< 2	12	86	0.12	< 10	< 10	87	< 10	32
571858H	299	229	0.07	5	430	6	2	8	87	0.04	< 10	< 10	54	< 10	28
571859H	299	229	0.03	6	420	26	8	4	58	< 0.01	< 10	< 10	23	< 10	60
571860H	299	229	0.03	7	630	22	36	8	82	0.01	< 10	< 10	49	< 10	108
571861H	299	229	0.16	13	590	2	< 2	15	125	0.15	< 10	< 10	108	< 10	36
571862H	299	229	0.25	15	570	< 2	< 2	17	168	0.19	< 10	< 10	123	< 10	36
571863H	299	229	0.25	17	440	2	< 2	17	176	0.15	< 10	< 10	117	< 10	34
571864H	299	229	0.25	17	430	2	< 2	18	191	0.16	< 10	< 10	125	< 10	38
571865H	299	229	0.14	10	340	4	< 2	15	111	0.12	< 10	< 10	107	< 10	28
571866H	299	229	0.21	15	420	6	< 2	22	111	0.19	< 10	< 10	150	< 10	40
571867H	299	229	0.28	14	520	6	4	25	143	0.25	< 10	< 10	187	< 10	40
571868H	299	229	0.24	11	520	< 2	< 2	27	118	0.28	< 10	< 10	198	< 10	38
571869H	299	229	0.18	9	500	2	2	23	93	0.28	< 10	< 10	182	< 10	36
571870H	299	229	0.24	8	760	10	4	20	155	0.21	< 10	< 10	158	< 10	58
571871H	299	229	0.24	8	1210	< 2	< 2	19	155	0.25	< 10	< 10	158	< 10	38
571872H	299	229	0.15	9	670	6	< 2	23	78	0.29	< 10	< 10	171	< 10	36
571873H	299	229	0.25	8	760	6	< 2	19	146	0.26	< 10	< 10	158	< 10	44
571874H	299	229	0.32	8	1080	< 2	2	24	217	0.31	< 10	< 10	202	< 10	42
571875H	299	229	0.23	8	1100	2	2	22	141	0.30	< 10	< 10	191	< 10	52
571876H	299	229	0.15	6	840	< 2	2	21	98	0.26	< 10	< 10	146	< 10	28
571877H	299	229	0.13	7	660	2	2	15	68	0.23	< 10	< 10	115	< 10	30
571878H	299	229	0.13	7	640	2	< 2	15	85	0.19	< 10	< 10	111	< 10	28
571879H	299	229	0.33	7	1190	2	< 2	21	182	0.28	< 10	< 10	208	< 10	36
571880H	299	229	0.33	8	1140	26	4	21	185	0.30	< 10	< 10	194	< 10	126
571881H	299	229	0.30	6	970	< 2	2	22	147	0.32	< 10	< 10	199	< 10	36
571882H	299	229	0.31	6	940	4	< 2	16	164	0.29	< 10	< 10	189	< 10	38
571883H	299	229	0.28	7	1000	< 2	< 2	22	156	0.27	< 10	< 10	199	< 10	40
571884H	299	229	0.06	4	530	6	4	11	74	0.07	< 10	< 10	80	< 10	20
571885H	299	229	0.03	3	100	12	< 2	< 1	53	< 0.01	< 10	< 10	1	< 10	14
571886H	299	229	0.03	3	90	32	< 2	< 1	88	< 0.01	< 10	< 10	1	< 10	66
571887H	299	229	0.12	4	680	2	< 2	7	141	0.10	< 10	< 10	56	< 10	20

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-199
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-SEP-93
Invoice No. :I9321312
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321312

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571888H	299	229	1.0	1.43	4	290	< 0.5	< 2	1.94	< 0.5	9	68	1765	1.84	10	< 1	0.60	< 10	0.79	135	74
571889H	299	229	1.4	0.75	8	400	< 0.5	< 2	1.57	0.5	4	100	3550	0.68	< 10	< 1	0.30	10	0.07	95	178
571890H	299	229	1.4	0.77	12	540	< 0.5	< 2	2.08	0.5	7	134	1190	0.71	< 10	< 1	0.33	< 10	0.08	185	145
571891H	299	229	1.4	0.85	12	410	0.5	< 2	1.55	< 0.5	6	131	1165	0.84	10	< 1	0.38	10	0.07	145	84
571892H	299	229	1.2	0.77	14	430	< 0.5	< 2	1.18	< 0.5	7	130	1070	0.77	< 10	< 1	0.31	10	0.06	95	102
571893H	299	229	1.4	0.90	44	170	< 0.5	< 2	1.56	< 0.5	6	127	964	1.28	< 10	< 1	0.32	< 10	0.08	150	156
571894H	299	229	0.6	0.56	12	600	< 0.5	< 2	1.61	< 0.5	4	123	957	0.63	< 10	< 1	0.25	10	0.07	125	63
571895H	299	229	1.2	0.78	14	260	< 0.5	< 2	1.86	< 0.5	8	172	1885	0.94	< 10	< 1	0.27	10	0.17	110	76
571896H	299	229	0.8	0.57	4	260	< 0.5	< 2	1.56	< 0.5	6	89	1490	0.73	< 10	< 1	0.14	20	0.17	105	207
571897H	299	229	1.0	0.74	8	380	< 0.5	< 2	1.70	< 0.5	8	204	1800	0.85	< 10	< 1	0.29	10	0.17	140	68
571898H	299	229	0.8	5.28	8	220	< 0.5	< 2	4.06	< 0.5	19	55	2300	4.22	< 10	< 1	1.70	< 10	2.60	235	204
571899H	299	229	1.6	3.84	10	210	< 0.5	< 2	4.42	< 0.5	19	39	2680	3.56	< 10	< 1	1.53	< 10	2.39	215	204
571900H	299	229	1.0	5.61	6	330	< 0.5	< 2	4.08	< 0.5	18	53	2080	4.51	< 10	< 1	1.70	< 10	2.64	255	95
571901H	299	229	1.6	4.79	12	200	1.0	< 2	3.58	< 0.5	20	74	3000	3.98	< 10	< 1	1.69	< 10	2.41	205	131
571902H	299	229	1.0	3.80	20	150	0.5	< 2	2.99	< 0.5	20	76	2360	4.24	< 10	1	1.58	< 10	2.36	225	92
571903H	299	229	0.8	3.73	4	220	< 0.5	< 2	2.98	< 0.5	14	76	1040	3.98	< 10	< 1	1.54	< 10	2.21	260	50
571904H	299	229	1.4	3.41	10	120	< 0.5	< 2	2.77	< 0.5	15	93	3330	4.03	< 10	1	1.64	< 10	2.35	225	89
571905H	299	229	1.0	3.72	8	120	1.0	< 2	2.72	< 0.5	18	110	2140	4.24	< 10	< 1	1.48	< 10	2.19	245	76
571906H	299	229	1.4	4.34	22	290	< 0.5	< 2	3.46	< 0.5	21	78	3000	4.43	< 10	2	1.31	< 10	2.25	240	37
571907H	299	229	0.8	3.52	8	420	0.5	< 2	2.46	< 0.5	13	118	1620	4.14	< 10	< 1	1.37	< 10	2.06	230	57
571908H	299	229	2.4	3.12	16	230	< 0.5	< 2	2.13	1.0	13	120	1835	3.91	10	1	1.48	< 10	2.29	225	189
571909H	299	229	1.4	2.64	14	120	0.5	< 2	2.15	< 0.5	14	141	3280	3.40	10	< 1	1.25	< 10	2.02	225	389
571910H	299	229	0.4	2.32	6	240	< 0.5	< 2	1.81	< 0.5	16	165	697	3.00	10	< 1	0.97	< 10	1.91	260	22
571911H	299	229	0.6	2.49	8	260	< 0.5	< 2	2.84	< 0.5	12	131	808	3.19	10	< 1	1.10	< 10	1.91	300	571
571912H	299	229	0.8	2.55	12	420	0.5	< 2	1.94	< 0.5	12	88	1205	3.52	10	< 1	0.89	< 10	1.37	310	23
571913H	299	229	0.4	1.05	6	280	< 0.5	< 2	1.98	< 0.5	4	124	676	1.05	10	< 1	0.32	10	0.32	100	56
571914H	299	229	0.6	1.85	14	440	< 0.5	< 2	2.71	< 0.5	9	56	1015	1.89	10	< 1	0.41	< 10	0.57	210	42
571915H	299	229	0.6	1.12	2	240	0.5	< 2	1.85	< 0.5	4	92	924	0.95	10	< 1	0.24	10	0.29	105	44
571916H	299	229	0.8	0.79	8	490	< 0.5	< 2	2.71	< 0.5	3	78	764	0.64	< 10	< 1	0.20	< 10	0.07	165	114
571917H	299	229	0.6	0.79	12	600	< 0.5	< 2	2.27	< 0.5	4	75	695	0.60	< 10	< 1	0.25	< 10	0.06	160	24
571918H	299	229	0.6	0.97	6	650	< 0.5	< 2	2.00	< 0.5	5	83	1125	0.73	< 10	1	0.24	10	0.13	115	28
571919H	299	229	0.4	1.15	< 2	210	0.5	< 2	1.08	< 0.5	6	119	895	1.35	10	< 1	0.29	20	0.51	85	57
571920H	299	229	0.8	2.63	4	480	< 0.5	< 2	2.02	< 0.5	10	92	1490	2.82	10	< 1	0.75	< 10	1.34	205	21
571921H	299	229	3.2	2.24	22	100	< 0.5	< 2	1.42	< 0.5	11	70	2200	3.74	10	< 1	0.61	10	0.99	185	26
571922H	299	229	1.0	2.12	8	540	< 0.5	< 2	3.36	< 0.5	10	81	1440	2.18	10	< 1	0.53	< 10	0.96	210	442
571923H	299	229	0.6	3.08	< 2	540	< 0.5	< 2	1.79	< 0.5	12	47	1010	4.11	10	< 1	0.90	< 10	2.04	335	50
571924H	299	229	0.8	3.45	12	500	< 0.5	< 2	1.89	< 0.5	14	55	1470	4.91	10	2	1.00	< 10	2.12	410	12
571925H	299	229	1.0	3.53	8	170	< 0.5	< 2	2.19	< 0.5	14	54	1680	4.56	10	1	1.01	< 10	2.08	355	17
571926H	299	229	1.2	3.73	12	470	< 0.5	< 2	2.13	0.5	12	54	1285	4.42	10	2	1.03	< 10	2.22	330	85
571927H	299	229	0.6	3.53	22	470	< 0.5	< 2	2.50	< 0.5	13	18	859	4.45	10	1	0.95	< 10	2.20	350	17

CERTIFICATION:

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-199
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :4
Certificate Date: 26-SEP-93
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Account :FC

CERTIFICATE OF ANALYSIS A9321312

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571888H	299	229	0.09	4	750	6	< 2	7	104	0.09	< 10	< 10	55	< 10	22
571889H	299	229	0.03	2	180	22	24	< 1	58	< 0.01	< 10	< 10	1	< 10	40
571890H	299	229	0.02	3	230	28	4	< 1	79	< 0.01	< 10	< 10	1	< 10	54
571891H	299	229	0.01	2	180	10	2	< 1	51	< 0.01	< 10	< 10	2	< 10	20
571892H	299	229	0.01	2	190	6	8	< 1	41	< 0.01	< 10	< 10	1	< 10	16
571893H	299	229	0.01	2	190	14	20	< 1	62	< 0.01	< 10	< 10	< 1	< 10	24
571894H	299	229	0.03	2	210	6	< 2	< 1	94	< 0.01	< 10	< 10	2	< 10	16
571895H	299	229	0.06	3	230	8	2	1	116	< 0.01	< 10	< 10	9	< 10	18
571896H	299	229	0.03	2	220	12	2	1	66	< 0.01	< 10	< 10	6	< 10	14
571897H	299	229	0.06	3	220	18	< 2	1	88	< 0.01	< 10	< 10	7	< 10	20
571898H	299	229	0.38	7	1260	< 2	2	22	218	0.34	< 10	< 10	193	< 10	42
571899H	299	229	0.12	7	1100	10	2	20	198	0.20	< 10	< 10	161	< 10	46
571900H	299	229	0.43	7	1470	2	2	22	292	0.31	< 10	< 10	194	< 10	46
571901H	299	229	0.38	7	1170	2	4	21	241	0.31	< 10	< 10	179	< 10	42
571902H	299	229	0.29	9	860	2	6	20	160	0.32	< 10	< 10	181	< 10	42
571903H	299	229	0.27	6	920	4	4	20	148	0.32	< 10	< 10	172	< 10	52
571904H	299	229	0.23	7	1160	4	6	21	135	0.36	< 10	< 10	181	< 10	44
571905H	299	229	0.29	7	1130	< 2	4	18	143	0.35	< 10	< 10	174	< 10	42
571906H	299	229	0.36	7	1200	6	6	19	279	0.31	< 10	< 10	174	< 10	44
571907H	299	229	0.29	6	980	4	4	19	155	0.29	< 10	< 10	155	< 10	38
571908H	299	229	0.20	7	1070	52	4	25	94	0.30	< 10	< 10	164	< 10	114
571909H	299	229	0.18	17	840	< 2	6	18	101	0.29	< 10	< 10	133	< 10	38
571910H	299	229	0.16	28	850	< 2	2	11	78	0.25	< 10	< 10	103	< 10	32
571911H	299	229	0.13	29	990	< 2	4	14	100	0.21	< 10	< 10	107	< 10	40
571912H	299	229	0.18	7	1070	6	4	11	131	0.20	< 10	< 10	99	< 10	36
571913H	299	229	0.06	5	330	16	< 2	4	136	0.03	< 10	< 10	25	< 10	20
571914H	299	229	0.08	3	720	8	2	11	106	0.06	< 10	< 10	68	< 10	22
571915H	299	229	0.04	3	250	14	< 2	2	60	< 0.01	< 10	< 10	15	< 10	12
571916H	299	229	0.01	3	210	20	2	1	66	< 0.01	< 10	< 10	3	< 10	22
571917H	299	229	0.01	2	180	18	4	< 1	92	< 0.01	< 10	< 10	2	< 10	16
571918H	299	229	0.03	4	220	14	2	1	146	< 0.01	< 10	< 10	6	< 10	12
571919H	299	229	0.07	6	240	10	< 2	3	117	0.02	< 10	< 10	28	< 10	14
571920H	299	229	0.11	10	400	4	2	12	101	0.13	< 10	< 10	91	< 10	26
571921H	299	229	0.06	5	790	14	4	7	92	0.06	< 10	< 10	68	< 10	34
571922H	299	229	0.05	8	510	14	4	8	140	0.06	< 10	< 10	61	< 10	28
571923H	299	229	0.11	3	1050	12	< 2	16	104	0.25	< 10	< 10	147	< 10	42
571924H	299	229	0.23	2	1190	8	4	15	157	0.32	< 10	< 10	165	< 10	46
571925H	299	229	0.26	2	1180	6	2	16	224	0.33	< 10	< 10	169	< 10	38
571926H	299	229	0.26	3	1170	22	2	18	240	0.29	< 10	< 10	149	< 10	96
571927H	299	229	0.16	3	960	8	6	16	346	0.18	< 10	< 10	147	< 10	62

CERTIFICATION: Stewart Buchler

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CERTIFICATE OF ANALYSIS A9321312

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571928H	299	229	1.8	2.25	< 2	220	< 0.5	< 2	2.69	0.5	23	63	3260	3.45	< 10	< 1	0.80	10	1.36	155	44
571929H	299	229	1.2	2.96	< 2	320	< 0.5	< 2	2.21	0.5	18	72	2310	3.89	< 10	< 1	1.15	10	1.86	195	12
571930H	299	229	1.2	2.80	< 2	480	< 0.5	< 2	3.29	0.5	12	79	2550	2.88	< 10	< 1	1.23	20	1.77	195	104
571931H	299	229	1.0	3.17	6	390	< 0.5	< 2	2.62	< 0.5	17	82	1565	3.88	< 10	< 1	1.16	10	1.83	315	32
571932H	299	229	1.6	1.16	4	590	< 0.5	< 2	1.88	4.5	3	98	734	0.92	< 10	< 1	0.30	20	0.15	115	39
571933H	299	229	1.2	1.39	4	100	< 0.5	< 2	2.77	0.5	6	93	1390	1.31	< 10	< 1	0.35	20	0.28	130	65
571934H	299	229	1.4	1.07	20	120	< 0.5	< 2	1.22	0.5	5	75	857	1.06	< 10	< 1	0.20	20	0.21	110	32
571935H	299	229	0.6	0.93	8	190	< 0.5	< 2	0.98	< 0.5	3	65	1110	0.73	< 10	< 1	0.14	20	0.09	60	79
571936H	299	229	0.8	1.05	36	250	< 0.5	< 2	0.85	< 0.5	3	79	1180	0.68	< 10	< 1	0.20	20	0.16	75	67
571937H	299	229	0.6	1.32	< 2	950	< 0.5	< 2	1.43	0.5	3	86	1030	0.99	< 10	< 1	0.21	20	0.20	80	39
571938H	299	229	0.4	1.61	10	260	< 0.5	< 2	2.88	< 0.5	6	82	519	1.26	10	< 1	0.35	30	0.40	170	50
571939H	299	229	0.2	2.88	< 2	580	< 0.5	< 2	2.16	< 0.5	6	69	540	2.38	< 10	< 1	0.79	10	1.07	170	58
571940H	299	229	0.6	1.68	< 2	320	< 0.5	< 2	1.62	< 0.5	12	92	826	2.23	10	< 1	0.48	30	0.57	155	45
571941H	299	229	0.6	1.00	2	270	< 0.5	< 2	1.54	< 0.5	6	72	439	1.38	< 10	< 1	0.28	30	0.36	120	247
571942H	299	229	0.4	1.58	4	390	< 0.5	< 2	1.90	< 0.5	7	129	703	1.44	10	< 1	0.66	30	0.56	125	73
571943H	299	229	1.8	1.60	22	540	< 0.5	2	2.19	0.5	9	66	1465	1.91	< 10	< 1	0.54	20	0.62	145	75
571944H	299	229	0.6	1.12	2	170	< 0.5	< 2	1.52	< 0.5	6	84	777	1.13	< 10	< 1	0.17	20	0.37	125	62
571945H	299	229	0.4	0.39	6	210	< 0.5	< 2	1.36	< 0.5	2	61	463	0.60	< 10	< 1	0.15	20	0.12	45	30
571946H	299	229	0.2	0.56	2	120	< 0.5	< 2	1.86	< 0.5	2	103	415	0.70	< 10	< 1	0.16	20	0.30	60	36
571947H	299	229	0.2	0.37	< 2	120	< 0.5	< 2	1.08	< 0.5	2	89	385	0.59	< 10	< 1	0.14	20	0.13	40	55
571948H	299	229	0.4	0.55	8	270	< 0.5	< 2	1.13	< 0.5	3	121	509	0.60	< 10	< 1	0.18	20	0.12	40	66
571949H	299	229	0.4	0.47	14	90	< 0.5	< 2	1.04	< 0.5	2	103	534	0.50	< 10	< 1	0.18	20	0.10	40	210
571950H	299	229	0.4	0.60	6	350	< 0.5	< 2	1.34	< 0.5	3	143	460	0.72	< 10	< 1	0.23	20	0.17	50	570
571951H	299	229	0.4	0.59	56	140	< 0.5	< 2	1.12	< 0.5	4	121	1175	0.68	< 10	< 1	0.23	20	0.16	55	41
571952H	299	229	0.4	1.00	50	480	< 0.5	< 2	1.26	< 0.5	5	133	942	0.96	< 10	< 1	0.30	20	0.30	60	62

CERTIFICATION:

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-199
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :4
Certificate Date: 26-SEP-93
Invoice No. :19321312
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321312

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571928H	299	229	0.08	6	1060	10	2	16	111	0.13	< 10	< 10	121	< 10	30
571929H	299	229	0.18	3	1250	6	2	14	209	0.25	< 10	< 10	117	10	26
571930H	299	229	0.12	4	1180	8	< 2	15	160	0.21	< 10	< 10	123	10	22
571931H	299	229	0.13	4	990	18	< 2	15	220	0.25	< 10	< 10	134	10	48
571932H	299	229	0.01	3	250	184	12	2	71	< 0.01	< 10	< 10	11	< 10	350
571933H	299	229	0.01	2	410	26	6	4	33	0.02	< 10	< 10	25	< 10	42
571934H	299	229	0.01	4	250	38	44	1	16	< 0.01	< 10	< 10	8	< 10	50
571935H	299	229	< 0.01	3	240	28	4	1	15	< 0.01	< 10	< 10	9	< 10	18
571936H	299	229	0.01	3	210	20	32	2	15	< 0.01	< 10	< 10	9	< 10	16
571937H	299	229	0.01	4	240	22	4	3	40	0.01	< 10	< 10	17	< 10	40
571938H	299	229	0.01	11	170	16	6	6	29	0.03	< 10	< 10	43	< 10	18
571939H	299	229	0.02	6	510	22	2	12	61	0.09	< 10	< 10	67	< 10	22
571940H	299	229	0.01	23	480	20	2	9	20	0.06	< 10	< 10	49	< 10	32
571941H	299	229	0.01	12	300	28	4	6	25	0.02	< 10	< 10	28	< 10	30
571942H	299	229	0.02	12	280	20	4	5	44	0.07	< 10	< 10	31	< 10	18
571943H	299	229	0.01	9	640	22	16	10	60	0.06	< 10	< 10	52	< 10	28
571944H	299	229	0.01	4	350	14	2	6	20	< 0.01	< 10	< 10	21	< 10	16
571945H	299	229	0.02	1	120	16	2	< 1	42	< 0.01	< 10	< 10	2	< 10	6
571946H	299	229	0.03	1	130	16	2	1	82	< 0.01	< 10	< 10	4	< 10	6
571947H	299	229	0.03	2	120	12	< 2	1	249	< 0.01	< 10	< 10	4	< 10	8
571948H	299	229	0.03	3	150	14	2	1	156	< 0.01	< 10	< 10	4	< 10	8
571949H	299	229	0.01	2	210	14	4	< 1	18	< 0.01	< 10	< 10	3	< 10	16
571950H	299	229	0.04	1	220	18	6	1	220	< 0.01	< 10	< 10	9	< 10	14
571951H	299	229	0.01	3	270	8	8	1	28	< 0.01	< 10	< 10	8	< 10	18
571952H	299	229	0.03	3	250	10	4	3	175	0.01	< 10	< 10	18	< 10	18

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Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. : 1
Total Pages : 5
Certificate Date: 24-SEP-93
Invoice No. : 19321316
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321316

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
575547H	208	276	0.02	0.005	0.17	7560						
575548H	208	276	0.02	0.009	0.10	9440						
575549H	208	276	0.04	0.005	0.07	8720						
575550H	208	276	0.05	0.005	0.07	7420						
575551H	208	276	0.02	0.006	0.14	10700						
575552H	208	276	0.02	0.013	< 0.03	11140						
575553H	208	276	0.06	0.008	0.21	10240						
575554H	208	273	0.03	0.009	0.07	12860						
575555H	208	276	0.08	0.011	0.51	11660						
575556H	208	273	0.09	0.022	0.10	13000						
575557H	208	276	0.09	0.018	0.03	10120						
575558H	208	273	0.08	0.009	0.07	14600						
575559H	208	273	0.10	0.007	< 0.03	13060						
575560H	208	276	0.11	0.011	0.07	11680						
575561H	208	276	0.07	0.009	0.10	11500						
575562H	208	276	0.20	0.007	0.10	11260						
575563H	208	276	0.38	0.008	0.10	10440						
575564H	208	274	0.33	0.010	0.14	6380						
575565H	208	274	0.61	0.006	0.17	6820						
575566H	208	274	0.89	0.003	0.27	6100						
575567H	208	276	0.86	0.013	0.21	8640						
575568H	208	273	0.27	0.009	0.14	12700						
575569H	208	276	0.31	0.006	0.21	8760						
575570H	208	273	0.36	0.003	0.38	12700						
575571H	208	273	0.42	0.009	0.27	12760						
575572H	208	273	0.52	0.009	0.58	12000						
575573H	208	276	0.38	0.009	0.58	11300						
575574H	208	273	0.34	0.010	0.31	13220						
575575H	208	276	1.26	0.020	1.35	10940						
575576H	208	276	0.22	0.008	0.31	10400						
575577H	208	276	0.46	0.007	0.31	8720						
575578H	208	276	0.31	0.006	0.17	9920						
575579H	208	274	0.28	0.005	0.10	5680						
575580H	208	276	0.47	0.008	0.07	11180						
575581H	208	276	0.35	0.007	0.10	10500						
575582H	208	276	0.16	0.008	0.07	8100						
575583H	208	276	0.25	0.009	0.10	8480						
575584H	208	276	0.19	0.014	0.14	7720						
575585H	208	276	0.23	0.004	0.14	9040						
575586H	208	276	0.07	0.013	0.10	10200						

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Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. : I9321316
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Account : FC

CERTIFICATE OF ANALYSIS A9321316

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
575587H	208	276	0.15	0.009	0.10	10920						
575588H	208	276	0.29	0.023	0.27	9980						
575589H	208	274	0.14	0.002	0.21	6860						
575590H	208	276	0.15	0.007	0.24	11020						
575591H	208	276	0.16	0.005	0.17	9220						
575592H	208	276	0.14	0.007	0.21	11500						
575593H	208	273	0.13	0.006	0.10	12380						
575594H	208	276	0.14	0.008	0.17	9780						
575595H	208	276	0.13	0.003	0.21	9860						
575596H	208	273	0.13	0.012	0.17	12100						
575597H	208	273	0.12	0.003	0.21	12440						
575598H	208	273	0.18	0.028	0.21	11980						
575599H	208	273	0.13	0.004	0.17	12400						
575600H	208	276	0.32	0.010	0.31	11720						
575601H	208	273	0.10	0.011	0.10	12200						
575602H	208	273	0.14	0.003	0.14	12560						
575603H	208	276	0.11	0.003	0.10	11020						
575604H	208	273	0.13	0.003	0.17	12360						
575605H	208	276	0.16	0.004	0.21	11620						
575606H	208	273	0.30	0.030	0.24	11880						
575607H	208	273	0.33	0.011	0.38	12320						
575608H	208	273	0.28	0.016	0.24	12660						
575609H	208	273	0.19	0.006	0.24	12780						
575610H	208	273	0.31	0.009	0.41	11860						
575611H	208	273	0.19	0.007	0.24	12340						
575612H	208	273	0.21	0.011	0.24	12180						
575613H	208	273	0.20	0.011	0.17	12440						
575614H	208	273	0.30	0.023	0.24	12220						
575615H	208	273	0.29	0.007	0.24	13220						
575616H	208	273	0.18	0.009	0.24	12340						
575617H	208	273	0.24	0.020	0.27	12140						
575618H	208	276	0.27	0.008	0.27	11180						
575619H	208	276	0.25	0.017	0.34	11100						
575620H	208	276	0.15	0.006	0.17	10900						
575621H	208	276	0.14	0.004	0.21	11800						
575622H	208	273	0.27	0.005	0.45	12040						
575623H	208	276	0.22	0.007	0.17	11420						
575624H	208	276	0.21	0.006	0.27	9500						
575625H	208	276	0.16	0.008	0.21	11600						
575626H	208	273	0.14	0.012	0.17	12660						

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Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. : I9321316
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321316

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575627H	208	273	0.17	0.003	0.17	12880
575628H	208	273	0.24	0.004	0.21	13460
575629H	208	273	0.28	0.009	0.24	11900
575630H	208	273	0.27	0.004	0.31	12040
575631H	208	273	0.21	0.007	0.24	12440
575632H	208	273	0.13	0.005	0.14	12320
575633H	208	273	0.13	0.002	0.17	12240
575634H	208	273	0.21	0.004	0.24	13080
575635H	208	273	0.16	0.006	0.21	13600
575636H	208	276	0.18	0.004	0.17	11560
575637H	208	273	0.17	0.005	0.24	12880
575638H	208	273	0.19	0.003	0.24	13300
575639H	208	273	0.18	0.005	0.21	13600
575640H	208	273	0.14	0.003	0.17	12550
575641H	208	273	0.12	0.004	0.17	13140
575642H	208	273	0.12	0.008	0.17	13380
575643H	208	276	0.27	0.010	0.38	11800
575644H	208	276	0.40	0.005	0.58	9080
575645H	208	273	0.16	0.003	0.24	12860
575646H	208	273	0.22	0.026	0.31	13380
575647H	208	273	0.10	0.006	0.21	13200
575648H	208	273	0.09	0.003	0.21	13400
575649H	208	273	0.11	0.005	0.17	14180
575650H	208	273	0.06	0.001	0.14	13580
575651H	208	273	0.10	0.002	0.10	13820
575652H	208	273	0.04	0.002	0.10	13620
575653H	208	273	0.02	0.003	0.03	13500
575654H	208	273	0.07	0.007	0.07	13740
575655H	208	273	0.08	0.003	0.07	12880
575656H	208	273	0.06	0.009	0.10	12720
575657H	208	273	0.18	0.004	0.21	13360
575658H	208	273	0.06	0.003	0.07	13800
575659H	208	273	0.06	0.002	0.10	12780
575660H	208	273	0.06	0.012	0.10	13620
575661H	208	273	0.04	0.003	0.10	13540
575662H	208	273	0.05	0.006	0.07	13020
575663H	208	273	0.06	0.012	0.07	12020
575664H	208	273	0.04	0.006	0.03	13180
575665H	208	273	0.05	0.006	0.10	13140
575666H	208	273	0.10	0.005	0.14	12340

CERTIFICATION: A. Sinclair

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO-200
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CERTIFICATE OF ANALYSIS A9321316

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575667H	208	276	0.08	0.002	0.10	10740
575668H	208	276	0.08	0.008	0.07	11800
575669H	208	276	0.10	0.004	0.10	11700
575670H	208	273	0.05	0.002	0.03	12060
575671H	208	273	0.08	0.003	< 0.03	12480
575672H	208	273	0.04	0.004	< 0.03	12100
575673H	208	276	0.03	0.004	0.03	10700
575674H	208	276	0.03	0.002	< 0.03	11500
575675H	208	276	0.03	0.004	< 0.03	11680
575676H	208	276	0.03	0.003	< 0.03	11500
575677H	208	276	0.04	0.005	< 0.03	10460
575678H	208	276	0.04	0.003	< 0.03	11680
575679H	208	273	0.03	0.003	< 0.03	12280
575680H	208	276	0.03	0.002	< 0.03	10740
575681H	208	276	0.03	0.005	< 0.03	11080
575682H	208	276	0.03	0.002	< 0.03	10980
575683H	208	276	0.03	0.001	< 0.03	11660
575684H	208	276	0.05	0.005	0.10	11000
575685H	208	273	0.03	0.004	< 0.03	12500
575686H	208	276	0.03	0.002	< 0.03	10800
575687H	208	273	0.04	0.003	0.03	12100
575688H	208	273	0.06	0.006	0.07	12900
575689H	208	273	0.03	0.001	0.03	11960
575690H	208	273	0.03	0.003	< 0.03	12260
575691H	208	273	0.02	< 0.001	0.24	12800
575692H	208	273	0.03	0.001	< 0.03	12000
575693H	208	276	0.03	0.002	< 0.03	9100
575694H	208	273	0.03	0.002	< 0.03	12000
575695H	208	273	0.03	0.002	0.14	12120
575696H	208	273	0.02	0.002	< 0.03	12600
575697H	208	276	0.03	0.002	< 0.03	11500
575698H	208	273	0.03	0.015	< 0.03	12620
575699H	208	273	0.04	0.002	< 0.03	12380
575700H	208	273	0.01	0.002	0.07	12200
575701H	208	273	0.02	0.002	< 0.03	12900
575702H	208	273	0.02	0.002	< 0.03	12820
575703H	208	273	0.02	0.002	< 0.03	13300
575704H	208	273	0.02	0.005	< 0.03	13100
575705H	208	273	0.03	0.005	< 0.03	12660
575706H	208	273	0.03	0.003	0.14	13880

CERTIFICATION: D. Strathe

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Project : CASINO-200
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Certificate Date: 24-SEP-93
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CERTIFICATE OF ANALYSIS A9321316

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575707H	208	273	0.02	0.002	< 0.03	13580
575708H	208	273	0.04	0.006	0.14	13780
575709H	208	273	0.02	0.005	< 0.03	12640
575710H	208	273	0.02	0.002	< 0.03	13320
575711H	208	273	0.01	0.005	< 0.03	12960
575712H	208	273	0.01	0.003	< 0.03	13000
575713H	208	273	0.03	0.003	< 0.03	13620
575714H	208	270	0.03	0.004	< 0.03	16720

CERTIFICATION: _____

Chemex Labs Ltd.

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. :19321317
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321317

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575547H	299	229	1.6	1.44	24	210	< 0.5	< 2	0.03	< 0.5	2	61	193	4.18	< 10	< 1	1.05	10	0.40	25	32
575548H	299	229	1.2	1.83	22	150	< 0.5	< 2	0.05	< 0.5	3	64	245	5.80	< 10	< 1	0.90	10	0.86	65	54
575549H	299	229	0.6	2.94	6	160	< 0.5	< 2	0.10	< 0.5	3	64	457	6.69	< 10	< 1	1.26	10	1.37	80	26
575550H	299	229	0.6	2.37	20	110	< 0.5	< 2	0.21	< 0.5	9	56	520	6.68	< 10	< 1	1.43	10	1.01	160	22
575551H	299	229	0.8	1.10	24	180	< 0.5	6	0.13	< 0.5	11	96	233	4.36	< 10	< 1	0.78	10	0.14	240	35
575552H	299	229	0.4	0.60	108	130	< 0.5	< 2	0.03	< 0.5	3	168	241	3.78	< 10	< 1	0.66	20	0.03	20	70
575553H	299	229	0.6	0.65	64	170	< 0.5	< 2	0.04	< 0.5	5	183	617	2.76	< 10	< 1	0.45	20	0.03	20	50
575554H	299	229	0.2	0.73	56	130	< 0.5	< 2	0.03	< 0.5	9	219	289	2.32	< 10	< 1	0.41	10	0.03	15	54
575555H	299	229	0.4	0.82	82	40	< 0.5	2	0.03	< 0.5	22	170	811	3.01	< 10	< 1	0.37	20	0.03	15	63
575556H	299	229	0.4	1.09	50	30	0.5	2	0.03	< 0.5	24	206	1100	3.74	< 10	< 1	0.36	20	0.03	15	154
575557H	299	229	0.6	1.16	62	30	0.5	< 2	0.04	< 0.5	25	168	1020	3.61	< 10	< 1	0.40	20	0.04	15	116
575558H	299	229	0.2	0.97	24	20	< 0.5	< 2	0.04	< 0.5	62	178	888	5.28	< 10	< 1	0.46	10	0.04	15	58
575559H	299	229	0.4	0.97	18	20	< 0.5	4	0.03	< 0.5	31	182	1105	3.20	< 10	< 1	0.41	20	0.03	15	41
575560H	299	229	0.2	1.21	14	30	< 0.5	2	0.09	< 0.5	26	203	1180	3.80	< 10	< 1	0.50	20	0.09	20	68
575561H	299	229	0.4	1.14	14	50	< 0.5	< 2	0.07	< 0.5	19	198	812	2.61	< 10	< 1	0.45	20	0.06	20	55
575562H	299	229	0.6	1.08	26	30	< 0.5	2	0.05	< 0.5	22	198	2300	3.11	< 10	< 1	0.40	10	0.05	15	42
575563H	299	229	0.6	1.78	34	30	0.5	< 2	0.08	< 0.5	25	166	4200	3.20	< 10	< 1	0.31	20	0.04	20	51
575564H	299	229	0.4	1.24	24	20	< 0.5	< 2	0.04	< 0.5	35	160	3470	3.10	< 10	< 1	0.36	10	0.05	15	56
575565H	299	229	0.4	2.90	150	100	1.5	< 2	0.44	< 0.5	28	93	6830	2.52	10	< 1	0.17	50	0.08	135	34
575566H	299	229	1.2	1.75	192	80	1.0	< 2	0.44	0.5	22	78	9500	2.38	10	< 1	0.19	50	0.04	100	18
575567H	299	229	1.4	2.06	304	20	1.0	< 2	0.46	0.5	61	79	9380	6.76	10	< 1	0.15	40	0.08	1800	66
575568H	299	229	0.8	0.91	128	10	< 0.5	< 2	0.06	< 0.5	45	101	2900	4.58	< 10	< 1	0.21	10	0.04	10	47
575569H	299	229	1.8	1.16	210	10	0.5	< 2	0.10	0.5	54	147	3380	4.40	< 10	< 1	0.36	10	0.07	20	30
575570H	299	229	1.4	1.37	32	10	0.5	< 2	0.27	0.5	60	82	3990	6.47	< 10	< 1	0.52	20	0.12	1390	14
575571H	299	229	0.6	1.83	10	10	0.5	< 2	0.27	< 0.5	52	94	4590	6.37	< 10	< 1	0.51	20	0.10	205	52
575572H	299	229	2.2	1.12	42	20	0.5	< 2	0.23	< 0.5	33	87	5560	3.38	< 10	< 1	0.42	10	0.09	650	53
575573H	299	229	1.6	1.16	36	10	< 0.5	< 2	0.17	< 0.5	63	128	4290	5.81	< 10	< 1	0.45	< 10	0.07	20	51
575574H	299	229	1.4	0.63	22	10	< 0.5	< 2	0.11	< 0.5	39	113	3440	6.17	< 10	< 1	0.31	< 10	0.07	185	50
575575H	299	229	4.0	1.00	44	10	0.5	< 2	0.08	< 0.5	66	90	>10000	9.65	< 10	< 1	0.23	10	0.08	1325	110
575576H	299	229	0.8	0.74	8	60	< 0.5	< 2	0.07	0.5	23	97	2300	2.79	< 10	< 1	0.25	10	0.03	10	46
575577H	299	229	0.6	1.02	42	40	0.5	< 2	0.07	< 0.5	21	81	4830	2.14	< 10	< 1	0.20	10	0.03	15	40
575578H	299	229	0.6	0.74	58	30	< 0.5	< 2	0.07	< 0.5	22	88	3290	2.24	< 10	< 1	0.13	10	0.04	35	34
575579H	299	229	0.2	0.86	20	40	0.5	< 2	0.04	< 0.5	20	81	3090	2.15	< 10	< 1	0.18	10	0.02	10	24
575580H	299	229	0.2	0.93	16	40	0.5	< 2	0.04	< 0.5	18	91	4940	2.27	< 10	< 1	0.21	10	0.03	5	42
575581H	299	229	0.6	0.94	12	10	< 0.5	< 2	0.03	< 0.5	25	129	3790	3.62	< 10	< 1	0.27	< 10	0.04	10	40
575582H	299	229	0.2	0.93	18	40	0.5	< 2	0.05	< 0.5	18	110	1690	2.18	< 10	< 1	0.28	10	0.04	5	47
575583H	299	229	0.4	1.11	24	20	0.5	< 2	0.06	< 0.5	33	131	2810	2.94	< 10	< 1	0.34	< 10	0.05	10	59
575584H	299	229	0.2	0.93	32	50	0.5	< 2	0.08	< 0.5	24	91	1985	2.74	< 10	< 1	0.20	10	0.03	230	83
575585H	299	229	0.4	1.09	28	30	0.5	< 2	0.07	< 0.5	35	126	2510	3.14	< 10	< 1	0.33	10	0.06	95	27
575586H	299	229	0.4	0.78	22	60	< 0.5	< 2	0.08	< 0.5	36	188	779	3.01	< 10	< 1	0.40	10	0.07	150	76

CERTIFICATION: Bart Bichler

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Total Pages :5
Certificate Date: 24-SEP-93
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CERTIFICATE OF ANALYSIS A9321317

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575547H	299	229	0.04	2	480	8	2	5	63	0.05	< 10	< 10	41	20	22
575548H	299	229	0.09	2	1030	8	2	8	82	0.08	< 10	< 10	76	< 10	42
575549H	299	229	0.16	3	1360	2	2	16	95	0.11	< 10	< 10	143	< 10	58
575550H	299	229	0.06	3	1470	6	2	12	174	0.08	< 10	< 10	108	10	68
575551H	299	229	0.02	2	580	8	8	3	148	< 0.01	< 10	< 10	47	< 10	30
575552H	299	229	0.03	1	590	6	14	< 1	252	< 0.01	< 10	< 10	9	< 10	14
575553H	299	229	0.02	2	330	12	12	< 1	138	< 0.01	< 10	< 10	3	< 10	16
575554H	299	229	0.02	3	260	10	6	< 1	102	< 0.01	< 10	< 10	3	< 10	16
575555H	299	229	0.01	4	370	12	12	1	94	< 0.01	< 10	< 10	5	< 10	26
575556H	299	229	0.01	8	420	12	12	2	117	< 0.01	< 10	< 10	7	< 10	40
575557H	299	229	0.01	6	360	12	14	2	133	< 0.01	< 10	< 10	6	< 10	32
575558H	299	229	0.01	6	320	10	4	1	53	< 0.01	< 10	< 10	6	< 10	26
575559H	299	229	0.01	7	300	8	10	1	84	< 0.01	< 10	< 10	5	< 10	24
575560H	299	229	0.01	6	470	6	2	3	62	< 0.01	< 10	< 10	12	< 10	22
575561H	299	229	0.01	4	280	10	6	1	64	< 0.01	< 10	< 10	4	< 10	16
575562H	299	229	0.01	6	300	12	16	2	119	< 0.01	< 10	< 10	3	< 10	22
575563H	299	229	0.01	10	720	12	22	3	320	< 0.01	< 10	< 10	8	< 10	28
575564H	299	229	0.01	7	290	18	30	1	96	< 0.01	< 10	< 10	4	< 10	28
575565H	299	229	< 0.01	42	2110	20	102	8	169	< 0.01	< 10	< 10	39	< 10	136
575566H	299	229	< 0.01	25	2030	16	206	5	126	< 0.01	< 10	< 10	32	< 10	126
575567H	299	229	< 0.01	28	2250	22	42	6	126	< 0.01	< 10	< 10	39	< 10	166
575568H	299	229	< 0.01	6	290	6	28	1	109	< 0.01	< 10	< 10	4	< 10	36
575569H	299	229	0.01	9	540	4	44	1	134	< 0.01	< 10	< 10	9	< 10	38
575570H	299	229	0.01	6	1180	2	8	3	28	< 0.01	< 10	< 10	28	< 10	52
575571H	299	229	0.01	7	1210	< 2	2	4	32	< 0.01	< 10	< 10	39	< 10	56
575572H	299	229	0.01	6	970	16	44	3	49	< 0.01	< 10	< 10	24	< 10	44
575573H	299	229	0.01	8	810	10	26	2	86	< 0.01	< 10	< 10	15	< 10	30
575574H	299	229	0.01	7	390	8	6	1	16	< 0.01	< 10	< 10	12	< 10	26
575575H	299	229	< 0.01	14	240	6	36	3	12	< 0.01	< 10	< 10	37	< 10	124
575576H	299	229	0.01	5	250	4	4	1	21	< 0.01	< 10	< 10	9	< 10	16
575577H	299	229	< 0.01	8	320	6	70	1	71	< 0.01	< 10	< 10	9	< 10	54
575578H	299	229	< 0.01	8	280	16	90	1	106	< 0.01	< 10	< 10	7	< 10	60
575579H	299	229	< 0.01	7	270	6	46	1	97	< 0.01	< 10	< 10	6	< 10	36
575580H	299	229	< 0.01	9	330	14	12	1	126	< 0.01	< 10	< 10	7	< 10	36
575581H	299	229	< 0.01	7	190	6	18	1	64	< 0.01	< 10	< 10	9	< 10	20
575582H	299	229	0.01	5	260	2	20	1	58	< 0.01	< 10	< 10	8	< 10	26
575583H	299	229	0.01	6	350	2	42	1	59	< 0.01	< 10	< 10	11	< 10	34
575584H	299	229	< 0.01	5	350	8	48	2	108	< 0.01	< 10	< 10	7	< 10	44
575585H	299	229	0.01	6	270	8	38	1	42	< 0.01	< 10	< 10	11	< 10	34
575586H	299	229	0.01	4	240	2	18	1	13	< 0.01	< 10	< 10	6	< 10	32

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575587H	299	229	0.6	1.43	24	50	0.5	< 2	0.10	< 0.5	25	119	1720	2.88	< 10	< 1	0.42	20	0.08	175	60
575588H	299	229	1.4	1.62	22	60	0.5	< 2	0.30	0.5	37	100	3080	3.40	< 10	< 1	0.38	20	0.18	310	137
575589H	299	229	1.0	2.12	14	140	1.0	< 2	1.09	< 0.5	19	74	1520	3.55	10	< 1	0.52	30	0.89	285	14
575590H	299	229	0.4	2.47	12	80	1.0	< 2	1.36	< 0.5	28	72	1535	5.19	10	< 1	1.08	30	1.37	515	39
575591H	299	229	0.8	1.67	10	110	0.5	< 2	1.10	< 0.5	28	74	1715	3.94	< 10	< 1	0.67	30	0.87	335	31
575592H	299	229	0.6	1.15	6	20	0.5	2	1.42	< 0.5	25	97	1630	3.21	< 10	< 1	0.42	20	0.55	385	43
575593H	299	229	0.6	1.07	8	60	0.5	< 2	1.34	< 0.5	24	138	1510	3.51	< 10	< 1	0.46	20	0.61	190	33
575594H	299	229	0.8	1.83	10	40	1.0	< 2	1.40	< 0.5	30	135	1580	3.32	10	< 1	0.60	30	0.67	385	50
575595H	299	229	0.4	1.57	2	30	0.5	2	1.15	< 0.5	30	131	1350	3.11	10	< 1	0.52	20	0.56	285	19
575596H	299	229	0.8	1.46	20	20	0.5	< 2	1.77	< 0.5	29	123	1435	3.46	< 10	< 1	0.44	20	0.75	250	68
575597H	299	229	0.6	1.61	8	40	1.0	< 2	1.45	< 0.5	14	106	1225	2.70	10	< 1	0.44	20	0.74	320	16
575598H	299	229	3.0	1.74	298	30	0.5	6	1.41	0.5	17	129	2030	3.13	10	< 1	0.54	20	0.75	865	170
575599H	299	229	0.6	1.56	12	40	0.5	< 2	1.19	< 0.5	13	111	1385	3.04	< 10	< 1	0.44	30	0.67	170	25
575600H	299	229	1.4	1.44	16	100	0.5	< 2	1.02	< 0.5	18	131	3650	2.74	< 10	< 1	0.38	30	0.42	195	62
575601H	299	229	0.4	1.13	< 2	80	0.5	2	1.13	< 0.5	26	109	1095	3.29	< 10	< 1	0.40	40	0.50	150	65
575602H	299	229	0.6	1.72	6	100	0.5	< 2	1.70	< 0.5	31	111	1515	2.85	< 10	< 1	0.42	30	0.67	290	18
575603H	299	229	0.4	1.36	12	70	0.5	< 2	1.88	< 0.5	23	123	1235	2.82	< 10	< 1	0.39	30	0.61	275	17
575604H	299	229	0.6	1.66	8	130	0.5	< 2	1.50	< 0.5	23	106	1390	2.61	< 10	< 1	0.32	20	0.58	330	17
575605H	299	229	0.8	1.69	26	50	0.5	< 2	1.92	< 0.5	16	120	1815	3.03	< 10	< 1	0.32	30	0.64	360	20
575606H	299	229	1.6	1.45	44	60	0.5	< 2	1.57	< 0.5	21	107	3380	3.62	< 10	< 1	0.37	20	0.58	280	185
575607H	299	229	1.6	1.18	30	60	0.5	< 2	1.28	< 0.5	27	83	3580	2.88	< 10	< 1	0.33	30	0.45	175	64
575608H	299	229	1.6	1.26	20	40	0.5	< 2	1.17	< 0.5	31	112	3140	3.11	< 10	< 1	0.52	20	0.62	145	98
575609H	299	229	1.2	1.29	30	80	0.5	< 2	1.40	< 0.5	28	74	2060	2.82	< 10	< 1	0.39	30	0.56	185	32
575610H	299	229	2.0	1.44	18	60	0.5	< 2	1.04	< 0.5	30	102	3240	3.21	< 10	< 1	0.45	20	0.42	190	50
575611H	299	229	1.2	1.45	84	50	0.5	< 2	0.98	< 0.5	20	80	2060	3.19	< 10	< 1	0.26	20	0.40	315	40
575612H	299	229	1.2	1.36	24	80	0.5	< 2	1.56	< 0.5	26	86	2280	3.02	< 10	< 1	0.32	20	0.63	175	61
575613H	299	229	1.0	0.96	16	70	0.5	< 2	1.35	< 0.5	25	86	2100	2.54	< 10	< 1	0.37	20	0.57	140	59
575614H	299	229	1.8	1.09	58	50	0.5	2	1.91	< 0.5	38	55	3280	3.02	< 10	< 1	0.33	20	0.69	250	134
575615H	299	229	1.4	1.15	58	40	0.5	< 2	1.98	< 0.5	25	97	3060	4.02	< 10	< 1	0.30	20	0.75	310	37
575616H	299	229	1.0	1.30	20	90	0.5	< 2	1.35	< 0.5	25	78	2080	2.40	< 10	< 1	0.34	20	0.53	235	49
575617H	299	229	1.2	1.37	30	60	0.5	< 2	1.58	< 0.5	42	59	2470	2.98	< 10	< 1	0.42	20	0.62	295	120
575618H	299	229	1.4	0.84	28	70	0.5	< 2	1.12	< 0.5	27	59	2710	2.60	< 10	< 1	0.26	20	0.44	315	40
575619H	299	229	1.8	1.45	700	50	0.5	< 2	1.91	0.5	29	60	2730	3.91	< 10	< 1	0.37	20	0.77	975	100
575620H	299	229	0.8	1.43	20	80	0.5	2	1.68	< 0.5	23	71	1580	3.01	< 10	< 1	0.35	20	0.66	415	27
575621H	299	229	0.6	2.23	24	40	1.0	< 2	1.13	< 0.5	24	57	1470	4.29	10	< 1	0.57	30	0.92	260	17
575622H	299	229	1.2	2.16	24	50	0.5	< 2	1.20	< 0.5	31	85	2880	3.52	10	< 1	0.52	20	0.76	225	26
575623H	299	229	1.0	1.43	32	80	0.5	< 2	1.32	< 0.5	35	21	2320	3.77	< 10	< 1	0.27	30	0.53	250	38
575624H	299	229	0.8	1.50	32	120	0.5	< 2	1.37	< 0.5	27	51	2240	3.03	< 10	< 1	0.23	20	0.56	405	31
575625H	299	229	0.8	1.34	30	70	0.5	< 2	1.57	< 0.5	21	39	1645	3.01	< 10	< 1	0.24	20	0.63	255	45
575626H	299	229	0.8	1.36	44	90	0.5	< 2	1.70	< 0.5	25	57	1530	2.83	< 10	< 1	0.30	20	0.67	315	64

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. :19321317
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321317

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575587H	299	229	0.01	4	250	6	16	1	15	< 0.01	< 10	< 10	8	< 10	48
575588H	299	229	0.01	6	560	12	22	4	9	< 0.01	< 10	< 10	22	< 10	60
575589H	299	229	0.01	13	600	6	6	11	30	0.02	< 10	< 10	56	< 10	32
575590H	299	229	0.04	7	770	< 2	< 2	16	41	0.12	< 10	< 10	102	< 10	60
575591H	299	229	0.02	6	600	4	2	9	28	0.04	< 10	< 10	58	< 10	48
575592H	299	229	0.02	4	430	4	2	3	35	< 0.01	< 10	< 10	23	< 10	26
575593H	299	229	0.02	6	410	4	2	3	25	< 0.01	< 10	< 10	21	< 10	22
575594H	299	229	0.02	5	440	< 2	4	4	37	< 0.01	< 10	< 10	30	< 10	28
575595H	299	229	0.03	5	390	< 2	2	4	52	< 0.01	< 10	< 10	28	< 10	28
575596H	299	229	0.01	4	420	6	6	4	36	< 0.01	< 10	< 10	28	< 10	14
575597H	299	229	0.02	3	440	2	6	5	54	< 0.01	< 10	< 10	33	< 10	16
575598H	299	229	0.01	5	470	8	14	4	36	< 0.01	< 10	< 10	30	10	40
575599H	299	229	0.01	4	460	4	6	4	27	< 0.01	< 10	< 10	26	< 10	16
575600H	299	229	0.01	5	510	6	10	6	12	< 0.01	< 10	< 10	29	< 10	12
575601H	299	229	0.01	4	500	2	4	3	13	< 0.01	< 10	< 10	20	< 10	12
575602H	299	229	0.01	6	500	2	4	6	19	< 0.01	< 10	< 10	31	< 10	16
575603H	299	229	0.01	3	440	4	2	4	16	< 0.01	< 10	< 10	25	< 10	12
575604H	299	229	0.01	4	440	2	6	7	24	< 0.01	< 10	< 10	34	< 10	26
575605H	299	229	0.01	4	430	4	6	7	18	< 0.01	< 10	< 10	34	< 10	24
575606H	299	229	0.01	7	410	< 2	22	4	16	< 0.01	< 10	< 10	28	< 10	24
575607H	299	229	0.01	6	430	2	8	6	14	< 0.01	< 10	< 10	34	< 10	24
575608H	299	229	0.01	6	460	2	6	4	23	< 0.01	< 10	< 10	24	< 10	20
575609H	299	229	0.01	5	490	< 2	12	4	13	< 0.01	< 10	< 10	25	< 10	18
575610H	299	229	0.01	6	450	2	6	4	14	< 0.01	< 10	< 10	28	< 10	18
575611H	299	229	0.01	5	540	6	8	7	10	< 0.01	< 10	< 10	36	< 10	24
575612H	299	229	0.01	4	550	2	8	6	15	< 0.01	< 10	< 10	31	< 10	20
575613H	299	229	0.01	5	410	< 2	4	4	15	< 0.01	< 10	< 10	28	< 10	14
575614H	299	229	0.01	6	460	8	6	4	16	< 0.01	< 10	< 10	29	< 10	24
575615H	299	229	0.01	4	550	2	12	4	14	< 0.01	< 10	< 10	21	< 10	28
575616H	299	229	0.01	6	520	4	6	4	14	< 0.01	< 10	< 10	25	< 10	22
575617H	299	229	0.01	4	600	6	12	3	20	< 0.01	< 10	< 10	23	< 10	26
575618H	299	229	< 0.01	4	530	6	16	3	14	< 0.01	< 10	< 10	19	< 10	24
575619H	299	229	0.01	5	540	8	38	5	21	< 0.01	< 10	< 10	29	< 10	42
575620H	299	229	0.01	4	510	6	10	4	16	< 0.01	< 10	< 10	27	< 10	26
575621H	299	229	0.01	3	590	4	6	7	50	0.02	< 10	< 10	44	< 10	26
575622H	299	229	0.01	5	570	4	8	8	95	0.01	< 10	< 10	50	< 10	24
575623H	299	229	0.01	4	710	2	8	7	11	< 0.01	< 10	< 10	33	< 10	20
575624H	299	229	< 0.01	3	620	2	8	6	13	< 0.01	< 10	< 10	36	< 10	18
575625H	299	229	< 0.01	4	520	2	8	5	14	< 0.01	< 10	< 10	35	< 10	24
575626H	299	229	0.01	4	520	2	10	4	17	< 0.01	< 10	< 10	30	< 10	32

CERTIFICATION: Ian Bichler

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Y1A 3S9

Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. :19321317
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321317

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575627H	299	229	0.8	1.47	8	60	0.5	2	1.23	< 0.5	20	89	1665	2.82	< 10	< 1	0.56	20	0.60	175	15
575628H	299	229	1.2	1.51	20	100	0.5	< 2	2.29	< 0.5	24	72	2390	2.73	< 10	< 1	0.61	20	0.87	280	20
575629H	299	229	1.6	2.77	22	150	1.0	< 2	1.53	< 0.5	28	47	2880	3.64	10	< 1	0.84	30	1.19	220	52
575630H	299	229	2.0	1.50	10	110	0.5	14	1.53	< 0.5	26	110	2800	3.26	< 10	< 1	0.58	20	0.69	175	20
575631H	299	229	1.0	1.35	10	50	0.5	< 2	1.31	< 0.5	28	102	2040	2.82	< 10	< 1	0.50	20	0.62	160	39
575632H	299	229	0.6	1.45	8	120	0.5	< 2	1.49	< 0.5	20	109	1235	2.93	10	< 1	0.51	30	0.72	155	25
575633H	299	229	0.8	1.79	8	80	1.0	< 2	1.49	< 0.5	17	108	1330	3.30	< 10	< 1	0.58	20	0.77	185	12
575634H	299	229	1.2	0.92	58	100	0.5	< 2	1.95	< 0.5	16	132	2160	2.94	< 10	< 1	0.45	20	0.66	455	19
575635H	299	229	0.8	1.63	4	90	0.5	< 2	1.42	< 0.5	26	123	1600	3.68	10	< 1	0.41	30	0.89	135	34
575636H	299	229	0.8	1.42	12	100	0.5	2	1.04	< 0.5	16	120	1720	2.62	10	< 1	0.45	30	0.84	105	19
575637H	299	229	0.8	1.26	12	100	0.5	< 2	1.83	< 0.5	20	134	1680	2.70	< 10	< 1	0.52	30	0.65	115	25
575638H	299	229	1.2	1.50	8	90	0.5	< 2	1.10	< 0.5	17	113	1805	3.46	< 10	< 1	0.50	20	0.73	125	16
575639H	299	229	0.6	1.46	2	80	0.5	< 2	0.91	< 0.5	18	102	1680	3.21	< 10	< 1	0.39	20	0.90	100	25
575640H	299	229	0.6	1.30	2	100	0.5	< 2	1.01	< 0.5	14	107	1330	2.81	< 10	< 1	0.43	30	0.78	115	14
575641H	299	229	0.8	1.67	2	130	0.5	< 2	1.11	< 0.5	18	119	1235	3.44	< 10	< 1	0.66	30	0.89	130	20
575642H	299	229	0.6	1.83	8	140	0.5	< 2	1.24	< 0.5	12	119	1215	3.40	< 10	< 1	0.62	20	0.97	90	42
575643H	299	229	0.8	2.03	6	130	0.5	< 2	1.40	< 0.5	14	177	2740	2.90	< 10	< 1	0.59	20	0.99	110	57
575644H	299	229	1.4	1.31	8	100	0.5	< 2	1.35	< 0.5	21	133	3740	3.12	< 10	1	0.45	20	0.61	95	22
575645H	299	229	0.6	1.42	14	80	0.5	< 2	1.68	< 0.5	15	164	1545	3.43	< 10	< 1	0.55	20	0.79	150	15
575646H	299	229	1.2	1.02	28	70	0.5	< 2	1.79	< 0.5	22	131	2180	3.33	< 10	< 1	0.36	20	0.62	165	143
575647H	299	229	0.8	1.54	10	100	0.5	< 2	1.66	< 0.5	19	112	997	3.38	< 10	< 1	0.60	20	0.86	125	28
575648H	299	229	0.8	1.28	38	90	0.5	< 2	1.64	< 0.5	22	107	879	3.18	< 10	< 1	0.49	20	0.72	175	13
575649H	299	229	0.6	1.65	18	130	0.5	< 2	1.92	< 0.5	20	145	1065	3.12	< 10	< 1	0.65	20	0.76	110	29
575650H	299	229	0.4	1.49	8	90	< 0.5	< 2	1.64	< 0.5	25	141	563	2.96	< 10	< 1	0.67	20	0.96	80	7
575651H	299	229	0.6	1.64	4	100	< 0.5	< 2	1.61	< 0.5	36	178	990	3.26	< 10	< 1	0.73	20	0.98	90	11
575652H	299	229	0.6	1.44	14	60	0.5	< 2	1.76	< 0.5	27	197	411	3.34	< 10	< 1	0.64	20	0.86	80	12
575653H	299	229	0.4	1.56	4	70	0.5	< 2	1.78	< 0.5	24	138	188	3.35	< 10	< 1	0.63	20	0.86	70	15
575654H	299	229	0.6	1.60	12	70	0.5	< 2	1.77	< 0.5	34	178	635	3.11	< 10	< 1	0.58	20	0.71	95	37
575655H	299	229	0.8	1.49	26	30	0.5	< 2	1.34	< 0.5	36	165	749	3.73	< 10	< 1	0.39	20	0.56	325	14
575656H	299	229	0.6	1.34	16	40	0.5	< 2	1.32	< 0.5	43	155	533	3.79	< 10	< 1	0.33	20	0.56	155	49
575657H	299	229	2.2	1.00	46	20	0.5	< 2	1.47	< 0.5	76	149	1770	4.85	< 10	< 1	0.40	20	0.62	465	21
575658H	299	229	0.6	0.72	10	60	0.5	< 2	1.54	< 0.5	29	126	620	3.61	< 10	< 1	0.28	10	0.63	125	18
575659H	299	229	0.6	0.68	18	40	0.5	< 2	1.37	< 0.5	44	115	591	3.70	< 10	< 1	0.27	10	0.53	130	10
575660H	299	229	0.8	0.65	14	40	0.5	< 2	1.04	< 0.5	35	131	587	4.34	< 10	< 1	0.33	10	0.42	110	61
575661H	299	229	0.4	0.65	10	30	0.5	2	0.76	< 0.5	34	108	358	3.94	< 10	< 1	0.34	10	0.32	90	14
575662H	299	229	0.6	1.14	16	20	0.5	2	0.98	< 0.5	32	122	456	4.85	< 10	< 1	0.42	10	0.41	195	31
575663H	299	229	0.6	1.08	20	30	0.5	< 2	1.46	< 0.5	40	145	623	4.03	< 10	< 1	0.39	10	0.60	195	68
575664H	299	229	0.4	0.90	8	40	0.5	2	1.26	< 0.5	37	148	379	4.23	< 10	< 1	0.37	20	0.54	165	34
575665H	299	229	0.6	0.85	16	30	0.5	< 2	0.96	< 0.5	38	125	454	4.23	< 10	< 1	0.35	10	0.41	190	30
575666H	299	229	0.8	1.04	30	40	0.5	< 2	1.27	< 0.5	50	116	1005	5.05	< 10	< 1	0.33	10	0.46	235	24

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575627H	299	229	0.01	4	480	2	6	3	25	< 0.01	< 10	< 10	27	< 10	18
575628H	299	229	0.01	5	530	< 2	6	4	23	0.01	< 10	< 10	38	< 10	16
575629H	299	229	0.01	5	700	4	6	6	38	0.03	< 10	< 10	41	< 10	26
575630H	299	229	0.01	6	510	8	4	3	27	0.01	< 10	< 10	31	< 10	24
575631H	299	229	0.02	4	490	< 2	2	3	33	0.01	< 10	< 10	27	< 10	20
575632H	299	229	0.04	3	460	< 2	2	5	29	0.01	< 10	< 10	43	< 10	18
575633H	299	229	0.02	3	480	< 2	2	3	53	0.01	< 10	< 10	33	< 10	24
575634H	299	229	0.01	4	440	4	8	2	31	< 0.01	< 10	< 10	21	< 10	20
575635H	299	229	0.05	5	490	2	2	5	35	0.01	< 10	< 10	43	< 10	18
575636H	299	229	0.04	4	440	4	2	5	33	0.01	< 10	< 10	43	< 10	18
575637H	299	229	0.02	4	440	8	2	4	42	0.01	< 10	< 10	32	< 10	18
575638H	299	229	0.03	3	440	2	2	4	35	0.01	< 10	< 10	38	< 10	24
575639H	299	229	0.06	3	460	6	2	6	28	0.01	< 10	< 10	46	< 10	20
575640H	299	229	0.06	3	470	4	2	5	29	0.01	< 10	< 10	42	< 10	22
575641H	299	229	0.05	3	460	2	< 2	6	45	0.03	< 10	< 10	47	< 10	22
575642H	299	229	0.05	2	460	2	4	6	48	0.03	< 10	< 10	52	< 10	16
575643H	299	229	0.06	5	480	< 2	< 2	6	54	0.02	< 10	< 10	49	< 10	24
575644H	299	229	0.02	4	430	< 2	2	4	29	0.01	< 10	< 10	34	< 10	18
575645H	299	229	0.04	3	420	< 2	2	4	92	0.02	< 10	< 10	38	< 10	22
575646H	299	229	0.01	3	460	8	2	4	41	< 0.01	< 10	< 10	26	< 10	22
575647H	299	229	0.04	3	460	< 2	4	5	92	0.03	< 10	< 10	46	< 10	24
575648H	299	229	0.02	3	500	< 2	4	4	84	0.02	< 10	< 10	38	< 10	24
575649H	299	229	0.03	3	470	2	2	6	79	0.02	< 10	< 10	46	< 10	18
575650H	299	229	0.06	4	490	< 2	2	8	94	0.07	< 10	< 10	58	< 10	18
575651H	299	229	0.07	3	460	< 2	< 2	7	90	0.06	< 10	< 10	55	< 10	22
575652H	299	229	0.05	4	480	4	2	5	127	0.02	< 10	< 10	39	< 10	18
575653H	299	229	0.02	3	500	< 2	2	4	163	0.02	< 10	< 10	34	< 10	16
575654H	299	229	0.03	3	420	2	2	4	93	0.02	< 10	< 10	36	< 10	20
575655H	299	229	0.01	4	500	4	6	4	25	< 0.01	< 10	< 10	28	< 10	24
575656H	299	229	0.01	4	500	6	4	4	19	< 0.01	< 10	< 10	28	< 10	20
575657H	299	229	0.01	6	440	12	8	2	21	< 0.01	< 10	< 10	16	< 10	34
575658H	299	229	0.01	5	510	6	2	2	16	< 0.01	< 10	< 10	12	< 10	20
575659H	299	229	0.01	4	440	6	2	1	19	< 0.01	< 10	< 10	12	< 10	26
575660H	299	229	0.01	6	470	8	2	1	19	< 0.01	< 10	< 10	10	< 10	28
575661H	299	229	0.01	4	450	10	2	1	13	< 0.01	< 10	< 10	9	< 10	18
575662H	299	229	0.01	6	440	12	12	2	21	< 0.01	< 10	< 10	17	< 10	24
575663H	299	229	0.01	6	450	4	8	2	23	< 0.01	< 10	< 10	17	< 10	20
575664H	299	229	0.01	5	470	4	4	2	19	< 0.01	< 10	< 10	13	< 10	16
575665H	299	229	0.01	4	450	6	4	2	18	< 0.01	< 10	< 10	15	< 10	24
575666H	299	229	0.01	6	380	8	26	3	12	< 0.01	< 10	< 10	19	< 10	32

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575667H	299	229	0.8	0.87	16	30	0.5	< 2	1.31	< 0.5	32	43	773	3.42	< 10	< 1	0.13	20	0.54	220	10
575668H	299	229	0.6	1.10	14	80	0.5	< 2	1.70	< 0.5	38	65	775	3.41	< 10	< 1	0.30	10	0.69	250	47
575669H	299	229	0.8	0.74	16	70	0.5	< 2	1.95	< 0.5	43	101	999	3.16	< 10	< 1	0.26	20	0.73	120	22
575670H	299	229	0.4	1.14	4	60	0.5	< 2	2.14	< 0.5	26	100	496	3.25	< 10	< 1	0.48	20	0.84	100	9
575671H	299	229	0.6	0.98	8	90	0.5	< 2	1.81	< 0.5	44	87	864	3.62	< 10	< 1	0.41	20	0.83	95	17
575672H	299	229	0.4	0.98	< 2	60	0.5	< 2	2.01	< 0.5	41	104	441	3.96	< 10	< 1	0.48	20	0.85	75	21
575673H	299	229	0.4	0.98	4	80	0.5	2	2.06	< 0.5	30	83	366	3.36	< 10	< 1	0.51	20	0.88	75	24
575674H	299	229	0.4	1.40	2	80	0.5	< 2	1.74	< 0.5	22	113	315	3.52	< 10	< 1	0.50	20	1.06	105	9
575675H	299	229	0.4	1.32	2	60	0.5	< 2	1.70	< 0.5	26	95	335	3.81	< 10	< 1	0.56	20	1.08	70	23
575676H	299	229	0.4	1.41	2	50	0.5	< 2	1.44	< 0.5	22	128	328	4.29	< 10	< 1	0.49	20	1.01	70	18
575677H	299	229	0.4	1.19	2	60	0.5	< 2	1.78	< 0.5	42	89	380	4.41	< 10	< 1	0.49	20	0.83	95	27
575678H	299	229	0.8	0.83	8	40	0.5	< 2	1.74	< 0.5	47	119	477	4.41	< 10	1	0.25	20	0.69	170	17
575679H	299	229	0.6	0.82	4	10	0.5	< 2	1.03	< 0.5	50	87	261	5.96	< 10	< 1	0.38	10	0.52	85	15
575680H	299	229	0.4	0.98	< 2	10	0.5	< 2	1.50	< 0.5	40	103	308	5.35	< 10	< 1	0.36	10	0.69	70	11
575681H	299	229	0.4	0.75	10	20	0.5	< 2	1.48	< 0.5	35	107	321	4.60	< 10	< 1	0.30	20	0.59	155	27
575682H	299	229	0.4	0.98	12	30	0.5	< 2	1.75	< 0.5	29	115	270	4.30	< 10	< 1	0.37	10	0.68	345	13
575683H	299	229	0.6	1.28	8	30	1.0	< 2	1.81	< 0.5	33	103	328	4.88	< 10	< 1	0.52	20	0.89	145	9
575684H	299	229	0.6	1.10	10	10	0.5	< 2	1.73	< 0.5	59	139	534	5.57	< 10	< 1	0.36	10	0.73	130	29
575685H	299	229	0.4	1.15	2	20	0.5	< 2	1.54	< 0.5	35	99	366	5.01	< 10	< 1	0.41	20	0.71	85	24
575686H	299	229	0.4	1.37	12	30	0.5	< 2	1.98	< 0.5	26	133	328	4.39	< 10	< 1	0.51	20	0.86	75	14
575687H	299	229	0.6	1.04	4	20	0.5	< 2	1.67	< 0.5	26	109	366	4.45	< 10	< 1	0.38	20	0.76	70	12
575688H	299	229	6.2	0.79	40	20	0.5	4	1.70	16.5	39	105	669	4.67	< 10	< 1	0.21	20	0.64	210	28
575689H	299	229	0.8	0.71	12	40	0.5	< 2	1.67	< 0.5	37	77	379	4.41	< 10	< 1	0.13	10	0.70	200	6
575690H	299	229	0.6	0.93	8	20	0.5	< 2	1.60	< 0.5	66	76	311	4.79	< 10	< 1	0.16	20	0.62	190	17
575691H	299	229	0.4	0.83	6	50	0.5	< 2	1.95	< 0.5	21	80	260	3.56	< 10	< 1	0.17	10	0.69	160	2
575692H	299	229	0.6	1.24	< 2	20	0.5	< 2	2.21	< 0.5	32	124	293	4.29	< 10	< 1	0.40	10	0.90	95	3
575693H	299	229	0.6	1.01	14	40	0.5	< 2	1.87	< 0.5	26	87	340	3.96	< 10	< 1	0.27	20	0.77	150	14
575694H	299	229	0.6	0.96	14	30	0.5	2	2.43	< 0.5	34	86	321	3.92	< 10	< 1	0.17	10	0.90	270	11
575695H	299	229	1.0	0.69	8	20	0.5	< 2	2.13	< 0.5	34	93	309	4.24	< 10	< 1	0.18	10	0.85	220	14
575696H	299	229	0.6	0.85	12	10	0.5	< 2	1.35	< 0.5	38	104	154	4.89	< 10	< 1	0.28	10	0.52	90	10
575697H	299	229	1.0	0.85	14	10	0.5	< 2	1.42	0.5	23	107	370	4.44	< 10	< 1	0.30	10	0.61	105	9
575698H	299	229	1.4	1.17	2	30	0.5	< 2	1.63	1.0	27	119	286	4.32	< 10	< 1	0.49	10	0.72	110	85
575699H	299	229	0.6	0.93	4	50	0.5	< 2	2.10	< 0.5	18	77	431	4.14	< 10	< 1	0.46	10	0.86	65	6
575700H	299	229	0.6	0.91	4	40	0.5	< 2	2.24	< 0.5	22	124	155	4.27	< 10	< 1	0.35	10	0.97	70	11
575701H	299	229	0.6	0.75	6	40	0.5	< 2	2.21	< 0.5	21	91	170	3.66	< 10	< 1	0.26	10	0.79	75	3
575702H	299	229	0.8	0.69	6	30	0.5	< 2	1.42	< 0.5	37	105	246	4.80	< 10	< 1	0.28	10	0.53	75	6
575703H	299	229	0.6	0.72	4	40	0.5	< 2	1.84	< 0.5	33	104	188	4.42	< 10	< 1	0.19	10	0.59	150	12
575704H	299	229	0.6	0.56	8	20	0.5	< 2	1.74	< 0.5	35	99	234	4.39	< 10	< 1	0.18	10	0.58	115	24
575705H	299	229	0.8	0.85	12	30	0.5	< 2	1.81	< 0.5	35	82	266	3.85	< 10	< 1	0.25	10	0.75	245	26
575706H	299	229	2.4	0.64	62	50	0.5	< 2	1.92	1.0	36	102	335	4.21	< 10	< 1	0.24	10	0.80	595	15

CERTIFICATION: Stuart Buchler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. :19321317
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321317

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575667H	299	229	< 0.01	3	490	12	14	6	12	< 0.01	< 10	< 10	25	< 10	44
575668H	299	229	0.01	5	570	12	6	4	18	< 0.01	< 10	< 10	23	< 10	28
575669H	299	229	0.01	5	450	2	2	2	18	< 0.01	< 10	< 10	16	< 10	18
575670H	299	229	0.03	4	480	6	2	6	162	0.03	< 10	< 10	45	< 10	22
575671H	299	229	0.02	6	450	6	2	4	139	0.02	< 10	< 10	35	< 10	20
575672H	299	229	0.02	4	430	2	< 2	4	263	0.02	< 10	< 10	33	< 10	18
575673H	299	229	0.03	4	450	6	2	4	192	0.03	< 10	< 10	36	< 10	18
575674H	299	229	0.05	5	530	4	2	7	110	0.03	< 10	< 10	50	< 10	28
575675H	299	229	0.03	5	570	2	< 2	6	129	0.03	< 10	< 10	47	< 10	18
575676H	299	229	0.06	6	510	2	2	7	105	0.03	< 10	< 10	50	< 10	18
575677H	299	229	0.02	4	500	6	< 2	4	123	0.01	< 10	< 10	31	< 10	24
575678H	299	229	0.01	4	550	8	4	3	24	< 0.01	< 10	< 10	20	< 10	28
575679H	299	229	0.01	5	450	4	< 2	2	20	< 0.01	< 10	< 10	17	< 10	28
575680H	299	229	0.01	3	500	10	< 2	3	41	< 0.01	< 10	< 10	23	< 10	30
575681H	299	229	0.01	4	520	18	2	2	41	< 0.01	< 10	< 10	17	< 10	42
575682H	299	229	0.02	4	510	16	2	3	79	< 0.01	< 10	< 10	23	< 10	54
575683H	299	229	0.02	7	540	8	2	4	111	0.01	< 10	< 10	35	< 10	40
575684H	299	229	0.01	6	580	6	2	3	43	< 0.01	< 10	< 10	22	< 10	20
575685H	299	229	0.02	6	510	2	2	4	97	0.01	< 10	< 10	30	20	12
575686H	299	229	0.02	6	610	2	4	7	109	0.02	< 10	< 10	45	< 10	16
575687H	299	229	0.02	4	510	4	< 2	5	88	0.01	< 10	< 10	35	< 10	16
575688H	299	229	< 0.01	5	520	396	16	4	26	< 0.01	< 10	< 10	22	< 10	1035
575689H	299	229	< 0.01	4	510	16	4	7	23	< 0.01	< 10	< 10	28	< 10	26
575690H	299	229	< 0.01	4	470	8	10	6	18	< 0.01	< 10	< 10	28	< 10	18
575691H	299	229	< 0.01	3	500	12	2	7	20	< 0.01	< 10	< 10	27	< 10	14
575692H	299	229	0.02	4	450	4	< 2	6	94	0.01	< 10	< 10	31	< 10	12
575693H	299	229	0.01	4	430	6	4	5	29	< 0.01	< 10	< 10	27	< 10	14
575694H	299	229	< 0.01	4	380	6	10	6	24	< 0.01	< 10	< 10	25	< 10	18
575695H	299	229	< 0.01	3	410	44	12	4	23	< 0.01	< 10	< 10	18	< 10	20
575696H	299	229	0.01	4	470	6	4	4	19	< 0.01	< 10	< 10	19	< 10	16
575697H	299	229	0.01	4	520	18	6	4	55	< 0.01	< 10	< 10	23	< 10	58
575698H	299	229	0.04	4	440	48	2	5	124	0.02	< 10	< 10	36	< 10	90
575699H	299	229	0.02	4	500	6	< 2	6	300	0.03	< 10	< 10	36	< 10	14
575700H	299	229	0.01	2	410	4	2	4	89	< 0.01	< 10	< 10	28	70	12
575701H	299	229	0.01	4	370	8	2	3	58	< 0.01	< 10	< 10	18	< 10	18
575702H	299	229	0.01	4	430	4	< 2	3	27	< 0.01	< 10	< 10	18	< 10	12
575703H	299	229	< 0.01	3	430	6	2	4	17	< 0.01	< 10	< 10	18	< 10	14
575704H	299	229	< 0.01	4	320	2	2	3	18	< 0.01	< 10	< 10	13	< 10	14
575705H	299	229	0.01	4	350	6	6	4	23	< 0.01	< 10	< 10	20	< 10	18
575706H	299	229	0.01	4	270	44	18	3	24	< 0.01	< 10	< 10	15	< 10	86

CERTIFICATION: Stewart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-200
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. :19321317
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321317

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575707H	299	229	1.4	0.55	2	20	0.5	< 2	1.60	1.0	18	37	186	4.63	< 10	< 1	0.20	10	0.68	130	7
575708H	299	229	1.4	0.91	36	10	0.5	< 2	1.71	7.5	43	106	398	4.84	< 10	< 1	0.33	10	0.73	440	28
575709H	299	229	1.0	1.06	12	20	< 0.5	< 2	1.62	< 0.5	72	105	244	4.93	< 10	< 1	0.25	10	0.65	115	24
575710H	299	229	4.0	1.46	16	30	0.5	< 2	2.03	0.5	23	139	181	4.35	< 10	< 1	0.60	10	0.87	715	9
575711H	299	229	0.8	1.13	6	40	0.5	< 2	1.79	< 0.5	23	82	139	3.14	< 10	< 1	0.39	10	0.62	155	24
575712H	299	229	0.8	1.27	4	20	< 0.5	< 2	1.74	< 0.5	31	95	131	4.04	< 10	< 1	0.31	20	0.59	75	12
575713H	299	229	0.6	0.74	10	20	< 0.5	< 2	1.68	< 0.5	28	52	258	4.19	< 10	< 1	0.19	10	0.59	100	10
575714H	299	229	0.8	1.39	4	30	0.5	< 2	1.59	< 0.5	22	75	321	3.68	< 10	< 1	0.40	20	0.62	60	14

CERTIFICATION: Ian Bucklen

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CERTIFICATE OF ANALYSIS A9321317

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575707H	299	229	0.01	2	410	30	< 2	3	48	< 0.01	< 10	< 10	19	< 10	84
575708H	299	229	0.01	4	370	90	12	2	35	< 0.01	< 10	< 10	15	< 10	406
575709H	299	229	0.01	6	450	8	2	4	32	< 0.01	< 10	< 10	23	< 10	16
575710H	299	229	0.04	5	410	14	14	5	154	0.02	< 10	< 10	36	< 10	40
575711H	299	229	0.02	3	350	2	2	3	117	0.01	< 10	< 10	26	< 10	12
575712H	299	229	0.01	4	470	4	< 2	5	41	< 0.01	< 10	< 10	27	< 10	12
575713H	299	229	< 0.01	4	460	4	4	4	26	< 0.01	< 10	< 10	19	< 10	14
575714H	299	229	0.02	5	450	4	2	5	81	0.01	< 10	< 10	29	< 10	14

CERTIFICATION: Ian Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 201
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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
574198H	208	276	0.05	0.012	0.58	8200
574199H	208	274	0.05	0.010	0.89	6680
574200H	208	276	0.08	0.016	0.62	10280
574201H	208	276	0.03	0.009	0.48	9740
574202H	208	276	0.03	0.009	0.45	8240
574203H	208	276	0.04	0.004	0.55	7560
574204H	208	274	0.04	0.009	0.75	4600
574205H	208	276	0.06	0.008	0.51	10580
574206H	208	274	0.05	0.005	0.51	5620
574207H	208	276	0.05	0.003	0.24	8200
574208H	208	276	0.02	0.011	0.58	8080
574209H	208	276	0.04	0.013	0.82	10580
574210H	208	274	0.03	0.014	0.62	5760
574211H	208	276	0.02	0.012	0.62	7780
574212H	208	276	0.02	0.008	0.51	7760
574213H	208	274	0.04	0.006	0.48	6220
574214H	208	276	0.04	0.011	0.51	10360
574215H	208	276	0.03	0.008	0.34	8400
574216H	208	274	0.03	0.009	0.31	4900
574217H	208	276	0.01	0.020	0.55	8280
574218H	208	276	0.01	0.015	0.55	7580
574219H	208	274	0.03	0.015	0.48	5500
574220H	208	276	0.04	0.016	0.51	8060
574221H	208	274	0.08	0.009	0.48	6080
574222H	208	274	0.04	0.007	0.41	5120
574223H	208	276	0.04	0.009	0.62	9400
574224H	208	276	0.09	0.007	0.51	11620
574225H	208	276	0.14	0.007	0.48	10480
574226H	208	273	0.13	0.008	0.51	13320
574227H	208	273	0.22	0.005	0.55	14100
574228H	208	273	0.13	0.009	0.48	13720
574229H	208	273	0.28	0.013	0.62	14040
574230H	208	273	0.23	0.010	0.38	13660
574231H	208	273	0.31	0.007	0.69	14020
574232H	208	273	0.23	0.007	0.41	14420
574233H	208	273	0.35	0.010	0.55	14200
574234H	208	273	0.50	0.010	0.58	11980
574235H	208	276	0.37	0.008	0.55	7680
574236H	208	273	0.26	0.008	0.51	14580
574237H	208	273	0.26	0.015	0.51	16280

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CERTIFICATE OF ANALYSIS A9321367

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
574238H	208	273	0.24	0.019	0.58	13300						
574239H	208	273	0.30	0.008	0.51	12200						
574240H	208	273	0.22	0.008	0.31	12340						
574241H	208	273	0.23	0.012	0.21	12520						
574242H	208	273	0.26	0.011	0.24	13460						
574243H	208	273	0.29	0.014	0.31	12080						
574244H	208	273	0.63	0.014	0.38	12340						
574245H	208	273	0.28	0.008	0.38	12420						
574246H	208	273	0.69	0.015	0.41	13080						
574247H	208	273	0.36	0.009	0.48	12600						
574248H	208	276	0.36	0.019	0.65	11380						
574249H	208	273	0.41	0.020	0.62	12460						
574250H	208	276	0.32	0.020	0.41	11580						
574251H	208	273	0.46	0.036	0.89	12860						
574252H	208	273	0.34	0.047	0.82	12140						
574253H	208	273	0.47	0.056	0.86	12260						
574254H	208	276	0.37	0.017	0.45	11200						
574255H	208	273	0.24	0.011	0.31	12320						
574256H	208	273	0.20	0.027	0.27	13140						
574257H	208	276	0.35	0.022	0.31	11780						
574258H	208	273	0.31	0.027	0.34	13080						
574259H	208	276	0.20	0.008	0.27	10120						
574260H	208	273	0.12	0.009	0.21	11820						
574261H	208	273	0.17	0.019	0.24	12380						
574262H	208	273	0.23	0.020	0.24	11860						
574263H	208	276	0.20	0.010	0.21	10900						
574264H	208	273	0.24	0.011	0.14	13340						
574265H	208	273	0.49	0.009	0.14	11960						
574266H	208	276	0.34	0.014	0.10	9340						
574267H	208	273	0.20	0.012	0.17	13840						
574268H	208	273	0.14	0.006	0.21	11940						
574269H	208	273	1.09	0.025	0.62	12280						
574270H	208	276	0.17	0.014	0.21	10740						
574271H	208	273	0.15	0.010	0.14	12360						
574272H	208	273	0.21	0.010	0.17	13120						
574273H	208	276	0.17	0.020	0.21	11520						
574274H	208	273	0.19	0.036	0.27	12380						
574275H	208	273	0.33	0.031	0.31	13820						
574276H	208	273	0.21	0.026	0.21	12140						
574277H	208	273	0.14	0.022	0.14	12480						

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CERTIFICATE OF ANALYSIS A9321367

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574278H	208 273	0.17	0.019	0.17	12300
574279H	208 276	0.16	0.017	0.14	9180
574280H	208 276	0.24	0.019	0.24	8140
574281H	208 276	0.16	0.027	0.14	10360
574282H	208 276	0.59	0.016	0.21	9080
574283H	208 276	0.19	0.007	0.21	9720
574284H	208 273	0.16	0.036	0.21	13300
574285H	208 273	0.11	0.020	0.14	13260
574286H	208 273	0.18	0.039	0.17	12880
574287H	208 273	0.17	0.017	0.17	13960
574288H	208 273	0.23	0.054	0.24	13600
574289H	208 273	0.15	0.055	0.24	13280
574290H	208 273	0.15	0.039	0.21	13200
574291H	208 273	0.20	0.033	0.24	12760
574292H	208 273	0.11	0.016	0.21	13620
574293H	208 273	0.20	0.026	0.31	12260
574294H	208 273	0.18	0.032	0.17	13540
574295H	208 273	0.24	0.057	0.27	13600
574296H	208 273	0.13	0.040	0.17	11940
574297H	208 273	0.14	0.043	0.21	13160
574298H	208 273	0.14	0.077	0.14	12080
574299H	208 276	0.11	0.059	0.10	9020
574300H	208 273	0.15	0.051	0.17	11820
574301H	208 273	0.15	0.106	0.10	12680
574302H	208 273	0.14	0.066	0.10	12860
574303H	208 276	0.12	0.057	0.14	10920
574304H	208 276	0.12	0.029	0.10	11560
574305H	208 276	0.10	0.024	0.07	10660
574306H	208 276	0.10	0.024	0.10	9780
574307H	208 276	0.04	0.011	< 0.03	10180
574308H	208 276	0.08	0.018	0.07	10360
574309H	208 276	0.09	0.023	0.03	8020
574310H	208 276	0.10	0.007	0.03	11060
574311H	208 276	0.11	0.013	0.07	9520
574312H	208 276	0.03	0.004	0.03	11080
574313H	208 273	0.04	0.012	< 0.03	12220
574314H	208 276	0.05	0.051	0.07	10900
574315H	208 276	0.04	0.028	< 0.03	11080
574316H	208 276	0.06	0.027	0.03	11160
574317H	208 276	0.05	0.017	< 0.03	10480

CERTIFICATION: Saul Zeruk

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 201
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. :19321367
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321367

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
574318H	208	276	0.07	0.017	0.07	11080
574319H	208	276	0.05	0.024	0.03	10900
574320H	208	276	0.06	0.044	0.07	10280
574321H	208	276	0.07	0.041	0.03	9660
574322H	208	276	0.09	0.048	0.07	10600
574323H	208	276	0.06	0.044	0.03	11220
574324H	208	276	0.08	0.023	0.07	11780
574325H	208	273	0.05	0.075	< 0.03	12040
574326H	208	276	0.05	0.079	< 0.03	10660
574327H	208	274	0.08	0.097	0.07	6760

CERTIFICATION: Geoff Chamberlain

Chemex Labs Ltd.

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Certificate Date: 24-SEP-93
Invoice No. :I9321368
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574198H	299	229	2.6	0.81	114	130	< 0.5	2	0.01	< 0.5	1	43	469	5.17	< 10	< 1	0.43	20	0.24	40	73
574199H	299	229	2.4	0.78	38	170	< 0.5	4	0.01	< 0.5	1	63	432	5.86	< 10	< 1	0.84	30	0.15	35	56
574200H	299	229	2.8	0.73	120	190	< 0.5	20	0.01	< 0.5	3	47	728	7.57	< 10	< 1	0.87	30	0.06	40	91
574201H	299	229	2.4	0.93	96	270	< 0.5	16	0.01	< 0.5	1	58	335	5.70	< 10	< 1	0.83	30	0.09	30	52
574202H	299	229	2.2	1.06	112	160	< 0.5	8	0.01	< 0.5	1	49	337	5.60	< 10	< 1	0.67	30	0.29	115	56
574203H	299	229	2.2	1.20	110	190	< 0.5	6	0.01	< 0.5	1	53	339	4.76	< 10	< 1	0.77	30	0.31	60	25
574204H	299	229	2.8	0.97	80	230	< 0.5	6	0.01	< 0.5	1	59	408	4.76	< 10	< 1	0.64	20	0.29	65	52
574205H	299	229	1.6	1.26	52	330	0.5	2	0.01	< 0.5	2	78	529	6.20	< 10	< 1	0.56	20	0.39	80	46
574206H	299	229	2.2	1.04	62	250	< 0.5	4	0.01	< 0.5	1	64	429	5.87	< 10	< 1	0.54	20	0.34	65	30
574207H	299	229	0.6	1.80	60	170	0.5	4	0.01	< 0.5	2	62	425	4.95	< 10	< 1	0.72	20	0.50	90	13
574208H	299	229	2.2	0.62	36	160	< 0.5	6	0.01	< 0.5	1	51	187	6.00	< 10	< 1	0.64	20	0.14	35	62
574209H	299	229	2.6	1.06	42	140	< 0.5	2	0.01	< 0.5	1	64	345	7.11	< 10	< 1	0.85	20	0.31	45	73
574210H	299	229	2.2	0.52	30	180	< 0.5	2	0.01	< 0.5	2	51	304	6.22	< 10	< 1	0.72	10	0.04	50	82
574211H	299	229	2.6	0.81	50	240	< 0.5	2	0.01	< 0.5	< 1	76	221	5.83	< 10	< 1	0.93	30	0.07	35	67
574212H	299	229	3.2	0.51	38	280	< 0.5	38	0.01	< 0.5	2	85	219	4.50	< 10	< 1	0.61	20	0.07	45	50
574213H	299	229	1.4	1.63	42	150	< 0.5	4	0.02	< 0.5	1	85	387	6.52	10	< 1	0.94	20	0.62	95	34
574214H	299	229	1.8	1.08	38	230	< 0.5	4	0.01	< 0.5	1	76	368	6.50	< 10	< 1	0.72	20	0.38	85	63
574215H	299	229	1.2	1.51	32	250	< 0.5	2	0.02	< 0.5	1	80	304	5.83	< 10	< 1	0.71	20	0.55	75	45
574216H	299	229	1.6	1.13	24	350	< 0.5	4	0.03	< 0.5	1	79	259	4.93	< 10	< 1	0.65	30	0.37	75	57
574217H	299	229	3.2	0.62	30	220	< 0.5	4	0.01	< 0.5	2	145	134	3.83	< 10	< 1	0.65	30	0.07	55	119
574218H	299	229	2.6	0.55	26	210	< 0.5	6	0.02	< 0.5	2	110	124	2.71	< 10	< 1	0.56	30	0.06	35	90
574219H	299	229	3.0	0.82	34	210	< 0.5	2	0.01	< 0.5	2	121	254	5.05	< 10	< 1	0.92	20	0.07	45	89
574220H	299	229	3.6	0.83	34	200	< 0.5	6	0.01	< 0.5	2	90	417	5.32	< 10	< 1	0.86	30	0.07	45	95
574221H	299	229	1.6	1.07	34	180	< 0.5	< 2	0.01	< 0.5	2	69	736	5.62	< 10	< 1	0.68	20	0.11	45	49
574222H	299	229	2.4	0.59	26	180	< 0.5	2	0.02	< 0.5	2	83	421	5.04	< 10	< 1	0.71	10	0.05	65	40
574223H	299	229	3.2	0.78	26	180	< 0.5	6	0.02	< 0.5	3	112	366	3.44	< 10	< 1	0.61	20	0.07	40	54
574224H	299	229	2.4	0.70	28	80	< 0.5	4	0.01	< 0.5	7	93	905	4.48	< 10	< 1	0.50	20	0.09	40	45
574225H	299	229	3.0	1.10	40	50	< 0.5	8	0.03	< 0.5	12	63	1475	6.11	< 10	< 1	0.66	20	0.34	80	43
574226H	299	229	2.6	1.10	16	100	0.5	< 2	0.02	< 0.5	11	69	1255	5.55	< 10	< 1	0.58	20	0.26	135	45
574227H	299	229	3.8	0.86	40	20	< 0.5	18	0.04	< 0.5	12	42	2170	7.89	< 10	< 1	0.41	10	0.20	85	32
574228H	299	229	2.0	0.91	58	20	< 0.5	8	0.03	< 0.5	16	87	1385	7.91	< 10	1	0.50	10	0.12	80	50
574229H	299	229	2.6	0.71	24	20	< 0.5	< 2	0.05	< 0.5	16	54	2820	7.76	< 10	< 1	0.33	10	0.13	95	75
574230H	299	229	1.8	0.86	44	30	< 0.5	< 2	0.09	< 0.5	17	74	2300	8.06	< 10	1	0.40	10	0.31	115	60
574231H	299	229	2.4	0.94	54	40	< 0.5	6	0.28	< 0.5	16	42	2980	7.48	< 10	< 1	0.35	20	0.72	345	36
574232H	299	229	1.6	1.10	36	30	< 0.5	< 2	0.17	< 0.5	18	65	2220	7.80	< 10	< 1	0.38	10	0.50	170	36
574233H	299	229	2.8	0.85	58	80	< 0.5	< 2	0.11	< 0.5	14	53	3310	6.51	< 10	1	0.27	20	0.27	165	61
574234H	299	229	4.4	1.09	88	30	< 0.5	10	0.28	< 0.5	21	57	5330	8.65	< 10	< 1	0.33	30	0.59	340	60
574235H	299	229	3.0	1.26	42	50	< 0.5	2	0.13	< 0.5	17	63	3530	7.52	< 10	< 1	0.37	10	0.67	155	47
574236H	299	229	2.0	1.63	66	50	< 0.5	< 2	0.21	< 0.5	22	99	2520	7.57	< 10	< 1	0.53	10	0.88	220	44
574237H	299	229	1.8	1.27	22	60	< 0.5	< 2	0.36	< 0.5	20	91	2500	6.51	< 10	< 1	0.43	20	0.77	200	85

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

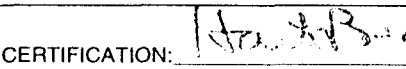
To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 201
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 1-B
Total Pages : 4
Certificate Date: 24-SEP-93
Invoice No. : I9321368
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574198H	299	229	0.03	3	270	8	< 2	1	15	< 0.01	< 10	< 10	21	< 10	30
574199H	299	229	0.02	3	470	12	< 2	2	22	0.01	< 10	< 10	24	< 10	44
574200H	299	229	0.03	3	450	14	< 2	2	29	< 0.01	< 10	< 10	22	< 10	70
574201H	299	229	0.03	3	420	14	2	1	25	< 0.01	< 10	< 10	24	10	38
574202H	299	229	0.03	5	620	4	< 2	1	41	< 0.01	< 10	< 10	27	< 10	24
574203H	299	229	0.03	5	580	8	< 2	2	46	< 0.01	< 10	< 10	24	< 10	20
574204H	299	229	0.03	6	630	12	< 2	1	41	< 0.01	< 10	< 10	25	< 10	26
574205H	299	229	0.03	7	530	10	< 2	2	32	< 0.01	< 10	< 10	34	< 10	44
574206H	299	229	0.03	5	630	12	< 2	2	34	< 0.01	< 10	< 10	27	< 10	44
574207H	299	229	0.04	6	590	12	< 2	3	54	< 0.01	< 10	< 10	27	< 10	38
574208H	299	229	0.04	2	370	14	< 2	1	22	< 0.01	< 10	< 10	22	< 10	28
574209H	299	229	0.05	6	550	12	< 2	1	21	0.01	< 10	< 10	25	< 10	36
574210H	299	229	0.03	2	370	14	< 2	1	17	< 0.01	< 10	< 10	18	< 10	48
574211H	299	229	0.02	2	450	8	< 2	1	22	0.01	< 10	< 10	21	< 10	24
574212H	299	229	0.02	2	490	16	< 2	1	27	< 0.01	< 10	< 10	17	< 10	28
574213H	299	229	0.03	5	670	10	< 2	6	34	0.03	< 10	< 10	65	70	28
574214H	299	229	0.03	4	690	12	< 2	2	31	0.01	< 10	< 10	45	30	28
574215H	299	229	0.04	5	770	4	< 2	3	28	0.01	< 10	< 10	43	< 10	24
574216H	299	229	0.03	4	610	20	< 2	2	26	0.01	< 10	< 10	34	10	26
574217H	299	229	0.02	3	320	18	< 2	1	19	< 0.01	< 10	< 10	16	< 10	24
574218H	299	229	0.01	2	240	20	< 2	1	16	< 0.01	< 10	< 10	9	< 10	22
574219H	299	229	0.02	4	450	12	2	1	25	< 0.01	< 10	< 10	20	< 10	38
574220H	299	229	0.04	2	640	22	< 2	1	29	< 0.01	< 10	< 10	17	< 10	52
574221H	299	229	0.03	4	800	12	4	2	34	< 0.01	< 10	< 10	32	< 10	56
574222H	299	229	0.03	2	480	16	< 2	1	26	< 0.01	< 10	< 10	19	< 10	42
574223H	299	229	0.02	4	240	26	< 2	2	13	< 0.01	< 10	< 10	15	< 10	22
574224H	299	229	0.02	4	330	12	< 2	2	19	< 0.01	< 10	< 10	16	< 10	18
574225H	299	229	0.01	9	490	16	< 2	3	13	0.02	< 10	< 10	26	10	30
574226H	299	229	0.01	7	510	6	2	2	13	0.01	< 10	< 10	28	< 10	52
574227H	299	229	0.01	8	420	16	< 2	2	12	< 0.01	< 10	< 10	19	< 10	34
574228H	299	229	0.01	11	330	8	2	2	10	< 0.01	< 10	< 10	14	< 10	36
574229H	299	229	0.01	9	480	4	< 2	1	11	< 0.01	< 10	< 10	19	< 10	40
574230H	299	229	0.01	12	400	4	< 2	1	9	< 0.01	< 10	< 10	22	< 10	36
574231H	299	229	0.01	10	520	6	2	2	8	0.01	< 10	< 10	28	60	50
574232H	299	229	0.01	10	400	6	< 2	2	8	< 0.01	< 10	< 10	22	< 10	42
574233H	299	229	0.01	9	460	6	6	1	10	< 0.01	< 10	< 10	20	< 10	42
574234H	299	229	0.01	11	460	6	< 2	1	9	< 0.01	< 10	< 10	17	< 10	42
574235H	299	229	0.01	11	450	6	< 2	2	6	0.01	< 10	< 10	27	< 10	40
574236H	299	229	0.01	12	450	2	< 2	3	13	0.02	< 10	< 10	34	290	46
574237H	299	229	0.01	12	500	< 2	< 2	2	11	0.02	< 10	< 10	28	90	38

CERTIFICATION: 

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Certificate Date: 24-SEP-93
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CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574238H	299	229	1.4	1.60	32	70	< 0.5	< 2	0.42	< 0.5	19	110	2520	6.52	< 10	< 1	0.49	30	1.07	245	113
574239H	299	229	1.8	1.42	32	30	< 0.5	< 2	0.22	< 0.5	21	117	2850	7.43	< 10	< 1	0.39	30	0.79	155	45
574240H	299	229	1.2	1.18	28	30	< 0.5	< 2	0.42	< 0.5	15	97	1955	5.80	< 10	< 1	0.29	30	0.75	150	46
574241H	299	229	1.4	1.76	16	70	< 0.5	< 2	0.24	< 0.5	17	100	2050	5.31	< 10	< 1	0.65	30	0.89	220	67
574242H	299	229	2.0	1.84	22	70	< 0.5	< 2	0.22	< 0.5	18	114	2530	6.46	< 10	< 1	0.66	20	0.83	195	74
574243H	299	229	2.2	2.08	40	50	0.5	< 2	0.26	< 0.5	30	108	2780	5.91	< 10	1	0.84	20	0.79	215	83
574244H	299	229	3.4	1.05	32	20	< 0.5	< 2	0.20	< 0.5	24	54	6560	7.06	< 10	1	0.33	10	0.16	180	93
574245H	299	229	2.0	1.91	44	60	< 0.5	4	0.30	< 0.5	22	117	2600	4.97	< 10	1	0.72	20	0.59	270	44
574246H	299	229	5.6	1.27	64	10	< 0.5	12	0.41	< 0.5	25	104	7190	7.55	< 10	< 1	0.56	20	0.51	230	87
574247H	299	229	3.0	1.46	42	20	< 0.5	< 2	0.36	< 0.5	36	112	3400	6.01	< 10	< 1	0.62	20	0.64	265	52
574248H	299	229	6.4	1.17	36	40	< 0.5	18	0.28	< 0.5	20	112	3450	5.92	< 10	< 1	0.49	20	0.34	260	109
574249H	299	229	2.6	1.73	28	60	< 0.5	2	0.14	< 0.5	20	145	3970	4.52	< 10	< 1	0.53	20	0.18	140	121
574250H	299	229	2.2	1.05	14	30	< 0.5	6	0.17	< 0.5	15	91	2920	5.20	< 10	< 1	0.33	20	0.14	135	112
574251H	299	229	3.2	1.17	22	20	< 0.5	6	0.22	< 0.5	18	113	4620	6.90	< 10	< 1	0.49	20	0.28	300	209
574252H	299	229	2.8	0.86	34	10	< 0.5	16	0.53	< 0.5	16	71	3420	7.43	< 10	< 1	0.41	20	0.43	230	271
574253H	299	229	3.6	0.79	48	10	< 0.5	24	0.24	0.5	16	75	4650	7.06	< 10	< 1	0.29	20	0.32	185	337
574254H	299	229	1.8	1.32	20	30	< 0.5	6	0.37	< 0.5	14	134	3250	4.29	< 10	< 1	0.44	20	0.36	135	89
574255H	299	229	0.8	1.09	16	40	< 0.5	2	0.55	< 0.5	16	149	2270	5.24	< 10	< 1	0.40	10	0.56	185	63
574256H	299	229	1.2	1.30	36	20	< 0.5	< 2	0.37	0.5	19	141	1850	5.95	< 10	< 1	0.48	20	0.42	200	155
574257H	299	229	2.0	0.96	12	40	< 0.5	2	0.22	0.5	14	120	3330	4.68	< 10	< 1	0.32	10	0.17	195	126
574258H	299	229	2.2	0.81	24	10	< 0.5	< 2	0.42	1.5	13	86	2890	6.05	< 10	< 1	0.31	10	0.27	655	150
574259H	299	229	0.6	1.16	10	50	< 0.5	< 2	0.42	< 0.5	19	133	1850	4.60	< 10	< 1	0.37	20	0.42	280	46
574260H	299	229	0.6	0.77	16	30	< 0.5	< 2	0.84	< 0.5	15	111	1100	6.06	< 10	< 1	0.37	20	0.51	270	50
574261H	299	229	0.8	1.03	12	60	< 0.5	< 2	0.94	< 0.5	15	132	1595	5.51	< 10	< 1	0.45	20	0.69	190	109
574262H	299	229	1.4	0.75	38	20	< 0.5	< 2	0.42	< 0.5	23	91	2220	6.34	< 10	< 1	0.32	10	0.30	385	106
574263H	299	229	0.8	0.97	22	20	< 0.5	< 2	0.28	< 0.5	16	81	1895	7.61	< 10	< 1	0.36	10	0.29	180	58
574264H	299	229	0.6	1.28	16	10	< 0.5	20	0.20	< 0.5	12	126	2390	9.55	< 10	1	0.55	10	0.20	115	65
574265H	299	229	2.0	1.13	16	20	< 0.5	14	0.33	0.5	15	130	5110	8.69	< 10	1	0.48	10	0.29	215	54
574266H	299	229	0.6	1.34	18	20	0.5	< 2	0.31	< 0.5	15	81	3450	8.00	< 10	1	0.35	10	0.17	140	81
574267H	299	229	1.0	1.05	28	50	< 0.5	2	0.63	< 0.5	18	132	1895	6.77	< 10	< 1	0.51	10	0.62	450	71
574268H	299	229	0.2	1.07	10	60	< 0.5	< 2	0.69	< 0.5	19	109	1375	6.84	< 10	< 1	0.54	20	1.03	165	37
574269H	299	229	47.2	1.25	24	50	< 0.5	848	0.54	0.5	15	146	>10000	6.84	< 10	< 1	0.63	20	0.74	160	142
574270H	299	229	6.8	0.88	14	80	< 0.5	104	0.65	< 0.5	16	105	1625	5.09	< 10	< 1	0.40	20	0.62	220	81
574271H	299	229	0.4	0.90	20	20	< 0.5	2	0.44	< 0.5	14	131	1380	6.75	< 10	< 1	0.44	10	0.38	210	58
574272H	299	229	3.4	0.60	46	20	< 0.5	114	0.80	< 0.5	20	59	2150	7.23	< 10	5	0.28	10	0.49	255	56
574273H	299	229	0.6	1.04	20	20	< 0.5	4	0.61	< 0.5	16	141	1685	8.11	< 10	1	0.53	10	0.63	180	116
574274H	299	229	1.2	0.95	12	40	< 0.5	2	0.95	< 0.5	16	117	1840	6.57	< 10	< 1	0.50	20	0.73	150	211
574275H	299	229	2.2	1.05	36	20	< 0.5	2	0.59	< 0.5	21	139	3210	7.37	< 10	< 1	0.54	10	0.63	115	175
574276H	299	229	2.4	1.12	18	60	< 0.5	48	0.84	< 0.5	15	118	2120	5.44	< 10	< 1	0.52	20	0.74	205	160
574277H	299	229	1.0	1.38	8	70	0.5	2	0.95	< 0.5	12	142	1350	3.75	< 10	< 1	0.66	20	0.85	175	131

CERTIFICATION: Ian Bucklen

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
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Project : CASINO 201
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :4
Certificate Date: 24-SEP-93
Invoice No. :I9321368
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574238H	299	229	0.03	9	440	2	< 2	3	14	0.01	< 10	< 10	35	10	40
574239H	299	229	0.02	14	580	4	< 2	2	9	0.01	< 10	< 10	32	< 10	38
574240H	299	229	0.03	11	520	< 2	< 2	2	12	0.01	< 10	< 10	34	< 10	30
574241H	299	229	0.03	14	630	< 2	< 2	2	10	0.02	< 10	< 10	29	< 10	36
574242H	299	229	0.02	14	650	< 2	< 2	2	8	0.01	< 10	< 10	29	< 10	42
574243H	299	229	0.02	17	780	2	2	3	9	0.02	< 10	< 10	31	10	42
574244H	299	229	0.01	15	690	18	2	1	7	< 0.01	< 10	< 10	12	< 10	44
574245H	299	229	0.03	13	740	4	2	3	13	0.02	10	< 10	28	< 10	54
574246H	299	229	0.01	13	660	12	2	2	13	< 0.01	< 10	< 10	19	< 10	40
574247H	299	229	0.02	16	730	2	2	4	19	0.02	< 10	< 10	32	< 10	48
574248H	299	229	0.01	17	560	4	16	2	9	< 0.01	10	< 10	21	< 10	52
574249H	299	229	0.01	17	410	6	4	2	9	< 0.01	< 10	< 10	20	< 10	40
574250H	299	229	0.01	13	390	12	2	1	8	< 0.01	< 10	< 10	10	< 10	36
574251H	299	229	0.01	13	470	8	4	2	8	< 0.01	< 10	< 10	16	< 10	60
574252H	299	229	0.01	12	560	8	4	2	13	< 0.01	< 10	< 10	17	< 10	46
574253H	299	229	0.01	14	390	8	4	1	9	< 0.01	< 10	< 10	14	< 10	46
574254H	299	229	0.02	12	440	6	2	2	13	< 0.01	< 10	< 10	17	< 10	34
574255H	299	229	0.03	11	420	2	< 2	2	19	< 0.01	< 10	< 10	20	< 10	36
574256H	299	229	0.01	14	500	14	2	2	15	< 0.01	10	< 10	15	< 10	74
574257H	299	229	0.01	13	270	26	2	1	11	< 0.01	< 10	< 10	9	< 10	64
574258H	299	229	< 0.01	10	350	26	< 2	1	13	< 0.01	< 10	< 10	7	< 10	114
574259H	299	229	0.01	12	460	18	< 2	2	18	< 0.01	10	< 10	24	< 10	62
574260H	299	229	0.02	10	550	8	< 2	2	18	< 0.01	< 10	< 10	26	< 10	40
574261H	299	229	0.01	11	460	6	2	2	22	< 0.01	< 10	< 10	24	< 10	44
574262H	299	229	0.01	12	330	16	2	1	13	< 0.01	< 10	< 10	9	< 10	42
574263H	299	229	0.01	13	380	22	2	1	9	< 0.01	< 10	< 10	14	< 10	48
574264H	299	229	0.01	15	450	24	2	1	8	< 0.01	< 10	< 10	14	< 10	46
574265H	299	229	0.01	15	370	28	2	1	9	< 0.01	< 10	< 10	13	< 10	64
574266H	299	229	0.01	18	420	26	2	1	9	< 0.01	< 10	< 10	12	< 10	44
574267H	299	229	0.01	14	510	12	6	3	16	0.01	< 10	< 10	22	< 10	48
574268H	299	229	0.02	14	700	6	< 2	5	20	0.02	< 10	< 10	38	< 10	32
574269H	299	229	0.02	14	550	26	4	4	18	0.02	< 10	< 10	37	10	38
574270H	299	229	0.01	11	510	6	2	2	17	< 0.01	< 10	< 10	18	< 10	38
574271H	299	229	0.01	13	500	4	2	2	14	< 0.01	< 10	< 10	17	< 10	38
574272H	299	229	0.01	14	600	16	4	2	17	< 0.01	< 10	< 10	17	< 10	38
574273H	299	229	0.01	13	360	8	< 2	2	18	< 0.01	< 10	< 10	21	< 10	32
574274H	299	229	0.01	12	470	12	< 2	2	21	< 0.01	< 10	< 10	16	< 10	24
574275H	299	229	0.01	12	460	8	< 2	1	16	< 0.01	< 10	< 10	12	50	22
574276H	299	229	0.02	12	530	18	6	2	28	0.01	< 10	< 10	21	< 10	38
574277H	299	229	0.01	11	670	2	2	4	29	0.03	< 10	< 10	25	< 10	28

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 201
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. : I9321368
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574278H	299	229	1.4	1.11	10	50	< 0.5	2	0.63	< 0.5	19	87	1630	5.57	< 10	< 1	0.49	20	0.57	215	98
574279H	299	229	0.8	1.39	8	60	0.5	2	0.34	< 0.5	17	89	1535	5.39	< 10	< 1	0.49	30	0.55	180	92
574280H	299	229	1.2	1.49	20	80	< 0.5	< 2	0.16	< 0.5	19	106	2410	5.57	< 10	< 1	0.49	20	0.72	105	106
574281H	299	229	0.8	1.46	6	100	0.5	< 2	0.15	< 0.5	15	120	1570	3.80	< 10	< 1	0.50	20	0.59	85	158
574282H	299	229	3.4	1.25	16	80	0.5	122	0.27	< 0.5	19	141	5980	5.43	< 10	< 1	0.46	30	0.50	235	86
574283H	299	229	1.2	1.72	12	110	0.5	2	0.13	< 0.5	14	122	1925	4.36	< 10	< 1	0.67	20	0.70	65	43
574284H	299	229	1.2	1.14	12	90	< 0.5	< 2	1.35	< 0.5	12	139	1550	4.19	< 10	< 1	0.52	20	0.93	95	201
574285H	299	229	1.2	1.17	12	40	< 0.5	< 2	1.88	< 0.5	12	131	1050	5.70	< 10	< 1	0.57	10	0.85	100	107
574286H	299	229	1.6	1.12	14	70	< 0.5	2	1.70	< 0.5	13	168	1790	4.33	< 10	< 1	0.59	20	0.70	155	210
574287H	299	229	1.2	1.20	4	80	< 0.5	2	2.03	< 0.5	13	119	1610	4.21	< 10	< 1	0.62	20	0.88	95	82
574288H	299	229	1.6	1.16	14	70	< 0.5	< 2	1.87	< 0.5	15	161	2210	4.85	< 10	< 1	0.59	20	0.80	100	293
574289H	299	229	1.0	1.39	6	80	< 0.5	< 2	1.88	< 0.5	11	128	1465	4.07	< 10	< 1	0.74	20	1.04	110	287
574290H	299	229	1.2	1.15	18	70	< 0.5	< 2	2.32	< 0.5	10	141	1380	4.12	< 10	< 1	0.58	20	0.83	95	190
574291H	299	229	3.4	0.81	26	80	< 0.5	20	1.67	2.0	10	144	1940	4.51	< 10	< 1	0.48	20	0.67	350	176
574292H	299	229	0.8	2.00	16	110	< 0.5	< 2	2.34	< 0.5	13	163	1020	4.50	10	< 1	1.40	20	1.68	155	81
574293H	299	229	1.2	1.47	16	90	< 0.5	< 2	2.31	< 0.5	13	114	1920	3.78	10	< 1	0.78	30	1.12	100	140
574294H	299	229	1.4	1.34	16	70	< 0.5	< 2	2.16	< 0.5	13	93	1725	5.20	10	< 1	0.65	30	1.00	105	174
574295H	299	229	1.8	1.26	12	70	< 0.5	2	2.22	< 0.5	13	110	2380	4.81	10	< 1	0.65	30	0.93	85	308
574296H	299	229	1.4	1.17	18	70	< 0.5	4	1.59	< 0.5	13	113	1365	4.92	10	< 1	0.58	20	0.86	85	216
574297H	299	229	1.6	0.97	22	40	< 0.5	2	2.37	< 0.5	14	121	1505	6.17	< 10	< 1	0.51	20	0.53	140	251
574298H	299	229	1.0	1.12	12	80	< 0.5	2	1.53	< 0.5	13	135	1360	5.41	< 10	< 1	0.49	30	0.66	130	439
574299H	299	229	0.8	1.43	16	100	0.5	< 2	1.54	< 0.5	16	137	1070	5.42	< 10	< 1	0.64	30	0.75	160	316
574300H	299	229	0.8	1.47	18	90	< 0.5	< 2	0.90	< 0.5	20	125	1560	6.19	10	< 1	0.70	30	0.81	175	299
574301H	299	229	1.2	1.02	24	80	< 0.5	< 2	1.95	< 0.5	14	148	1455	5.14	< 10	< 1	0.53	20	0.57	165	565
574302H	299	229	1.0	1.14	14	80	< 0.5	2	1.47	< 0.5	14	142	1355	5.18	10	< 1	0.57	20	0.72	120	351
574303H	299	229	0.6	1.21	16	90	< 0.5	< 2	1.57	< 0.5	14	173	1215	4.41	10	< 1	0.51	20	0.85	150	321
574304H	299	229	0.8	1.34	18	90	< 0.5	4	1.55	< 0.5	13	136	1165	4.27	< 10	< 1	0.61	20	0.76	210	157
574305H	299	229	0.6	1.51	16	60	< 0.5	2	0.92	< 0.5	15	136	957	4.24	10	< 1	0.46	20	1.08	245	132
574306H	299	229	0.6	1.51	8	70	< 0.5	2	1.59	< 0.5	13	155	979	3.59	10	< 1	0.50	20	1.04	140	126
574307H	299	229	0.2	1.41	8	120	< 0.5	2	1.74	< 0.5	11	122	350	3.51	< 10	< 1	0.64	30	1.27	150	58
574308H	299	229	0.4	1.17	12	110	< 0.5	2	1.88	< 0.5	12	103	797	3.33	10	< 1	0.49	20	1.01	115	95
574309H	299	229	0.6	1.09	18	110	0.5	2	2.59	< 0.5	10	68	853	3.19	10	< 1	0.44	30	0.87	195	115
574310H	299	229	0.8	0.68	6	60	< 0.5	6	3.31	< 0.5	9	38	919	4.13	< 10	< 1	0.30	20	0.52	145	33
574311H	299	229	0.4	1.09	12	60	< 0.5	4	2.57	< 0.5	12	60	1045	4.16	< 10	< 1	0.41	30	0.83	120	64
574312H	299	229	< 0.2	1.21	12	80	< 0.5	2	1.43	< 0.5	11	68	331	3.82	< 10	< 1	0.52	30	1.08	180	21
574313H	299	229	0.4	1.49	6	170	< 0.5	2	1.00	< 0.5	12	91	427	3.70	< 10	< 1	0.57	20	1.29	180	76
574314H	299	229	0.4	1.35	62	20	< 0.5	14	0.87	< 0.5	18	96	462	9.29	< 10	1	0.66	20	0.65	90	280
574315H	299	229	0.2	1.36	14	60	< 0.5	< 2	0.95	< 0.5	14	91	369	4.17	< 10	< 1	0.43	20	1.01	120	153
574316H	299	229	0.4	1.39	20	60	< 0.5	2	1.09	< 0.5	15	65	610	3.93	< 10	< 1	0.44	20	1.04	120	151
574317H	299	229	< 0.2	1.54	16	60	0.5	2	1.14	< 0.5	12	71	427	3.54	< 10	< 1	0.50	20	1.13	130	92

CERTIFICATION: Ivan Bichler

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Certificate Date: 24-SEP-93
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CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574278H	299	229	0.01	12	500	4	< 2	2	18	0.01	< 10	< 10	18	< 10	36
574279H	299	229	0.02	13	570	4	< 2	3	15	0.01	10	< 10	23	< 10	56
574280H	299	229	0.03	15	500	4	2	4	14	0.03	< 10	< 10	45	< 10	38
574281H	299	229	0.04	14	570	4	2	3	16	0.03	10	< 10	33	< 10	32
574282H	299	229	0.03	14	530	6	2	3	16	0.01	10	< 10	29	< 10	64
574283H	299	229	0.05	15	490	6	< 2	4	16	0.06	< 10	< 10	41	< 10	30
574284H	299	229	0.03	13	330	2	2	3	137	0.03	< 10	< 10	36	< 10	18
574285H	299	229	0.02	14	490	4	2	3	286	0.03	< 10	< 10	26	< 10	20
574286H	299	229	0.01	11	450	10	2	2	136	0.01	< 10	< 10	15	< 10	20
574287H	299	229	0.03	11	480	4	2	3	182	0.04	< 10	< 10	28	10	18
574288H	299	229	0.02	11	350	2	2	3	166	0.03	< 10	< 10	26	10	20
574289H	299	229	0.03	10	440	< 2	< 2	4	149	0.06	< 10	< 10	37	< 10	18
574290H	299	229	0.03	12	440	2	< 2	3	200	0.04	< 10	< 10	33	< 10	16
574291H	299	229	0.02	11	350	22	2	2	140	0.02	< 10	< 10	22	< 10	100
574292H	299	229	0.04	17	640	< 2	2	13	152	0.16	< 10	< 10	87	30	26
574293H	299	229	0.03	12	500	2	2	6	235	0.07	< 10	< 10	47	10	20
574294H	299	229	0.02	15	520	< 2	2	4	200	0.05	< 10	< 10	39	20	20
574295H	299	229	0.02	14	540	< 2	2	3	230	0.04	< 10	< 10	32	10	18
574296H	299	229	0.03	16	540	< 2	4	3	128	0.03	< 10	< 10	33	< 10	16
574297H	299	229	0.01	18	570	18	2	2	45	0.01	< 10	< 10	20	10	18
574298H	299	229	0.03	15	640	< 2	2	3	42	0.02	< 10	< 10	38	10	22
574299H	299	229	0.02	17	580	8	2	5	41	0.04	< 10	< 10	40	10	26
574300H	299	229	0.04	18	600	6	2	4	33	0.04	10	< 10	50	10	28
574301H	299	229	0.02	13	470	2	4	2	35	0.01	< 10	< 10	24	< 10	22
574302H	299	229	0.03	15	550	2	2	4	72	0.03	< 10	< 10	44	10	22
574303H	299	229	0.03	15	520	< 2	2	5	285	0.03	< 10	< 10	46	< 10	28
574304H	299	229	0.03	15	720	4	2	4	57	0.02	10	< 10	35	< 10	30
574305H	299	229	0.04	17	800	4	2	4	33	0.02	< 10	< 10	44	< 10	46
574306H	299	229	0.06	16	730	< 2	2	4	58	0.03	< 10	< 10	42	10	24
574307H	299	229	0.04	18	770	< 2	2	6	156	0.10	< 10	< 10	50	< 10	26
574308H	299	229	0.03	16	580	< 2	2	4	100	0.06	10	< 10	42	10	20
574309H	299	229	0.03	15	730	4	2	6	65	0.03	10	< 10	36	10	20
574310H	299	229	0.01	14	690	8	< 2	3	87	0.02	10	< 10	18	< 10	16
574311H	299	229	0.02	15	700	4	< 2	3	78	0.02	< 10	< 10	23	< 10	18
574312H	299	229	0.02	16	800	< 2	< 2	4	69	0.06	< 10	< 10	36	< 10	20
574313H	299	229	0.04	18	830	< 2	2	5	34	0.09	< 10	< 10	50	< 10	34
574314H	299	229	0.02	14	650	2	< 2	3	20	0.03	< 10	< 10	22	10	28
574315H	299	229	0.03	14	760	< 2	2	3	26	0.03	10	< 10	31	10	22
574316H	299	229	0.02	15	790	< 2	2	4	34	0.04	< 10	< 10	39	10	22
574317H	299	229	0.02	15	630	< 2	< 2	4	42	0.04	< 10	< 10	41	10	24

CERTIFICATION: Ian A Bucklen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 201
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-SEP-93
Invoice No. :19321368
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574318H	299	229	0.4	1.44	20	100	< 0.5	2	1.59	< 0.5	13	130	675	3.25	< 10	< 1	0.65	20	0.96	110	102
574319H	299	229	0.2	1.10	10	90	< 0.5	< 2	2.32	< 0.5	11	86	528	2.85	< 10	< 1	0.58	20	0.81	90	148
574320H	299	229	0.6	1.42	10	80	< 0.5	2	1.58	< 0.5	11	143	630	4.25	10	< 1	0.55	20	0.92	105	266
574321H	299	229	1.2	1.42	12	110	< 0.5	14	1.56	< 0.5	14	136	679	3.66	10	< 1	0.61	20	0.89	115	244
574322H	299	229	0.6	1.17	6	80	0.5	2	2.18	< 0.5	19	110	898	4.31	10	< 1	0.52	20	0.65	125	295
574323H	299	229	0.6	1.23	8	100	< 0.5	< 2	2.03	< 0.5	10	141	556	3.40	10	< 1	0.60	20	0.89	90	277
574324H	299	229	0.4	1.30	8	100	< 0.5	2	2.06	< 0.5	11	149	763	3.21	10	< 1	0.65	20	0.97	105	127
574325H	299	229	0.2	0.94	2	80	< 0.5	< 2	2.37	< 0.5	11	65	489	3.01	< 10	< 1	0.47	20	0.82	95	406
574326H	299	229	0.4	1.64	6	90	< 0.5	2	1.33	< 0.5	14	186	498	4.26	10	< 1	0.91	20	1.06	110	447
574327H	299	229	0.6	1.34	10	100	< 0.5	< 2	0.69	< 0.5	14	122	813	3.51	< 10	< 1	0.63	20	0.96	105	604

CERTIFICATION: Ian Bichler

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212 Brooksbank Ave., North Vancouver
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Project : CASINO 201
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :4
Certificate Date: 24-SEP-93
Invoice No. :I9321368
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321368

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574318H	299	229	0.04	15	830	2	4	4	49	0.04	< 10	< 10	35	10	20
574319H	299	229	0.03	15	760	4	2	4	130	0.04	< 10	< 10	33	< 10	16
574320H	299	229	0.04	18	720	2	2	3	68	0.02	< 10	< 10	38	10	20
574321H	299	229	0.04	18	790	2	4	4	42	0.04	< 10	< 10	40	< 10	20
574322H	299	229	0.03	18	680	4	4	4	171	0.02	< 10	< 10	31	< 10	18
574323H	299	229	0.04	15	640	2	4	4	179	0.04	< 10	< 10	37	< 10	18
574324H	299	229	0.04	16	510	4	2	6	163	0.06	< 10	< 10	42	10	20
574325H	299	229	0.02	14	580	< 2	2	5	141	0.05	< 10	< 10	36	40	18
574326H	299	229	0.05	19	680	4	4	6	65	0.08	< 10	< 10	51	10	20
574327H	299	229	0.04	14	580	2	4	4	29	0.06	< 10	< 10	41	< 10	20

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Project : CASINO 202
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :2
Certificate Date: 24-SEP-93
Invoice No. :I9321374
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321374

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
566598H	208	274	0.17	0.019	0.24	3000
566599H	208	276	0.10	0.019	0.10	9840
566600H	208	273	0.17	0.019	0.27	12780
566601H	208	276	0.31	0.034	0.27	8700
566602H	208	276	0.26	0.023	0.38	11320
566603H	208	276	0.19	0.010	0.27	8320
566604H	208	276	0.27	0.016	0.34	8820
566605H	208	276	0.29	0.026	0.31	8920
566606H	208	276	0.09	0.009	0.14	8020
566607H	208	274	0.26	0.060	0.38	7120
566608H	208	276	0.33	0.066	0.48	9680
566609H	208	276	0.39	0.058	0.51	11480
566610H	208	273	0.56	0.064	0.69	12660
566611H	208	276	0.56	0.024	0.69	11220
566612H	208	274	0.11	0.098	0.21	5820
566613H	208	276	0.16	0.025	0.17	9400
566614H	208	276	0.15	0.021	0.17	9640
566615H	208	276	0.12	0.013	0.14	7360
566616H	208	274	0.16	0.018	0.17	5380
566617H	208	274	0.11	0.009	0.14	5220
566618H	208	276	0.09	0.019	0.10	11120
566619H	208	276	0.09	0.013	0.21	8340
566620H	208	273	0.08	0.016	0.10	11980
566621H	208	274	0.14	0.029	0.14	5220
566622H	208	274	0.10	0.009	0.10	5960
566623H	208	273	0.12	0.056	0.34	14640
566624H	208	273	0.19	0.053	0.24	12580
566625H	208	276	0.10	0.102	0.10	10800
566626H	208	273	0.10	0.061	0.10	15080
566627H	208	273	0.13	0.025	0.10	13400
566628H	208	276	0.12	0.017	0.14	8640
566629H	208	276	0.05	0.029	0.07	10860
566630H	208	276	0.09	0.025	0.10	11700
566631H	208	273	0.11	0.052	0.10	13600
566632H	208	276	0.10	0.030	0.14	10980
566633H	208	273	0.09	0.015	0.10	12000
566634H	208	276	0.07	0.028	0.10	11200
566635H	208	273	0.22	0.031	0.38	12280
566636H	208	276	0.12	0.026	0.21	11680
566637H	208	276	0.15	0.016	0.27	11340

CERTIFICATION: D. Smith

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Project : CASINO 202
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Certificate Date: 24-SEP-93
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Account : FC

CERTIFICATE OF ANALYSIS A9321374

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566638H	208 273	0.62	0.052	0.86	12840
566639H	208 273	0.44	0.042	0.62	12260
566640H	208 273	0.56	0.053	0.69	11820
566641H	208 273	0.44	0.063	0.72	11940
566642H	208 276	0.38	0.058	0.45	11500
566643H	208 270	0.40	0.200	0.41	16680
566644H	208 276	0.18	0.040	0.17	11760
566645H	208 273	0.47	0.040	0.34	12760
566646H	208 276	0.30	0.036	0.27	10600
566647H	208 273	0.26	0.111	0.24	12460
566648H	208 276	0.23	0.030	0.21	11680
566649H	208 273	0.24	0.025	0.38	12580
566650H	208 273	0.17	0.076	0.24	13020
566651H	208 273	0.24	0.019	0.31	12620
566652H	208 273	0.21	0.196	0.21	12800
566653H	208 276	0.42	0.067	0.45	11520
566654H	208 276	0.32	0.026	0.38	11400
566655H	208 276	0.20	0.017	0.34	11240
566656H	208 273	0.30	0.060	0.34	12540
566657H	208 273	0.21	0.088	0.31	13200
566658H	208 273	0.15	0.089	0.24	13080
566659H	208 273	0.21	0.071	0.27	12500
566660H	208 276	0.19	0.051	0.21	10920
566661H	208 276	0.13	0.064	0.17	10650
566662H	208 273	0.09	0.043	0.17	11900
566663H	208 273	0.07	0.035	0.14	13200
566664H	208 273	0.09	0.046	0.17	13900
566665H	208 276	0.08	0.062	0.10	10090
566666H	208 273	0.06	0.040	0.07	12680
566667H	208 273	0.10	0.066	0.14	12580
566668H	208 273	0.09	0.071	0.21	13000
566669H	208 273	0.16	0.054	0.21	13080
566670H	208 273	0.16	0.065	0.24	13120
566671H	208 273	0.15	0.042	0.21	15180
566672H	208 270	0.12	0.028	0.21	16860
566673H	208 273	0.08	0.043	0.14	15300
566674H	208 276	0.05	0.117	0.10	10350
566675H	208 273	0.08	0.037	0.14	15300
566676H	208 270	0.10	0.030	0.14	19200

CERTIFICATION: _____

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Y1A 3S9

Project : CASINO 202
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :2
Certificate Date: 24-SEP-93
Invoice No. :I9321376
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321376

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566598H	299	229	0.8	2.44	4	400	< 0.5	< 2	2.56	< 0.5	9	99	1640	1.94	10	< 1	0.70	20	1.28	230	103
566599H	299	229	0.8	0.86	< 2	400	< 0.5	4	0.57	< 0.5	4	200	973	0.97	< 10	< 1	0.30	30	0.19	40	112
566600H	299	229	1.2	1.73	4	310	< 0.5	4	0.81	< 0.5	8	104	1590	1.65	10	< 1	0.38	20	0.81	115	105
566601H	299	229	2.8	0.93	4	80	< 0.5	28	0.26	0.5	8	301	3040	2.27	10	< 1	0.40	40	0.38	55	200
566602H	299	229	1.6	2.16	8	100	< 0.5	10	2.01	0.5	14	199	2400	2.88	10	< 1	0.59	20	1.52	230	132
566603H	299	229	1.4	2.62	4	180	< 0.5	8	1.74	< 0.5	9	229	1780	3.04	10	< 1	0.77	10	1.80	275	51
566604H	299	229	1.4	2.67	30	220	0.5	4	3.07	< 0.5	13	112	2460	2.51	10	< 1	0.76	20	1.62	325	78
566605H	299	229	1.8	3.07	150	120	0.5	4	3.09	< 0.5	15	153	2810	3.36	10	< 1	0.75	20	2.07	395	137
566606H	299	229	0.4	2.72	< 2	110	0.5	2	3.16	0.5	12	203	850	2.91	< 10	< 1	0.64	10	1.88	385	46
566607H	299	229	1.4	3.20	32	180	< 0.5	6	5.08	< 0.5	21	199	2360	4.78	10	< 1	0.64	40	1.98	415	305
566608H	299	229	4.0	0.81	32	40	< 0.5	12	3.22	0.5	13	124	3110	5.90	10	< 1	0.33	20	0.32	175	371
566609H	299	229	2.6	0.84	14	150	< 0.5	6	3.28	< 0.5	9	123	3670	1.85	< 10	< 1	0.26	20	0.22	170	321
566610H	299	229	4.2	1.11	26	30	< 0.5	< 2	3.55	< 0.5	11	95	5300	4.11	< 10	< 1	0.44	40	0.48	205	349
566611H	299	229	3.2	2.00	16	300	< 0.5	8	4.38	< 0.5	11	53	5050	2.85	< 10	< 1	0.62	20	1.18	240	122
566612H	299	229	0.6	2.48	24	180	0.5	4	4.80	< 0.5	7	94	1035	2.92	10	< 1	0.73	30	1.63	290	515
566613H	299	229	1.2	1.85	52	170	< 0.5	< 2	2.56	< 0.5	9	190	1455	2.59	< 10	< 1	0.52	10	0.98	365	137
566614H	299	229	0.6	1.37	14	130	< 0.5	2	1.32	< 0.5	9	178	1365	2.27	< 10	< 1	0.53	30	0.82	120	116
566615H	299	229	0.6	1.23	14	180	< 0.5	6	0.72	< 0.5	8	274	1115	1.80	< 10	< 1	0.55	30	0.90	95	77
566616H	299	229	0.4	1.96	4	260	< 0.5	2	0.70	< 0.5	10	263	1420	2.44	< 10	< 1	0.93	10	1.78	140	98
566617H	299	229	0.4	2.55	2	250	< 0.5	8	0.81	0.5	12	222	1000	3.87	< 10	< 1	1.37	10	2.41	185	47
566618H	299	229	0.2	2.68	< 2	480	< 0.5	6	1.03	0.5	13	135	790	4.32	< 10	< 1	1.35	10	2.39	235	108
566619H	299	229	0.2	3.40	14	640	< 0.5	< 2	1.44	< 0.5	12	63	848	3.88	< 10	< 1	1.21	10	2.22	190	73
566620H	299	229	0.2	3.21	14	490	< 0.5	< 2	1.53	< 0.5	11	67	718	3.68	< 10	< 1	1.01	10	2.10	175	89
566621H	299	229	0.4	3.41	12	510	< 0.5	8	1.39	< 0.5	14	66	1230	3.89	< 10	< 1	1.12	10	2.28	190	160
566622H	299	229	0.4	3.29	10	610	< 0.5	4	1.50	< 0.5	14	56	892	3.71	10	< 1	0.72	10	1.91	200	51
566623H	299	229	1.2	0.96	16	40	< 0.5	6	2.21	< 0.5	10	126	1215	4.51	< 10	< 1	0.41	10	0.35	105	321
566624H	299	229	0.8	1.72	16	150	0.5	6	2.17	< 0.5	14	77	1845	2.33	10	< 1	0.45	30	0.77	125	305
566625H	299	229	0.8	0.45	6	140	< 0.5	4	0.86	< 0.5	6	196	1025	1.62	< 10	< 1	0.23	10	0.10	60	619
566626H	299	229	0.8	0.50	32	90	< 0.5	8	0.65	< 0.5	4	154	1020	2.17	< 10	< 1	0.24	10	0.09	45	381
566627H	299	229	0.8	0.57	4	170	< 0.5	4	1.40	< 0.5	5	150	1315	1.41	< 10	< 1	0.25	20	0.22	70	147
566628H	299	229	0.8	0.61	2	160	< 0.5	< 2	1.65	< 0.5	5	111	1185	1.33	< 10	< 1	0.21	10	0.24	90	105
566629H	299	229	0.8	0.32	6	150	< 0.5	6	0.39	< 0.5	2	121	529	1.15	< 10	< 1	0.18	20	0.11	50	180
566630H	299	229	0.6	0.38	18	290	< 0.5	2	0.57	< 0.5	2	137	899	0.77	< 10	< 1	0.20	20	0.10	70	160
566631H	299	229	0.6	0.43	2	300	< 0.5	< 2	0.90	< 0.5	3	131	1085	0.70	< 10	< 1	0.19	20	0.14	55	314
566632H	299	229	0.6	1.61	6	160	0.5	2	1.57	< 0.5	6	82	1000	1.46	< 10	< 1	0.38	20	0.93	100	174
566633H	299	229	0.6	1.38	< 2	120	< 0.5	< 2	2.10	< 0.5	4	77	845	1.40	< 10	< 1	0.27	20	0.74	105	83
566634H	299	229	0.6	1.90	6	160	1.0	< 2	2.50	< 0.5	5	60	703	1.83	< 10	< 1	0.44	20	1.05	165	148
566635H	299	229	1.2	2.13	14	390	0.5	4	4.12	< 0.5	10	55	2020	2.89	< 10	< 1	0.93	30	1.37	315	173
566636H	299	229	0.8	1.93	26	210	1.0	4	3.03	< 0.5	13	83	1125	3.11	10	< 1	0.32	40	0.74	280	157
566637H	299	229	0.6	2.03	38	30	1.0	< 2	1.10	< 0.5	18	108	1440	4.02	10	< 1	0.13	60	0.57	160	95

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Certificate Date: 24-SEP-93
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CERTIFICATE OF ANALYSIS A9321376

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566598H	299	229	0.02	9	370	8	< 2	10	37	0.04	< 10	10	76	10	38
566599H	299	229	0.02	6	140	4	< 2	1	39	< 0.01	< 10	< 10	9	10	16
566600H	299	229	0.01	8	520	< 2	2	4	24	0.01	< 10	10	38	10	26
566601H	299	229	0.02	12	230	16	2	1	16	< 0.01	< 10	< 10	13	10	22
566602H	299	229	0.01	40	490	< 2	2	7	22	0.02	< 10	< 10	64	20	40
566603H	299	229	0.01	29	390	4	< 2	9	29	0.06	< 10	< 10	72	20	32
566604H	299	229	0.01	20	550	12	< 2	11	42	0.04	< 10	10	92	20	28
566605H	299	229	0.01	26	470	14	8	9	42	0.05	< 10	20	66	30	74
566606H	299	229	0.01	25	360	16	< 2	10	40	0.06	< 10	< 10	80	20	42
566607H	299	229	0.01	32	2940	16	< 2	21	68	0.07	< 10	< 10	167	40	40
566608H	299	229	0.01	10	570	20	14	4	28	< 0.01	< 10	10	25	40	34
566609H	299	229	0.01	4	520	8	4	3	45	< 0.01	< 10	10	18	10	24
566610H	299	229	0.01	8	880	16	4	8	38	0.02	< 10	< 10	50	20	30
566611H	299	229	0.01	6	990	12	< 2	14	54	0.04	< 10	20	91	20	26
566612H	299	229	0.01	10	700	14	6	10	68	0.04	< 10	10	76	20	18
566613H	299	229	0.01	30	800	10	6	8	48	0.03	< 10	< 10	74	20	32
566614H	299	229	0.02	20	230	10	< 2	5	30	0.05	< 10	< 10	45	20	18
566615H	299	229	0.01	21	310	< 2	< 2	4	23	0.05	< 10	< 10	53	10	14
566616H	299	229	0.03	35	610	12	< 2	9	21	0.14	< 10	< 10	100	10	86
566617H	299	229	0.06	31	1240	4	2	18	27	0.23	< 10	< 10	142	30	32
566618H	299	229	0.10	15	1630	< 2	2	16	52	0.24	< 10	< 10	166	30	32
566619H	299	229	0.17	4	1260	6	2	15	154	0.22	< 10	< 10	152	20	28
566620H	299	229	0.09	3	1140	< 2	< 2	13	137	0.15	< 10	< 10	121	30	32
566621H	299	229	0.12	3	1100	2	< 2	17	104	0.19	< 10	< 10	154	30	32
566622H	299	229	0.04	3	1340	< 2	< 2	13	150	0.06	< 10	< 10	112	30	32
566623H	299	229	0.01	11	770	16	4	3	47	< 0.01	< 10	< 10	24	30	14
566624H	299	229	0.01	7	1010	14	4	7	82	0.01	< 10	< 10	52	10	18
566625H	299	229	0.01	3	130	10	6	< 1	26	< 0.01	< 10	< 10	5	10	8
566626H	299	229	0.01	3	110	6	4	< 1	32	< 0.01	< 10	< 10	3	10	10
566627H	299	229	0.02	3	280	8	< 2	< 1	49	< 0.01	< 10	< 10	5	< 10	8
566628H	299	229	0.01	3	210	8	2	1	47	< 0.01	< 10	< 10	11	10	16
566629H	299	229	< 0.01	2	90	14	2	< 1	21	< 0.01	< 10	< 10	1	< 10	6
566630H	299	229	0.01	2	60	12	4	< 1	32	< 0.01	< 10	< 10	2	< 10	8
566631H	299	229	0.01	2	100	12	4	< 1	40	< 0.01	< 10	< 10	5	< 10	8
566632H	299	229	0.02	3	400	10	2	7	63	0.01	< 10	10	45	10	16
566633H	299	229	0.02	3	380	8	< 2	3	65	< 0.01	< 10	< 10	29	< 10	14
566634H	299	229	0.01	4	410	14	< 2	6	69	0.01	< 10	< 10	42	10	26
566635H	299	229	0.01	9	1190	12	4	14	70	0.11	< 10	< 10	104	20	22
566636H	299	229	0.01	21	1730	14	2	9	83	0.01	< 10	< 10	42	20	48
566637H	299	229	< 0.01	30	2030	10	4	10	34	< 0.01	< 10	< 10	53	20	62

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 202
Comments: CC: PACIFIC SENTINEL GOLD CORP.

CERTIFICATE OF ANALYSIS A9321376

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566638H	299	229	2.8	1.16	74	220	< 0.5	2	3.00	< 0.5	22	48	6030	3.44	10	< 1	0.18	50	1.06	555	303
566639H	299	229	2.6	0.78	62	20	< 0.5	< 2	2.35	< 0.5	14	47	4250	2.98	< 10	< 1	0.14	40	0.85	495	246
566640H	299	229	2.4	0.79	74	40	< 0.5	< 2	2.60	< 0.5	14	65	5090	2.92	10	< 1	0.07	40	0.85	465	300
566641H	299	229	2.2	0.43	56	130	< 0.5	< 2	2.33	< 0.5	11	56	4230	2.11	< 10	< 1	0.07	40	0.66	415	374
566642H	299	229	1.6	0.49	54	130	< 0.5	2	2.61	< 0.5	10	59	3390	1.92	< 10	< 1	0.10	30	0.75	505	302
566643H	299	229	2.6	0.31	30	20	< 0.5	2	1.51	< 0.5	10	53	3860	3.19	< 10	< 1	0.09	20	0.46	260	1055
566644H	299	229	1.2	0.27	10	140	< 0.5	< 2	1.31	< 0.5	4	56	1690	1.32	< 10	< 1	0.11	20	0.49	230	239
566645H	299	229	3.6	0.42	18	60	< 0.5	14	2.74	< 0.5	7	39	4780	2.88	< 10	< 1	0.14	20	0.72	430	234
566646H	299	229	1.8	0.35	68	70	< 0.5	4	1.60	< 0.5	10	61	2910	3.07	< 10	< 1	0.14	30	0.62	405	214
566647H	299	229	1.8	0.34	42	50	< 0.5	8	1.77	< 0.5	10	57	2590	2.70	< 10	< 1	0.14	40	0.68	460	631
566648H	299	229	1.4	0.76	36	240	0.5	2	2.93	< 0.5	10	35	2230	2.30	< 10	< 1	0.08	10	1.00	545	168
566649H	299	229	1.4	1.55	20	230	< 0.5	8	5.14	0.5	16	25	2160	2.64	< 10	< 1	0.70	20	1.26	390	137
566650H	299	229	0.8	0.44	18	180	< 0.5	< 2	2.98	< 0.5	13	43	1575	1.47	< 10	< 1	0.09	30	0.41	330	426
566651H	299	229	1.6	0.64	18	80	< 0.5	6	1.34	< 0.5	7	49	2240	2.78	< 10	< 1	0.19	20	0.50	215	116
566652H	299	229	1.2	0.44	28	110	< 0.5	< 2	2.49	< 0.5	11	60	1995	1.69	< 10	< 1	0.13	20	0.65	255	1060
566653H	299	229	2.0	0.51	70	120	< 0.5	< 2	2.95	< 0.5	11	54	4020	2.17	< 10	< 1	0.09	20	0.95	410	379
566654H	299	229	1.4	1.00	48	350	< 0.5	6	1.88	< 0.5	8	47	3020	1.51	< 10	< 1	0.09	20	0.57	275	145
566655H	299	229	1.0	1.56	18	60	0.5	4	2.94	< 0.5	8	93	1850	2.25	< 10	< 1	0.10	10	0.65	430	93
566656H	299	229	1.2	1.16	110	90	< 0.5	< 2	2.88	< 0.5	10	81	2860	2.10	< 10	< 1	0.19	20	0.97	555	321
566657H	299	229	1.2	1.08	30	170	< 0.5	< 2	3.43	< 0.5	6	106	1960	2.26	< 10	< 1	0.18	30	1.28	465	470
566658H	299	229	0.8	1.02	20	160	< 0.5	2	2.28	< 0.5	8	98	1405	1.74	< 10	< 1	0.17	20	0.73	310	499
566659H	299	229	1.2	1.15	14	30	< 0.5	< 2	1.35	< 0.5	6	106	2040	1.31	< 10	< 1	0.18	30	0.39	185	415
566660H	299	229	1.6	1.70	58	40	1.0	2	2.56	< 0.5	7	33	1790	2.17	10	< 1	0.29	30	0.56	160	266
566661H	299	229	1.4	1.72	24	30	1.5	< 2	1.97	< 0.5	4	26	1290	1.42	10	< 1	0.34	30	0.49	105	327
566662H	299	229	0.8	1.38	12	70	0.5	< 2	3.08	< 0.5	4	45	864	1.23	< 10	< 1	0.37	20	0.56	160	213
566663H	299	229	0.6	1.49	2	70	0.5	< 2	1.89	< 0.5	3	119	692	1.02	< 10	< 1	0.33	20	0.77	125	177
566664H	299	229	0.8	1.82	< 2	100	0.5	< 2	2.72	< 0.5	2	159	827	1.03	< 10	< 1	0.39	20	0.71	145	237
566665H	299	229	1.0	1.88	< 2	500	0.5	< 2	2.54	0.5	5	92	753	1.36	10	< 1	0.58	20	0.94	135	357
566666H	299	229	0.2	2.74	< 2	840	0.5	< 2	2.47	< 0.5	8	98	558	2.27	10	< 1	0.92	30	1.52	150	208
566667H	299	229	0.8	1.17	6	560	0.5	< 2	2.23	< 0.5	3	59	998	1.02	10	< 1	0.40	50	0.61	100	376
566668H	299	229	0.6	1.00	8	230	< 0.5	< 2	2.46	< 0.5	4	125	923	0.87	10	< 1	0.30	40	0.44	105	394
566669H	299	229	3.4	1.29	12	140	0.5	2	2.47	1.0	8	56	1445	2.17	10	< 1	0.38	20	0.68	180	277
566670H	299	229	1.4	1.16	12	480	0.5	< 2	2.76	< 0.5	4	102	1535	1.22	< 10	< 1	0.34	30	0.47	160	374
566671H	299	229	2.0	1.39	16	310	0.5	< 2	2.54	2.0	7	58	1410	2.02	10	< 1	0.49	20	0.79	175	241
566672H	299	229	2.0	1.67	10	150	0.5	< 2	2.65	1.0	5	73	1175	1.81	10	< 1	0.55	40	0.94	120	159
566673H	299	229	0.4	1.17	< 2	100	0.5	< 2	3.30	< 0.5	4	74	757	1.06	< 10	< 1	0.44	40	0.71	100	249
566674H	299	229	0.4	1.37	2	820	0.5	< 2	4.14	< 0.5	4	115	483	1.50	< 10	< 1	0.43	20	0.79	160	651
566675H	299	229	0.4	1.54	2	670	0.5	< 2	3.14	< 0.5	8	64	708	1.87	< 10	< 1	0.59	20	0.94	135	200
566676H	299	229	1.0	1.58	6	370	0.5	< 2	2.94	1.5	8	92	927	2.00	< 10	< 1	0.61	20	0.88	145	167

CERTIFICATION:

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 202
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page . ber :2-B
Total Pages :2
Certificate Date: 24-SEP-93
Invoice No. :19321376
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321376

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566638H	299	229	0.01	13	1040	8	24	10	25	< 0.01	< 10	< 10	68	20	30
566639H	299	229	< 0.01	11	930	4	22	7	20	< 0.01	< 10	10	46	10	24
566640H	299	229	< 0.01	22	800	14	42	10	20	< 0.01	< 10	10	51	20	32
566641H	299	229	< 0.01	7	780	8	42	5	19	< 0.01	< 10	< 10	24	10	24
566642H	299	229	< 0.01	8	830	14	18	7	23	< 0.01	< 10	< 10	32	10	18
566643H	299	229	< 0.01	4	540	4	20	3	22	< 0.01	< 10	< 10	14	20	14
566644H	299	229	< 0.01	2	360	4	16	3	18	< 0.01	< 10	< 10	11	10	10
566645H	299	229	< 0.01	4	890	8	8	4	34	< 0.01	< 10	< 10	19	20	22
566646H	299	229	< 0.01	10	290	12	34	4	20	< 0.01	< 10	10	19	20	22
566647H	299	229	< 0.01	6	290	8	32	4	21	< 0.01	< 10	< 10	20	10	20
566648H	299	229	0.01	8	830	8	14	13	30	< 0.01	< 10	10	72	10	16
566649H	299	229	0.01	4	1410	8	12	13	82	0.06	< 10	10	84	20	22
566650H	299	229	< 0.01	3	520	10	12	3	36	< 0.01	< 10	< 10	14	10	16
566651H	299	229	< 0.01	7	560	6	4	2	24	< 0.01	< 10	< 10	19	10	14
566652H	299	229	0.01	7	490	10	18	3	32	< 0.01	< 10	130	19	10	18
566653H	299	229	< 0.01	5	630	14	24	6	28	< 0.01	< 10	10	28	10	22
566654H	299	229	< 0.01	6	760	4	16	9	23	< 0.01	< 10	< 10	40	< 10	22
566655H	299	229	< 0.01	11	760	6	8	8	24	< 0.01	< 10	< 10	43	10	14
566656H	299	229	0.01	7	870	16	32	8	28	< 0.01	< 10	< 10	39	< 10	20
566657H	299	229	0.01	3	440	16	16	6	30	< 0.01	< 10	< 10	30	10	16
566658H	299	229	0.01	3	450	4	14	5	23	< 0.01	< 10	< 10	26	< 10	14
566659H	299	229	0.01	2	420	8	16	4	22	< 0.01	< 10	< 10	24	< 10	12
566660H	299	229	0.01	6	700	22	8	6	67	< 0.01	< 10	< 10	35	< 10	68
566661H	299	229	0.01	3	540	20	8	4	71	< 0.01	< 10	< 10	23	< 10	60
566662H	299	229	0.01	3	460	14	6	4	69	< 0.01	< 10	< 10	23	< 10	30
566663H	299	229	0.01	2	290	12	4	4	68	< 0.01	< 10	< 10	31	< 10	28
566664H	299	229	0.02	3	350	14	< 2	6	71	0.01	< 10	< 10	35	< 10	42
566665H	299	229	0.02	1	420	12	4	10	95	0.04	< 10	< 10	57	< 10	70
566666H	299	229	0.03	4	540	14	4	15	115	0.12	< 10	< 10	87	10	30
566667H	299	229	0.02	2	400	14	2	8	79	0.02	< 10	< 10	41	< 10	24
566668H	299	229	0.02	1	330	16	4	5	62	0.01	< 10	< 10	28	< 10	18
566669H	299	229	0.02	3	570	46	4	7	70	0.02	< 10	< 10	39	10	140
566670H	299	229	0.01	1	620	18	8	7	64	0.01	< 10	< 10	37	< 10	38
566671H	299	229	0.02	1	680	74	4	7	68	0.04	< 10	< 10	52	< 10	208
566672H	299	229	0.02	1	440	100	2	9	74	0.05	< 10	< 10	61	< 10	158
566673H	299	229	0.02	2	360	12	4	8	76	0.04	< 10	< 10	49	< 10	24
566674H	299	229	0.02	2	350	18	6	7	130	0.04	< 10	< 10	48	10	28
566675H	299	229	0.02	2	650	6	4	7	121	0.06	< 10	< 10	55	10	26
566676H	299	229	0.02	3	570	42	< 2	10	74	0.07	< 10	< 10	69	< 10	180

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-203
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-SEP-93
Invoice No. : I9321441
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321441

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
565343H	208	274	0.13	0.021	0.24	2800						
565344H	208	274	0.11	0.016	0.55	5400						
565345H	208	276	0.07	0.013	0.99	10920						
565346H	208	273	0.07	0.026	0.86	12180						
565347H	208	276	0.07	0.026	0.72	10700						
565348H	208	276	0.08	0.021	0.65	11600						
565349H	208	276	0.07	0.029	1.03	9400						
565350H	208	276	0.07	0.018	0.48	7800						
565351H	208	276	0.11	0.021	0.48	9620						
565352H	208	276	0.09	0.021	0.48	11200						
565353H	208	276	0.05	0.017	0.51	11600						
565354H	208	273	0.06	0.034	0.79	11900						
565355H	208	276	0.06	0.027	0.34	10380						
565356H	208	276	0.06	0.021	0.48	10700						
565357H	208	276	0.03	0.022	0.41	10200						
565358H	208	273	0.05	0.023	0.34	12320						
565359H	208	276	0.05	0.024	0.51	9400						
565360H	208	276	0.04	0.018	0.24	9520						
565361H	208	276	0.04	0.015	0.34	10980						
565362H	208	276	0.07	0.021	0.55	10700						
565363H	208	273	0.07	0.029	0.41	12100						
565364H	208	276	0.07	0.016	0.41	10350						
565365H	208	276	0.10	0.019	0.89	11500						
565366H	208	276	0.06	0.015	0.58	11570						
565367H	208	276	0.06	0.019	0.24	9700						
565368H	208	276	0.09	0.043	1.34	10920						
565369H	208	276	0.41	0.022	0.89	11750						
565370H	208	273	0.38	0.025	1.17	11970						
565371H	208	276	0.40	0.016	0.45	11250						
565372H	208	276	0.75	0.024	1.10	10220						
565373H	208	274	0.90	0.025	2.64	6000						
565374H	208	273	1.00	0.023	1.85	12600						
565375H	208	276	0.54	0.014	0.69	10600						
565376H	208	276	0.17	0.020	0.24	10000						
565377H	208	276	0.38	0.022	0.27	9590						
565378H	208	276	0.35	0.040	0.31	10600						
565379H	208	273	0.50	0.032	0.48	12000						
565380H	208	276	0.29	0.018	0.24	11600						
565381H	208	276	0.21	0.014	0.34	11200						
565382H	208	276	0.40	0.033	0.34	10500						

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-203
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-SEP-93
Invoice No. : I9321441
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321441

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
565383H	208	276	0.15	0.027	0.17	11060
565384H	208	276	0.21	0.058	0.24	11760
565385H	208	276	0.14	0.063	0.14	10640
565386H	208	276	0.15	0.014	0.14	11280
565387H	208	273	0.28	0.025	0.21	15100
565388H	208	276	0.17	0.021	0.21	11000
565389H	208	276	0.17	0.047	0.48	10740
565390H	208	276	0.17	0.023	0.34	10660
565391H	208	276	0.17	0.019	0.34	9640
565392H	208	276	0.10	0.024	0.24	9520
565393H	208	276	0.14	0.035	0.34	11460
565394H	208	273	0.09	0.011	0.14	12560
565395H	208	276	0.10	0.021	0.27	7500
565396H	208	276	0.07	0.011	0.14	11780
565397H	208	273	0.09	0.033	0.14	12120
565398H	208	276	0.13	0.015	0.27	11020
565399H	208	276	0.17	0.018	0.38	11680
565400H	208	273	0.12	0.025	0.31	12100
565401H	208	276	0.09	0.015	0.24	11460
565402H	208	273	0.05	0.009	0.14	12300
565403H	208	273	0.12	0.016	0.21	12740
565404H	208	276	0.09	0.013	0.17	11400
565405H	208	276	0.15	0.049	0.24	11380
565406H	208	276	0.27	0.074	0.34	11720
565407H	208	276	0.46	0.088	0.38	11640
565408H	208	276	0.13	0.035	0.17	10420
565409H	208	273	0.25	0.052	0.31	12420
565410H	208	273	0.13	0.021	0.17	12380
565411H	208	273	0.07	0.035	0.07	12360
565412H	208	273	0.06	0.161	0.03	12260
565413H	208	273	0.11	0.029	0.10	11840
565414H	208	276	0.03	0.103	0.07	11380
565415H	208	276	0.24	0.040	0.24	11000
565416H	208	276	0.18	0.030	0.21	11160
565417H	208	276	0.08	0.024	0.14	9620
565418H	208	273	0.28	0.042	0.31	12540
565419H	208	276	0.07	0.015	0.14	11640
565420H	208	273	0.04	0.017	0.03	12160
565421H	208	273	0.08	0.024	0.14	12840
565422H	208	273	0.11	0.044	0.21	11960

CERTIFICATION: Sin Zeinab

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-203
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-SEP-93
Invoice No. : I9321441
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321441

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
565423H	208	276	0.16	0.043	0.21	11740						
565424H	208	273	0.14	0.047	0.21	12460						
565425H	208	276	0.10	0.025	0.24	11260						
565426H	208	276	0.14	0.048	0.31	11600						
565427H	208	273	0.06	0.046	0.10	12720						
565428H	208	273	0.04	0.013	0.03	12860						
565429H	208	276	0.06	0.035	0.10	11780						
565430H	208	273	0.09	0.044	0.07	12840						
565431H	208	273	0.07	0.028	0.10	12580						
565432H	208	273	0.06	0.015	0.07	12860						
565433H	208	273	0.06	0.020	0.07	13040						
565434H	208	273	0.05	0.013	0.03	11960						
565435H	208	276	0.04	0.034	< 0.03	11720						
565436H	208	273	0.05	0.023	0.03	12160						
565437H	208	273	0.04	0.018	< 0.03	12980						
565438H	208	273	0.04	0.018	< 0.03	12200						
565439H	208	273	0.04	0.007	< 0.03	12680						
565440H	208	276	0.03	0.033	< 0.03	11740						
565441H	208	276	0.02	0.021	< 0.03	11780						
565442H	208	273	0.03	0.011	< 0.03	13100						
565443H	208	276	0.03	0.047	0.03	11420						
565444H	208	273	0.03	0.006	< 0.03	11860						
565445H	208	273	0.05	0.007	0.07	12580						
565446H	208	273	0.04	0.007	0.03	11840						
565447H	208	273	0.02	0.022	< 0.03	12040						
565448H	208	273	0.06	0.018	< 0.03	12580						
565449H	208	273	0.03	0.015	< 0.03	12840						
565450H	208	273	0.02	0.011	< 0.03	12540						
565451H	208	273	0.04	0.024	0.07	12120						
565452H	208	273	0.06	0.017	0.07	13760						
565453H	208	273	0.04	0.010	< 0.03	12440						
565454H	208	273	0.03	0.008	0.03	11920						
565455H	208	273	0.03	0.018	< 0.03	12840						
565456H	208	273	0.02	0.028	< 0.03	12420						
565457H	208	273	0.03	0.030	0.07	12500						
565458H	208	276	0.05	0.199	0.03	11580						
565459H	208	274	0.06	0.035	< 0.03	4740						

CERTIFICATION: David Zepeda

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO-203
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :3
Certificate Date: 26-SEP-93
Invoice No. :I9321442
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321442

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565343H	299	229	0.4	1.98	< 2	110	< 0.5	< 2	0.29	< 0.5	6	96	1265	2.97	10	< 1	0.51	30	1.04	120	110
565344H	299	229	0.6	2.42	4	150	< 0.5	< 2	0.24	< 0.5	7	127	1140	2.93	10	< 1	0.79	10	1.43	145	84
565345H	299	229	1.0	2.06	< 2	130	< 0.5	< 2	0.20	< 0.5	7	172	675	2.68	10	< 1	1.03	20	1.47	125	68
565346H	299	229	2.2	1.74	2	140	< 0.5	< 2	0.10	< 0.5	7	177	734	2.89	< 10	< 1	0.86	20	0.93	120	136
565347H	299	229	3.2	1.88	6	190	< 0.5	< 2	0.07	< 0.5	3	164	696	3.18	< 10	< 1	1.02	20	1.12	160	139
565348H	299	229	2.0	1.97	10	140	< 0.5	< 2	0.15	< 0.5	8	100	842	3.93	10	< 1	0.80	40	1.12	125	111
565349H	299	229	2.4	2.31	10	170	< 0.5	14	0.15	< 0.5	10	98	681	3.65	10	< 1	1.11	30	1.44	160	153
565350H	299	229	2.0	1.64	6	220	< 0.5	< 2	0.07	< 0.5	8	125	712	3.37	< 10	< 1	0.87	20	0.78	90	93
565351H	299	229	3.4	1.26	44	160	< 0.5	6	0.15	< 0.5	8	97	1050	4.04	< 10	< 1	0.97	20	0.61	95	113
565352H	299	229	2.0	1.56	22	160	< 0.5	< 2	0.85	< 0.5	5	146	893	2.25	< 10	< 1	0.83	20	0.73	115	110
565353H	299	229	1.6	1.64	2	140	< 0.5	< 2	0.07	< 0.5	8	150	468	3.54	< 10	< 1	0.89	10	1.22	155	90
565354H	299	229	1.8	1.48	4	150	< 0.5	< 2	0.12	< 0.5	3	202	550	2.68	< 10	< 1	0.75	30	0.96	115	179
565355H	299	229	1.4	1.95	4	130	< 0.5	2	0.12	< 0.5	4	142	567	3.19	10	< 1	0.94	30	1.35	150	141
565356H	299	229	1.2	2.00	12	170	< 0.5	< 2	0.18	< 0.5	7	107	550	3.47	10	< 1	0.90	30	1.35	155	109
565357H	299	229	0.8	1.63	< 2	150	< 0.5	< 2	0.11	< 0.5	5	155	323	2.10	< 10	< 1	0.79	30	1.14	120	118
565358H	299	229	1.4	2.07	8	160	< 0.5	< 2	0.15	< 0.5	6	115	509	3.46	10	< 1	0.83	20	1.41	170	121
565359H	299	229	1.6	2.26	16	140	< 0.5	< 2	0.14	< 0.5	10	131	508	4.93	10	< 1	0.87	30	1.50	190	133
565360H	299	229	1.2	1.14	< 2	150	< 0.5	< 2	0.06	< 0.5	2	183	432	2.47	< 10	< 1	0.57	20	0.51	70	100
565361H	299	229	1.4	1.03	< 2	120	< 0.5	< 2	0.04	< 0.5	2	182	360	1.72	< 10	< 1	0.53	20	0.53	75	84
565362H	299	229	1.6	2.28	12	90	< 0.5	< 2	0.14	< 0.5	9	205	744	4.24	10	< 1	1.27	20	1.61	180	113
565363H	299	229	1.2	2.06	4	150	< 0.5	< 2	0.10	< 0.5	9	146	717	4.74	< 10	< 1	1.11	20	1.57	215	145
565364H	299	229	0.6	1.29	4	100	< 0.5	< 2	0.06	< 0.5	7	190	759	3.02	< 10	< 1	0.73	10	1.00	105	84
565365H	299	229	1.2	1.26	4	110	< 0.5	< 2	0.06	< 0.5	8	167	1005	3.64	< 10	< 1	0.66	10	0.87	105	105
565366H	299	229	1.4	1.19	4	90	< 0.5	< 2	0.07	< 0.5	6	65	657	2.88	< 10	< 1	0.65	20	0.95	105	86
565367H	299	229	1.6	0.40	6	80	< 0.5	< 2	0.03	< 0.5	4	115	628	2.29	< 10	< 1	0.24	< 10	0.19	35	125
565368H	299	229	2.4	1.64	< 2	140	< 0.5	< 2	0.09	< 0.5	8	168	884	3.91	< 10	< 1	0.74	20	0.94	105	233
565369H	299	229	1.2	2.08	< 2	160	< 0.5	< 2	0.16	0.5	11	89	3900	4.62	< 10	< 1	0.92	10	1.41	125	115
565370H	299	229	1.8	1.50	4	130	< 0.5	< 2	0.11	< 0.5	10	178	3500	4.03	< 10	< 1	0.80	10	1.01	115	131
565371H	299	229	0.6	1.67	4	150	< 0.5	< 2	0.12	< 0.5	12	124	3930	4.92	10	< 1	1.03	10	1.42	130	79
565372H	299	229	1.2	2.06	< 2	160	< 0.5	2	0.22	< 0.5	12	111	7090	3.32	< 10	< 1	0.94	20	1.18	125	134
565373H	299	229	2.6	1.48	16	110	< 0.5	< 2	0.20	9.5	12	147	9160	3.19	10	< 1	0.57	40	0.65	165	131
565374H	299	229	3.8	1.21	6	100	< 0.5	< 2	0.11	< 0.5	8	222	>10000	3.12	< 10	< 1	0.32	30	0.10	35	133
565375H	299	229	2.0	1.77	10	210	< 0.5	< 2	0.21	< 0.5	12	167	5480	3.33	10	< 1	0.70	20	0.84	140	73
565376H	299	229	0.2	2.23	< 2	160	< 0.5	< 2	0.26	< 0.5	17	85	1675	5.07	10	< 1	1.31	10	1.89	220	97
565377H	299	229	1.4	2.23	14	100	< 0.5	2	0.29	0.5	17	103	3840	4.60	10	< 1	1.03	10	1.31	185	116
565378H	299	229	2.6	1.16	32	80	< 0.5	2	0.28	0.5	22	165	3490	4.12	< 10	< 1	0.45	20	0.32	470	227
565379H	299	229	5.0	0.46	38	30	< 0.5	60	0.17	1.5	21	79	5020	6.68	< 10	< 1	0.15	20	0.16	690	176
565380H	299	229	2.0	0.80	10	30	< 0.5	10	0.11	1.0	14	193	2950	6.41	< 10	< 1	0.38	10	0.14	305	96
565381H	299	229	2.2	0.44	116	30	< 0.5	10	0.44	1.5	20	83	2120	7.24	< 10	< 1	0.22	10	0.31	990	74
565382H	299	229	2.6	1.08	20	10	< 0.5	4	0.62	0.5	16	165	4200	9.40	10	< 1	0.53	10	0.33	390	178

CERTIFICATION: Stuart Bichler

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Project : CASINO-203
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Page Number :1-B
Total Pages :3
Certificate Date: 26-SEP-93
Invoice No. :19321442
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321442

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565343H	299	229	0.03	8	480	12	2	6	11	0.02	< 10	< 10	58	< 10	76
565344H	299	229	0.04	9	500	2	< 2	9	10	0.08	< 10	< 10	68	< 10	76
565345H	299	229	0.04	11	750	6	2	8	14	0.11	< 10	< 10	66	< 10	62
565346H	299	229	0.04	8	340	8	< 2	4	13	0.06	< 10	< 10	51	< 10	58
565347H	299	229	0.05	8	430	2	2	5	17	0.07	< 10	< 10	57	< 10	60
565348H	299	229	0.06	13	970	< 2	< 2	7	24	0.07	< 10	< 10	64	< 10	56
565349H	299	229	0.04	14	930	2	2	7	21	0.11	< 10	< 10	74	10	78
565350H	299	229	0.04	10	620	2	< 2	7	19	0.08	< 10	< 10	60	< 10	68
565351H	299	229	0.08	9	460	14	2	6	20	0.06	< 10	< 10	37	< 10	72
565352H	299	229	0.03	7	420	12	2	5	16	0.06	< 10	< 10	41	< 10	46
565353H	299	229	0.06	11	440	2	2	9	18	0.10	< 10	< 10	90	< 10	62
565354H	299	229	0.05	8	340	< 2	< 2	5	20	0.05	< 10	< 10	40	< 10	48
565355H	299	229	0.06	10	470	4	2	8	19	0.09	< 10	< 10	67	< 10	56
565356H	299	229	0.10	11	880	< 2	2	7	43	0.10	< 10	< 10	70	10	54
565357H	299	229	0.06	9	520	6	< 2	6	22	0.10	< 10	< 10	50	< 10	40
565358H	299	229	0.06	9	570	4	2	4	26	0.10	< 10	< 10	52	< 10	54
565359H	299	229	0.06	13	740	< 2	2	5	25	0.07	< 10	< 10	61	20	54
565360H	299	229	0.06	6	350	6	2	2	21	0.02	< 10	< 10	25	< 10	30
565361H	299	229	0.05	5	180	12	< 2	3	18	0.03	< 10	< 10	22	< 10	26
565362H	299	229	0.06	16	320	6	< 2	14	17	0.09	< 10	< 10	84	20	62
565363H	299	229	0.05	13	530	6	2	12	15	0.12	< 10	< 10	80	10	86
565364H	299	229	0.04	10	360	4	< 2	6	12	0.08	< 10	< 10	39	< 10	54
565365H	299	229	0.03	10	350	6	2	4	10	0.06	< 10	< 10	54	< 10	40
565366H	299	229	0.02	8	470	12	2	6	7	0.09	< 10	< 10	50	< 10	44
565367H	299	229	0.02	5	180	16	2	1	7	0.01	< 10	< 10	14	< 10	22
565368H	299	229	0.04	9	770	24	< 2	9	11	0.09	< 10	< 10	77	< 10	62
565369H	299	229	0.03	10	970	36	4	11	10	0.13	< 10	< 10	91	< 10	72
565370H	299	229	0.05	11	640	22	2	8	12	0.10	< 10	< 10	75	10	44
565371H	299	229	0.03	14	480	26	< 2	11	10	0.14	< 10	< 10	94	< 10	48
565372H	299	229	0.04	12	810	26	< 2	9	14	0.10	< 10	< 10	73	< 10	50
565373H	299	229	0.01	11	560	70	4	9	10	0.04	< 10	< 10	55	< 10	64
565374H	299	229	0.01	13	480	112	2	3	12	< 0.01	< 10	< 10	19	10	62
565375H	299	229	0.03	9	540	26	< 2	8	14	0.06	< 10	< 10	61	10	48
565376H	299	229	0.04	9	970	18	4	17	9	0.21	< 10	< 10	142	10	50
565377H	299	229	0.04	12	940	50	< 2	12	14	0.13	< 10	< 10	96	10	56
565378H	299	229	0.01	14	530	36	8	4	12	0.01	< 10	< 10	34	10	118
565379H	299	229	< 0.01	11	330	68	6	7	6	< 0.01	< 10	< 10	26	10	154
565380H	299	229	0.01	9	270	40	4	1	8	< 0.01	< 10	< 10	12	10	104
565381H	299	229	< 0.01	12	700	34	14	6	8	< 0.01	< 10	< 10	28	20	166
565382H	299	229	0.01	11	530	24	8	3	13	< 0.01	< 10	< 10	25	20	80

CERTIFICATION: Ian Bichler

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Certificate Date: 26-SEP-93
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565383H	299	229	1.4	0.36	16	60	< 0.5	< 2	0.21	< 0.5	12	101	1595	3.79	< 10	< 1	0.20	10	0.13	335	185
565384H	299	229	1.8	0.58	16	110	< 0.5	< 2	0.34	0.5	9	195	2090	2.77	< 10	< 1	0.30	10	0.19	305	339
565385H	299	229	0.6	0.26	10	100	< 0.5	< 2	0.35	0.5	8	108	1415	2.35	< 10	< 1	0.14	30	0.18	280	374
565386H	299	229	0.8	0.73	16	110	< 0.5	< 2	0.35	0.5	10	153	1600	3.04	< 10	< 1	0.34	10	0.23	685	81
565387H	299	229	5.4	0.93	72	40	< 0.5	6	0.82	29.5	13	131	2940	5.78	< 10	< 1	0.38	10	0.46	1155	149
565388H	299	229	3.2	0.60	20	230	< 0.5	< 2	0.94	4.0	15	84	1625	2.81	< 10	< 1	0.21	20	0.52	675	117
565389H	299	229	0.6	1.83	18	190	< 0.5	< 2	1.48	0.5	17	80	1650	5.01	10	< 1	0.71	30	1.05	460	253
565390H	299	229	0.8	0.50	14	70	< 0.5	< 2	0.65	1.0	20	94	1670	3.42	< 10	< 1	0.16	30	0.30	530	132
565391H	299	229	0.6	1.08	34	260	< 0.5	< 2	0.47	1.0	19	146	1670	4.51	10	< 1	0.26	30	0.38	585	107
565392H	299	229	0.4	1.18	8	130	< 0.5	< 2	0.53	< 0.5	14	113	1025	3.99	10	< 1	0.44	30	0.62	425	157
565393H	299	229	0.6	2.06	4	130	< 0.5	< 2	1.35	< 0.5	15	72	1290	3.74	10	< 1	1.00	30	1.21	400	192
565394H	299	229	0.8	1.03	< 2	80	< 0.5	< 2	2.14	< 0.5	9	135	816	2.41	10	< 1	0.45	30	0.49	260	59
565395H	299	229	0.6	0.89	< 2	210	< 0.5	< 2	1.69	0.5	8	87	929	2.15	10	< 1	0.49	20	0.68	180	115
565396H	299	229	0.4	1.08	< 2	240	< 0.5	< 2	1.01	< 0.5	9	119	673	2.99	10	< 1	0.55	20	0.75	145	61
565397H	299	229	0.8	1.17	4	230	< 0.5	< 2	2.02	< 0.5	7	110	838	2.13	< 10	< 1	0.51	20	0.59	175	161
565398H	299	229	0.8	1.39	14	160	< 0.5	< 2	1.58	< 0.5	9	169	1210	3.05	10	< 1	0.59	20	0.75	210	83
565399H	299	229	1.2	0.85	10	80	< 0.5	< 2	1.21	< 0.5	9	212	1605	3.88	< 10	< 1	0.32	10	0.45	285	89
565400H	299	229	0.6	1.78	12	100	< 0.5	< 2	1.66	< 0.5	12	106	1145	2.77	10	< 1	0.81	20	1.04	145	128
565401H	299	229	0.6	1.15	6	60	< 0.5	< 2	1.84	< 0.5	6	142	878	2.79	10	< 1	0.40	20	0.64	165	81
565402H	299	229	0.2	2.28	< 2	490	< 0.5	< 2	1.87	< 0.5	13	112	521	3.63	10	< 1	1.26	10	1.65	190	45
565403H	299	229	0.6	1.94	14	230	< 0.5	< 2	2.45	< 0.5	15	89	1100	3.42	10	< 1	1.04	10	1.29	215	85
565404H	299	229	0.2	1.15	12	600	< 0.5	< 2	1.76	< 0.5	6	145	829	2.02	< 10	< 1	0.49	10	0.71	120	66
565405H	299	229	1.0	1.11	2	330	< 0.5	< 2	1.83	1.0	10	205	1435	2.86	10	< 1	0.49	20	0.58	295	271
565406H	299	229	1.6	0.85	26	90	< 0.5	< 2	0.66	3.0	17	131	2560	2.92	< 10	< 1	0.21	30	0.25	595	406
565407H	299	229	2.4	0.66	32	60	< 0.5	2	0.46	4.0	24	171	4590	4.57	< 10	< 1	0.25	20	0.16	845	495
565408H	299	229	1.0	0.80	6	110	< 0.5	< 2	1.30	< 0.5	10	132	1240	2.52	< 10	< 1	0.24	20	0.25	365	186
565409H	299	229	2.4	0.76	24	70	< 0.5	2	0.95	< 0.5	14	165	2570	2.34	< 10	< 1	0.37	10	0.26	185	285
565410H	299	229	1.2	0.83	28	60	< 0.5	< 2	0.71	< 0.5	7	131	1325	2.54	< 10	< 1	0.24	20	0.23	245	112
565411H	299	229	0.6	1.16	24	90	< 0.5	2	0.90	< 0.5	7	181	678	3.22	< 10	< 1	0.36	20	0.28	210	188
565412H	299	229	0.8	0.93	10	120	< 0.5	< 2	1.64	< 0.5	6	180	572	2.21	10	< 1	0.36	50	0.42	135	879
565413H	299	229	1.4	1.07	< 2	110	< 0.5	< 2	1.39	< 0.5	7	209	1115	1.75	< 10	< 1	0.53	20	0.47	120	142
565414H	299	229	0.6	0.75	4	60	< 0.5	< 2	0.41	< 0.5	11	129	342	1.86	10	< 1	0.38	50	0.14	135	585
565415H	299	229	2.0	0.76	2	90	< 0.5	< 2	1.15	0.5	11	239	2350	2.22	< 10	< 1	0.29	20	0.42	355	222
565416H	299	229	1.0	1.09	34	80	< 0.5	< 2	0.92	1.5	16	158	1720	3.92	10	< 1	0.39	20	0.57	435	143
565417H	299	229	0.6	1.28	2	200	< 0.5	< 2	1.61	< 0.5	10	137	788	3.05	10	< 1	0.61	20	0.75	205	112
565418H	299	229	3.4	0.90	2	100	< 0.5	< 2	0.72	0.5	9	113	2730	2.70	< 10	< 1	0.44	10	0.48	230	225
565419H	299	229	0.6	1.43	10	90	< 0.5	< 2	0.90	< 0.5	7	166	687	2.86	10	< 1	0.43	20	0.49	135	82
565420H	299	229	0.2	1.28	8	100	< 0.5	2	0.90	< 0.5	6	131	379	2.64	< 10	< 1	0.49	10	0.56	105	94
565421H	299	229	0.8	1.13	32	110	< 0.5	< 2	1.37	< 0.5	11	153	820	2.38	< 10	< 1	0.48	10	0.50	95	126
565422H	299	229	0.8	1.23	12	230	< 0.5	< 2	1.71	< 0.5	6	122	1085	2.34	10	< 1	0.40	20	0.53	145	225

CERTIFICATION: Ian H Bichler

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o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-203
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-SEP-93
Invoice No. :19321442
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321442

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565383H	299	229	< 0.01	6	260	8	10	1	12	< 0.01	< 10	< 10	7	< 10	66
565384H	299	229	0.01	7	150	12	10	1	11	< 0.01	< 10	< 10	10	< 10	60
565385H	299	229	0.01	6	100	12	8	< 1	7	< 0.01	< 10	< 10	6	< 10	64
565386H	299	229	0.01	7	160	22	10	1	13	< 0.01	< 10	< 10	10	10	84
565387H	299	229	0.01	10	540	2560	36	4	15	< 0.01	< 10	< 10	25	20	1570
565388H	299	229	0.01	7	510	1120	10	4	17	< 0.01	< 10	< 10	24	10	236
565389H	299	229	0.01	11	1030	< 2	24	11	27	0.07	< 10	< 10	84	20	58
565390H	299	229	< 0.01	7	570	6	6	5	12	< 0.01	< 10	< 10	26	10	88
565391H	299	229	0.01	11	530	< 2	20	5	22	< 0.01	< 10	< 10	52	10	80
565392H	299	229	0.01	8	660	6	8	9	12	0.05	< 10	< 10	56	10	58
565393H	299	229	0.01	9	950	34	6	15	23	0.12	< 10	< 10	82	20	56
565394H	299	229	0.01	6	470	4	2	5	22	0.02	< 10	< 10	33	10	28
565395H	299	229	0.02	6	600	42	2	7	28	0.05	< 10	< 10	37	10	26
565396H	299	229	0.04	8	400	< 2	2	6	30	0.05	< 10	< 10	56	10	26
565397H	299	229	0.01	8	440	6	10	5	28	0.03	< 10	< 10	34	10	22
565398H	299	229	0.02	9	470	< 2	4	7	23	0.05	< 10	< 10	48	10	30
565399H	299	229	0.01	9	450	2	8	3	13	0.01	< 10	< 10	35	20	36
565400H	299	229	0.01	6	850	2	12	11	26	0.08	< 10	< 10	67	10	26
565401H	299	229	0.01	8	470	< 2	12	4	26	0.02	< 10	< 10	39	10	20
565402H	299	229	0.02	10	550	< 2	4	15	71	0.15	< 10	< 10	89	10	32
565403H	299	229	0.01	7	610	< 2	16	13	29	0.11	< 10	< 10	82	10	34
565404H	299	229	0.01	7	420	4	4	4	57	0.03	< 10	< 10	32	< 10	16
565405H	299	229	0.02	9	320	30	8	5	25	0.03	< 10	< 10	41	10	66
565406H	299	229	0.01	9	370	8	34	6	12	< 0.01	< 10	< 10	28	10	180
565407H	299	229	0.01	9	250	8	66	2	9	< 0.01	< 10	< 10	17	10	348
565408H	299	229	0.01	7	350	4	10	5	12	< 0.01	< 10	< 10	24	< 10	58
565409H	299	229	0.01	6	330	8	24	2	11	< 0.01	< 10	< 10	15	10	22
565410H	299	229	0.01	6	350	8	14	4	9	< 0.01	< 10	< 10	27	< 10	20
565411H	299	229	0.01	6	380	2	14	5	10	< 0.01	< 10	< 10	32	10	20
565412H	299	229	0.01	5	450	4	16	3	22	0.01	< 10	< 10	25	< 10	10
565413H	299	229	0.01	6	410	< 2	2	2	18	0.01	< 10	< 10	20	< 10	12
565414H	299	229	0.01	4	480	< 2	4	1	11	< 0.01	< 10	< 10	11	< 10	22
565415H	299	229	0.01	7	310	< 2	4	3	14	< 0.01	< 10	< 10	17	< 10	76
565416H	299	229	0.01	12	520	2	12	6	15	0.03	< 10	< 10	52	10	60
565417H	299	229	0.01	7	520	< 2	4	6	25	0.04	< 10	< 10	37	10	24
565418H	299	229	0.01	6	370	22	8	4	14	0.03	< 10	< 10	29	< 10	46
565419H	299	229	0.01	8	470	2	8	4	19	0.02	< 10	< 10	32	10	22
565420H	299	229	0.01	8	340	8	4	3	20	0.03	< 10	< 10	31	< 10	22
565421H	299	229	0.01	7	290	2	6	3	22	0.02	< 10	< 10	29	10	18
565422H	299	229	0.01	6	800	< 2	6	4	30	0.02	< 10	< 10	33	10	26

CERTIFICATION: Stan Pitchler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO-203
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :3
Certificate Date: 26-SEP-93
Invoice No. :I9321442
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321442

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565423H	299	229	2.4	0.80	14	90	< 0.5	6	2.47	< 0.5	10	194	1635	3.58	< 10	< 1	0.39	10	0.34	215	229
565424H	299	229	1.4	1.57	26	190	< 0.5	2	1.17	< 0.5	11	157	1350	3.56	10	< 1	0.79	20	0.80	215	255
565425H	299	229	1.8	1.42	< 2	90	< 0.5	24	2.30	< 0.5	9	160	912	2.75	10	< 1	0.51	20	0.58	160	127
565426H	299	229	1.4	1.86	6	190	< 0.5	2	1.98	< 0.5	12	163	1430	4.15	10	< 1	0.82	10	0.97	180	262
565427H	299	229	0.6	1.36	12	300	< 0.5	4	2.19	< 0.5	6	146	569	2.33	10	< 1	0.68	40	0.83	165	240
565428H	299	229	0.4	1.05	< 2	170	< 0.5	6	1.54	< 0.5	5	205	383	3.17	< 10	< 1	0.45	10	0.50	240	70
565429H	299	229	1.2	1.07	18	90	< 0.5	6	1.15	< 0.5	6	202	620	2.66	< 10	< 1	0.48	10	0.40	235	185
565430H	299	229	1.6	1.04	4	140	< 0.5	< 2	1.74	< 0.5	6	130	846	2.29	< 10	< 1	0.40	10	0.41	130	243
565431H	299	229	0.6	1.43	8	150	< 0.5	2	1.37	< 0.5	9	153	656	3.80	10	< 1	0.43	20	0.54	150	150
565432H	299	229	0.8	1.24	18	70	< 0.5	4	1.20	< 0.5	9	150	603	3.86	10	< 1	0.43	10	0.46	130	76
565433H	299	229	0.4	1.24	12	30	< 0.5	< 2	1.02	< 0.5	7	119	564	3.82	< 10	< 1	0.51	< 10	0.52	115	101
565434H	299	229	0.4	1.17	2	50	< 0.5	< 2	1.28	< 0.5	9	143	534	3.79	< 10	< 1	0.46	< 10	0.47	150	61
565435H	299	229	0.2	1.29	6	210	< 0.5	< 2	1.00	< 0.5	4	125	365	2.27	< 10	< 1	0.44	10	0.59	150	182
565436H	299	229	0.2	1.46	4	110	< 0.5	< 2	2.02	< 0.5	6	97	433	3.67	< 10	< 1	0.47	10	0.61	160	111
565437H	299	229	0.2	1.13	16	80	< 0.5	< 2	1.14	< 0.5	7	120	388	2.59	< 10	< 1	0.42	10	0.56	105	90
565438H	299	229	0.2	0.99	6	60	< 0.5	< 2	0.73	< 0.5	5	146	417	2.82	< 10	< 1	0.41	10	0.39	80	100
565439H	299	229	0.2	0.91	8	110	< 0.5	< 2	1.18	< 0.5	4	119	398	2.53	< 10	< 1	0.31	10	0.36	135	32
565440H	299	229	0.2	0.88	12	80	< 0.5	< 2	1.12	< 0.5	6	121	261	2.79	< 10	< 1	0.24	10	0.32	175	176
565441H	299	229	< 0.2	1.31	12	90	< 0.5	< 2	0.87	< 0.5	7	117	165	2.84	< 10	< 1	0.28	10	0.35	115	116
565442H	299	229	< 0.2	1.13	6	80	< 0.5	< 2	1.08	< 0.5	6	150	260	3.58	< 10	< 1	0.46	10	0.55	150	53
565443H	299	229	0.2	1.29	18	90	< 0.5	< 2	0.52	< 0.5	8	142	313	3.62	< 10	< 1	0.36	10	0.38	75	265
565444H	299	229	< 0.2	0.98	18	70	< 0.5	< 2	0.72	< 0.5	7	155	281	3.56	< 10	< 1	0.31	10	0.32	70	28
565445H	299	229	< 0.2	1.04	< 2	90	< 0.5	< 2	1.22	< 0.5	7	113	446	3.04	< 10	< 1	0.45	10	0.64	100	33
565446H	299	229	0.2	1.19	2	150	< 0.5	< 2	0.89	< 0.5	8	109	373	2.78	< 10	< 1	0.74	10	1.02	120	38
565447H	299	229	< 0.2	1.50	< 2	150	< 0.5	< 2	0.70	< 0.5	10	88	184	4.00	10	< 1	0.76	10	1.25	130	122
565448H	299	229	0.2	1.13	4	90	< 0.5	< 2	0.80	< 0.5	12	152	592	3.85	10	< 1	0.55	10	0.81	115	103
565449H	299	229	< 0.2	1.36	16	180	< 0.5	2	1.23	< 0.5	9	123	302	3.83	10	< 1	0.70	10	1.00	125	82
565450H	299	229	< 0.2	1.00	6	110	< 0.5	2	0.99	< 0.5	7	151	168	3.19	10	< 1	0.47	10	0.64	95	53
565451H	299	229	< 0.2	1.42	2	150	< 0.5	< 2	0.72	< 0.5	8	138	331	4.62	10	< 1	0.65	10	0.78	105	122
565452H	299	229	0.2	1.22	12	130	< 0.5	< 2	0.80	< 0.5	6	166	529	4.05	< 10	< 1	0.54	< 10	0.69	95	89
565453H	299	229	0.2	1.20	< 2	80	< 0.5	< 2	0.76	< 0.5	7	137	419	5.10	10	< 1	0.64	10	0.78	100	55
565454H	299	229	< 0.2	1.32	2	120	< 0.5	2	0.68	< 0.5	8	144	265	3.86	10	< 1	0.59	20	0.89	125	42
565455H	299	229	< 0.2	1.43	< 2	260	< 0.5	< 2	0.71	< 0.5	9	128	264	4.11	10	< 1	0.69	10	1.01	125	101
565456H	299	229	< 0.2	1.05	4	130	< 0.5	< 2	0.74	< 0.5	7	135	170	3.78	10	< 1	0.41	10	0.71	95	151
565457H	299	229	< 0.2	1.32	< 2	100	< 0.5	< 2	1.08	< 0.5	7	130	286	3.08	< 10	< 1	0.55	< 10	0.71	80	166
565458H	299	229	0.4	1.04	< 2	70	< 0.5	2	1.15	< 0.5	9	163	454	3.34	< 10	< 1	0.52	10	0.60	110	1050
565459H	299	229	0.4	1.26	< 2	150	< 0.5	< 2	0.74	< 0.5	8	136	526	3.42	10	< 1	0.69	10	0.93	115	202

CERTIFICATION: Stewart Bichler

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Project : CASINO-203
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page ber :3-B
Total Pages :3
Certificate Date: 26-SEP-93
Invoice No. : I9321442
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321442

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565423H	299	229	0.01	8	410	8	4	2	15	< 0.01	< 10	< 10	24	10	38
565424H	299	229	0.01	9	490	8	4	7	17	0.07	< 10	< 10	52	10	24
565425H	299	229	0.01	7	560	8	2	4	25	0.02	< 10	< 10	32	10	36
565426H	299	229	0.01	12	450	< 2	6	9	40	0.08	< 10	< 10	65	20	30
565427H	299	229	0.01	6	1870	4	2	7	39	0.03	< 10	< 10	38	10	22
565428H	299	229	0.01	6	430	< 2	< 2	3	31	0.01	< 10	< 10	31	< 10	14
565429H	299	229	0.01	6	500	10	6	3	33	< 0.01	< 10	< 10	17	< 10	24
565430H	299	229	0.01	4	470	12	8	4	30	0.02	< 10	< 10	32	< 10	24
565431H	299	229	0.01	9	890	< 2	4	7	22	0.03	< 10	< 10	58	< 10	24
565432H	299	229	0.01	7	590	6	6	6	16	0.02	< 10	< 10	43	10	20
565433H	299	229	0.02	6	460	< 2	4	4	45	0.02	< 10	< 10	27	10	14
565434H	299	229	0.01	7	390	< 2	2	3	26	0.01	< 10	< 10	25	< 10	10
565435H	299	229	0.01	6	310	6	2	4	27	0.02	< 10	< 10	33	< 10	14
565436H	299	229	0.01	7	540	2	6	4	31	0.02	< 10	< 10	44	10	12
565437H	299	229	0.01	6	450	< 2	6	3	29	0.01	< 10	< 10	20	< 10	8
565438H	299	229	0.01	4	280	4	2	2	20	< 0.01	< 10	< 10	12	< 10	16
565439H	299	229	0.01	6	390	2	4	3	14	< 0.01	< 10	< 10	16	< 10	14
565440H	299	229	0.01	6	530	4	6	3	12	< 0.01	< 10	< 10	24	< 10	16
565441H	299	229	0.01	4	530	< 2	4	5	18	< 0.01	< 10	< 10	30	< 10	16
565442H	299	229	0.02	6	420	2	2	4	39	0.02	< 10	< 10	38	10	12
565443H	299	229	0.01	8	430	4	2	4	15	0.01	< 10	< 10	35	< 10	16
565444H	299	229	0.01	8	380	4	4	3	15	< 0.01	< 10	< 10	38	< 10	12
565445H	299	229	0.03	6	460	4	< 2	4	48	0.01	< 10	< 10	31	< 10	8
565446H	299	229	0.05	6	760	2	2	8	29	0.09	< 10	< 10	51	< 10	18
565447H	299	229	0.05	11	880	< 2	2	7	25	0.09	< 10	< 10	57	< 10	22
565448H	299	229	0.05	9	440	< 2	< 2	5	25	0.04	< 10	< 10	52	10	16
565449H	299	229	0.03	9	590	< 2	2	8	36	0.07	< 10	< 10	61	10	16
565450H	299	229	0.04	7	500	< 2	4	4	30	0.04	< 10	< 10	40	10	14
565451H	299	229	0.03	9	530	< 2	2	7	37	0.06	< 10	< 10	56	20	20
565452H	299	229	0.02	8	510	2	< 2	4	53	0.04	< 10	< 10	47	10	16
565453H	299	229	0.04	8	570	< 2	2	5	43	0.05	< 10	< 10	65	10	14
565454H	299	229	0.06	8	610	< 2	4	8	23	0.05	< 10	< 10	63	10	16
565455H	299	229	0.05	8	540	< 2	2	10	73	0.08	< 10	< 10	76	10	16
565456H	299	229	0.05	6	440	< 2	2	4	42	0.03	< 10	< 10	46	< 10	12
565457H	299	229	0.03	5	300	< 2	4	6	78	0.03	< 10	< 10	49	10	12
565458H	299	229	0.02	4	240	6	10	4	29	0.03	< 10	< 10	29	10	10
565459H	299	229	0.05	8	340	< 2	4	8	30	0.07	< 10	< 10	59	< 10	12

CERTIFICATION: Ian Bichler

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Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-SEP-93
Invoice No. :I9321530
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321530

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
587628	208 274	0.02	0.044	0.10	6600
587629	208 276	0.03	0.107	0.24	11660
587630	208 276	0.07	0.143	0.21	11300
587631	208 273	0.13	0.059	0.34	11880
587632	208 276	0.08	0.155	0.58	9060
587633	208 276	0.04	0.054	0.45	10220
587634	208 276	0.13	0.046	0.62	8700
587635	208 276	0.15	0.149	0.34	10500
587636	208 276	0.14	0.085	0.24	11100
587637	208 276	0.09	0.138	0.51	10000
587638	208 276	0.06	0.184	0.24	11650
587639	208 276	0.08	0.116	0.38	10900
587640	208 273	0.14	0.147	0.34	12600
587641	208 276	0.05	0.105	0.27	9600
587642	208 276	0.05	0.053	0.17	9100
587643	208 276	0.20	0.037	0.10	11200
587644	208 273	0.42	0.040	0.31	13800
587645	208 273	0.71	0.040	0.34	12000
587646	208 274	0.30	0.093	0.10	7100
587647	208 276	0.59	0.054	0.10	7500
587648	208 276	0.97	0.054	0.27	7600
587649	208 273	0.86	0.059	0.21	12500
587650	208 276	0.54	0.195	0.41	10200
587651	208 276	0.30	0.035	0.31	8000
587652	208 276	0.32	0.058	0.45	10900
587653	208 276	0.05	0.088	0.17	10350
587654	208 273	0.25	0.049	0.31	12000
587655	208 273	0.15	0.079	0.14	14000
587656	208 276	0.22	0.075	0.10	10120
587657	208 274	0.31	0.051	0.27	6800
587658	208 273	0.31	0.045	0.48	13900
587659	208 276	0.27	0.042	0.31	10380
587660	208 276	0.19	0.048	0.14	8460
587661	208 276	0.03	0.062	0.03	7300
587662	208 273	0.08	0.108	0.07	12160
587663	208 276	0.21	0.035	0.17	10220
587664	208 276	0.25	0.016	0.31	11460
587665	208 274	0.38	0.020	0.27	5900
587666	208 273	0.20	0.075	0.24	11900
587667	208 276	0.19	0.072	0.21	9320

CERTIFICATION: Saul Terrab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-SEP-93
Invoice No. :19321530
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321530

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
587668	208	273	0.27	0.037	0.31	13280
587669	208	276	0.41	0.239	0.48	9300
587670	208	276	0.36	0.041	0.45	10960
587671	208	276	0.29	0.048	0.38	10660
587672	208	274	0.18	0.061	0.24	6360
587673	208	274	0.06	0.043	0.10	6180
587674	208	276	0.20	0.035	0.24	8740
587675	208	276	0.25	0.018	0.21	8360
587676	208	276	0.11	0.022	0.14	8540
587677	208	273	0.21	0.019	0.24	15180
587678	208	276	0.08	0.053	0.10	9040
587679	208	276	0.08	0.038	0.10	10580
587680	208	276	0.13	0.023	0.17	11580
587681	208	273	0.18	0.053	0.24	14380
587682	208	276	0.17	0.038	0.21	10800
587683	208	273	0.13	0.036	0.17	12620
587684	208	273	0.07	0.030	0.10	11940
587685	208	273	0.09	0.018	0.14	12320
587686	208	273	0.07	0.025	0.10	12560
587687	208	273	0.12	0.023	0.17	12380
587688	208	273	0.13	0.020	0.17	12060
587689	208	276	0.18	0.037	0.17	11520
587690	208	276	0.22	0.041	0.31	11800
587691	208	276	0.08	0.042	0.10	11540
587692	208	273	0.07	0.178	0.07	11840
587693	208	276	0.13	0.051	0.14	10660
587694	208	273	0.10	0.078	0.14	12420
587695	208	276	0.09	0.029	0.10	11660
587696	208	276	0.08	0.056	0.14	11680
587697	208	276	0.10	0.066	0.14	10920
587698	208	273	0.07	0.045	0.07	11860
587699	208	273	0.11	0.096	0.14	12040
587700	208	273	0.11	0.023	0.14	13240
587701	208	276	0.07	0.042	0.10	11680
587702	208	273	0.05	0.042	0.10	13740
587703	208	273	0.09	0.104	0.14	13860
587704	208	276	0.05	0.078	0.10	11640
587705	208	276	0.06	0.080	0.07	10840
587706	208	276	0.14	0.047	0.24	11400
587707	208	273	0.06	0.029	0.10	13300

CERTIFICATION: Saul Zemlak

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CERTIFICATE OF ANALYSIS A9321530

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
587708	208	276	0.06	0.062	0.10	11260						
587709	208	276	0.05	0.086	0.07	11720						
587710	208	276	0.08	0.060	0.10	11650						
587711	208	276	0.05	0.027	0.07	11560						
587712	208	270	0.07	0.055	0.07	16800						
587713	208	276	0.10	0.083	0.14	9720						
587714	208	276	0.06	0.177	0.10	9020						
587715	208	276	0.14	0.117	0.24	11650						
587716	208	276	0.10	0.126	0.10	11800						
587717	208	273	0.08	0.054	0.17	12900						
587718	208	273	0.13	0.107	0.14	11840						
587719	208	273	0.11	0.076	0.17	12050						
587720	208	273	0.12	0.023	0.21	12640						
587721	208	276	0.07	0.011	0.10	11760						
587722	208	273	0.05	0.013	0.10	12540						
587723	208	276	0.06	0.012	0.10	11080						
587724	208	276	0.09	0.028	0.17	11240						
587725	208	273	0.08	0.027	0.14	11860						
587726	208	273	0.06	0.026	0.14	11840						
587727	208	273	0.06	0.016	0.10	12050						
587728	208	273	0.07	0.009	0.17	12000						
587729	208	273	0.09	0.022	0.17	13000						
587730	208	276	0.08	0.038	0.24	11600						
587731	208	276	0.15	0.093	0.24	11300						
587732	208	273	0.13	0.037	0.27	12380						
587733	208	276	0.17	0.033	0.34	11500						
587734	208	273	0.12	0.081	0.21	12280						
587735	208	273	0.07	0.077	0.17	12760						
587736	208	273	0.08	0.073	0.14	13040						
587737	208	273	0.18	0.107	0.38	12720						
587738	208	276	0.11	0.116	0.24	11100						
587739	208	276	0.10	0.078	0.17	11000						
587740	208	273	0.17	0.071	0.31	13260						
587741	208	273	0.17	0.057	0.24	12840						
587742	208	273	0.10	0.084	0.17	13160						
587743	208	273	0.19	0.074	0.59	13400						
587744	208	273	0.16	0.128	0.27	13420						
587745	208	273	0.21	0.207	0.34	12780						
587746	208	273	0.13	0.095	0.24	13000						
587747	208	273	0.09	0.083	0.17	12300						

CERTIFICATION: Sind Terrell

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 27-SEP-93
Invoice No. :I9321530
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321530

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
587748	208	273	0.16	0.170	0.24	13020
587749	208	273	0.15	0.116	0.21	11860
587750	208	273	0.11	0.111	0.21	13140
587751	208	273	0.13	0.056	0.21	12900
587752	208	273	0.07	0.197	0.17	12860
587753	208	273	0.10	0.054	0.17	13180
587754	208	273	0.13	0.135	0.38	12840
587755	208	273	0.04	0.128	0.10	12840
587756	208	273	0.06	0.052	0.10	12360
587757	208	273	0.06	0.041	0.10	13000
587758	208	273	0.09	0.187	0.17	12600
587759	208	273	0.07	0.034	0.14	13220
587760	208	273	0.06	0.091	0.14	12620
587761	208	273	0.07	0.081	0.17	12200
587762	208	273	0.06	0.051	0.10	14080
587763	208	273	0.12	0.082	0.21	12040
587764	208	273	0.09	0.053	0.21	12680
587765	208	273	0.09	0.057	0.17	12860
587766	208	273	0.03	0.075	0.07	12660
587767	208	273	0.03	0.084	0.07	13120
587768	208	273	0.04	0.089	0.14	12900
587769	208	273	0.05	0.069	0.17	12580
587770	208	273	0.08	0.150	0.14	12960
587771	208	273	0.16	0.042	0.27	12980
587772	208	273	0.05	0.074	0.14	12760
587773	208	273	0.07	0.039	0.14	13760
587774	208	273	0.03	0.082	0.07	13380
587775	208	273	0.04	0.066	0.07	12680
587776	208	273	0.03	0.071	0.03	14580

CERTIFICATION: Brad Zumlab

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : 19321531
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587628	299	229	0.6	0.42	6	540	< 0.5	< 2	0.03	< 0.5	1	170	153	0.84	< 10	< 1	0.30	30	0.03	30	255
587629	299	229	1.2	0.48	4	430	< 0.5	2	0.01	< 0.5	2	189	309	1.47	< 10	< 1	0.28	40	0.03	20	665
587630	299	229	0.8	0.90	16	180	< 0.5	2	0.01	< 0.5	2	155	736	2.02	< 10	< 1	0.29	50	0.16	20	870
587631	299	229	2.0	1.44	18	140	< 0.5	< 2	0.06	< 0.5	8	84	1330	3.15	< 10	< 1	0.43	30	0.41	55	335
587632	299	229	2.0	1.20	10	230	< 0.5	4	0.02	< 0.5	4	91	785	2.84	< 10	< 1	0.56	40	0.33	40	884
587633	299	229	1.8	0.92	12	460	< 0.5	< 2	0.01	< 0.5	2	195	420	1.69	< 10	< 1	0.52	40	0.26	30	322
587634	299	229	2.8	2.91	20	460	< 0.5	< 2	0.09	< 0.5	9	180	1225	4.36	< 10	< 1	1.26	30	1.46	100	236
587635	299	229	2.2	1.54	30	400	< 0.5	< 2	0.10	< 0.5	6	153	1500	3.55	< 10	< 1	0.52	60	0.37	35	889
587636	299	229	1.2	1.93	4	670	< 0.5	< 2	0.13	< 0.5	9	125	1380	2.86	< 10	< 1	0.60	20	0.75	75	480
587637	299	229	2.2	0.89	2	220	< 0.5	< 2	0.03	< 0.5	4	145	871	2.22	< 10	< 1	0.40	30	0.17	30	809
587638	299	229	1.4	0.75	8	300	< 0.5	< 2	0.01	< 0.5	3	168	623	2.19	< 10	< 1	0.44	40	0.17	20	1050
587639	299	229	2.0	0.63	4	210	< 0.5	2	< 0.01	< 0.5	3	203	757	2.26	< 10	< 1	0.37	40	0.07	15	698
587640	299	229	1.2	1.16	20	270	< 0.5	2	0.02	< 0.5	10	142	1370	2.75	< 10	< 1	0.49	50	0.21	25	840
587641	299	229	1.2	0.63	6	240	< 0.5	2	0.01	< 0.5	2	183	454	1.62	< 10	< 1	0.28	40	0.07	15	619
587642	299	229	0.8	1.17	4	240	< 0.5	2	0.04	< 0.5	6	135	467	1.88	< 10	< 1	0.42	30	0.25	20	288
587643	299	229	0.4	0.72	4	80	< 0.5	2	0.05	< 0.5	4	175	1960	1.20	< 10	< 1	0.31	40	0.16	25	207
587644	299	229	1.2	1.16	< 2	110	< 0.5	4	0.08	< 0.5	8	216	4090	1.95	< 10	< 1	0.48	10	0.48	50	207
587645	299	229	0.6	2.36	< 2	220	< 0.5	< 2	0.14	< 0.5	10	129	6580	2.20	< 10	< 1	1.04	40	1.43	80	192
587646	299	229	0.4	0.87	8	110	< 0.5	2	0.07	< 0.5	6	112	2930	0.94	< 10	< 1	0.30	50	0.22	20	522
587647	299	229	0.4	1.39	2	110	< 0.5	4	0.09	< 0.5	9	113	6070	1.80	< 10	< 1	0.36	40	0.39	35	289
587648	299	229	1.0	2.10	6	150	< 0.5	< 2	0.20	0.5	17	77	9950	2.57	< 10	< 1	0.66	30	0.94	75	285
587649	299	229	1.2	1.35	< 2	70	0.5	44	0.27	1.5	15	97	8850	3.53	< 10	< 1	0.51	30	0.50	250	314
587650	299	229	2.0	1.43	< 2	70	0.5	4	0.88	5.5	17	66	5560	3.80	10	< 1	0.47	40	0.69	345	997
587651	299	229	1.2	1.30	< 2	80	0.5	2	0.94	4.5	22	88	2980	2.70	10	< 1	0.42	40	0.65	375	167
587652	299	229	1.6	1.53	4	60	< 0.5	< 2	1.48	1.0	24	74	3010	3.68	10	< 1	0.59	40	0.83	395	257
587653	299	229	< 0.2	0.90	60	< 10	< 0.5	< 2	1.12	3.0	16	140	474	14.30	10	< 1	0.36	20	0.45	1430	401
587654	299	229	1.8	1.24	316	100	< 0.5	4	1.16	3.0	15	108	2470	3.16	< 10	< 1	0.47	30	0.52	520	225
587655	299	229	0.4	1.54	< 2	160	0.5	< 2	0.98	1.5	10	135	1345	1.51	10	< 1	0.64	40	0.86	155	391
587656	299	229	0.4	1.78	< 2	130	< 0.5	< 2	0.38	4.5	11	83	2100	2.08	< 10	< 1	0.68	30	1.10	70	372
587657	299	229	1.0	2.28	< 2	250	0.5	< 2	0.55	4.0	13	82	2890	2.30	10	< 1	0.59	40	1.65	110	244
587658	299	229	1.8	2.48	< 2	120	< 0.5	< 2	1.05	2.0	19	69	2980	4.09	10	< 1	0.50	30	1.61	155	204
587659	299	229	1.2	2.36	< 2	150	< 0.5	2	1.03	0.5	17	59	2640	3.25	10	< 1	0.40	30	1.51	165	187
587660	299	229	0.6	2.74	6	80	< 0.5	< 2	1.25	< 0.5	14	64	1830	3.36	10	< 1	0.98	30	1.98	130	226
587661	299	229	< 0.2	2.32	< 2	290	< 0.5	< 2	1.45	< 0.5	9	120	292	1.98	10	< 1	1.04	70	1.78	125	285
587662	299	229	0.2	1.52	< 2	100	0.5	2	0.94	< 0.5	12	96	826	1.56	10	< 1	0.47	70	0.92	95	566
587663	299	229	0.6	1.65	< 2	90	< 0.5	< 2	0.44	2.0	15	107	2050	2.28	< 10	< 1	0.50	30	1.20	175	167
587664	299	229	1.0	2.84	< 2	210	< 0.5	< 2	0.73	3.0	15	61	2480	3.96	10	< 1	0.83	20	2.01	165	75
587665	299	229	1.2	2.83	< 2	170	< 0.5	< 2	0.64	2.5	17	45	3780	3.53	< 10	< 1	1.11	10	2.36	145	87
587666	299	229	0.6	2.51	< 2	120	< 0.5	< 2	0.87	< 0.5	15	44	1935	3.24	10	< 1	1.04	20	2.11	135	348
587667	299	229	0.6	2.18	2	200	0.5	< 2	1.46	< 0.5	16	55	1900	2.15	10	< 1	0.88	30	1.62	120	383

CERTIFICATION: John D'Ma

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Project : CASINO 204
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Certificate Date: 29-SEP-93
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CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587628	299	229	0.02	3	90	18	2	< 1	13	< 0.01	< 10	< 10	1	< 10	12
587629	299	229	0.01	4	220	6	4	1	11	< 0.01	< 10	< 10	6	< 10	18
587630	299	229	0.01	6	600	4	4	6	10	< 0.01	< 10	< 10	27	< 10	26
587631	299	229	0.01	8	1140	12	6	7	16	0.01	< 10	< 10	39	< 10	58
587632	299	229	0.01	5	750	4	6	8	14	0.02	< 10	< 10	38	< 10	52
587633	299	229	0.02	6	300	8	2	3	18	0.01	< 10	< 10	22	< 10	26
587634	299	229	0.02	21	1440	2	6	15	21	0.12	< 10	< 10	113	10	62
587635	299	229	0.01	8	1390	6	8	10	34	0.02	< 10	< 10	62	10	44
587636	299	229	0.01	6	550	4	8	9	60	0.06	< 10	< 10	60	< 10	46
587637	299	229	0.01	7	610	4	6	3	12	< 0.01	< 10	< 10	19	< 10	56
587638	299	229	0.01	6	440	2	4	2	13	< 0.01	< 10	< 10	12	< 10	32
587639	299	229	0.01	4	250	4	2	1	10	< 0.01	< 10	< 10	10	< 10	32
587640	299	229	0.01	6	420	4	4	3	13	< 0.01	< 10	< 10	18	< 10	44
587641	299	229	0.01	3	160	12	2	< 1	10	< 0.01	< 10	< 10	3	< 10	26
587642	299	229	0.02	4	500	8	< 2	3	12	< 0.01	< 10	< 10	19	< 10	40
587643	299	229	0.01	6	310	8	< 2	2	9	< 0.01	< 10	< 10	13	< 10	22
587644	299	229	0.01	18	410	10	< 2	6	7	0.04	< 10	< 10	42	< 10	46
587645	299	229	0.02	17	570	8	< 2	11	10	0.12	< 10	< 10	76	< 10	52
587646	299	229	0.01	4	230	10	< 2	2	11	< 0.01	< 10	< 10	10	< 10	20
587647	299	229	0.01	6	330	8	< 2	3	12	< 0.01	< 10	< 10	21	< 10	46
587648	299	229	0.03	9	670	6	< 2	9	11	0.04	< 10	< 10	56	< 10	58
587649	299	229	0.02	9	710	8	< 2	6	12	0.02	< 10	< 10	34	10	136
587650	299	229	0.01	11	1250	12	< 2	6	17	0.01	< 10	< 10	34	10	226
587651	299	229	0.03	8	1130	2	< 2	4	22	< 0.01	< 10	< 10	37	< 10	206
587652	299	229	0.02	10	1270	4	< 2	7	23	0.02	< 10	< 10	44	10	106
587653	299	229	0.01	9	900	90	8	3	12	< 0.01	< 10	< 10	19	20	216
587654	299	229	0.02	7	1070	26	20	3	21	< 0.01	< 10	< 10	28	10	150
587655	299	229	0.04	8	690	2	2	7	23	0.05	< 10	< 10	47	< 10	86
587656	299	229	0.02	7	800	4	< 2	8	18	0.04	< 10	< 10	59	< 10	58
587657	299	229	0.04	8	1010	< 2	< 2	8	19	0.04	< 10	< 10	79	10	58
587658	299	229	0.04	6	1180	2	< 2	8	21	0.07	< 10	< 10	87	10	64
587659	299	229	0.02	6	1250	< 2	< 2	7	21	0.02	< 10	< 10	68	10	68
587660	299	229	0.03	9	1200	6	< 2	13	25	0.11	< 10	< 10	96	10	64
587661	299	229	0.04	11	840	2	< 2	13	23	0.11	< 10	< 10	82	10	48
587662	299	229	0.02	8	470	2	2	6	19	0.02	< 10	< 10	34	< 10	62
587663	299	229	0.01	7	760	4	< 2	3	16	0.01	< 10	< 10	30	< 10	116
587664	299	229	0.12	6	1470	< 2	< 2	12	42	0.16	< 10	< 10	131	10	62
587665	299	229	0.09	8	1270	2	2	18	28	0.25	< 10	< 10	165	10	58
587666	299	229	0.05	7	1170	8	< 2	15	22	0.17	< 10	< 10	133	10	52
587667	299	229	0.02	8	960	2	< 2	11	23	0.08	< 10	< 10	81	10	42

CERTIFICATION: John D'Mar

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RCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. :19321531
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587668	299	229	0.8	2.01	< 2	160	< 0.5	< 2	1.60	< 0.5	12	88	2580	2.45	10	< 1	0.56	30	1.35	120	184
587669	299	229	1.6	1.62	< 2	120	< 0.5	< 2	0.85	< 0.5	12	98	4060	2.42	< 10	< 1	0.47	10	1.27	105	1165
587670	299	229	1.6	1.73	< 2	160	< 0.5	< 2	0.87	< 0.5	13	98	3640	2.50	< 10	< 1	0.57	20	1.31	115	208
587671	299	229	1.2	1.74	< 2	190	< 0.5	< 2	0.62	< 0.5	11	94	2850	2.44	< 10	< 1	0.66	10	1.50	115	260
587672	299	229	0.6	1.04	< 2	120	< 0.5	< 2	0.51	< 0.5	8	125	1785	1.15	< 10	< 1	0.33	20	0.80	70	345
587673	299	229	< 0.2	1.04	6	240	< 0.5	< 2	0.63	< 0.5	6	91	597	0.90	< 10	< 1	0.31	40	0.72	65	241
587674	299	229	0.6	1.48	< 2	180	< 0.5	< 2	1.00	< 0.5	9	87	1900	1.74	< 10	< 1	0.51	30	1.10	100	191
587675	299	229	0.6	1.89	< 2	210	< 0.5	< 2	1.26	< 0.5	13	68	2430	2.25	< 10	< 1	0.77	30	1.56	115	88
587676	299	229	< 0.2	1.86	< 2	170	< 0.5	< 2	1.41	< 0.5	9	75	1040	2.26	< 10	< 1	0.76	30	1.55	110	113
587677	299	229	0.6	1.63	< 2	70	0.5	< 2	3.12	0.5	13	70	2090	3.00	10	< 1	0.63	30	0.92	110	89
587678	299	229	< 0.2	1.72	6	210	0.5	4	3.25	< 0.5	8	80	758	2.31	10	< 1	0.80	30	1.12	135	295
587679	299	229	0.2	1.44	4	200	0.5	< 2	2.94	< 0.5	6	75	758	1.27	10	< 1	0.55	40	0.86	100	221
587680	299	229	0.2	1.82	4	230	0.5	< 2	1.60	< 0.5	8	97	1245	1.90	10	< 1	0.66	30	1.14	105	134
587681	299	229	0.4	1.91	12	320	0.5	< 2	1.93	< 0.5	13	85	1730	2.26	10	< 1	0.76	30	1.21	120	302
587682	299	229	0.6	1.89	18	200	0.5	2	1.97	< 0.5	9	91	1790	2.72	10	< 1	0.80	30	1.14	115	224
587683	299	229	0.2	2.08	12	530	0.5	< 2	2.35	< 0.5	7	63	1335	1.89	10	< 1	0.89	40	1.37	130	204
587684	299	229	0.2	1.35	12	140	0.5	2	1.49	< 0.5	11	80	660	1.31	10	< 1	0.36	50	0.72	80	167
587685	299	229	0.2	1.66	8	530	0.5	2	1.67	< 0.5	8	52	919	2.07	10	< 1	0.67	40	1.13	125	102
587686	299	229	0.2	1.48	10	150	0.5	< 2	2.16	< 0.5	6	53	714	1.25	10	< 1	0.62	40	1.00	125	149
587687	299	229	0.4	1.19	2	120	0.5	2	1.82	< 0.5	8	75	1255	1.25	10	< 1	0.35	50	0.74	115	126
587688	299	229	0.6	1.30	8	30	0.5	6	1.38	< 0.5	7	58	1180	2.85	10	< 1	0.53	40	0.84	110	97
587689	299	229	0.6	1.32	2	140	0.5	2	1.73	< 0.5	10	60	1670	1.80	10	< 1	0.34	30	0.64	120	206
587690	299	229	1.4	1.14	12	170	0.5	8	1.43	< 0.5	10	35	2010	1.55	10	< 1	0.44	40	0.75	110	215
587691	299	229	0.2	0.66	6	70	< 0.5	2	1.00	< 0.5	4	75	727	0.98	< 10	< 1	0.20	30	0.48	70	233
587692	299	229	0.2	0.45	4	70	< 0.5	2	1.42	< 0.5	6	71	641	1.09	< 10	< 1	0.21	40	0.62	110	885
587693	299	229	0.2	1.43	8	230	0.5	2	1.15	< 0.5	6	62	1175	1.29	10	< 1	0.54	30	0.96	85	281
587694	299	229	< 0.2	1.35	6	310	0.5	2	1.27	< 0.5	5	45	893	1.34	10	< 1	0.63	40	1.05	100	416
587695	299	229	0.2	1.71	2	340	0.5	< 2	1.57	< 0.5	7	66	785	1.42	10	< 1	0.58	40	1.29	125	147
587696	299	229	0.6	1.53	16	130	0.5	< 2	1.38	< 0.5	8	58	826	2.03	10	< 1	0.57	40	1.10	130	307
587697	299	229	0.4	0.69	4	140	0.5	< 2	1.19	< 0.5	3	58	978	0.70	< 10	< 1	0.25	30	0.51	70	341
587698	299	229	0.2	0.71	2	130	< 0.5	< 2	1.50	< 0.5	3	79	669	0.68	< 10	< 1	0.28	30	0.43	65	267
587699	299	229	0.4	1.58	4	240	0.5	< 2	1.62	< 0.5	7	61	992	1.51	10	< 1	0.57	40	1.15	90	546
587700	299	229	0.2	2.07	8	160	< 0.5	< 2	1.83	< 0.5	12	58	1040	3.12	10	< 1	0.84	30	1.57	125	107
587701	299	229	0.2	1.69	6	320	0.5	< 2	2.22	< 0.5	7	58	758	1.71	10	< 1	0.65	40	1.29	105	219
587702	299	229	< 0.2	1.42	8	130	0.5	< 2	1.58	< 0.5	4	86	492	1.09	10	< 1	0.37	40	0.83	75	226
587703	299	229	0.2	2.32	8	300	0.5	< 2	1.93	< 0.5	7	98	934	1.78	10	< 1	0.80	50	1.43	110	520
587704	299	229	< 0.2	1.98	4	360	0.5	< 2	1.82	< 0.5	6	63	452	1.76	10	< 1	0.91	40	1.37	115	379
587705	299	229	0.6	0.42	20	220	< 0.5	< 2	1.37	< 0.5	2	81	538	0.59	< 10	< 1	0.18	30	0.28	280	459
587706	299	229	0.6	0.64	12	150	< 0.5	< 2	1.27	< 0.5	4	75	1415	0.95	< 10	< 1	0.27	30	0.41	125	247
587707	299	229	0.2	1.09	8	170	< 0.5	< 2	1.97	< 0.5	5	79	581	1.36	10	< 1	0.56	30	1.07	100	171

CERTIFICATION: John D'Orazio

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CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587668	299	229	0.03	7	720	8	< 2	9	26	0.08	< 10	< 10	72	10	36
587669	299	229	0.03	6	510	2	2	8	15	0.09	< 10	< 10	66	< 10	32
587670	299	229	0.04	7	520	4	< 2	10	20	0.10	< 10	< 10	84	10	34
587671	299	229	0.06	6	530	4	< 2	12	16	0.17	< 10	< 10	92	10	32
587672	299	229	0.07	5	310	2	< 2	4	15	0.03	< 10	< 10	29	< 10	24
587673	299	229	0.04	4	540	8	< 2	3	25	0.02	< 10	< 10	25	< 10	26
587674	299	229	0.06	5	680	2	< 2	7	28	0.05	< 10	< 10	62	< 10	28
587675	299	229	0.05	8	960	< 2	2	10	28	0.11	< 10	< 10	76	10	36
587676	299	229	0.06	6	1160	< 2	2	10	29	0.13	< 10	< 10	82	10	28
587677	299	229	0.02	6	1010	2	< 2	8	44	0.06	< 10	< 10	56	10	26
587678	299	229	0.03	7	840	6	2	10	66	0.08	< 10	< 10	63	10	24
587679	299	229	0.02	6	930	2	2	7	48	0.03	< 10	< 10	40	< 10	20
587680	299	229	0.04	4	520	4	< 2	10	37	0.08	< 10	< 10	64	< 10	22
587681	299	229	0.04	4	810	2	2	12	40	0.09	< 10	< 10	75	10	22
587682	299	229	0.03	6	870	2	4	10	34	0.09	< 10	< 10	77	10	22
587683	299	229	0.03	6	860	6	2	12	64	0.10	< 10	< 10	82	< 10	20
587684	299	229	0.01	5	620	8	2	4	44	< 0.01	< 10	< 10	27	< 10	14
587685	299	229	0.02	4	750	6	2	9	108	0.06	< 10	< 10	68	10	18
587686	299	229	0.01	4	880	4	2	8	52	0.04	< 10	< 10	47	< 10	16
587687	299	229	0.01	4	700	6	2	6	50	< 0.01	< 10	< 10	30	< 10	16
587688	299	229	0.01	4	800	8	< 2	8	48	0.03	< 10	< 10	42	10	18
587689	299	229	0.01	3	660	4	< 2	6	52	< 0.01	< 10	< 10	38	< 10	24
587690	299	229	0.01	6	1080	16	2	8	62	0.01	< 10	< 10	41	< 10	28
587691	299	229	0.01	2	320	8	2	2	42	< 0.01	< 10	< 10	11	< 10	18
587692	299	229	0.01	3	720	2	4	3	23	< 0.01	< 10	< 10	13	< 10	12
587693	299	229	0.01	4	600	< 2	2	7	53	0.03	< 10	< 10	47	< 10	16
587694	299	229	0.01	3	750	4	2	9	54	0.07	< 10	< 10	59	< 10	16
587695	299	229	0.01	5	610	4	2	10	75	0.02	< 10	< 10	54	< 10	20
587696	299	229	0.01	5	710	2	4	9	63	0.03	< 10	< 10	51	< 10	24
587697	299	229	0.01	3	410	4	2	3	52	< 0.01	< 10	< 10	16	< 10	16
587698	299	229	0.01	2	460	< 2	2	2	40	< 0.01	< 10	< 10	14	< 10	8
587699	299	229	0.01	5	660	< 2	2	7	72	0.03	< 10	< 10	56	< 10	16
587700	299	229	0.07	4	930	< 2	< 2	12	134	0.16	< 10	< 10	106	10	24
587701	299	229	0.03	6	840	< 2	2	8	124	0.09	< 10	< 10	61	< 10	18
587702	299	229	0.02	3	600	4	2	4	73	0.01	< 10	< 10	32	< 10	14
587703	299	229	0.02	6	1030	< 2	4	9	89	0.07	< 10	< 10	66	< 10	20
587704	299	229	0.03	5	1070	2	2	9	66	0.12	< 10	< 10	66	< 10	18
587705	299	229	0.02	3	160	6	16	1	50	< 0.01	< 10	< 10	5	< 10	18
587706	299	229	0.02	4	370	4	4	2	50	0.01	< 10	< 10	15	< 10	16
587707	299	229	0.05	5	780	2	2	8	97	0.09	< 10	< 10	57	< 10	18

CERTIFICATION: John D'Mar

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Certificate Date: 29-SEP-93
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CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587708	299	229	< 0.2	1.35	8	130	< 0.5	< 2	2.82	< 0.5	6	21	646	1.44	< 10	< 1	0.72	20	1.24	100	357
587709	299	229	< 0.2	1.21	8	150	< 0.5	< 2	2.75	< 0.5	6	59	604	1.35	< 10	< 1	0.68	20	1.06	90	543
587710	299	229	0.2	1.16	6	120	< 0.5	< 2	2.58	< 0.5	5	91	797	1.31	< 10	< 1	0.51	20	0.81	95	363
587711	299	229	< 0.2	1.63	14	140	< 0.5	< 2	2.60	< 0.5	8	57	509	1.96	< 10	< 1	1.06	20	1.50	115	143
587712	299	229	0.2	0.60	2	130	< 0.5	< 2	2.23	< 0.5	3	75	794	0.97	< 10	< 1	0.36	20	0.58	70	360
587713	299	229	0.4	0.71	6	140	< 0.5	< 2	2.54	< 0.5	3	69	1155	0.94	< 10	< 1	0.45	20	0.60	65	523
587714	299	229	< 0.2	0.80	2	130	< 0.5	2	2.41	< 0.5	4	65	656	0.93	< 10	< 1	0.50	20	0.76	70	1060
587715	299	229	0.2	1.40	4	110	< 0.5	< 2	2.35	< 0.5	8	50	1490	1.77	< 10	< 1	0.97	20	1.28	100	682
587716	299	229	< 0.2	1.32	12	140	< 0.5	< 2	2.69	< 0.5	7	49	1055	1.68	< 10	< 1	0.89	20	1.28	100	724
587717	299	229	< 0.2	1.14	2	150	< 0.5	< 2	2.28	< 0.5	7	54	835	1.74	< 10	< 1	0.84	20	1.11	100	331
587718	299	229	0.4	0.97	2	110	< 0.5	4	2.20	< 0.5	9	55	1330	1.77	< 10	< 1	0.68	20	0.87	85	631
587719	299	229	0.2	0.70	6	140	< 0.5	< 2	2.13	< 0.5	5	99	1125	1.13	< 10	< 1	0.48	20	0.63	75	467
587720	299	229	< 0.2	1.54	6	160	< 0.5	< 2	1.73	< 0.5	10	63	1215	3.08	< 10	< 1	1.05	20	1.38	125	120
587721	299	229	< 0.2	1.25	6	140	< 0.5	< 2	1.83	< 0.5	10	84	734	2.84	< 10	< 1	0.81	20	1.16	105	53
587722	299	229	< 0.2	1.33	12	150	0.5	< 2	1.88	< 0.5	12	90	558	3.12	10	< 1	0.78	20	1.15	115	64
587723	299	229	< 0.2	1.45	8	220	0.5	< 2	1.74	< 0.5	9	95	695	2.65	< 10	< 1	0.79	20	1.32	105	68
587724	299	229	0.2	1.40	12	160	< 0.5	2	1.79	< 0.5	8	94	904	2.98	< 10	< 1	0.86	20	1.36	120	189
587725	299	229	0.2	1.24	2	220	< 0.5	2	1.68	< 0.5	7	61	827	2.58	< 10	< 1	0.74	10	1.31	125	140
587726	299	229	< 0.2	1.21	4	230	< 0.5	< 2	1.41	< 0.5	7	68	636	2.69	< 10	< 1	0.78	10	1.28	120	126
587727	299	229	< 0.2	1.21	< 2	210	< 0.5	2	1.85	< 0.5	7	58	560	2.34	< 10	< 1	0.65	20	1.28	120	71
587728	299	229	< 0.2	1.32	< 2	260	< 0.5	< 2	1.34	< 0.5	8	84	715	2.86	< 10	< 1	0.87	10	1.33	120	40
587729	299	229	0.2	1.20	< 2	240	< 0.5	< 2	1.47	< 0.5	7	76	901	2.83	< 10	< 1	0.61	20	1.15	135	114
587730	299	229	1.0	1.45	12	240	< 0.5	< 2	2.38	0.5	9	79	787	2.62	< 10	< 1	0.82	20	1.32	245	223
587731	299	229	0.4	0.85	< 2	120	< 0.5	< 2	2.91	< 0.5	4	35	1565	1.68	< 10	< 1	0.58	10	0.84	90	529
587732	299	229	0.2	0.92	2	160	< 0.5	< 2	1.64	< 0.5	6	98	1405	1.98	< 10	< 1	0.62	10	0.91	90	202
587733	299	229	0.4	1.29	< 2	180	< 0.5	< 2	1.67	< 0.5	8	63	1850	2.43	< 10	< 1	0.85	20	1.11	115	175
587734	299	229	0.2	1.34	2	130	< 0.5	< 2	2.31	< 0.5	7	70	1315	2.36	< 10	< 1	0.73	20	1.02	110	452
587735	299	229	0.2	0.64	6	120	< 0.5	< 2	1.98	< 0.5	3	69	763	0.91	< 10	< 1	0.35	20	0.55	70	436
587736	299	229	0.2	0.88	< 2	160	< 0.5	2	2.38	< 0.5	4	64	765	1.23	< 10	< 1	0.56	20	0.81	75	416
587737	299	229	0.6	1.01	< 2	160	< 0.5	< 2	2.52	< 0.5	6	24	1805	1.53	< 10	< 1	0.64	20	0.99	90	624
587738	299	229	0.2	1.31	< 2	90	< 0.5	2	3.12	< 0.5	6	47	1135	1.81	< 10	< 1	0.87	20	1.22	100	605
587739	299	229	0.2	1.15	< 2	150	< 0.5	< 2	2.70	< 0.5	5	21	995	1.84	< 10	< 1	0.86	20	1.13	95	445
587740	299	229	0.4	1.33	2	110	< 0.5	< 2	2.49	< 0.5	8	72	1725	2.27	< 10	< 1	0.81	20	1.10	95	372
587741	299	229	0.6	0.93	< 2	110	< 0.5	< 2	2.12	< 0.5	8	108	1690	2.04	< 10	< 1	0.64	20	0.76	80	319
587742	299	229	0.2	0.87	< 2	90	< 0.5	< 2	3.47	< 0.5	5	91	1015	1.53	< 10	< 1	0.59	10	0.78	75	425
587743	299	229	0.6	0.93	< 2	60	< 0.5	4	3.22	< 0.5	9	100	1895	2.36	< 10	< 1	0.63	20	0.84	85	362
587744	299	229	0.4	1.07	< 2	90	< 0.5	< 2	2.96	< 0.5	5	109	1640	1.68	< 10	< 1	0.79	10	0.92	80	658
587745	299	229	0.8	0.83	< 2	120	< 0.5	< 2	2.26	< 0.5	4	128	2180	1.11	< 10	< 1	0.43	20	0.49	75	1105
587746	299	229	0.4	0.95	4	80	< 0.5	< 2	2.80	< 0.5	4	170	1275	1.52	< 10	< 1	0.66	20	0.70	75	500
587747	299	229	< 0.2	1.68	4	110	< 0.5	< 2	2.55	< 0.5	7	113	850	2.31	< 10	< 1	0.97	20	1.17	110	420

CERTIFICATION: John D'Mar

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RCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. :I9321531
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587708	299	229	0.03	4	910	2	2	10	145	0.11	< 10	< 10	68	< 10	16
587709	299	229	0.04	6	810	2	4	8	121	0.10	< 10	< 10	52	< 10	16
587710	299	229	0.03	4	600	6	2	6	104	0.05	< 10	< 10	41	< 10	14
587711	299	229	0.08	6	860	2	2	14	126	0.19	< 10	< 10	90	< 10	18
587712	299	229	0.03	2	470	10	2	4	156	0.03	< 10	< 10	24	< 10	14
587713	299	229	0.04	3	460	8	4	4	161	0.04	< 10	< 10	25	< 10	16
587714	299	229	0.04	4	630	2	4	6	121	0.09	< 10	< 10	38	< 10	14
587715	299	229	0.07	6	910	2	4	12	102	0.17	< 10	< 10	82	< 10	18
587716	299	229	0.06	6	880	< 2	2	11	145	0.14	< 10	< 10	73	< 10	16
587717	299	229	0.05	5	850	2	< 2	10	116	0.14	< 10	< 10	68	< 10	16
587718	299	229	0.06	3	730	2	2	7	108	0.12	< 10	< 10	53	< 10	16
587719	299	229	0.06	4	460	6	2	5	124	0.06	< 10	< 10	37	< 10	16
587720	299	229	0.06	9	910	2	< 2	11	104	0.18	< 10	< 10	86	< 10	22
587721	299	229	0.06	14	820	< 2	< 2	7	269	0.13	< 10	< 10	56	< 10	18
587722	299	229	0.05	16	790	2	2	7	323	0.13	< 10	< 10	57	< 10	20
587723	299	229	0.06	15	840	4	2	7	158	0.13	< 10	< 10	65	10	20
587724	299	229	0.06	15	750	< 2	2	7	199	0.18	< 10	< 10	66	< 10	24
587725	299	229	0.03	13	760	< 2	< 2	7	114	0.15	< 10	< 10	58	< 10	22
587726	299	229	0.03	14	720	< 2	< 2	6	86	0.16	< 10	< 10	58	< 10	24
587727	299	229	0.02	15	740	2	< 2	6	100	0.13	< 10	< 10	56	< 10	22
587728	299	229	0.05	16	710	< 2	< 2	7	77	0.18	< 10	< 10	69	< 10	24
587729	299	229	0.04	12	690	2	2	7	113	0.12	< 10	< 10	61	< 10	28
587730	299	229	0.05	21	600	14	14	11	158	0.13	< 10	< 10	70	< 10	44
587731	299	229	0.02	4	460	2	2	7	117	0.10	< 10	< 10	48	< 10	18
587732	299	229	0.05	8	510	6	< 2	5	79	0.13	< 10	< 10	52	< 10	22
587733	299	229	0.07	3	720	4	< 2	12	68	0.16	< 10	< 10	89	< 10	22
587734	299	229	0.05	7	760	2	2	8	106	0.11	< 10	< 10	69	< 10	28
587735	299	229	0.03	3	310	6	2	4	97	0.05	< 10	< 10	34	< 10	22
587736	299	229	0.04	6	480	2	2	6	115	0.10	< 10	< 10	55	< 10	18
587737	299	229	0.02	4	620	< 2	2	8	106	0.12	< 10	< 10	69	< 10	18
587738	299	229	0.04	4	590	2	4	10	129	0.14	< 10	< 10	78	< 10	24
587739	299	229	0.03	4	650	2	2	10	99	0.16	< 10	< 10	78	< 10	20
587740	299	229	0.06	3	820	< 2	< 2	9	85	0.14	< 10	< 10	69	< 10	20
587741	299	229	0.06	5	540	6	< 2	7	106	0.10	< 10	< 10	50	< 10	16
587742	299	229	0.05	4	400	6	2	7	149	0.11	< 10	< 10	53	< 10	16
587743	299	229	0.04	5	440	4	2	7	144	0.10	< 10	< 10	52	< 10	18
587744	299	229	0.07	4	440	4	2	9	138	0.12	< 10	< 10	60	< 10	20
587745	299	229	0.06	4	240	4	2	4	106	0.02	< 10	< 10	22	< 10	14
587746	299	229	0.06	6	230	< 2	4	6	136	0.06	< 10	< 10	44	< 10	16
587747	299	229	0.12	6	660	2	2	11	117	0.17	< 10	< 10	95	< 10	22

CERTIFICATION:

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Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : I9321531
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587748	299	229	0.2	0.66	4	120	< 0.5	< 2	2.38	< 0.5	3	85	1645	0.83	< 10	< 1	0.34	20	0.50	55	947
587749	299	229	0.2	0.86	2	130	< 0.5	2	2.52	< 0.5	4	94	1500	1.14	< 10	< 1	0.42	30	0.61	65	641
587750	299	229	0.2	1.04	< 2	180	< 0.5	2	2.40	< 0.5	5	71	1120	1.58	< 10	< 1	0.66	30	0.90	100	633
587751	299	229	0.2	1.32	< 2	180	< 0.5	< 2	2.11	< 0.5	6	88	1285	1.73	< 10	< 1	0.79	20	1.09	110	290
587752	299	229	< 0.2	1.10	2	160	< 0.5	< 2	2.95	< 0.5	6	73	705	1.68	10	< 1	0.68	40	0.83	90	1130
587753	299	229	0.2	0.84	< 2	140	< 0.5	< 2	3.10	< 0.5	4	66	1080	1.36	< 10	< 1	0.50	40	0.67	85	297
587754	299	229	0.6	0.71	< 2	80	< 0.5	< 2	3.67	< 0.5	3	120	1465	1.04	< 10	< 1	0.37	30	0.49	75	854
587755	299	229	< 0.2	0.65	4	180	< 0.5	< 2	4.31	< 0.5	2	47	463	1.09	< 10	< 1	0.27	20	0.41	120	715
587756	299	229	< 0.2	0.63	2	160	< 0.5	< 2	3.23	< 0.5	2	102	588	0.67	< 10	< 1	0.17	20	0.26	105	307
587757	299	229	0.2	0.98	< 2	210	0.5	< 2	3.26	< 0.5	5	72	598	1.58	< 10	< 1	0.51	20	0.61	155	237
587758	299	229	< 0.2	1.88	< 2	230	0.5	< 2	4.18	< 0.5	8	83	933	2.22	< 10	< 1	1.11	20	1.30	180	894
587759	299	229	0.2	1.01	2	190	< 0.5	< 2	2.74	< 0.5	5	64	719	1.71	< 10	< 1	0.56	20	0.73	115	193
587760	299	229	< 0.2	1.08	4	180	< 0.5	< 2	3.78	< 0.5	4	126	693	1.80	< 10	< 1	0.60	20	0.80	110	518
587761	299	229	< 0.2	1.10	< 2	130	< 0.5	< 2	2.73	< 0.5	6	60	766	1.96	< 10	< 1	0.78	20	0.99	105	448
587762	299	229	< 0.2	1.98	6	150	< 0.5	< 2	2.18	< 0.5	10	82	642	3.40	< 10	< 1	1.17	20	1.43	160	274
587763	299	229	0.2	0.63	4	100	< 0.5	< 2	4.27	< 0.5	2	66	1285	0.90	< 10	< 1	0.25	10	0.48	75	476
587764	299	229	0.2	1.02	4	160	< 0.5	< 2	2.26	< 0.5	5	173	963	1.77	< 10	< 1	0.68	20	0.79	115	304
587765	299	229	0.6	1.06	6	180	< 0.5	2	2.82	< 0.5	6	75	1005	2.19	< 10	< 1	0.53	20	0.82	215	343
587766	299	229	< 0.2	1.41	8	160	< 0.5	< 2	3.07	< 0.5	6	139	318	1.84	< 10	< 1	0.85	20	0.94	115	445
587767	299	229	< 0.2	1.21	6	160	< 0.5	< 2	2.27	< 0.5	5	84	279	1.83	< 10	< 1	0.86	20	1.10	110	498
587768	299	229	< 0.2	1.18	4	170	< 0.5	< 2	1.64	< 0.5	6	119	410	1.82	< 10	< 1	0.82	20	1.08	110	481
587769	299	229	< 0.2	0.97	4	140	< 0.5	< 2	1.88	< 0.5	4	71	564	1.50	< 10	< 1	0.64	20	0.89	90	400
587770	299	229	< 0.2	1.29	6	150	< 0.5	< 2	1.93	< 0.5	6	137	842	1.77	< 10	< 1	0.91	20	1.13	115	850
587771	299	229	0.4	0.71	6	90	< 0.5	< 2	1.61	< 0.5	4	66	1775	1.03	< 10	< 1	0.38	20	0.53	75	246
587772	299	229	< 0.2	0.92	4	180	< 0.5	< 2	2.16	< 0.5	3	155	552	1.00	< 10	< 1	0.50	20	0.60	85	468
587773	299	229	< 0.2	0.97	2	190	< 0.5	< 2	1.78	< 0.5	4	77	749	1.14	< 10	< 1	0.63	20	0.84	85	251
587774	299	229	< 0.2	1.42	2	100	< 0.5	< 2	3.15	< 0.5	7	103	305	1.83	< 10	< 1	0.90	20	1.05	125	452
587775	299	229	< 0.2	0.50	4	110	< 0.5	< 2	1.73	< 0.5	2	73	410	0.60	< 10	< 1	0.27	20	0.36	60	418
587776	299	229	< 0.2	0.94	4	140	< 0.5	< 2	2.62	< 0.5	3	103	261	0.96	< 10	< 1	0.52	10	0.57	75	405

CERTIFICATION: Khai D Ma

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 204
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : I9321531
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321531

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587748	299	229	0.03	3	230	4	4	4	119	0.03	< 10	< 10	29	< 10	14
587749	299	229	0.04	3	480	2	2	4	138	0.04	< 10	< 10	34	< 10	16
587750	299	229	0.04	4	480	6	2	9	106	0.11	< 10	< 10	58	< 10	20
587751	299	229	0.06	4	520	6	< 2	11	92	0.12	< 10	< 10	77	< 10	22
587752	299	229	0.04	5	590	4	4	10	382	0.10	< 10	< 10	60	< 10	18
587753	299	229	0.03	4	400	8	2	8	131	0.08	< 10	< 10	48	< 10	18
587754	299	229	0.05	3	240	8	4	4	163	0.03	< 10	< 10	28	< 10	18
587755	299	229	0.02	3	310	12	4	7	162	0.02	< 10	< 10	25	< 10	16
587756	299	229	0.03	2	180	8	2	2	146	< 0.01	< 10	< 10	11	< 10	14
587757	299	229	0.04	3	390	6	2	8	172	0.06	< 10	< 10	46	< 10	24
587758	299	229	0.08	4	670	< 2	4	16	198	0.18	< 10	< 10	112	< 10	28
587759	299	229	0.04	2	500	6	2	7	115	0.08	< 10	< 10	50	< 10	26
587760	299	229	0.04	5	610	6	2	7	164	0.09	< 10	< 10	50	< 10	22
587761	299	229	0.05	6	650	6	< 2	9	115	0.16	< 10	< 10	71	< 10	26
587762	299	229	0.16	4	900	6	4	13	108	0.22	< 10	< 10	109	< 10	32
587763	299	229	0.03	4	310	8	4	3	177	0.04	< 10	< 10	29	< 10	20
587764	299	229	0.08	6	520	10	2	7	95	0.13	< 10	< 10	57	< 10	26
587765	299	229	0.04	5	510	6	2	7	169	0.07	< 10	< 10	58	< 10	28
587766	299	229	0.05	7	440	8	4	13	129	0.14	< 10	< 10	74	< 10	26
587767	299	229	0.04	6	470	10	4	13	82	0.16	< 10	< 10	83	< 10	26
587768	299	229	0.07	4	410	4	2	12	54	0.17	< 10	< 10	80	< 10	22
587769	299	229	0.04	3	380	2	2	9	73	0.14	< 10	< 10	63	< 10	18
587770	299	229	0.08	4	400	2	2	13	71	0.18	< 10	< 10	88	< 10	24
587771	299	229	0.04	2	220	12	2	6	52	0.05	< 10	< 10	49	< 10	22
587772	299	229	0.09	3	280	10	2	7	85	0.08	< 10	< 10	41	< 10	22
587773	299	229	0.05	3	290	6	< 2	8	80	0.11	< 10	< 10	61	< 10	20
587774	299	229	0.10	4	530	2	4	11	130	0.17	< 10	< 10	84	< 10	22
587775	299	229	0.05	2	160	8	2	3	72	0.03	< 10	< 10	28	< 10	16
587776	299	229	0.12	3	300	6	2	9	115	0.10	< 10	< 10	44	< 10	18

CERTIFICATION: Jhai D Tia

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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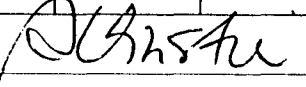
Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 1
Total Pages : 5
Certificate Date: 01-OCT-93
Invoice No. : I9321966
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321966

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
571953H	208	274	0.07	0.002	0.07	3220
571954H	208	276	0.05	0.002	0.14	8360
571955H	208	276	0.16	0.002	0.10	8900
571956H	208	274	0.51	0.002	0.07	6140
571957H	208	276	0.31	< 0.001	0.14	7320
571958H	208	276	0.12	< 0.001	0.17	9580
571959H	208	276	0.10	< 0.001	0.07	8040
571960H	208	274	0.10	< 0.001	0.14	6520
571961H	208	276	0.12	< 0.001	0.07	11600
571962H	208	276	0.15	0.001	0.14	10380
571963H	208	276	0.13	0.013	0.17	9080
571964H	208	276	0.12	0.004	0.14	10600
571965H	208	276	0.11	0.004	0.07	9400
571966H	208	276	0.14	0.002	0.14	11080
571967H	208	276	0.16	0.003	0.21	11580
571968H	208	276	0.10	0.002	0.14	11380
571969H	208	273	0.12	0.005	0.14	13960
571970H	208	276	0.09	0.002	0.10	10320
571971H	208	276	0.08	0.003	0.10	11280
571972H	208	276	0.17	0.008	0.21	9880
571973H	208	276	0.13	0.003	0.10	11240
571974H	208	273	0.11	0.004	0.10	13340
571975H	208	276	0.14	0.003	0.17	8840
571976H	208	276	0.15	0.010	0.14	10360
571977H	208	276	0.14	0.007	0.17	11060
571978H	208	276	0.19	0.018	0.21	10800
571979H	208	276	0.14	0.005	0.10	11660
571980H	208	276	0.14	0.007	0.10	11260
571981H	208	273	0.10	0.007	0.07	12960
571982H	208	276	0.06	0.003	0.07	7540
571983H	208	273	0.06	< 0.001	< 0.03	12420
571984H	208	276	0.04	0.005	< 0.03	9400
571985H	208	273	0.09	0.002	< 0.03	15940
571986H	208	273	0.14	0.003	0.10	12520
571987H	208	273	0.12	0.003	0.10	13220
571988H	208	276	0.09	0.002	0.07	8000
571989H	208	276	0.22	0.003	0.17	11400
571990H	208	273	0.15	0.003	0.10	11820
571991H	208	276	0.28	0.007	0.17	11120
571992H	208	276	0.16	0.003	0.14	11000

CERTIFICATION: 

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
571993H	208	273	0.13	0.003	0.14	12740
571994H	208	274	0.13	0.002	0.10	7260
571995H	208	276	0.18	0.023	0.10	10240
571996H	208	276	0.12	0.006	0.10	9000
571997H	208	276	0.28	0.006	0.27	10480
571998H	208	273	0.14	0.010	0.14	13560
571999H	208	273	0.11	0.002	0.14	13080
572000H	208	273	0.06	< 0.001	0.07	12440
588501H	208	273	0.11	0.002	0.10	13600
588502H	208	273	0.14	0.003	0.14	14560
588503H	208	273	0.10	< 0.001	0.07	14360
588504H	208	273	0.22	0.004	0.24	13180
588505H	208	273	0.08	0.013	0.03	13600
588506H	208	273	0.15	0.016	0.10	13760
588507H	208	273	0.19	0.013	0.14	12980
588508H	208	273	0.11	0.028	0.10	13540
588509H	208	273	0.09	0.003	0.07	14160
588510H	208	273	0.10	< 0.001	0.14	12800
588511H	208	273	0.12	0.003	0.10	14600
588512H	208	273	0.15	< 0.001	0.14	12980
588513H	208	273	0.12	< 0.001	0.10	13280
588514H	208	273	0.17	< 0.001	0.10	14340
588515H	208	276	0.11	0.008	0.10	10300
588516H	208	273	0.09	0.005	0.07	13140
588517H	208	273	0.12	0.003	0.14	14020
588518H	208	270	0.33	0.009	0.21	17480
588519H	208	273	0.12	0.008	0.14	13020
588520H	208	273	0.19	< 0.001	0.14	13060
588521H	208	273	0.26	0.003	0.27	13880
588522H	208	276	0.23	< 0.001	0.21	11600
588523H	208	273	0.10	0.013	0.10	12120
588524H	208	273	0.16	0.015	0.14	12000
588525H	208	273	0.16	0.005	0.14	12580
588526H	208	273	0.19	0.017	0.31	12100
588527H	208	273	0.16	0.003	0.17	13180
588528H	208	273	0.07	0.002	0.10	11940
588529H	208	273	0.10	< 0.001	0.07	12800
588530H	208	273	0.46	0.009	0.27	12860
588531H	208	273	0.13	< 0.001	0.10	13400
588532H	208	273	0.17	0.003	0.14	13380

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 01-OCT-93
Invoice No. :19321966
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321966

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
588533H	208	273	0.18	0.002	0.14	13120						
588534H	208	273	0.28	0.025	0.21	12000						
588535H	208	273	0.26	0.011	0.21	12900						
588536H	208	273	0.13	0.002	0.10	13000						
588537H	208	273	0.21	0.028	0.17	12000						
588538H	208	273	0.20	0.012	0.21	12560						
588539H	208	273	0.11	0.004	0.07	12940						
588540H	208	273	0.12	< 0.001	0.14	12780						
588541H	208	276	0.32	0.005	0.27	11380						
588542H	208	273	0.21	0.018	0.21	12580						
588543H	208	273	0.16	0.007	0.10	12260						
588544H	208	273	0.14	0.005	0.17	11960						
588545H	208	273	0.18	0.006	0.17	11860						
588546H	208	273	0.23	0.005	0.17	13000						
588547H	208	273	0.17	< 0.001	0.10	12980						
588548H	208	273	0.53	0.002	0.41	12960						
588549H	208	273	0.52	0.003	0.48	13220						
588550H	208	273	0.22	0.002	0.27	13980						
588551H	208	273	0.15	0.003	0.14	12420						
588552H	208	273	0.43	0.011	0.79	12980						
588553H	208	273	0.10	0.007	0.14	12820						
588554H	208	273	0.11	0.002	0.10	12040						
588555H	208	273	0.09	0.004	0.07	11840						
588556H	208	273	0.06	0.003	0.10	11980						
588557H	208	273	0.11	0.002	0.10	12680						
588558H	208	273	0.16	0.026	0.14	12600						
588559H	208	273	0.14	0.005	0.10	12740						
588560H	208	273	0.11	0.008	0.10	12780						
588561H	208	273	0.07	0.009	0.07	11860						
588562H	208	276	0.06	0.007	0.17	11780						
588563H	208	273	0.04	0.002	0.03	12760						
588564H	208	273	0.18	0.001	0.17	12440						
588565H	208	273	0.18	0.017	0.17	13330						
588566H	208	276	0.37	0.002	0.24	11200						
588567H	208	273	0.14	< 0.001	0.10	12600						
588568H	208	270	0.17	0.001	0.10	17920						
588569H	208	273	0.12	0.003	0.10	13760						
588570H	208	273	0.13	0.002	0.14	13750						
588571H	208	273	0.20	0.004	0.14	12980						
588572H	208	273	0.13	0.003	0.10	13500						

CERTIFICATION: A. Christie

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
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CERTIFICATE OF ANALYSIS A9321966

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
588573H	208 273	0.09	0.003	0.10	12760
588574H	208 273	0.12	0.004	0.14	12780
588575H	208 273	0.08	0.003	0.07	12980
588576H	208 273	0.09	0.008	0.14	12460
588577H	208 273	0.17	0.012	0.14	12760
588578H	208 273	0.17	0.012	0.24	12440
588579H	208 273	0.17	0.007	0.17	12450
588580H	208 273	0.26	0.013	0.21	12900
588581H	208 273	0.20	0.012	0.10	13360
588582H	208 273	0.27	0.010	0.14	12520
588583H	208 273	0.09	0.018	0.07	12380
588584H	208 273	0.09	0.006	0.07	12520
588585H	208 273	0.15	0.012	0.10	12000
588586H	208 273	0.23	0.005	0.10	12720
588587H	208 273	0.39	0.008	0.27	12220
588588H	208 273	0.37	0.008	0.27	12360
588589H	208 276	0.15	0.008	0.14	9360
588590H	208 276	0.10	0.008	0.07	9660
588591H	208 273	0.14	0.018	0.10	12700
588592H	208 273	0.14	0.037	0.10	12940
588593H	208 273	0.16	0.028	0.14	12840
588594H	208 273	0.30	0.011	0.27	13840
588595H	208 273	0.18	0.011	0.17	13520
588596H	208 273	0.15	0.048	0.10	12540
588597H	208 276	0.23	0.026	0.14	11460
588598H	208 273	0.17	0.022	0.17	12080
588599H	208 273	0.26	0.012	0.21	12100
588600H	208 273	0.30	0.017	0.24	13020
588601H	208 276	0.20	0.018	0.17	9700
588602H	208 273	0.13	0.010	0.10	15800
588603H	208 273	0.18	0.004	0.21	13200
588604H	208 273	0.06	0.019	0.07	13360
588605H	208 273	0.13	0.027	0.17	13440
588606H	208 273	0.14	0.023	0.14	13740
588607H	208 273	0.18	0.016	0.14	14700
588608H	208 273	0.18	0.020	0.21	12500
588609H	208 273	0.13	0.009	0.17	12400
588610H	208 273	0.14	0.034	0.14	12100
588611H	208 273	0.12	0.022	0.14	12480
588612H	208 273	0.10	0.006	0.14	12620

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
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Certificate Date: 01-OCT-93
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P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321966

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
588613H	208	273	0.22	0.022	0.21	14200
588614H	208	273	0.17	0.006	0.10	14460
588615H	208	273	0.17	0.009	0.45	13740
588616H	208	273	0.20	0.012	0.17	13220
588617H	208	273	0.16	0.005	0.17	14340
588618H	208	273	0.16	0.011	0.21	12880
588619H	208	273	0.24	0.007	0.21	13480
588620H	208	273	0.26	0.014	0.27	12940
588621H	208	273	0.10	0.014	0.10	14280
588622H	208	273	0.15	0.007	0.10	12540
588623H	208	273	0.08	0.010	0.10	13960
588624H	208	273	0.11	0.014	0.24	14200
588625H	208	273	0.09	0.008	0.10	13320
588626H	208	273	0.08	0.014	0.07	13860
588627H	208	273	0.10	0.012	0.10	13520
588628H	208	273	0.06	0.017	0.03	14240
588629H	208	273	0.13	0.017	0.10	14560
588630H	208	276	0.27	0.051	0.24	11360
588631H	208	273	0.21	0.015	0.21	14670
588632H	208	273	0.28	0.007	0.21	13740
588633H	208	273	0.15	0.005	0.14	14400
588634H	208	273	0.25	0.010	0.31	14500
588635H	208	273	0.12	0.004	0.10	13840
588636H	208	273	0.25	0.014	0.21	13840
588637H	208	273	0.36	0.021	0.27	13400
588638H	208	273	0.11	0.009	0.14	14440
588639H	208	273	0.10	0.006	0.10	15000
588640H	208	273	0.24	0.003	0.21	14480
588641H	208	273	0.11	0.008	0.21	14080
588642H	208	273	0.15	0.005	0.10	13820
588643H	208	273	0.15	0.007	0.07	15000
588644H	208	273	0.10	0.008	0.10	14780
588645H	208	273	0.14	0.001	0.10	14680
588646H	208	273	0.09	0.014	0.07	15240
588647H	208	273	0.08	0.009	0.07	14280
588648H	208	273	0.08	0.013	0.07	14300
588649H	208	273	0.09	0.005	0.07	12660
588650H	208	273	0.13	0.007	0.10	14400
588651H	208	273	0.09	0.004	0.10	13020

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-OCT-93
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CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571953H	299	229	0.6	3.93	2	580	< 0.5	2	0.42	< 0.5	15	143	615	4.53	20	< 1	1.32	20	2.43	155	7
571954H	299	229	0.2	3.56	4	1150	< 0.5	2	0.34	< 0.5	14	123	482	4.87	20	< 1	1.19	20	2.11	130	9
571955H	299	229	< 0.2	2.92	6	340	< 0.5	6	0.23	1.0	22	144	1500	4.44	10	< 1	1.22	20	1.89	100	13
571956H	299	229	< 0.2	2.48	26	300	0.5	6	0.62	5.0	33	75	5660	4.04	10	< 1	0.78	30	1.39	210	9
571957H	299	229	0.2	2.42	30	140	1.0	6	1.12	16.5	51	93	3220	4.45	10	< 1	0.80	20	1.25	320	6
571958H	299	229	< 0.2	4.60	8	370	0.5	2	1.69	2.5	34	114	1150	4.82	10	< 1	1.06	20	2.35	245	3
571959H	299	229	< 0.2	4.58	14	360	< 0.5	< 2	2.26	0.5	40	138	984	4.77	10	< 1	1.12	20	2.29	400	6
571960H	299	229	< 0.2	4.05	6	470	< 0.5	2	1.54	< 0.5	30	131	942	5.00	20	< 1	1.55	20	2.25	260	3
571961H	299	229	< 0.2	4.90	6	250	< 0.5	< 2	1.77	0.5	37	107	1140	5.39	20	< 1	1.49	20	2.72	235	1
571962H	299	229	0.2	3.68	4	450	0.5	2	1.88	< 0.5	31	120	1505	4.09	10	< 1	1.23	20	1.87	255	7
571963H	299	229	1.2	4.31	18	200	< 0.5	< 2	1.90	< 0.5	31	107	1240	5.79	20	< 1	1.56	10	2.50	725	75
571964H	299	229	0.4	1.89	32	300	< 0.5	2	1.02	< 0.5	23	157	1255	2.81	< 10	< 1	0.58	20	0.80	270	26
571965H	299	229	0.4	1.21	22	200	0.5	4	0.64	< 0.5	30	113	1135	2.27	< 10	< 1	0.51	20	0.24	275	26
571966H	299	229	2.6	2.20	38	160	0.5	4	2.57	6.5	34	105	1465	4.02	10	< 1	0.63	10	1.29	690	12
571967H	299	229	0.4	3.05	14	230	0.5	< 2	1.90	< 0.5	28	167	1595	4.05	10	< 1	1.03	30	2.02	235	23
571968H	299	229	< 0.2	2.01	2	280	0.5	2	1.74	< 0.5	28	137	1025	3.74	10	< 1	0.57	30	1.24	210	14
571969H	299	229	0.2	1.12	2	300	0.5	2	1.67	< 0.5	19	125	1275	2.31	< 10	< 1	0.36	20	0.56	185	31
571970H	299	229	0.4	0.81	6	260	< 0.5	2	1.46	< 0.5	21	140	940	1.97	< 10	< 1	0.29	20	0.28	180	10
571971H	299	229	2.2	1.27	26	200	< 0.5	6	2.48	< 0.5	18	117	823	2.60	< 10	< 1	0.38	30	0.60	345	13
571972H	299	229	1.8	0.79	14	290	< 0.5	4	2.20	8.5	15	157	1625	1.39	< 10	< 1	0.30	10	0.34	205	51
571973H	299	229	0.6	0.89	6	240	< 0.5	< 2	2.03	< 0.5	18	93	1290	1.62	< 10	< 1	0.29	20	0.33	140	18
571974H	299	229	0.6	2.30	14	270	0.5	< 2	2.01	< 0.5	25	108	1150	3.03	10	< 1	0.69	20	1.17	195	26
571975H	299	229	1.4	2.25	24	250	0.5	< 2	1.88	0.5	34	79	1325	3.60	10	< 1	0.71	20	1.21	500	21
571976H	299	229	0.8	0.60	14	250	< 0.5	< 2	1.59	< 0.5	16	152	1470	1.42	< 10	< 1	0.24	30	0.21	260	56
571977H	299	229	1.4	0.73	24	210	< 0.5	< 2	1.17	3.0	19	116	1445	1.45	< 10	< 1	0.32	30	0.20	580	44
571978H	299	229	2.4	0.56	36	190	< 0.5	2	1.54	0.5	22	160	1995	1.76	< 10	< 1	0.27	30	0.21	580	119
571979H	299	229	0.8	0.95	2	500	< 0.5	< 2	1.87	< 0.5	15	117	1345	1.50	< 10	< 1	0.32	30	0.30	285	27
571980H	299	229	0.6	2.01	10	410	< 0.5	< 2	1.89	< 0.5	27	137	1380	2.96	10	< 1	0.54	20	1.24	190	36
571981H	299	229	0.4	2.87	6	360	< 0.5	< 2	1.79	< 0.5	26	133	928	3.81	10	< 1	0.81	20	1.75	185	39
571982H	299	229	< 0.2	3.97	2	520	< 0.5	< 2	1.71	< 0.5	25	90	516	4.42	10	< 1	1.29	20	2.15	170	8
571983H	299	229	0.4	3.17	14	450	< 0.5	2	1.72	< 0.5	27	112	581	3.82	10	< 1	0.97	10	1.78	310	6
571984H	299	229	0.2	0.92	6	140	< 0.5	< 2	0.93	< 0.5	17	116	375	2.34	10	< 1	0.27	20	0.48	75	30
571985H	299	229	0.4	5.25	16	220	< 0.5	< 2	2.53	< 0.5	29	86	916	5.65	10	< 1	1.26	10	2.51	225	8
571986H	299	229	0.6	5.26	20	460	< 0.5	< 2	2.50	< 0.5	27	78	1405	4.50	10	< 1	1.52	10	2.41	205	15
571987H	299	229	0.4	2.83	< 2	500	< 0.5	< 2	1.87	< 0.5	19	83	1225	3.33	10	< 1	1.06	20	1.78	150	21
571988H	299	229	0.2	3.45	8	460	< 0.5	< 2	2.06	< 0.5	23	91	827	3.57	10	< 1	1.13	40	1.85	155	8
571989H	299	229	1.2	3.44	6	570	0.5	< 2	2.59	< 0.5	27	108	2220	3.45	10	< 1	1.22	30	1.90	150	19
571990H	299	229	0.4	6.73	14	1020	< 0.5	< 2	3.30	< 0.5	26	61	1435	5.38	20	< 1	1.97	10	3.18	245	12
571991H	299	229	5.6	5.56	22	300	< 0.5	6	2.95	2.0	25	67	2860	4.88	20	< 1	1.86	10	2.96	480	37
571992H	299	229	0.8	4.43	14	480	< 0.5	< 2	2.31	< 0.5	25	75	1540	5.47	20	< 1	1.44	10	2.42	230	28

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571953H	299	229	0.05	12	540	20	< 2	27	43	0.14	10	< 10	144	10	62
571954H	299	229	0.06	10	790	16	2	22	40	0.15	10	< 10	136	10	46
571955H	299	229	0.05	16	790	18	< 2	19	23	0.15	10	< 10	119	10	42
571956H	299	229	0.07	7	840	14	2	13	24	0.10	20	< 10	103	< 10	88
571957H	299	229	0.06	16	690	16	4	20	29	0.07	10	< 10	118	10	116
571958H	299	229	0.37	17	680	14	2	25	100	0.18	< 10	< 10	190	10	84
571959H	299	229	0.35	21	600	8	2	25	109	0.17	< 10	< 10	160	10	90
571960H	299	229	0.28	15	750	12	< 2	25	81	0.22	10	< 10	169	10	80
571961H	299	229	0.35	16	990	14	2	27	102	0.22	10	< 10	187	20	90
571962H	299	229	0.23	14	690	14	2	21	76	0.14	< 10	< 10	150	10	72
571963H	299	229	0.24	18	850	20	< 2	27	71	0.21	< 10	< 10	198	20	78
571964H	299	229	0.06	8	310	18	8	8	34	0.03	< 10	< 10	52	< 10	50
571965H	299	229	0.01	6	420	18	14	3	13	< 0.01	< 10	< 10	18	< 10	44
571966H	299	229	0.02	13	880	224	2	10	42	0.03	< 10	< 10	78	10	590
571967H	299	229	0.03	27	540	14	2	14	33	0.09	< 10	< 10	101	10	34
571968H	299	229	0.04	20	890	12	2	7	38	0.03	< 10	< 10	61	10	36
571969H	299	229	0.02	13	470	12	< 2	2	40	< 0.01	< 10	< 10	23	< 10	32
571970H	299	229	0.02	4	370	22	2	2	35	< 0.01	< 10	< 10	11	< 10	48
571971H	299	229	0.02	14	360	36	4	4	43	0.01	< 10	< 10	25	< 10	52
571972H	299	229	0.01	8	410	248	2	2	33	< 0.01	< 10	< 10	13	< 10	850
571973H	299	229	0.02	4	300	16	2	2	35	< 0.01	< 10	< 10	13	< 10	26
571974H	299	229	0.11	7	530	20	2	9	57	0.06	< 10	< 10	83	< 10	40
571975H	299	229	0.05	8	740	32	2	17	39	0.08	< 10	< 10	115	< 10	68
571976H	299	229	0.01	3	240	12	2	1	26	< 0.01	< 10	< 10	8	< 10	30
571977H	299	229	0.01	4	180	98	6	< 1	21	< 0.01	10	< 10	3	< 10	210
571978H	299	229	0.01	4	240	62	6	< 1	25	< 0.01	10	< 10	5	< 10	62
571979H	299	229	0.02	3	330	20	2	2	57	< 0.01	10	< 10	15	< 10	28
571980H	299	229	0.04	7	540	6	2	8	48	0.06	< 10	< 10	78	< 10	28
571981H	299	229	0.15	11	620	8	4	15	61	0.14	< 10	< 10	126	10	32
571982H	299	229	0.25	9	870	10	< 2	22	98	0.20	< 10	< 10	186	10	34
571983H	299	229	0.19	9	680	14	4	14	84	0.15	< 10	< 10	139	10	32
571984H	299	229	0.06	4	310	8	< 2	2	19	0.01	10	< 10	22	< 10	16
571985H	299	229	0.40	10	920	8	4	24	185	0.24	< 10	< 10	211	10	36
571986H	299	229	0.39	10	870	12	8	22	198	0.22	< 10	< 10	200	10	38
571987H	299	229	0.13	6	980	16	2	17	77	0.15	< 10	< 10	148	< 10	28
571988H	299	229	0.22	9	550	8	2	18	180	0.13	< 10	< 10	144	< 10	24
571989H	299	229	0.15	8	920	12	2	16	81	0.12	< 10	< 10	137	10	24
571990H	299	229	0.45	14	1150	14	6	31	446	0.27	< 10	< 10	242	20	44
571991H	299	229	0.38	12	1190	234	2	29	350	0.29	< 10	< 10	235	10	256
571992H	299	229	0.34	10	1380	20	2	23	240	0.27	< 10	< 10	199	10	40

CERTIFICATION: Stewart Bradley

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-OCT-93
Invoice No. : 19321967
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
571993H	299	229	0.4	6.82	8	510	< 0.5	< 2	3.30	< 0.5	26	85	1270	4.73	20	< 1	1.82	10	3.08	250	14
571994H	299	229	0.2	5.12	18	300	< 0.5	< 2	2.31	< 0.5	31	79	1350	4.96	10	< 1	1.76	10	2.71	195	11
571995H	299	229	0.6	2.38	10	190	< 0.5	2	2.42	< 0.5	35	113	1745	3.61	10	< 1	0.94	10	1.44	135	127
571996H	299	229	< 0.2	3.94	8	80	< 0.5	< 2	2.96	< 0.5	32	88	1130	4.90	10	< 1	1.45	10	2.35	165	34
571997H	299	229	0.8	5.23	12	130	< 0.5	< 2	4.13	< 0.5	29	72	2890	4.68	10	< 1	1.99	< 10	2.80	225	30
571998H	299	229	0.2	2.38	10	130	< 0.5	2	2.20	< 0.5	27	98	1485	3.44	10	< 1	0.92	10	1.66	140	61
571999H	299	229	1.0	2.12	20	130	< 0.5	< 2	2.13	< 0.5	21	124	1125	3.93	< 10	< 1	0.81	10	1.58	140	13
572000H	299	229	1.0	2.10	< 2	310	< 0.5	< 2	1.67	< 0.5	15	113	647	3.61	< 10	< 1	0.72	10	1.51	130	8
588501H	299	229	1.0	2.18	< 2	200	< 0.5	< 2	1.80	< 0.5	20	115	1105	3.82	< 10	< 1	0.85	10	1.66	125	15
588502H	299	229	1.6	2.06	12	130	< 0.5	4	2.47	< 0.5	29	68	1430	3.58	10	< 1	0.86	20	1.31	290	22
588503H	299	229	0.8	7.76	14	540	< 0.5	< 2	4.42	< 0.5	26	63	910	5.38	< 10	< 1	1.90	< 10	3.05	235	3
588504H	299	229	1.8	4.66	8	360	< 0.5	< 2	3.66	< 0.5	41	81	2340	5.26	< 10	1	1.32	10	1.97	170	32
588505H	299	229	0.8	7.54	6	160	< 0.5	< 2	4.91	< 0.5	19	56	811	5.68	10	< 1	1.76	< 10	3.19	290	76
588506H	299	229	1.0	4.52	2	80	< 0.5	< 2	3.08	< 0.5	24	115	1465	5.14	< 10	< 1	1.49	10	2.66	250	92
588507H	299	229	1.4	7.73	6	290	< 0.5	< 2	4.62	< 0.5	21	90	1920	5.31	< 10	< 1	1.80	< 10	2.99	250	68
588508H	299	229	1.0	7.85	< 2	220	< 0.5	< 2	5.00	< 0.5	26	87	1090	5.71	< 10	< 1	1.72	< 10	2.88	250	151
588509H	299	229	0.6	7.53	8	220	< 0.5	< 2	4.58	< 0.5	27	45	917	5.69	< 10	< 1	1.51	< 10	2.67	275	14
588510H	299	229	0.6	6.02	6	430	< 0.5	< 2	3.46	0.5	17	134	983	5.43	20	< 1	1.93	10	2.87	295	4
588511H	299	229	< 0.2	6.08	20	100	< 0.5	< 2	4.23	0.5	40	83	1205	6.41	20	< 1	1.38	< 10	2.28	225	12
588512H	299	229	0.2	8.20	12	90	< 0.5	< 2	5.41	< 0.5	43	35	1435	5.97	20	< 1	1.85	< 10	2.88	255	7
588513H	299	229	< 0.2	6.21	4	40	< 0.5	< 2	4.04	< 0.5	61	40	1080	6.43	20	< 1	1.13	< 10	2.36	265	3
588514H	299	229	1.0	5.40	14	260	< 0.5	< 2	3.52	< 0.5	19	83	1715	5.28	20	< 1	1.27	10	2.19	305	4
588515H	299	229	0.2	4.88	6	320	< 0.5	< 2	3.51	< 0.5	17	63	1035	4.41	10	< 1	1.46	10	2.08	285	38
588516H	299	229	< 0.2	5.60	< 2	660	< 0.5	< 2	3.58	< 0.5	18	86	907	4.96	10	< 1	1.43	10	2.24	305	27
588517H	299	229	0.2	3.85	8	210	< 0.5	< 2	2.45	< 0.5	18	96	1195	4.44	10	< 1	1.48	10	2.19	200	18
588518H	299	229	0.8	6.55	8	180	< 0.5	< 2	4.40	< 0.5	31	57	3410	6.14	20	< 1	1.84	10	2.44	290	47
588519H	299	229	< 0.2	6.63	4	150	< 0.5	< 2	4.30	< 0.5	21	61	1110	5.07	20	< 1	1.52	< 10	2.33	325	39
588520H	299	229	0.2	5.95	4	100	< 0.5	< 2	3.89	< 0.5	31	42	1900	5.42	20	< 1	1.59	10	2.41	345	6
588521H	299	229	0.6	2.55	< 2	120	< 0.5	2	1.98	< 0.5	23	121	2740	3.49	10	< 1	0.97	20	1.60	185	20
588522H	299	229	0.8	1.29	2	320	< 0.5	2	1.55	< 0.5	10	179	2330	1.69	10	< 1	0.41	20	0.69	90	16
588523H	299	229	0.2	1.52	4	240	< 0.5	< 2	2.16	< 0.5	12	147	960	2.05	10	< 1	0.39	30	0.70	110	81
588524H	299	229	0.4	2.25	2	200	< 0.5	< 2	2.75	< 0.5	14	133	1540	3.16	10	< 1	0.60	20	1.15	140	94
588525H	299	229	< 0.2	3.73	< 2	150	< 0.5	< 2	2.92	< 0.5	17	58	1570	3.85	10	< 1	0.99	10	1.82	195	25
588526H	299	229	3.0	2.37	40	100	< 0.5	< 2	2.56	0.5	20	91	1925	4.05	10	< 1	0.65	20	1.37	300	96
588527H	299	229	3.2	1.98	6	170	< 0.5	16	2.47	0.5	16	80	1600	2.91	10	< 1	0.72	20	1.19	185	18
588528H	299	229	0.6	0.33	2	240	< 0.5	2	1.35	< 0.5	6	156	636	0.70	< 10	< 1	0.21	20	0.03	75	8
588529H	299	229	0.2	1.70	< 2	190	< 0.5	2	2.08	< 0.5	16	104	940	2.71	10	< 1	0.58	20	0.91	145	10
588530H	299	229	5.2	2.97	28	100	< 0.5	34	3.17	0.5	15	85	4760	3.92	10	< 1	0.82	10	1.33	190	51
588531H	299	229	0.2	2.88	< 2	150	< 0.5	< 2	2.30	< 0.5	16	122	1350	3.67	10	< 1	0.91	20	1.41	160	5
588532H	299	229	0.2	3.40	6	120	< 0.5	< 2	2.64	< 0.5	24	84	1660	4.35	10	< 1	1.30	10	1.90	195	22

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-OCT-93
Invoice No. :I9321967
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Account :FC

CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
571993H	299	229	0.53	13	1160	10	6	32	308	0.28	< 10	< 10	248	20	40
571994H	299	229	0.34	11	1390	12	4	28	160	0.28	< 10	< 10	236	10	34
571995H	299	229	0.08	6	750	10	4	14	57	0.12	< 10	< 10	107	10	26
571996H	299	229	0.26	9	1090	8	2	26	115	0.28	< 10	< 10	202	10	32
571997H	299	229	0.33	10	1140	12	4	32	171	0.31	< 10	< 10	243	20	40
571998H	299	229	0.12	7	750	10	2	17	83	0.15	< 10	< 10	122	10	34
571999H	299	229	0.07	6	650	8	2	14	51	0.15	< 10	< 10	109	< 10	34
572000H	299	229	0.11	6	610	8	2	14	56	0.17	< 10	< 10	107	< 10	26
588501H	299	229	0.09	6	770	6	< 2	13	61	0.21	< 10	< 10	120	< 10	26
588502H	299	229	0.09	7	780	14	6	10	69	0.13	< 10	< 10	99	10	42
588503H	299	229	0.55	8	1510	8	6	28	337	0.31	< 10	< 10	249	10	40
588504H	299	229	0.32	10	760	12	6	18	194	0.18	< 10	< 10	157	10	32
588505H	299	229	0.58	8	1170	8	6	26	555	0.34	< 10	< 10	240	10	38
588506H	299	229	0.36	9	1020	8	4	22	234	0.33	< 10	< 10	205	< 10	38
588507H	299	229	0.59	9	920	6	4	25	399	0.35	< 10	< 10	243	10	36
588508H	299	229	0.61	11	1040	12	6	25	373	0.34	< 10	< 10	236	10	34
588509H	299	229	0.56	10	1120	8	6	20	338	0.33	< 10	< 10	229	10	36
588510H	299	229	0.46	11	1050	18	6	29	238	0.33	< 10	< 10	230	10	86
588511H	299	229	0.51	9	1280	4	< 2	19	279	0.30	< 10	< 10	188	10	30
588512H	299	229	0.61	10	1520	8	8	26	416	0.34	< 10	< 10	229	10	34
588513H	299	229	0.52	9	1420	6	< 2	19	297	0.28	< 10	< 10	195	10	32
588514H	299	229	0.44	8	1390	4	4	17	245	0.30	< 10	< 10	177	10	38
588515H	299	229	0.37	8	1210	6	2	18	211	0.28	< 10	< 10	165	< 10	36
588516H	299	229	0.46	7	1410	6	4	19	248	0.28	< 10	< 10	170	< 10	38
588517H	299	229	0.27	8	1340	4	< 2	20	149	0.27	< 10	< 10	155	< 10	32
588518H	299	229	0.56	9	1460	12	4	23	306	0.31	< 10	< 10	206	10	36
588519H	299	229	0.60	8	1420	8	6	19	395	0.35	< 10	< 10	186	10	36
588520H	299	229	0.52	8	1350	10	< 2	21	304	0.37	< 10	< 10	189	10	40
588521H	299	229	0.18	10	800	4	< 2	13	92	0.22	< 10	< 10	112	< 10	26
588522H	299	229	0.07	11	390	6	2	4	166	0.02	< 10	< 10	33	< 10	22
588523H	299	229	0.07	12	390	18	2	5	90	0.03	< 10	< 10	36	< 10	34
588524H	299	229	0.12	12	800	6	2	11	103	0.10	< 10	< 10	69	< 10	24
588525H	299	229	0.27	4	1440	6	< 2	15	174	0.18	< 10	< 10	118	10	28
588526H	299	229	0.14	4	1090	58	2	9	123	0.10	< 10	< 10	89	< 10	46
588527H	299	229	0.11	4	980	34	2	9	120	0.10	< 10	< 10	84	10	40
588528H	299	229	0.04	2	90	14	2	< 1	120	< 0.01	10	< 10	1	< 10	20
588529H	299	229	0.12	2	750	6	< 2	7	126	0.08	< 10	< 10	63	< 10	26
588530H	299	229	0.18	4	870	16	2	16	157	0.13	< 10	< 10	111	10	30
588531H	299	229	0.25	5	970	4	< 2	14	138	0.22	< 10	< 10	119	< 10	26
588532H	299	229	0.23	6	1190	4	2	18	150	0.28	< 10	< 10	152	10	32

CERTIFICATION: Jean H. Pandeller

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Certificate Date: 03-OCT-93
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CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
588533H	299	229	0.2	3.13	< 2	140	< 0.5	< 2	2.54	< 0.5	19	51	1865	4.13	10	< 1	1.16	10	1.70	175	14
588534H	299	229	0.6	1.91	2	120	< 0.5	2	2.82	< 0.5	15	147	2860	2.19	10	< 1	0.75	20	1.19	105	146
588535H	299	229	0.8	1.49	< 2	170	< 0.5	2	1.52	< 0.5	18	214	2710	2.26	< 10	< 1	0.51	10	0.94	120	63
588536H	299	229	0.2	1.59	2	160	< 0.5	< 2	1.31	< 0.5	15	206	1330	2.18	10	< 1	0.51	20	1.00	125	16
588537H	299	229	0.4	1.53	2	110	0.5	< 2	2.41	< 0.5	45	209	2320	2.35	10	< 1	0.68	20	0.83	70	174
588538H	299	229	0.4	1.91	< 2	160	< 0.5	< 2	1.97	< 0.5	16	225	2100	2.27	10	< 1	0.91	20	1.18	95	67
588539H	299	229	< 0.2	1.83	< 2	190	< 0.5	< 2	1.01	< 0.5	24	228	1130	2.93	10	< 1	0.73	20	1.08	130	24
588540H	299	229	< 0.2	1.95	< 2	190	< 0.5	< 2	1.48	< 0.5	22	117	1255	2.71	10	< 1	0.62	20	1.03	110	10
588541H	299	229	0.6	2.02	2	140	< 0.5	< 2	2.03	< 0.5	19	101	3270	3.44	10	< 1	0.79	10	1.32	120	26
588542H	299	229	0.4	2.64	< 2	110	< 0.5	< 2	2.55	< 0.5	19	101	2140	3.42	10	< 1	0.73	10	1.43	140	105
588543H	299	229	0.4	1.93	< 2	290	< 0.5	< 2	2.51	< 0.5	18	120	1700	2.45	10	< 1	0.33	30	0.77	185	38
588544H	299	229	0.8	1.58	4	340	< 0.5	< 2	3.37	< 0.5	19	213	1400	2.23	10	< 1	0.31	30	0.41	210	27
588545H	299	229	0.6	2.01	4	360	< 0.5	< 2	5.22	< 0.5	21	189	1780	2.30	10	< 1	0.28	20	0.73	250	33
588546H	299	229	1.0	2.32	4	180	< 0.5	2	2.97	< 0.5	17	233	2320	2.32	10	< 1	0.52	30	0.97	155	33
588547H	299	229	0.6	2.40	16	190	< 0.5	< 2	2.17	< 0.5	21	177	1675	3.60	20	< 1	0.77	20	1.33	220	7
588548H	299	229	3.0	3.05	18	130	< 0.5	34	2.95	< 0.5	22	99	5520	4.37	10	< 1	0.70	20	1.59	255	6
588549H	299	229	2.8	3.12	12	250	< 0.5	8	3.38	< 0.5	25	181	5410	3.46	10	< 1	0.59	20	1.55	295	22
588550H	299	229	1.2	4.84	226	130	1.5	< 2	4.84	< 0.5	25	180	2270	3.52	20	< 1	0.31	20	1.16	345	11
588551H	299	229	0.8	1.36	14	160	< 0.5	< 2	1.76	< 0.5	20	138	1570	2.65	10	< 1	0.38	20	0.80	155	26
588552H	299	229	8.6	1.39	108	50	< 0.5	36	2.17	0.5	55	229	4510	7.40	10	< 1	0.28	20	0.50	340	62
588553H	299	229	0.2	0.97	12	190	< 0.5	2	1.10	< 0.5	20	184	1075	2.25	10	< 1	0.31	20	0.74	140	43
588554H	299	229	0.4	0.78	8	370	< 0.5	< 2	1.18	< 0.5	10	222	1065	1.17	< 10	< 1	0.27	30	0.29	75	19
588555H	299	229	0.4	0.83	22	440	< 0.5	< 2	1.86	< 0.5	7	285	943	0.84	< 10	< 1	0.33	20	0.08	80	32
588556H	299	229	0.8	0.83	12	500	0.5	< 2	2.55	< 0.5	9	220	668	0.96	< 10	< 1	0.22	30	0.09	175	21
588557H	299	229	0.4	1.47	14	380	< 0.5	< 2	2.14	< 0.5	11	233	1085	1.59	< 10	< 1	0.42	30	0.44	110	20
588558H	299	229	0.6	0.72	74	210	< 0.5	< 2	1.28	< 0.5	21	191	1720	1.46	< 10	< 1	0.31	30	0.13	70	167
588559H	299	229	0.8	0.45	30	150	< 0.5	< 2	1.43	< 0.5	11	69	1430	1.12	< 10	< 1	0.17	20	0.11	75	40
588560H	299	229	0.6	0.73	58	360	< 0.5	< 2	1.22	< 0.5	10	187	1155	0.90	< 10	< 1	0.30	30	0.08	60	53
588561H	299	229	0.4	0.46	16	240	< 0.5	< 2	1.68	< 0.5	7	171	734	0.71	< 10	< 1	0.19	30	0.04	80	56
588562H	299	229	0.6	0.55	34	240	< 0.5	< 2	3.38	2.0	9	132	585	1.50	< 10	< 1	0.29	10	0.06	145	49
588563H	299	229	< 0.2	0.36	10	200	< 0.5	< 2	1.45	< 0.5	10	152	379	0.95	< 10	< 1	0.20	20	0.04	65	13
588564H	299	229	0.8	0.50	20	230	< 0.5	< 2	1.29	< 0.5	10	116	1900	1.10	< 10	< 1	0.21	20	0.05	65	12
588565H	299	229	0.8	0.86	164	130	< 0.5	< 2	1.40	0.5	26	142	1965	1.87	< 10	< 1	0.26	20	0.17	85	102
588566H	299	229	2.0	3.05	14	40	< 0.5	< 2	3.24	< 0.5	51	69	3560	5.76	10	< 1	1.45	10	1.70	255	10
588567H	299	229	1.4	4.71	26	80	< 0.5	< 2	2.90	1.0	35	66	1375	5.90	20	< 1	1.56	10	2.53	380	4
588568H	299	229	0.8	3.37	12	100	< 0.5	< 2	2.37	< 0.5	21	65	1650	4.43	10	< 1	1.47	10	1.88	270	12
588569H	299	229	0.8	2.37	8	80	< 0.5	< 2	2.14	< 0.5	21	109	1240	4.54	20	< 1	1.26	20	1.70	300	24
588570H	299	229	0.6	2.88	2	210	< 0.5	< 2	2.48	< 0.5	17	77	1355	4.20	10	< 1	1.32	20	1.78	300	17
588571H	299	229	0.8	2.65	6	320	< 0.5	< 2	1.73	< 0.5	15	158	2020	3.18	10	< 1	1.00	20	1.22	185	35
588572H	299	229	0.4	1.60	12	270	< 0.5	< 2	1.83	< 0.5	11	148	1290	2.02	10	< 1	0.63	30	0.79	110	23

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-OCT-93
Invoice No. : I9321967
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
588533H	299	229	0.23	6	1160	4	2	16	151	0.24	< 10	< 10	139	10	32
588534H	299	229	0.10	13	640	8	2	9	147	0.08	< 10	< 10	75	< 10	24
588535H	299	229	0.10	12	460	6	2	9	76	0.10	< 10	< 10	65	< 10	24
588536H	299	229	0.07	18	400	8	2	6	50	0.03	< 10	< 10	45	< 10	26
588537H	299	229	0.05	19	500	2	2	4	171	0.04	< 10	< 10	30	< 10	14
588538H	299	229	0.11	14	600	6	2	9	107	0.13	< 10	< 10	76	< 10	18
588539H	299	229	0.08	22	470	6	2	7	44	0.10	< 10	< 10	55	< 10	26
588540H	299	229	0.10	17	450	6	< 2	9	63	0.14	< 10	< 10	62	< 10	22
588541H	299	229	0.09	14	830	4	2	10	91	0.15	< 10	< 10	82	10	22
588542H	299	229	0.15	6	1040	4	2	11	170	0.15	< 10	< 10	93	20	26
588543H	299	229	0.06	19	430	6	< 2	7	117	0.03	< 10	< 10	37	< 10	30
588544H	299	229	0.02	22	450	8	2	5	115	0.01	< 10	< 10	47	< 10	28
588545H	299	229	0.04	18	350	6	4	6	156	0.01	< 10	< 10	35	< 10	26
588546H	299	229	0.11	18	330	8	2	7	111	0.06	< 10	< 10	49	< 10	22
588547H	299	229	0.16	8	830	6	< 2	12	99	0.18	< 10	< 10	97	< 10	32
588548H	299	229	0.10	3	1100	12	2	11	127	0.10	< 10	< 10	99	30	40
588549H	299	229	0.08	10	750	6	2	11	126	0.04	< 10	< 10	86	10	40
588550H	299	229	0.35	26	480	8	2	10	178	0.14	< 10	< 10	75	10	38
588551H	299	229	0.07	21	500	6	< 2	7	124	0.08	< 10	< 10	48	< 10	22
588552H	299	229	0.03	29	720	54	4	3	92	0.01	< 10	< 10	80	150	74
588553H	299	229	0.02	51	1530	2	< 2	6	56	0.04	< 10	< 10	164	< 10	18
588554H	299	229	0.06	15	480	8	< 2	2	51	< 0.01	< 10	< 10	44	< 10	12
588555H	299	229	0.04	4	180	20	4	< 1	73	< 0.01	< 10	< 10	4	< 10	24
588556H	299	229	0.02	3	270	42	4	1	107	< 0.01	< 10	< 10	2	< 10	46
588557H	299	229	0.08	4	380	8	2	4	151	0.02	< 10	< 10	29	< 10	12
588558H	299	229	0.02	4	140	8	8	1	214	< 0.01	10	< 10	4	< 10	8
588559H	299	229	0.02	2	340	12	2	1	56	< 0.01	10	< 10	6	< 10	14
588560H	299	229	0.01	3	160	20	8	< 1	42	< 0.01	< 10	< 10	2	< 10	16
588561H	299	229	0.02	1	90	12	2	< 1	56	< 0.01	< 10	< 10	1	< 10	6
588562H	299	229	0.02	2	80	40	2	< 1	72	< 0.01	< 10	< 10	1	< 10	122
588563H	299	229	0.03	2	90	14	< 2	< 1	73	< 0.01	< 10	< 10	1	< 10	8
588564H	299	229	0.03	1	100	18	< 2	< 1	50	< 0.01	< 10	< 10	1	< 10	18
588565H	299	229	0.02	4	520	12	16	6	45	0.01	< 10	< 10	29	< 10	30
588566H	299	229	0.17	8	1150	4	< 2	18	173	0.24	< 10	< 10	145	10	32
588567H	299	229	0.26	6	1260	40	4	17	251	0.29	< 10	< 10	204	10	128
588568H	299	229	0.24	3	1200	6	< 2	18	165	0.29	< 10	< 10	155	< 10	36
588569H	299	229	0.13	4	1100	8	2	16	110	0.31	< 10	< 10	127	< 10	36
588570H	299	229	0.18	3	1180	2	< 2	18	133	0.27	< 10	< 10	142	< 10	32
588571H	299	229	0.15	15	500	6	< 2	12	89	0.18	< 10	< 10	76	< 10	22
588572H	299	229	0.04	14	350	4	< 2	8	99	0.08	< 10	< 10	47	< 10	14

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Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-A
Total Pages :5
Certificate Date: 03-OCT-93
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CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
588573H	299	229	0.6	1.45	4	170	< 0.5	< 2	1.68	< 0.5	10	183	880	2.10	10	< 1	0.55	30	0.66	120	20
588574H	299	229	0.6	1.12	6	260	< 0.5	< 2	1.62	< 0.5	9	194	1235	1.55	< 10	< 1	0.45	30	0.49	115	25
588575H	299	229	0.6	0.75	18	450	< 0.5	< 2	1.27	< 0.5	5	152	824	0.68	< 10	< 1	0.27	20	0.18	75	23
588576H	299	229	0.4	0.62	20	390	< 0.5	< 2	1.38	< 0.5	4	166	932	0.72	< 10	< 1	0.23	20	0.20	75	46
588577H	299	229	1.8	1.04	52	300	< 0.5	2	1.41	< 0.5	8	143	1640	1.48	< 10	< 1	0.42	30	0.44	150	68
588578H	299	229	0.6	0.91	24	510	< 0.5	< 2	1.71	< 0.5	10	171	1745	1.46	< 10	< 1	0.32	30	0.46	120	70
588579H	299	229	0.8	1.38	24	320	< 0.5	< 2	2.03	< 0.5	11	148	1785	2.05	< 10	< 1	0.48	30	0.63	135	38
588580H	299	229	1.4	1.92	8	350	< 0.5	< 2	1.79	< 0.5	15	164	2610	2.85	10	< 1	0.96	30	1.15	135	69
588581H	299	229	1.6	2.92	12	470	0.5	< 2	2.60	< 0.5	18	109	1955	3.44	10	< 1	1.22	30	1.65	175	64
588582H	299	229	1.6	1.97	10	310	< 0.5	< 2	3.10	< 0.5	19	129	2780	2.26	10	< 1	0.65	20	0.81	125	51
588583H	299	229	0.2	0.78	24	310	< 0.5	< 2	1.48	< 0.5	7	172	850	0.94	< 10	< 1	0.26	20	0.26	60	98
588584H	299	229	0.6	0.77	26	580	< 0.5	< 2	1.05	< 0.5	4	129	863	0.67	< 10	< 1	0.22	20	0.21	55	31
588585H	299	229	0.6	1.53	6	330	0.5	< 2	2.44	< 0.5	10	125	1410	1.54	< 10	< 1	0.53	20	0.64	95	65
588586H	299	229	1.0	1.57	14	270	< 0.5	< 2	1.90	< 0.5	12	127	2290	1.65	< 10	< 1	0.49	20	0.66	110	32
588587H	299	229	1.8	1.15	68	230	< 0.5	< 2	2.03	< 0.5	16	137	4320	1.69	< 10	< 1	0.24	20	0.65	190	52
588588H	299	229	1.6	1.95	26	260	< 0.5	< 2	1.64	< 0.5	19	115	4010	2.08	< 10	< 1	0.62	20	0.76	125	43
588589H	299	229	0.6	1.23	22	260	< 0.5	< 2	0.92	< 0.5	7	108	1455	0.97	< 10	< 1	0.32	20	0.21	95	50
588590H	299	229	1.6	0.97	58	350	< 0.5	< 2	2.02	0.5	7	133	1045	0.85	< 10	< 1	0.25	20	0.22	245	47
588591H	299	229	1.2	0.95	78	710	< 0.5	2	2.28	0.5	7	135	1355	1.04	< 10	< 1	0.19	20	0.54	300	101
588592H	299	229	2.8	0.84	82	560	< 0.5	< 2	2.35	3.0	7	149	1475	1.03	< 10	< 1	0.24	30	0.40	245	244
588593H	299	229	0.8	1.10	16	340	< 0.5	< 2	2.05	< 0.5	8	139	1685	1.35	< 10	< 1	0.43	30	0.58	145	169
588594H	299	229	0.8	1.95	8	340	< 0.5	< 2	2.66	< 0.5	14	87	2950	2.54	10	< 1	0.87	20	1.14	235	59
588595H	299	229	0.6	1.72	16	230	< 0.5	< 2	1.86	< 0.5	12	99	1840	2.53	10	< 1	0.47	30	0.76	225	61
588596H	299	229	0.2	1.84	18	260	< 0.5	< 2	2.33	< 0.5	14	78	1530	2.95	< 10	< 1	0.14	30	0.65	350	267
588597H	299	229	0.8	1.83	30	150	< 0.5	< 2	2.30	< 0.5	16	72	2440	3.24	< 10	< 1	0.10	30	0.67	455	146
588598H	299	229	0.4	1.55	22	230	< 0.5	< 2	3.13	< 0.5	12	68	1750	2.17	< 10	< 1	0.24	20	0.99	325	124
588599H	299	229	0.8	1.99	26	430	< 0.5	< 2	2.66	< 0.5	13	108	2670	2.20	10	< 1	0.71	20	1.02	135	66
588600H	299	229	1.2	1.34	32	320	< 0.5	< 2	2.80	< 0.5	10	102	3190	1.51	< 10	< 1	0.31	20	0.93	110	98
588601H	299	229	0.4	1.85	26	450	< 0.5	2	2.65	< 0.5	12	103	1960	2.35	10	< 1	0.65	20	1.09	145	103
588602H	299	229	0.2	1.23	4	210	< 0.5	< 2	2.11	< 0.5	8	133	1250	1.45	< 10	< 1	0.42	20	0.67	90	56
588603H	299	229	0.8	0.42	24	100	< 0.5	2	1.65	< 0.5	5	123	1905	0.90	< 10	< 1	0.15	30	0.32	60	37
588604H	299	229	0.4	2.64	14	640	< 0.5	< 2	2.17	< 0.5	12	116	620	3.45	10	< 1	0.90	30	1.16	190	105
588605H	299	229	0.4	0.90	40	420	< 0.5	< 2	1.22	< 0.5	7	136	1285	1.42	< 10	< 1	0.16	30	0.44	110	149
588606H	299	229	0.8	1.24	24	440	< 0.5	< 2	2.06	0.5	11	93	1360	2.26	< 10	< 1	0.11	30	0.72	210	127
588607H	299	229	0.6	1.19	32	420	< 0.5	< 2	2.08	< 0.5	14	100	1880	2.35	< 10	< 1	0.06	20	0.73	175	92
588608H	299	229	2.8	0.82	44	250	< 0.5	< 2	2.57	9.0	11	92	1735	2.16	< 10	< 1	0.13	20	0.91	235	105
588609H	299	229	0.6	0.45	48	280	< 0.5	< 2	0.94	< 0.5	8	97	1250	0.89	< 10	< 1	0.16	20	0.34	85	55
588610H	299	229	0.8	0.61	50	490	< 0.5	2	1.89	0.5	7	132	1380	1.00	< 10	< 1	0.17	20	0.73	110	190
588611H	299	229	0.4	0.72	20	420	< 0.5	2	1.67	< 0.5	7	139	1215	0.94	< 10	< 1	0.12	30	0.55	75	126
588612H	299	229	0.4	1.03	24	630	< 0.5	2	1.69	< 0.5	7	134	1045	1.32	< 10	< 1	0.29	30	0.63	90	39

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
588573H	299	229	0.05	18	300	6	< 2	6	88	0.05	< 10	< 10	35	< 10	20
588574H	299	229	0.03	14	240	12	< 2	4	59	0.02	< 10	< 10	22	< 10	18
588575H	299	229	0.01	2	130	12	2	< 1	31	< 0.01	< 10	< 10	2	< 10	8
588576H	299	229	0.02	6	120	14	2	< 1	43	< 0.01	< 10	< 10	2	< 10	12
588577H	299	229	0.02	13	370	14	6	2	78	0.01	< 10	< 10	13	< 10	34
588578H	299	229	0.02	13	290	12	2	4	181	0.01	< 10	< 10	20	< 10	16
588579H	299	229	0.04	12	340	12	2	9	232	0.06	< 10	< 10	39	< 10	18
588580H	299	229	0.11	11	450	6	2	13	300	0.17	< 10	< 10	81	< 10	20
588581H	299	229	0.04	23	550	12	4	15	390	0.16	< 10	< 10	97	< 10	32
588582H	299	229	0.05	20	550	6	2	9	199	0.06	< 10	< 10	60	< 10	22
588583H	299	229	0.02	4	160	6	2	1	62	< 0.01	< 10	< 10	7	< 10	10
588584H	299	229	0.01	3	130	14	8	1	35	< 0.01	< 10	< 10	4	< 10	14
588585H	299	229	0.03	3	370	8	2	8	53	0.04	< 10	< 10	42	< 10	12
588586H	299	229	0.01	5	410	6	4	9	31	0.04	< 10	< 10	43	< 10	14
588587H	299	229	0.01	6	420	12	10	9	35	< 0.01	< 10	< 10	34	< 10	28
588588H	299	229	0.01	5	460	12	6	11	51	0.04	< 10	< 10	59	< 10	18
588589H	299	229	0.01	2	160	22	28	2	46	< 0.01	< 10	< 10	12	< 10	24
588590H	299	229	0.01	2	250	42	140	1	45	< 0.01	< 10	< 10	7	< 10	64
588591H	299	229	0.01	2	320	32	108	2	34	< 0.01	< 10	< 10	11	< 10	44
588592H	299	229	0.01	4	340	88	140	2	37	< 0.01	< 10	< 10	9	< 10	180
588593H	299	229	0.04	4	480	18	4	4	62	0.03	< 10	< 10	26	< 10	22
588594H	299	229	0.06	3	1170	4	2	12	246	0.12	< 10	< 10	73	< 10	20
588595H	299	229	0.01	4	730	14	4	12	30	0.06	< 10	< 10	59	< 10	22
588596H	299	229	0.01	4	1000	10	4	16	29	< 0.01	< 10	< 10	87	< 10	26
588597H	299	229	0.01	6	1160	12	4	16	41	< 0.01	< 10	< 10	77	< 10	24
588598H	299	229	0.01	5	910	12	2	15	35	0.02	< 10	< 10	83	< 10	18
588599H	299	229	0.02	5	710	14	2	15	46	0.09	< 10	< 10	85	< 10	16
588600H	299	229	0.02	3	570	10	2	9	40	0.01	< 10	< 10	48	< 10	14
588601H	299	229	0.04	4	790	8	2	13	102	0.09	< 10	< 10	79	< 10	20
588602H	299	229	0.04	3	410	8	< 2	8	127	0.05	< 10	< 10	47	< 10	12
588603H	299	229	0.02	2	160	14	< 2	2	40	< 0.01	10	< 10	8	< 10	14
588604H	299	229	0.03	4	840	22	4	14	65	0.15	< 10	< 10	94	< 10	46
588605H	299	229	0.01	5	300	12	2	6	22	< 0.01	< 10	< 10	25	< 10	20
588606H	299	229	0.01	11	430	24	2	11	32	< 0.01	< 10	< 10	52	< 10	52
588607H	299	229	0.01	10	670	16	< 2	15	30	< 0.01	< 10	< 10	53	< 10	28
588608H	299	229	0.01	7	550	322	4	12	28	< 0.01	< 10	< 10	43	< 10	664
588609H	299	229	0.01	2	170	16	2	1	16	< 0.01	< 10	< 10	4	< 10	28
588610H	299	229	0.01	2	160	20	4	2	25	< 0.01	< 10	< 10	7	< 10	32
588611H	299	229	0.01	3	230	22	2	3	29	< 0.01	< 10	< 10	10	< 10	22
588612H	299	229	0.03	4	250	16	2	4	120	0.02	< 10	< 10	20	< 10	24

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-OCT-93
Invoice No. :19321967
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
588613H	299	229	1.4	2.42	38	510	< 0.5	< 2	2.37	0.5	12	92	2150	3.19	10	< 1	0.96	20	1.30	240	126
588614H	299	229	0.8	2.68	8	360	< 0.5	< 2	1.96	< 0.5	13	66	1645	3.65	10	< 1	1.18	20	1.64	220	31
588615H	299	229	1.0	3.39	2	140	< 0.5	< 2	2.29	< 0.5	18	117	1770	4.83	10	< 1	1.47	20	1.95	280	51
588616H	299	229	1.2	2.91	12	110	< 0.5	< 2	2.47	< 0.5	15	79	2030	3.68	10	< 1	1.28	10	1.69	175	67
588617H	299	229	1.2	2.97	10	290	< 0.5	< 2	2.31	< 0.5	13	111	1640	3.81	10	< 1	1.25	20	1.79	180	28
588618H	299	229	0.8	2.24	4	310	< 0.5	< 2	1.89	< 0.5	12	86	1615	3.06	< 10	< 1	1.00	20	1.44	160	66
588619H	299	229	1.4	3.39	16	110	< 0.5	< 2	2.25	< 0.5	18	60	2340	4.33	< 10	< 1	1.53	10	2.07	225	36
588620H	299	229	1.2	2.36	8	140	< 0.5	< 2	2.22	< 0.5	17	72	2590	3.41	< 10	< 1	0.96	20	1.56	165	72
588621H	299	229	0.6	3.56	14	120	< 0.5	< 2	2.58	< 0.5	16	84	1045	4.16	< 10	< 1	1.43	10	2.00	260	74
588622H	299	229	0.8	3.42	6	110	< 0.5	< 2	2.95	< 0.5	17	63	1510	3.81	< 10	< 1	1.36	10	1.92	240	31
588623H	299	229	0.4	1.74	10	250	< 0.5	< 2	1.51	< 0.5	10	157	870	2.62	< 10	< 1	0.72	20	1.26	140	58
588624H	299	229	0.6	1.83	8	230	< 0.5	< 2	1.60	< 0.5	11	152	1195	2.59	< 10	< 1	0.89	30	1.07	145	89
588625H	299	229	0.4	1.37	2	160	< 0.5	< 2	1.06	< 0.5	9	181	911	2.11	< 10	< 1	0.66	20	0.86	105	35
588626H	299	229	0.4	1.89	8	140	< 0.5	< 2	1.37	< 0.5	11	181	830	2.87	10	< 1	0.95	50	1.03	145	72
588627H	299	229	0.6	1.63	14	140	< 0.5	< 2	1.96	< 0.5	11	177	1035	1.92	< 10	< 1	0.45	40	0.64	90	63
588628H	299	229	< 0.2	0.75	2	270	< 0.5	< 2	1.02	< 0.5	3	164	599	0.79	< 10	< 1	0.24	30	0.14	40	99
588629H	299	229	0.6	1.20	2	250	< 0.5	< 2	1.72	< 0.5	8	134	1340	1.42	< 10	< 1	0.47	30	0.64	70	90
588630H	299	229	1.2	2.93	12	390	< 0.5	< 2	2.80	< 0.5	15	65	2750	2.95	10	< 1	1.25	30	1.50	120	301
588631H	299	229	1.2	2.56	12	190	< 0.5	< 2	1.29	< 0.5	23	80	2100	4.30	10	< 1	1.23	20	1.86	155	89
588632H	299	229	1.4	2.68	10	220	< 0.5	< 2	2.08	< 0.5	20	62	2790	3.39	< 10	< 1	1.32	20	1.82	120	40
588633H	299	229	0.4	3.03	4	120	< 0.5	< 2	1.90	< 0.5	17	81	1425	4.11	10	< 1	1.41	20	1.88	150	29
588634H	299	229	1.2	2.68	14	130	< 0.5	< 2	1.91	< 0.5	20	72	2470	3.86	< 10	< 1	1.30	20	1.82	155	57
588635H	299	229	0.4	3.29	6	120	< 0.5	< 2	2.22	< 0.5	14	87	1170	3.93	10	< 1	1.35	20	1.95	145	23
588636H	299	229	1.4	2.74	12	80	< 0.5	< 2	2.25	< 0.5	22	81	2540	3.65	10	< 1	1.37	20	1.78	135	82
588637H	299	229	1.8	2.60	14	90	< 0.5	< 2	2.23	< 0.5	19	92	3510	3.59	10	< 1	1.28	20	1.71	135	116
588638H	299	229	0.6	2.91	14	180	< 0.5	< 2	2.19	< 0.5	13	96	1055	3.95	10	< 1	1.26	20	1.85	225	53
588639H	299	229	0.6	2.99	8	200	< 0.5	< 2	2.16	< 0.5	16	99	942	3.98	10	< 1	1.28	20	1.92	260	37
588640H	299	229	2.0	3.09	18	110	< 0.5	< 2	1.97	< 0.5	28	97	2440	4.73	10	1	1.38	20	1.98	270	18
588641H	299	229	3.4	2.68	50	30	< 0.5	2	2.00	< 0.5	15	96	1120	5.83	10	< 1	1.03	20	1.51	385	48
588642H	299	229	0.8	3.32	10	130	< 0.5	< 2	2.24	< 0.5	17	84	1465	3.97	10	< 1	1.44	20	2.06	270	30
588643H	299	229	0.6	3.36	14	80	< 0.5	< 2	2.81	< 0.5	23	70	1490	4.69	10	< 1	1.39	20	2.35	320	41
588644H	299	229	0.4	1.45	2	270	< 0.5	< 2	1.94	< 0.5	8	138	1000	1.73	< 10	< 1	0.71	20	0.88	105	49
588645H	299	229	0.8	3.30	12	260	< 0.5	< 2	2.41	< 0.5	21	87	1410	4.57	10	< 1	1.25	20	2.01	325	6
588646H	299	229	0.6	3.71	12	140	< 0.5	< 2	2.03	< 0.5	21	70	940	5.03	< 10	< 1	1.62	20	2.18	380	85
588647H	299	229	0.6	3.05	18	160	< 0.5	< 2	1.80	< 0.5	18	74	817	4.36	< 10	< 1	1.44	20	1.95	295	48
588648H	299	229	0.6	2.88	6	520	< 0.5	< 2	1.76	< 0.5	18	64	781	4.32	< 10	< 1	1.33	20	1.82	300	80
588649H	299	229	0.6	3.03	12	620	< 0.5	< 2	1.76	< 0.5	15	84	832	4.28	10	< 1	1.24	20	2.06	335	31
588650H	299	229	1.4	3.17	20	180	< 0.5	< 2	1.81	< 0.5	20	45	1220	4.62	10	< 1	1.23	20	2.11	335	42
588651H	299	229	1.4	2.49	82	340	< 0.5	< 2	1.92	< 0.5	16	102	847	4.13	< 10	< 1	0.74	20	1.61	540	22

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-205
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :5-B
Total Pages :5
Certificate Date: 03-OCT-93
Invoice No. :19321967
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321967

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
588613H	299	229	0.09	5	1140	14	< 2	17	274	0.16	< 10	< 10	105	< 10	56
588614H	299	229	0.20	3	880	4	2	15	116	0.26	< 10	< 10	125	< 10	28
588615H	299	229	0.27	4	980	6	2	20	138	0.32	< 10	< 10	162	10	34
588616H	299	229	0.25	3	910	2	2	18	138	0.28	< 10	< 10	147	10	26
588617H	299	229	0.22	4	1010	4	< 2	18	136	0.30	< 10	< 10	143	< 10	28
588618H	299	229	0.16	4	800	6	2	13	98	0.24	< 10	< 10	110	< 10	24
588619H	299	229	0.23	7	1030	8	2	18	141	0.33	< 10	< 10	160	10	34
588620H	299	229	0.13	7	910	8	2	15	109	0.24	< 10	< 10	127	< 10	30
588621H	299	229	0.26	7	1050	4	2	18	191	0.31	< 10	< 10	158	10	34
588622H	299	229	0.27	6	1050	6	2	19	174	0.30	< 10	< 10	168	10	30
588623H	299	229	0.09	9	540	6	< 2	12	54	0.17	< 10	< 10	89	< 10	22
588624H	299	229	0.08	16	600	8	2	11	52	0.16	< 10	< 10	78	< 10	24
588625H	299	229	0.09	10	290	8	< 2	8	49	0.13	< 10	< 10	62	< 10	18
588626H	299	229	0.09	24	350	6	2	12	47	0.18	< 10	< 10	69	< 10	26
588627H	299	229	0.06	17	340	8	2	7	60	0.04	< 10	< 10	47	< 10	20
588628H	299	229	0.07	1	120	12	< 2	1	65	< 0.01	10	< 10	7	< 10	12
588629H	299	229	0.07	3	380	10	< 2	7	82	0.05	< 10	< 10	46	< 10	14
588630H	299	229	0.11	4	910	4	2	15	96	0.19	< 10	< 10	131	10	22
588631H	299	229	0.12	4	1060	4	< 2	17	49	0.29	< 10	< 10	124	10	30
588632H	299	229	0.12	4	1000	4	< 2	18	87	0.29	< 10	< 10	137	10	24
588633H	299	229	0.19	4	1010	4	< 2	19	108	0.32	< 10	< 10	160	10	30
588634H	299	229	0.16	6	960	6	< 2	18	90	0.31	< 10	< 10	152	10	28
588635H	299	229	0.24	4	950	4	< 2	20	154	0.32	< 10	< 10	173	10	28
588636H	299	229	0.19	4	1060	4	< 2	19	124	0.29	< 10	< 10	151	10	28
588637H	299	229	0.16	7	930	6	2	18	109	0.30	< 10	< 10	157	10	28
588638H	299	229	0.21	6	860	4	< 2	18	119	0.32	< 10	< 10	167	10	32
588639H	299	229	0.19	6	900	4	< 2	18	119	0.32	< 10	< 10	173	10	34
588640H	299	229	0.22	9	970	6	2	20	107	0.35	< 10	< 10	190	10	38
588641H	299	229	0.17	5	1000	14	4	12	106	0.27	< 10	< 10	135	10	40
588642H	299	229	0.23	5	1000	4	2	17	155	0.32	< 10	< 10	167	10	32
588643H	299	229	0.18	7	1100	4	< 2	19	208	0.33	< 10	< 10	179	10	36
588644H	299	229	0.11	4	520	4	2	8	99	0.11	< 10	< 10	69	< 10	14
588645H	299	229	0.18	8	1110	4	2	18	161	0.26	< 10	< 10	164	10	34
588646H	299	229	0.29	6	1140	< 2	< 2	16	144	0.38	< 10	< 10	176	10	40
588647H	299	229	0.21	5	1020	< 2	2	15	111	0.35	< 10	< 10	164	10	34
588648H	299	229	0.16	6	970	6	< 2	16	146	0.29	< 10	< 10	149	< 10	36
588649H	299	229	0.14	6	1010	4	2	17	104	0.26	< 10	< 10	163	10	36
588650H	299	229	0.15	7	1130	6	4	18	187	0.27	< 10	< 10	174	10	36
588651H	299	229	0.11	5	860	8	2	13	112	0.19	< 10	< 10	125	10	52

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 206
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
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Certificate Date: 28-SEP-93
Invoice No. :19321532
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321532

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574328	208 274	0.10	0.006	0.34	5260
574329	208 276	0.06	0.007	0.51	9580
574330	208 276	0.06	0.011	0.48	8680
574331	208 274	0.05	0.009	0.48	7140
574332	208 276	0.07	0.008	0.31	7980
574333	208 276	0.05	0.006	0.31	9240
574334	208 274	0.04	0.016	0.27	4420
574335	208 276	0.06	0.045	0.17	7560
574336	208 276	0.09	0.077	0.17	10360
574337	208 273	0.04	0.010	0.24	12760
574338	208 276	0.09	0.008	0.14	10120
574339	208 276	0.09	0.005	0.14	10900
574340	208 276	0.13	0.009	0.17	9020
574341	208 276	0.18	0.006	0.17	7720
574342	208 273	0.18	0.006	0.21	13360
574343	208 276	0.19	0.005	0.14	11640
574344	208 273	0.12	0.004	0.17	13500
574345	208 273	0.24	0.006	0.21	12260
574346	208 276	0.10	0.005	0.07	11660
574347	208 276	0.10	0.005	0.10	11580
574348	208 273	0.16	0.011	0.14	12500
574349	208 276	0.07	0.005	0.10	7340
574350	208 276	0.10	0.005	0.07	9760
574351	208 273	0.16	0.004	0.07	15460
574352	208 273	0.03	0.002	< 0.03	12100
574353	208 276	0.03	0.002	< 0.03	11280
574354	208 273	0.01	0.003	< 0.03	12800
574355	208 276	0.02	0.003	< 0.03	11720
574356	208 276	0.02	0.003	< 0.03	11460
574357	208 276	0.04	0.003	< 0.03	10900
574358	208 276	0.04	0.003	< 0.03	10460
574359	208 276	0.04	0.003	< 0.03	9400
574360	208 276	0.08	0.004	0.07	9220
574361	208 273	0.02	0.004	< 0.03	13500
574362	208 276	0.14	0.004	0.21	11700
574363	208 276	0.09	0.003	0.07	11520
574364	208 276	0.41	0.003	0.21	10500
574365	208 276	0.06	0.003	0.34	11360
574366	208 276	0.03	0.002	0.03	11080
574367	208 276	0.16	0.001	0.10	11100

CERTIFICATION: J. Smith

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 206
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2
Total Pages :4
Certificate Date: 28-SEP-93
Invoice No. :I9321532
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321532

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574368	208 274	0.07	0.002	0.07	6600
574369	208 276	0.06	0.001	< 0.03	11800
574370	208 276	0.08	0.002	< 0.03	11320
574371	208 276	0.07	0.001	< 0.03	11200
574372	208 273	0.09	0.002	0.07	12720
574373	208 273	0.12	0.010	0.10	12660
574374	208 273	0.12	0.002	0.07	11960
574375	208 276	0.27	0.028	0.07	11700
574376	208 276	0.15	0.008	0.14	11440
574377	208 276	0.12	0.003	0.17	11020
574378	208 276	0.07	0.014	0.21	11480
574379	208 273	0.09	0.011	0.07	15340
574380	208 276	0.06	0.002	< 0.03	7960
574381	208 276	0.08	0.002	< 0.03	11480
574382	208 273	0.08	0.005	0.07	11960
574383	208 273	0.11	0.007	0.07	12100
574384	208 276	0.12	0.008	0.10	11100
574385	208 273	0.13	0.011	0.17	12420
574386	208 276	0.16	0.039	0.14	7700
574387	208 276	0.39	0.060	0.27	9100
574388	208 276	0.30	0.039	0.24	8480
574389	208 273	0.15	0.014	0.10	12200
574390	208 273	0.19	0.042	0.14	12360
574391	208 273	0.10	0.059	0.10	12420
574392	208 276	0.09	0.018	0.07	7400
574393	208 273	0.05	0.022	0.03	13440
574394	208 276	0.08	0.002	0.07	10640
574395	208 276	0.07	0.002	0.10	11000
574396	208 276	0.12	0.003	0.07	7700
574397	208 273	0.17	0.018	0.56	12000
574398	208 273	0.11	0.015	0.15	12300
574399	208 273	0.15	0.019	0.17	12920
574400	208 276	0.21	0.037	0.24	10000
574401	208 276	0.21	0.055	0.21	11420
574402	208 273	0.16	0.029	0.17	12720
574403	208 273	0.31	0.053	0.38	12220
574404	208 273	0.18	0.044	0.21	11980
574405	208 273	0.12	0.029	0.10	12400
574406	208 273	0.10	0.022	0.14	12040
574407	208 274	0.15	0.023	0.14	5460

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 206
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-SEP-93
Invoice No. : I9321532
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321532

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574408	208 276	0.17	0.032	0.21	8120
574409	208 273	0.14	0.026	0.14	12920
574410	208 273	0.13	0.023	0.10	12860
574411	208 273	0.22	0.064	0.21	13040
574412	208 273	0.16	0.029	0.17	13340
574413	208 273	0.31	0.042	0.34	12260
574414	208 273	0.14	0.019	0.24	13360
574415	208 273	0.12	0.058	0.17	12700
574416	208 273	0.23	0.022	0.21	13280
574417	208 273	0.15	0.025	0.21	12750
574418	208 273	0.12	0.038	0.14	12780
574419	208 273	0.09	0.031	0.14	13300
574420	208 274	0.10	0.037	0.14	6920
574421	208 273	0.12	0.054	0.17	13260
574422	208 274	0.20	0.041	0.34	5700
574423	208 273	0.09	0.062	0.14	13100
574424	208 273	0.10	0.065	0.10	12140
574425	208 273	0.07	0.029	0.07	12500
574426	208 273	0.53	0.026	0.27	12900
574427	208 273	0.27	0.044	0.45	14980
574428	208 273	0.10	0.036	0.14	12320
574429	208 273	0.06	0.032	0.07	12020
574430	208 276	0.12	0.018	0.07	9640
574431	208 273	0.08	0.008	0.03	12040
574432	208 276	0.07	0.002	< 0.03	11150
574433	208 273	0.08	0.006	0.03	12010
574434	208 273	0.03	0.009	< 0.03	12520
574435	208 273	0.06	0.017	< 0.03	12620
574436	208 273	0.05	0.012	0.07	12460
574437	208 273	0.06	0.027	0.10	12680
574438	208 273	0.06	0.028	0.07	12620
574439	208 276	0.05	0.014	0.10	10720
574440	208 273	0.04	0.031	0.07	12540
574441	208 273	0.04	0.016	0.03	12240
574442	208 273	0.07	0.020	0.07	13000
574443	208 273	0.05	0.010	0.10	13280
574444	208 273	0.04	0.024	< 0.03	12920
574445	208 273	0.06	0.029	0.03	13380
574446	208 273	0.04	0.016	< 0.03	13080
574447	208 276	0.03	0.009	< 0.03	11500

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 206
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-SEP-93
Invoice No. : I9321532
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321532

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
574448	208 273	0.03	0.011	< 0.03	14140
574449	208 273	0.08	0.040	0.03	13800
574450	208 273	0.08	0.025	0.07	13140
574451	208 273	0.09	0.034	0.07	13140
574452	208 273	0.07	0.018	0.03	12900
574453	208 273	0.14	0.020	0.10	13640
574454	208 273	0.06	0.030	0.07	14020
574455	208 273	0.09	0.028	0.10	13760

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CERTIFICATE OF ANALYSIS A9321533

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574328	299	229	2.6	1.37	60	220	< 0.5	< 2	0.02	< 0.5	5	72	1045	6.48	10	< 1	1.01	20	0.24	70	32
574329	299	229	4.0	0.83	160	140	< 0.5	< 2	0.01	< 0.5	2	56	619	7.37	< 10	< 1	1.14	20	0.07	75	35
574330	299	229	2.6	0.94	90	150	< 0.5	< 2	0.01	< 0.5	3	39	614	7.00	10	< 1	1.07	30	0.20	75	58
574331	299	229	4.2	0.79	80	140	< 0.5	< 2	0.01	< 0.5	3	60	498	7.08	10	< 1	1.09	30	0.11	120	48
574332	299	229	2.6	0.74	60	170	< 0.5	< 2	< 0.01	< 0.5	6	39	665	7.10	< 10	< 1	0.84	20	0.15	220	43
574333	299	229	2.8	0.63	80	190	< 0.5	2	0.01	< 0.5	2	50	492	6.31	< 10	< 1	0.85	30	0.06	95	31
574334	299	229	3.2	0.61	48	270	< 0.5	2	0.01	< 0.5	< 1	78	403	5.86	< 10	< 1	0.84	30	0.04	40	101
574335	299	229	2.0	0.99	20	270	< 0.5	< 2	0.01	< 0.5	1	71	574	7.58	10	< 1	0.62	30	0.23	65	286
574336	299	229	2.6	1.41	14	180	< 0.5	2	0.01	< 0.5	2	77	914	5.96	10	< 1	0.67	20	0.36	70	496
574337	299	229	3.4	0.77	40	160	< 0.5	6	0.01	< 0.5	2	76	411	6.24	< 10	< 1	1.02	30	0.09	60	58
574338	299	229	2.6	1.31	28	230	< 0.5	6	0.02	< 0.5	6	80	886	6.37	10	< 1	0.91	30	0.20	130	42
574339	299	229	1.2	1.29	18	320	< 0.5	< 2	0.03	< 0.5	6	109	867	6.86	10	< 1	0.73	20	0.40	135	20
574340	299	229	2.0	1.25	30	160	< 0.5	< 2	0.08	< 0.5	9	109	1265	7.99	10	< 1	0.88	20	0.36	165	54
574341	299	229	2.4	0.97	18	90	< 0.5	6	0.20	< 0.5	14	44	1740	6.90	10	< 1	0.54	20	0.54	155	40
574342	299	229	1.4	1.35	16	130	< 0.5	< 2	0.31	0.5	15	81	1855	6.60	10	< 1	0.56	20	0.91	275	32
574343	299	229	0.8	1.31	4	150	< 0.5	< 2	0.28	< 0.5	13	98	1730	6.66	10	< 1	0.58	20	0.77	235	24
574344	299	229	0.8	1.18	26	90	< 0.5	2	0.31	< 0.5	13	76	1180	6.62	10	< 1	0.57	20	0.76	290	17
574345	299	229	2.6	1.30	26	80	< 0.5	4	0.41	< 0.5	12	92	2430	7.11	10	< 1	0.51	20	0.77	170	29
574346	299	229	0.8	1.41	8	120	< 0.5	< 2	0.33	< 0.5	10	59	921	6.14	10	< 1	0.63	20	0.92	165	23
574347	299	229	0.6	1.42	< 2	70	< 0.5	< 2	0.60	< 0.5	12	61	960	5.94	10	< 1	0.43	20	1.04	225	26
574348	299	229	1.8	1.39	20	120	< 0.5	6	0.82	< 0.5	12	59	1540	5.99	10	< 1	0.54	20	0.58	265	62
574349	299	229	1.2	1.66	4	150	< 0.5	< 2	0.37	< 0.5	6	88	604	4.96	10	< 1	0.63	30	0.77	165	24
574350	299	229	1.2	1.51	4	140	< 0.5	6	0.38	< 0.5	9	86	988	5.61	10	< 1	0.59	20	0.66	205	24
574351	299	229	0.8	1.74	12	150	< 0.5	< 2	0.99	0.5	15	77	1590	5.33	10	< 1	0.54	20	0.89	390	17
574352	299	229	0.4	1.18	2	100	< 0.5	4	1.77	< 0.5	6	54	318	2.77	10	< 1	0.29	20	0.58	210	6
574353	299	229	0.4	1.43	4	90	< 0.5	4	1.67	< 0.5	4	61	307	2.50	10	< 1	0.28	20	0.66	275	3
574354	299	229	0.2	1.20	< 2	50	< 0.5	4	1.60	< 0.5	4	43	123	1.90	10	< 1	0.22	10	0.65	220	11
574355	299	229	0.2	1.10	2	90	< 0.5	2	1.69	< 0.5	6	39	150	2.34	10	< 1	0.23	20	0.60	210	11
574356	299	229	0.2	1.15	8	20	< 0.5	4	1.14	< 0.5	4	30	168	2.52	10	< 1	0.21	20	0.65	160	11
574357	299	229	0.8	0.93	14	10	< 0.5	8	0.74	< 0.5	4	17	379	2.34	10	< 1	0.17	40	0.34	330	12
574358	299	229	0.8	1.19	2	30	< 0.5	8	1.00	< 0.5	4	17	386	2.44	10	< 1	0.21	30	0.50	180	13
574359	299	229	0.4	1.38	< 2	60	< 0.5	18	1.71	< 0.5	3	39	356	2.39	10	< 1	0.31	20	0.68	220	12
574360	299	229	0.8	1.27	4	140	< 0.5	22	1.86	< 0.5	4	38	787	2.25	10	< 1	0.33	10	0.60	185	15
574361	299	229	< 0.2	1.24	2	140	< 0.5	4	2.37	< 0.5	4	39	151	2.10	10	< 1	0.34	10	0.57	180	14
574362	299	229	3.8	0.88	8	60	< 0.5	132	2.34	0.5	3	28	1380	2.81	< 10	< 1	0.35	< 10	0.66	190	18
574363	299	229	0.8	1.06	2	100	< 0.5	44	2.27	< 0.5	3	38	878	2.44	10	< 1	0.45	< 10	0.56	205	9
574364	299	229	6.6	1.14	50	50	< 0.5	300	1.19	0.5	6	45	4440	3.62	10	< 1	0.49	10	0.44	310	12
574365	299	229	0.6	1.53	12	70	< 0.5	2	1.33	< 0.5	10	43	595	3.95	10	< 1	0.42	10	0.74	185	12
574366	299	229	0.2	1.28	2	240	< 0.5	4	2.11	< 0.5	4	44	242	1.87	10	< 1	0.42	10	0.58	175	2
574367	299	229	1.8	1.43	20	30	< 0.5	38	0.98	< 0.5	7	39	1690	4.27	10	< 1	0.41	10	0.48	170	2

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Certificate Date: 29-SEP-93
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CERTIFICATE OF ANALYSIS A9321533

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574328	299	229	0.02	7	640	14	8	3	26	0.02	< 10	< 10	37	< 10	66
574329	299	229	0.03	3	730	22	20	2	30	< 0.01	< 10	< 10	27	< 10	90
574330	299	229	0.02	5	760	8	4	2	28	0.02	< 10	< 10	27	< 10	66
574331	299	229	0.03	4	720	20	4	2	34	0.01	< 10	< 10	23	< 10	56
574332	299	229	0.02	7	680	12	6	2	28	0.01	< 10	< 10	30	< 10	70
574333	299	229	0.02	3	680	12	2	1	35	< 0.01	< 10	< 10	20	< 10	38
574334	299	229	0.02	2	650	12	4	1	44	< 0.01	< 10	< 10	22	< 10	24
574335	299	229	0.02	7	580	8	2	2	33	0.01	< 10	< 10	30	< 10	40
574336	299	229	0.03	6	730	2	2	2	29	0.01	< 10	< 10	28	< 10	46
574337	299	229	0.04	2	600	22	< 2	1	49	< 0.01	< 10	< 10	17	30	46
574338	299	229	0.04	8	680	8	2	2	27	0.01	< 10	< 10	29	< 10	64
574339	299	229	0.06	10	530	4	< 2	3	24	0.03	< 10	< 10	44	< 10	46
574340	299	229	0.08	12	710	10	2	3	34	0.02	< 10	< 10	37	< 10	50
574341	299	229	0.04	12	660	2	< 2	2	17	0.04	< 10	< 10	35	10	46
574342	299	229	0.03	15	680	< 2	< 2	3	15	0.03	< 10	< 10	41	< 10	52
574343	299	229	0.04	14	640	< 2	< 2	3	20	0.03	< 10	< 10	41	< 10	52
574344	299	229	0.02	13	640	4	< 2	3	17	0.01	< 10	< 10	33	< 10	40
574345	299	229	0.04	15	720	4	< 2	3	23	0.02	< 10	< 10	39	60	40
574346	299	229	0.07	12	710	< 2	< 2	3	29	0.04	< 10	< 10	42	20	36
574347	299	229	0.03	14	720	< 2	< 2	3	23	0.03	< 10	< 10	43	20	38
574348	299	229	0.03	14	790	4	< 2	3	44	0.01	< 10	< 10	34	10	66
574349	299	229	0.07	10	640	26	< 2	4	62	0.02	< 10	< 10	38	< 10	46
574350	299	229	0.07	12	680	4	< 2	3	58	0.02	< 10	< 10	39	< 10	56
574351	299	229	0.03	16	740	4	< 2	3	36	0.02	< 10	< 10	39	< 10	56
574352	299	229	0.04	4	750	4	< 2	3	54	< 0.01	< 10	< 10	21	< 10	32
574353	299	229	0.06	4	730	8	< 2	3	102	0.01	< 10	< 10	24	< 10	32
574354	299	229	0.06	3	710	8	< 2	2	100	< 0.01	< 10	< 10	18	< 10	32
574355	299	229	0.05	3	740	4	2	2	86	< 0.01	< 10	< 10	17	< 10	34
574356	299	229	0.04	3	760	4	< 2	2	37	< 0.01	< 10	< 10	14	< 10	22
574357	299	229	< 0.01	4	820	10	< 2	2	23	< 0.01	< 10	< 10	10	< 10	20
574358	299	229	0.01	3	740	2	< 2	2	32	< 0.01	< 10	< 10	10	< 10	20
574359	299	229	0.06	3	730	6	< 2	2	47	< 0.01	< 10	< 10	15	< 10	20
574360	299	229	0.04	2	740	4	< 2	2	61	< 0.01	< 10	< 10	14	< 10	18
574361	299	229	0.05	2	740	4	< 2	2	92	< 0.01	< 10	< 10	16	< 10	18
574362	299	229	0.02	2	680	34	< 2	1	53	< 0.01	< 10	< 10	8	< 10	18
574363	299	229	0.03	2	680	10	< 2	1	74	< 0.01	< 10	< 10	10	< 10	20
574364	299	229	0.01	4	720	28	6	1	23	< 0.01	< 10	< 10	9	< 10	60
574365	299	229	0.03	7	710	2	< 2	2	33	< 0.01	< 10	< 10	13	< 10	34
574366	299	229	0.07	3	740	2	< 2	2	82	< 0.01	< 10	< 10	14	< 10	18
574367	299	229	0.02	4	750	12	2	1	39	< 0.01	< 10	< 10	10	< 10	40

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574368	299	229	1.4	0.92	4	30	< 0.5	28	0.37	< 0.5	7	21	763	2.30	10	< 1	0.24	40	0.11	110	2
574369	299	229	0.8	1.82	2	20	< 0.5	12	0.44	< 0.5	7	13	572	2.61	10	< 1	0.26	30	0.48	130	1
574370	299	229	0.6	1.05	2	70	< 0.5	10	1.30	< 0.5	7	24	705	2.91	10	< 1	0.37	10	0.49	200	2
574371	299	229	0.4	0.98	2	70	< 0.5	18	1.45	< 0.5	5	29	766	2.47	10	< 1	0.46	10	0.50	180	1
574372	299	229	0.6	0.66	6	60	< 0.5	14	1.26	0.5	7	19	918	2.66	10	< 1	0.30	10	0.32	205	5
574373	299	229	1.0	0.95	24	40	< 0.5	24	1.05	0.5	8	28	1260	4.00	10	< 1	0.44	< 10	0.45	190	50
574374	299	229	0.6	0.89	< 2	40	< 0.5	14	0.98	1.5	7	22	1345	4.19	10	< 1	0.29	10	0.39	210	9
574375	299	229	1.0	1.36	16	40	< 0.5	16	1.00	1.0	7	42	2650	8.18	10	< 1	0.37	10	0.39	275	154
574376	299	229	1.0	0.93	16	40	< 0.5	6	1.06	0.5	20	35	1545	4.92	10	< 1	0.40	10	0.58	315	43
574377	299	229	1.6	1.39	16	40	< 0.5	10	0.77	1.0	11	28	1285	3.39	10	< 1	0.42	10	0.38	315	12
574378	299	229	0.8	0.57	14	30	< 0.5	6	1.47	1.0	10	20	811	3.96	10	< 1	0.20	10	0.56	330	75
574379	299	229	0.8	1.05	< 2	50	< 0.5	36	1.24	0.5	6	36	926	3.37	10	< 1	0.39	10	0.49	175	59
574380	299	229	0.4	0.49	4	20	< 0.5	4	1.25	1.0	4	7	670	3.00	< 10	< 1	0.18	< 10	0.47	230	3
574381	299	229	0.6	1.04	4	60	< 0.5	12	1.16	0.5	4	32	828	4.07	10	< 1	0.46	< 10	0.53	185	1
574382	299	229	0.6	0.76	6	40	< 0.5	4	1.22	1.5	10	22	799	4.68	10	< 1	0.27	10	0.48	405	21
574383	299	229	0.8	0.68	8	20	< 0.5	4	1.43	0.5	17	30	1065	5.25	10	< 1	0.19	10	0.53	520	29
574384	299	229	0.8	1.97	22	70	< 0.5	2	1.14	< 0.5	24	55	1295	5.64	10	< 1	0.46	20	0.67	345	41
574385	299	229	1.4	0.93	6	30	< 0.5	4	0.94	< 0.5	18	44	1325	3.58	10	< 1	0.22	20	0.40	355	68
574386	299	229	1.8	1.50	4	70	< 0.5	4	1.17	< 0.5	20	64	1620	4.41	10	< 1	0.47	30	0.63	400	231
574387	299	229	3.0	0.94	14	40	< 0.5	4	1.07	0.5	22	48	4000	4.91	10	< 1	0.41	20	0.72	460	351
574388	299	229	2.0	1.40	2	60	< 0.5	4	1.41	< 0.5	16	61	2980	4.22	10	< 1	0.44	20	0.70	410	214
574389	299	229	1.0	0.75	2	40	< 0.5	4	1.35	< 0.5	13	33	1560	3.87	10	< 1	0.32	10	0.81	275	76
574390	299	229	2.4	0.84	14	30	< 0.5	18	1.66	0.5	16	50	1995	5.14	10	< 1	0.42	10	0.73	760	245
574391	299	229	0.4	0.70	6	30	< 0.5	< 2	1.48	< 0.5	19	37	1075	5.29	10	< 1	0.38	20	1.07	155	348
574392	299	229	0.2	1.37	< 2	40	< 0.5	< 2	0.85	< 0.5	20	78	920	5.46	10	< 1	0.63	10	1.06	175	103
574393	299	229	0.4	0.57	30	10	< 0.5	4	1.42	0.5	17	44	469	6.07	< 10	< 1	0.29	< 10	0.77	185	113
574394	299	229	2.6	1.14	96	70	< 0.5	30	1.17	0.5	4	44	833	2.96	10	< 1	0.55	10	0.38	330	6
574395	299	229	3.0	0.58	152	30	< 0.5	14	1.01	7.0	6	24	740	3.92	< 10	< 1	0.34	< 10	0.33	545	5
574396	299	229	2.0	1.21	12	30	< 0.5	32	0.99	0.5	7	34	1225	4.17	< 10	< 1	0.67	< 10	0.42	605	11
574397	299	229	66.8	0.99	38	30	< 0.5	250	1.45	12.5	21	38	1695	4.31	10	< 1	0.28	10	0.62	345	100
574398	299	229	0.6	0.75	12	60	< 0.5	2	1.34	< 0.5	16	37	1090	3.66	10	< 1	0.30	20	0.79	145	81
574399	299	229	1.0	1.57	20	70	< 0.5	< 2	0.72	< 0.5	24	66	1495	4.23	10	< 1	0.52	30	0.97	305	101
574400	299	229	1.4	1.28	18	80	< 0.5	2	0.57	1.5	34	49	1985	4.27	10	< 1	0.35	30	0.99	485	199
574401	299	229	2.4	1.25	86	60	< 0.5	6	1.25	1.0	24	68	2000	4.08	10	< 1	0.56	10	0.85	1170	309
574402	299	229	0.6	1.13	20	50	< 0.5	< 2	0.96	1.0	22	50	1565	3.95	10	< 1	0.37	30	0.93	185	161
574403	299	229	1.4	1.68	6	80	< 0.5	< 2	0.73	0.5	21	75	3050	4.24	10	< 1	0.56	30	1.02	205	307
574404	299	229	1.2	0.72	18	30	< 0.5	< 2	1.77	0.5	21	36	1800	5.23	10	< 1	0.24	20	0.61	210	258
574405	299	229	1.4	1.04	8	30	< 0.5	6	1.69	< 0.5	30	63	1155	4.49	10	< 1	0.44	20	0.69	430	157
574406	299	229	0.2	0.70	14	40	< 0.5	< 2	1.72	< 0.5	36	39	1010	3.51	10	< 1	0.24	20	0.70	195	105
574407	299	229	2.6	1.37	36	40	< 0.5	68	1.13	0.5	35	95	1480	3.93	10	< 1	0.47	10	0.62	415	129

CERTIFICATION: John D'Mea

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 206
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu :2-B
Total Pag. :4
Certificate Date: 29-SEP-93
Invoice No. : I9321533
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321533

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574368	299	229	< 0.01	4	840	10	< 2	2	12	< 0.01	< 10	< 10	9	< 10	32
574369	299	229	< 0.01	4	790	2	< 2	2	15	< 0.01	< 10	< 10	15	< 10	42
574370	299	229	0.04	3	700	4	< 2	1	47	< 0.01	< 10	< 10	10	< 10	28
574371	299	229	0.07	2	710	4	< 2	1	50	< 0.01	< 10	< 10	11	< 10	22
574372	299	229	0.03	3	700	6	< 2	1	43	< 0.01	< 10	< 10	8	< 10	32
574373	299	229	0.01	6	670	14	2	1	25	< 0.01	< 10	< 10	6	< 10	38
574374	299	229	< 0.01	7	690	14	< 2	1	22	< 0.01	< 10	< 10	6	< 10	60
574375	299	229	0.01	7	560	12	2	1	18	< 0.01	< 10	< 10	10	< 10	78
574376	299	229	0.01	13	690	2	2	1	23	< 0.01	< 10	< 10	11	< 10	48
574377	299	229	0.01	9	800	22	< 2	2	19	< 0.01	< 10	< 10	13	< 10	58
574378	299	229	< 0.01	7	740	30	2	1	29	< 0.01	< 10	< 10	6	< 10	48
574379	299	229	0.01	6	690	12	< 2	3	26	< 0.01	< 10	< 10	17	< 10	32
574380	299	229	< 0.01	4	740	14	< 2	1	25	< 0.01	< 10	< 10	4	< 10	34
574381	299	229	0.01	4	670	6	< 2	1	26	< 0.01	< 10	< 10	8	< 10	24
574382	299	229	< 0.01	7	690	14	2	1	23	< 0.01	< 10	< 10	9	< 10	76
574383	299	229	< 0.01	15	830	6	< 2	2	22	< 0.01	< 10	< 10	15	< 10	76
574384	299	229	0.01	18	880	18	2	3	23	< 0.01	< 10	< 10	26	< 10	54
574385	299	229	< 0.01	12	980	6	< 2	3	14	< 0.01	< 10	< 10	20	< 10	54
574386	299	229	0.01	13	850	8	< 2	4	17	< 0.01	< 10	< 10	27	< 10	42
574387	299	229	0.01	15	720	8	2	5	18	0.01	< 10	< 10	24	< 10	62
574388	299	229	0.01	13	840	6	< 2	4	19	< 0.01	< 10	< 10	25	< 10	34
574389	299	229	0.01	13	750	4	2	2	33	< 0.01	< 10	< 10	16	< 10	32
574390	299	229	0.01	14	760	28	2	2	27	< 0.01	< 10	< 10	10	< 10	36
574391	299	229	0.02	15	770	< 2	6	2	37	0.01	< 10	< 10	10	< 10	24
574392	299	229	0.04	12	720	4	< 2	2	30	0.02	< 10	< 10	18	< 10	30
574393	299	229	0.01	11	660	26	< 2	1	36	< 0.01	< 10	< 10	6	< 10	52
574394	299	229	0.03	4	710	18	6	1	42	< 0.01	< 10	< 10	10	< 10	50
574395	299	229	0.01	2	700	248	6	< 1	18	< 0.01	< 10	< 10	4	< 10	352
574396	299	229	0.01	3	680	34	< 2	1	21	< 0.01	< 10	< 10	8	< 10	50
574397	299	229	0.01	16	810	1315	10	2	32	< 0.01	< 10	< 10	16	< 10	614
574398	299	229	0.02	15	830	6	< 2	2	32	< 0.01	< 10	< 10	16	< 10	18
574399	299	229	0.04	17	790	4	2	3	26	0.01	< 10	< 10	29	< 10	54
574400	299	229	0.02	17	780	8	2	3	18	0.01	< 10	< 10	25	10	132
574401	299	229	0.03	15	760	14	6	2	29	< 0.01	< 10	< 10	15	< 10	62
574402	299	229	0.02	16	800	2	2	2	27	0.02	< 10	< 10	20	< 10	36
574403	299	229	0.04	17	800	4	< 2	3	33	0.02	< 10	< 10	29	< 10	34
574404	299	229	0.01	16	930	12	4	2	39	< 0.01	< 10	< 10	8	10	32
574405	299	229	0.02	16	770	14	2	2	48	< 0.01	< 10	< 10	13	< 10	34
574406	299	229	0.02	14	810	4	< 2	2	80	< 0.01	< 10	< 10	18	< 10	24
574407	299	229	0.02	16	810	22	2	3	69	< 0.01	< 10	< 10	25	< 10	56

CERTIFICATION: Jhai D Ma

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Project : CASINO 206
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : I9321533
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321533

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574408	299	229	0.8	0.97	24	80	< 0.5	< 2	1.65	0.5	38	69	1655	3.31	10	< 1	0.33	20	0.83	315	187
574409	299	229	1.2	0.95	34	60	< 0.5	4	1.85	0.5	33	126	1480	4.00	< 10	< 1	0.47	< 10	0.85	415	152
574410	299	229	0.8	0.89	18	30	< 0.5	4	1.75	< 0.5	49	76	1325	4.09	10	< 1	0.35	10	0.84	155	119
574411	299	229	0.6	1.40	18	50	< 0.5	2	1.71	< 0.5	29	111	2280	3.39	10	< 1	0.52	20	1.07	95	378
574412	299	229	0.6	1.52	20	60	< 0.5	< 2	1.79	< 0.5	28	125	1580	3.84	10	< 1	0.41	20	1.06	85	155
574413	299	229	1.6	1.65	20	80	< 0.5	2	1.84	< 0.5	33	91	3090	4.02	10	< 1	0.42	20	1.16	105	245
574414	299	229	0.6	1.33	12	100	< 0.5	< 2	1.81	< 0.5	21	83	1490	3.69	10	< 1	0.37	20	1.09	115	97
574415	299	229	0.4	1.52	< 2	130	< 0.5	< 2	1.65	< 0.5	16	92	1205	3.28	10	< 1	0.39	10	1.21	120	336
574416	299	229	1.2	1.32	14	60	< 0.5	4	2.09	< 0.5	16	61	2250	3.99	10	< 1	0.51	10	1.09	105	106
574417	299	229	1.0	1.51	16	70	< 0.5	6	1.79	< 0.5	15	85	1480	3.85	10	< 1	0.52	20	1.12	150	135
574418	299	229	0.6	1.47	14	50	< 0.5	4	1.91	0.5	14	100	1275	4.05	10	< 1	0.47	10	1.07	180	217
574419	299	229	0.6	1.61	22	70	< 0.5	2	2.21	< 0.5	13	90	1040	3.85	10	< 1	0.46	< 10	1.17	345	190
574420	299	229	< 0.2	1.57	18	60	< 0.5	< 2	1.91	< 0.5	14	109	1050	3.85	10	< 1	0.56	10	1.16	110	212
574421	299	229	0.4	1.25	16	40	< 0.5	2	1.87	0.5	15	103	1230	4.34	10	< 1	0.50	10	0.90	120	318
574422	299	229	0.6	1.78	2	70	< 0.5	< 2	1.87	< 0.5	21	120	2010	5.07	10	< 1	0.47	< 10	1.33	105	223
574423	299	229	< 0.2	1.74	18	70	< 0.5	< 2	1.77	< 0.5	14	93	892	3.76	10	< 1	0.47	10	1.19	110	328
574424	299	229	0.2	1.72	6	60	< 0.5	< 2	2.41	< 0.5	14	117	1055	3.50	10	< 1	0.58	20	1.15	110	372
574425	299	229	0.2	1.69	14	90	< 0.5	< 2	2.40	< 0.5	15	107	745	3.95	10	< 1	0.64	20	1.21	230	170
574426	299	229	9.4	0.92	198	30	< 0.5	56	1.77	1.5	18	75	5670	6.39	10	< 1	0.41	< 10	0.78	380	143
574427	299	229	31.0	0.76	716	20	< 0.5	24	1.71	62.5	13	86	2850	7.18	< 10	1	0.39	< 10	0.52	3120	242
574428	299	229	1.2	1.16	48	30	< 0.5	< 2	1.85	1.5	12	88	1005	3.90	10	< 1	0.37	< 10	0.83	500	197
574429	299	229	3.2	0.89	42	60	< 0.5	< 2	1.96	23.5	8	60	602	2.99	10	< 1	0.31	< 10	0.59	610	171
574430	299	229	0.6	0.87	< 2	60	< 0.5	2	1.92	< 0.5	9	54	1270	3.04	10	< 1	0.34	< 10	0.54	115	97
574431	299	229	0.6	0.67	< 2	50	< 0.5	72	2.09	0.5	8	58	791	3.48	< 10	< 1	0.33	< 10	0.59	240	36
574432	299	229	0.4	0.68	< 2	30	< 0.5	4	1.81	< 0.5	4	53	743	3.16	< 10	< 1	0.32	< 10	0.36	55	2
574433	299	229	0.6	0.82	4	40	< 0.5	4	1.76	< 0.5	6	51	790	3.01	10	< 1	0.29	< 10	0.49	65	25
574434	299	229	< 0.2	1.67	4	190	< 0.5	< 2	1.31	< 0.5	5	103	276	3.08	20	< 1	0.55	10	1.27	135	40
574435	299	229	< 0.2	1.76	14	110	< 0.5	< 2	1.34	< 0.5	11	103	544	3.60	20	< 1	0.47	10	1.28	110	76
574436	299	229	< 0.2	1.50	8	90	< 0.5	< 2	1.55	< 0.5	12	99	468	4.37	10	< 1	0.47	10	1.01	120	56
574437	299	229	0.2	1.59	8	90	< 0.5	< 2	1.53	< 0.5	16	102	620	4.12	20	< 1	0.54	10	1.24	125	132
574438	299	229	0.6	1.48	32	100	< 0.5	< 2	1.73	14.5	15	92	614	3.65	10	< 1	0.53	10	1.23	625	139
574439	299	229	3.2	1.19	98	40	< 0.5	< 2	1.84	34.5	9	92	494	4.31	10	< 1	0.44	< 10	0.94	1110	65
574440	299	229	0.2	1.31	4	70	< 0.5	< 2	1.68	1.0	8	82	418	4.42	10	< 1	0.41	10	1.02	270	161
574441	299	229	0.2	1.43	16	100	< 0.5	< 2	1.34	< 0.5	9	93	412	3.40	10	< 1	0.50	20	0.95	115	75
574442	299	229	0.4	0.92	8	70	< 0.5	< 2	1.53	8.5	12	65	621	3.46	10	< 1	0.30	< 10	0.98	435	104
574443	299	229	0.4	1.17	2	60	< 0.5	< 2	1.63	1.0	9	80	498	4.22	10	< 1	0.36	< 10	1.00	275	47
574444	299	229	< 0.2	1.58	8	80	< 0.5	< 2	1.70	< 0.5	10	97	410	3.86	10	< 1	0.46	20	1.21	125	125
574445	299	229	< 0.2	1.50	6	60	< 0.5	< 2	1.73	< 0.5	10	86	588	4.23	10	< 1	0.50	10	1.13	115	142
574446	299	229	0.2	1.23	< 2	30	< 0.5	< 2	1.52	0.5	9	103	413	4.86	10	< 1	0.52	10	1.03	210	81
574447	299	229	< 0.2	1.51	10	60	< 0.5	< 2	1.59	< 0.5	10	119	287	3.67	10	< 1	0.57	10	1.12	105	39

CERTIFICATION: Jhai D Ma...

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Certificate Date: 29-SEP-93
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CERTIFICATE OF ANALYSIS A9321533

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574408	299	229	0.02	14	850	6	< 2	2	92	< 0.01	< 10	< 10	20	30	36
574409	299	229	0.02	14	720	16	2	2	202	< 0.01	< 10	< 10	14	< 10	38
574410	299	229	0.02	16	780	8	< 2	2	273	< 0.01	< 10	< 10	17	< 10	22
574411	299	229	0.05	16	790	< 2	4	3	198	0.02	< 10	< 10	31	< 10	18
574412	299	229	0.04	16	930	2	< 2	3	167	0.01	< 10	< 10	34	< 10	14
574413	299	229	0.05	19	850	< 2	2	4	175	0.01	< 10	< 10	35	< 10	16
574414	299	229	0.03	16	850	2	< 2	3	267	0.02	< 10	< 10	36	< 10	18
574415	299	229	0.04	16	880	< 2	2	5	121	0.05	< 10	< 10	53	< 10	18
574416	299	229	0.03	16	840	2	< 2	3	250	0.04	< 10	< 10	37	< 10	18
574417	299	229	0.05	16	840	< 2	< 2	4	215	0.03	< 10	< 10	39	< 10	20
574418	299	229	0.04	16	860	12	< 2	3	258	0.01	< 10	< 10	27	< 10	30
574419	299	229	0.06	18	920	16	4	3	256	0.02	< 10	< 10	34	< 10	36
574420	299	229	0.05	17	860	2	< 2	4	235	0.03	< 10	< 10	37	< 10	20
574421	299	229	0.03	15	800	16	4	2	321	0.01	< 10	< 10	19	< 10	32
574422	299	229	0.03	19	770	2	2	3	163	0.02	< 10	< 10	33	< 10	24
574423	299	229	0.06	16	800	8	4	3	152	0.02	< 10	< 10	31	< 10	18
574424	299	229	0.07	16	840	4	< 2	4	291	0.04	< 10	< 10	32	70	18
574425	299	229	0.06	17	860	12	2	4	256	0.03	< 10	< 10	38	< 10	30
574426	299	229	0.01	14	710	30	32	2	49	< 0.01	< 10	< 10	15	< 10	72
574427	299	229	0.01	16	700	2050	118	1	27	< 0.01	< 10	< 10	8	< 10	3050
574428	299	229	0.03	15	750	36	6	2	115	< 0.01	< 10	< 10	20	< 10	80
574429	299	229	0.03	9	720	438	16	2	104	< 0.01	< 10	< 10	14	< 10	926
574430	299	229	0.06	9	740	2	2	2	172	< 0.01	< 10	< 10	14	< 10	20
574431	299	229	0.02	10	730	24	< 2	1	86	< 0.01	< 10	< 10	8	< 10	34
574432	299	229	0.02	2	660	6	< 2	< 1	79	< 0.01	< 10	< 10	3	10	12
574433	299	229	0.04	7	710	2	< 2	1	196	< 0.01	< 10	< 10	12	10	12
574434	299	229	0.08	14	730	< 2	< 2	6	138	0.08	< 10	< 10	52	< 10	22
574435	299	229	0.06	14	690	2	< 2	4	102	0.05	< 10	< 10	46	< 10	20
574436	299	229	0.05	14	690	< 2	2	3	164	0.02	< 10	< 10	37	< 10	24
574437	299	229	0.04	14	650	< 2	< 2	4	138	0.03	< 10	< 10	36	< 10	20
574438	299	229	0.04	15	700	194	2	5	167	0.05	< 10	< 10	41	< 10	498
574439	299	229	0.03	15	720	410	6	3	149	0.01	< 10	< 10	27	< 10	1160
574440	299	229	0.03	16	730	24	2	4	59	0.02	< 10	< 10	34	< 10	38
574441	299	229	0.06	15	730	8	2	3	147	0.02	< 10	< 10	34	< 10	30
574442	299	229	0.03	16	700	48	2	2	210	< 0.01	< 10	< 10	20	< 10	238
574443	299	229	0.03	13	690	16	< 2	2	203	< 0.01	< 10	< 10	26	< 10	42
574444	299	229	0.04	14	750	< 2	4	3	219	0.02	< 10	< 10	32	< 10	20
574445	299	229	0.04	14	680	2	< 2	3	219	0.02	< 10	< 10	27	< 10	20
574446	299	229	0.03	13	670	2	< 2	3	239	0.02	< 10	< 10	26	< 10	26
574447	299	229	0.05	14	690	< 2	< 2	4	188	0.04	< 10	< 10	35	< 10	16

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Page Nu :4-A
Total Pages :4
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
574448	299	229	< 0.2	1.82	8	100	< 0.5	< 2	1.60	< 0.5	11	112	364	4.00	10	< 1	0.64	20	1.22	115	57
574449	299	229	< 0.2	1.66	< 2	20	< 0.5	< 2	1.66	< 0.5	8	138	778	6.52	10	< 1	0.72	< 10	1.12	150	220
574450	299	229	< 0.2	1.87	16	70	< 0.5	< 2	1.48	< 0.5	12	130	898	4.16	10	< 1	0.84	10	1.33	180	144
574451	299	229	< 0.2	1.84	6	40	< 0.5	< 2	1.65	< 0.5	12	150	1005	4.38	10	< 1	0.70	20	1.23	150	192
574452	299	229	< 0.2	1.68	2	130	< 0.5	< 2	1.38	< 0.5	8	152	674	3.07	10	< 1	0.65	< 10	1.40	140	98
574453	299	229	< 0.2	1.97	< 2	120	< 0.5	< 2	1.34	< 0.5	10	160	1410	3.69	20	< 1	0.88	10	1.54	150	109
574454	299	229	< 0.2	1.71	4	100	< 0.5	< 2	2.39	< 0.5	11	167	616	3.38	10	< 1	0.79	< 10	1.33	130	160
574455	299	229	< 0.2	1.63	< 2	120	< 0.5	< 2	1.50	< 0.5	9	126	885	3.21	10	< 1	0.64	10	1.30	130	146

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Project : CASINO 206
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. :I9321533
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321533

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
574448	299	229	0.07	15	750	< 2	< 2	5	171	0.04	< 10	< 10	45	< 10	16
574449	299	229	0.04	12	630	< 2	< 2	4	212	0.03	< 10	< 10	37	< 10	14
574450	299	229	0.08	16	740	< 2	< 2	6	208	0.07	< 10	< 10	45	< 10	18
574451	299	229	0.07	17	750	< 2	2	5	128	0.06	< 10	< 10	43	< 10	16
574452	299	229	0.08	17	760	< 2	2	6	104	0.10	< 10	< 10	52	< 10	18
574453	299	229	0.08	17	720	2	2	7	107	0.12	< 10	< 10	56	< 10	22
574454	299	229	0.08	16	700	< 2	2	7	268	0.10	< 10	< 10	51	< 10	18
574455	299	229	0.08	15	710	< 2	< 2	6	154	0.08	< 10	< 10	48	< 10	18

CERTIFICATION: John D'Mar

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : I9321534
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321534

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
575715	208	274	0.01	0.003	0.07	5960						
575716	208	274	0.01	0.004	0.10	7080						
575717	208	276	0.02	0.004	0.10	9820						
575718	208	276	0.03	0.004	0.07	9880						
575719	208	274	0.02	0.006	0.10	4420						
575720	208	276	0.03	0.007	0.07	9920						
575721	208	276	0.02	0.004	0.03	9620						
575722	208	276	0.01	0.005	0.10	7560						
575723	208	276	0.02	0.003	0.07	9500						
575724	208	274	0.02	0.003	0.10	7240						
575725	208	276	0.02	0.041	0.10	9960						
575726	208	276	0.02	0.057	0.07	10120						
575727	208	276	0.01	0.013	0.03	10400						
575728	208	276	0.03	0.006	0.10	10900						
575729	208	276	0.19	0.002	0.07	9660						
575730	208	276	0.64	0.005	0.10	9560						
575731	208	276	0.33	0.004	0.14	11100						
575732	208	276	0.80	0.004	0.17	10220						
575733	208	276	0.47	0.003	0.14	9720						
575734	208	276	0.36	0.002	0.07	9780						
575735	208	276	0.22	0.011	0.10	10500						
575736	208	276	0.20	0.003	0.07	9720						
575737	208	276	0.16	0.002	0.07	11740						
575738	208	276	0.14	0.002	0.10	9720						
575739	208	276	0.28	0.011	0.03	11420						
575740	208	276	0.22	0.002	0.07	10220						
575741	208	273	0.20	0.004	0.07	12360						
575742	208	273	0.18	0.001	< 0.03	12100						
575743	208	276	0.14	0.002	< 0.03	10160						
575744	208	273	0.15	0.002	0.07	12180						
575745	208	276	0.24	0.002	< 0.03	10820						
575746	208	276	0.13	0.001	< 0.03	11600						
575747	208	276	0.19	0.004	0.31	11180						
575748	208	276	0.47	0.008	< 0.03	11620						
575749	208	273	0.19	0.002	0.24	12280						
575750	208	276	0.23	0.002	0.07	9120						
575751	208	273	0.22	0.002	< 0.03	12820						
575752	208	273	0.24	0.007	0.07	12180						
575753	208	276	0.31	0.005	0.10	10340						
575754	208	273	0.21	0.003	0.07	12340						

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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :4
Certificate Date: 29-SEP-93
Invoice No. : I9321534
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321534

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
575755	208	276	0.17	0.002	0.03	10540						
575756	208	276	0.23	0.002	0.07	11420						
575757	208	276	0.08	0.004	0.07	9660						
575758	208	273	0.13	0.003	0.10	13950						
575759	208	276	0.66	0.003	0.03	10750						
575760	208	276	0.05	0.003	0.07	11720						
575761	208	276	0.03	0.012	0.03	10840						
575762	208	276	0.11	0.002	0.10	9960						
575763	208	273	0.06	0.003	0.03	15820						
575764	208	276	0.06	0.001	0.07	11400						
575765	208	273	0.12	0.006	0.14	12060						
575766	208	276	0.10	0.002	0.07	10500						
575767	208	273	0.08	0.001	0.07	11880						
575768	208	276	0.12	0.001	0.03	10700						
575769	208	276	0.05	0.001	0.07	10920						
575770	208	276	0.08	0.002	0.03	11360						
575771	208	276	0.06	0.005	< 0.03	10680						
575772	208	276	0.06	0.001	0.07	11600						
575773	208	276	0.06	0.003	0.07	11420						
575774	208	276	0.11	0.004	0.14	11600						
575775	208	276	0.07	0.012	0.07	11460						
575776	208	276	0.06	0.048	0.07	11700						
575777	208	273	0.06	0.005	0.07	12040						
575778	208	276	0.04	0.004	0.14	11780						
575779	208	273	0.09	0.006	0.10	12300						
575780	208	276	0.09	0.003	0.07	11700						
575781	208	276	0.07	0.003	0.03	11680						
575782	208	273	0.06	0.068	0.07	12540						
575783	208	273	0.16	0.002	0.17	12300						
575784	208	273	0.08	0.020	0.10	12800						
575785	208	273	0.07	0.007	0.07	12840						
575786	208	276	0.12	0.010	0.10	11540						
575787	208	273	0.09	0.006	0.10	12750						
575788	208	273	0.11	0.003	0.07	11900						
575789	208	273	0.08	0.002	0.10	12280						
575790	208	273	0.06	0.001	0.03	12900						
575791	208	273	0.06	0.004	0.10	11900						
575792	208	276	0.03	0.003	0.03	10620						
575793	208	273	0.05	0.003	< 0.03	13400						
575794	208	276	0.05	0.003	0.07	11700						

CERTIFICATION: A.C. Hall

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : I9321534
P.O. Number :
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CERTIFICATE OF ANALYSIS A9321534

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
575795	208 276	0.04	0.006	0.03	11020
575796	208 276	0.08	0.004	0.07	10240
575797	208 270	0.07	0.006	0.10	16660
575798	208 273	0.10	0.002	0.45	11820
575799	208 273	0.07	0.004	0.10	12360
575800	208 273	0.07	0.006	0.10	11960
575801	208 273	0.07	0.003	0.10	12760
575802	208 273	0.15	0.013	0.14	13320
575803	208 276	0.08	0.008	0.07	11300
575804	208 273	0.13	0.005	0.10	12000
575805	208 273	0.18	0.005	0.24	12120
575806	208 276	0.23	0.005	0.14	10840
575807	208 273	0.14	0.005	0.14	12520
575808	208 276	0.10	0.008	0.10	8860
575809	208 273	0.09	0.003	0.07	12960
575810	208 273	0.11	0.003	0.10	13980
575811	208 273	0.13	0.003	0.07	12260
575812	208 273	0.04	0.004	0.07	14080
575813	208 273	0.09	0.003	0.14	13900
575814	208 273	0.07	0.002	0.10	14160
575815	208 273	0.04	0.002	0.07	13740
575816	208 273	0.04	0.003	0.03	14460
575817	208 273	0.13	0.006	0.17	13040
575818	208 273	0.11	0.002	0.10	13700
575819	208 273	0.01	0.002	0.10	13040
575820	208 273	0.04	0.002	0.07	12740
575821	208 276	< 0.01	0.001	0.10	11540
575822	208 273	< 0.01	0.004	0.07	13000
575823	208 273	0.02	0.006	0.07	13560
575824	208 273	0.01	0.001	0.03	13880
575825	208 273	0.04	0.003	0.03	12820
575826	208 273	0.02	0.001	0.07	12300
575827	208 273	0.02	0.002	0.07	13960
575828	208 273	0.05	0.002	0.14	13500
575829	208 273	0.01	0.003	0.07	14260
575830	208 273	0.03	0.002	0.03	13600
575831	208 273	0.01	0.001	< 0.03	12800
575832	208 273	0.01	0.006	< 0.03	12940
575833	208 273	0.01	0.003	< 0.03	12340
575834	208 273	0.01	0.001	< 0.03	12360

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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4
Total Pages :4
Certificate Date: 29-SEP-93
Invoice No. :19321534
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321534

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575835	208	273	0.02	0.001	0.07	12220
575836	208	273	0.01	0.001	< 0.03	12720
575837	208	273	0.01	0.001	0.03	11840
575838	208	273	0.02	0.001	< 0.03	12240
575839	208	273	0.03	0.003	0.07	12420
575840	208	276	0.01	0.001	0.03	11160
575841	208	273	0.01	0.002	0.03	12980
575842	208	273	< 0.01	0.002	< 0.03	13780
575843	208	273	0.02	0.004	0.03	13360
575844	208	274	0.01	0.002	< 0.03	5800

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Project : CASINO 207
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Certificate Date: 29-SEP-93
Invoice No. :I9321535
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321535

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575715	299	229	0.2	1.12	16	270	< 0.5	< 2	0.02	< 0.5	< 1	95	135	3.76	< 10	< 1	0.40	10	0.21	20	13
575716	299	229	0.6	0.68	16	280	< 0.5	< 2	0.01	< 0.5	< 1	45	126	3.39	< 10	< 1	0.28	10	0.15	15	20
575717	299	229	0.2	1.27	22	230	< 0.5	< 2	0.02	< 0.5	< 1	113	219	3.68	< 10	< 1	0.39	10	0.28	20	15
575718	299	229	0.2	0.67	30	200	< 0.5	< 2	0.02	< 0.5	< 1	52	302	4.73	< 10	< 1	0.30	10	0.13	15	22
575719	299	229	0.4	0.75	36	270	< 0.5	< 2	0.02	< 0.5	< 1	136	189	4.25	< 10	< 1	0.37	< 10	0.06	15	34
575720	299	229	1.8	0.61	48	230	< 0.5	< 2	0.02	< 0.5	1	63	268	5.09	< 10	< 1	0.23	10	0.12	25	36
575721	299	229	0.4	1.33	16	260	< 0.5	< 2	0.02	< 0.5	1	124	220	4.09	< 10	< 1	0.36	10	0.35	30	15
575722	299	229	0.6	1.14	52	290	< 0.5	2	0.03	< 0.5	1	163	110	2.87	< 10	< 1	0.51	10	0.09	15	22
575723	299	229	0.6	0.70	18	270	< 0.5	2	0.02	< 0.5	1	83	190	3.85	< 10	< 1	0.34	10	0.10	15	13
575724	299	229	0.2	1.04	6	140	< 0.5	< 2	0.02	< 0.5	1	61	220	4.17	< 10	< 1	0.24	10	0.29	20	10
575725	299	229	0.4	1.10	18	190	< 0.5	< 2	0.04	< 0.5	< 1	120	180	4.85	< 10	< 1	0.68	20	0.09	10	250
575726	299	229	0.6	1.39	26	190	< 0.5	2	0.10	< 0.5	1	79	214	4.59	10	< 1	0.58	40	0.25	20	342
575727	299	229	0.6	1.37	8	310	< 0.5	4	0.14	< 0.5	2	163	116	3.59	10	< 1	0.59	20	0.19	35	71
575728	299	229	0.4	1.57	30	60	< 0.5	< 2	0.15	< 0.5	12	73	347	4.57	10	< 1	0.29	20	0.57	70	30
575729	299	229	< 0.2	2.32	10	60	< 0.5	< 2	0.14	< 0.5	21	126	1910	4.66	< 10	1	0.31	10	0.75	60	8
575730	299	229	0.4	1.75	14	40	< 0.5	8	0.16	< 0.5	21	65	6640	4.82	< 10	< 1	0.18	10	0.40	45	22
575731	299	229	0.6	1.63	2	30	< 0.5	2	0.18	< 0.5	54	62	3530	5.67	< 10	< 1	0.20	< 10	0.21	20	16
575732	299	229	0.2	2.39	18	40	< 0.5	< 2	0.16	< 0.5	30	105	8360	5.83	< 10	< 1	0.33	10	0.10	15	14
575733	299	229	0.2	1.54	14	20	< 0.5	< 2	0.13	< 0.5	25	35	5120	6.61	< 10	< 1	0.26	10	0.32	30	8
575734	299	229	0.4	2.33	8	60	< 0.5	6	0.16	< 0.5	21	92	3710	3.21	< 10	< 1	0.28	10	0.28	30	5
575735	299	229	0.2	1.42	2	20	< 0.5	< 2	0.16	< 0.5	40	50	2260	4.88	< 10	< 1	0.23	< 10	0.37	40	59
575736	299	229	0.2	1.94	< 2	50	< 0.5	< 2	0.18	< 0.5	28	101	2010	3.21	< 10	< 1	0.37	< 10	0.47	45	9
575737	299	229	0.4	0.80	10	20	< 0.5	< 2	0.20	0.5	28	66	1725	4.45	< 10	< 1	0.11	10	0.07	80	7
575738	299	229	0.2	1.10	< 2	30	< 0.5	< 2	0.28	0.5	23	116	1475	4.60	< 10	< 1	0.18	10	0.17	110	6
575739	299	229	0.4	1.03	2	30	< 0.5	< 2	0.12	< 0.5	27	77	2870	3.91	< 10	< 1	0.16	10	0.04	10	60
575740	299	229	0.2	1.61	< 2	30	< 0.5	< 2	0.14	< 0.5	18	148	2330	4.54	< 10	< 1	0.29	< 10	0.07	15	12
575741	299	229	0.2	0.83	< 2	20	< 0.5	< 2	0.13	< 0.5	29	82	2190	5.39	< 10	< 1	0.16	< 10	0.03	10	21
575742	299	229	0.2	1.76	2	30	< 0.5	< 2	0.17	< 0.5	27	158	1785	4.39	< 10	< 1	0.39	< 10	0.23	30	6
575743	299	229	< 0.2	2.44	< 2	50	< 0.5	< 2	0.24	0.5	23	152	1425	4.35	10	< 1	0.30	10	0.93	105	4
575744	299	229	0.4	1.07	< 2	40	< 0.5	< 2	0.18	0.5	34	86	1670	4.29	< 10	< 1	0.14	10	0.06	30	8
575745	299	229	< 0.2	0.74	< 2	20	< 0.5	< 2	0.11	< 0.5	43	60	2580	6.78	< 10	< 1	0.14	10	0.03	10	9
575746	299	229	< 0.2	1.34	4	40	< 0.5	< 2	0.14	< 0.5	27	84	1445	4.10	< 10	< 1	0.28	10	0.05	10	4
575747	299	229	0.2	0.81	2	30	< 0.5	< 2	0.16	< 0.5	43	83	2120	5.18	< 10	< 1	0.16	10	0.05	85	17
575748	299	229	< 0.2	1.81	< 2	10	< 0.5	< 2	0.18	0.5	64	127	5240	6.36	< 10	< 1	0.28	10	0.22	90	41
575749	299	229	< 0.2	1.52	40	30	< 0.5	< 2	0.25	1.0	34	68	2050	4.86	< 10	< 1	0.22	10	0.77	200	4
575750	299	229	< 0.2	2.20	< 2	40	< 0.5	< 2	0.25	1.0	20	136	2490	4.04	< 10	< 1	0.38	10	0.60	160	7
575751	299	229	0.2	1.30	8	20	< 0.5	< 2	0.26	1.0	19	63	2300	4.86	< 10	< 1	0.21	10	0.21	225	8
575752	299	229	0.6	1.36	12	10	< 0.5	< 2	0.12	< 0.5	30	126	2520	5.65	< 10	< 1	0.36	10	0.08	60	33
575753	299	229	0.6	1.27	30	40	< 0.5	2	0.14	0.5	26	95	3420	4.74	< 10	< 1	0.21	20	0.05	75	23
575754	299	229	0.4	1.47	< 2	20	< 0.5	< 2	0.17	0.5	46	174	2260	6.28	< 10	< 1	0.41	10	0.09	300	11

CERTIFICATION: Jhai D'Ma

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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : I9321535
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321535

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575715	299	229	0.16	1	320	16	< 2	1	48	< 0.01	< 10	< 10	21	< 10	18
575716	299	229	0.07	< 1	370	12	< 2	1	33	< 0.01	< 10	< 10	15	< 10	24
575717	299	229	0.09	2	350	18	< 2	2	41	< 0.01	< 10	< 10	25	< 10	16
575718	299	229	0.05	< 1	370	20	4	1	48	< 0.01	< 10	< 10	20	< 10	18
575719	299	229	0.02	1	400	32	4	1	53	< 0.01	< 10	< 10	10	< 10	30
575720	299	229	0.04	1	520	14	4	1	101	< 0.01	< 10	< 10	14	< 10	42
575721	299	229	0.07	1	390	18	< 2	3	82	< 0.01	< 10	< 10	27	< 10	28
575722	299	229	0.03	2	660	16	< 2	2	276	< 0.01	< 10	< 10	17	< 10	22
575723	299	229	0.03	1	590	12	4	2	167	< 0.01	< 10	< 10	14	< 10	20
575724	299	229	0.05	1	370	10	2	3	122	< 0.01	< 10	< 10	26	< 10	22
575725	299	229	0.06	3	860	8	6	2	471	< 0.01	< 10	< 10	16	< 10	16
575726	299	229	0.09	3	1770	8	8	4	1125	< 0.01	< 10	< 10	20	< 10	20
575727	299	229	0.06	3	860	8	2	2	492	< 0.01	< 10	< 10	18	< 10	28
575728	299	229	0.03	4	1050	4	4	7	325	< 0.01	< 10	< 10	25	< 10	32
575729	299	229	0.02	7	500	6	4	7	160	< 0.01	< 10	< 10	30	< 10	34
575730	299	229	0.01	8	1000	6	2	9	187	< 0.01	< 10	< 10	20	< 10	46
575731	299	229	0.01	6	510	8	2	3	123	< 0.01	< 10	< 10	19	< 10	34
575732	299	229	0.01	10	1290	6	2	5	245	< 0.01	< 10	< 10	19	< 10	48
575733	299	229	0.01	6	470	6	4	2	133	< 0.01	< 10	< 10	17	< 10	34
575734	299	229	0.01	15	630	12	< 2	3	105	< 0.01	< 10	< 10	19	< 10	70
575735	299	229	0.01	7	520	6	2	2	25	< 0.01	< 10	< 10	17	< 10	46
575736	299	229	0.01	7	440	8	2	3	30	< 0.01	< 10	< 10	23	< 10	50
575737	299	229	< 0.01	6	570	8	2	2	15	< 0.01	< 10	< 10	12	< 10	66
575738	299	229	< 0.01	5	530	6	2	2	11	< 0.01	< 10	< 10	16	< 10	68
575739	299	229	< 0.01	6	630	4	< 2	1	131	< 0.01	< 10	< 10	9	< 10	34
575740	299	229	0.01	8	540	8	< 2	2	41	< 0.01	< 10	< 10	17	< 10	50
575741	299	229	< 0.01	4	520	4	4	2	35	< 0.01	< 10	< 10	11	< 10	38
575742	299	229	0.01	7	540	2	2	2	35	< 0.01	< 10	< 10	19	< 10	42
575743	299	229	0.03	12	510	2	< 2	5	23	< 0.01	< 10	< 10	43	< 10	74
575744	299	229	< 0.01	6	580	6	2	2	36	< 0.01	< 10	< 10	16	< 10	44
575745	299	229	< 0.01	6	570	8	4	1	190	< 0.01	< 10	< 10	7	< 10	26
575746	299	229	0.01	6	620	6	4	2	98	< 0.01	< 10	< 10	13	< 10	22
575747	299	229	< 0.01	6	580	8	4	1	77	< 0.01	< 10	< 10	9	< 10	58
575748	299	229	0.01	9	540	12	2	2	82	< 0.01	< 10	< 10	17	< 10	70
575749	299	229	0.01	6	490	6	2	2	14	< 0.01	< 10	< 10	20	< 10	86
575750	299	229	0.02	11	520	6	< 2	3	19	< 0.01	< 10	< 10	24	< 10	102
575751	299	229	0.01	9	530	6	2	2	18	< 0.01	< 10	< 10	16	< 10	122
575752	299	229	0.01	6	410	8	4	2	63	< 0.01	< 10	< 10	13	< 10	38
575753	299	229	0.01	7	630	16	16	2	146	< 0.01	< 10	< 10	12	< 10	66
575754	299	229	0.01	7	480	< 2	2	2	11	< 0.01	< 10	< 10	17	< 10	88

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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nun : 2-A
Total Pages : 4
Certificate Date: 29-SEP-93
Invoice No. : I9321535
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321535

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575755	299	229	0.4	1.73	< 2	60	< 0.5	2	0.41	0.5	27	161	1765	3.92	10	< 1	0.31	10	0.16	170	4
575756	299	229	0.2	1.28	4	20	< 0.5	< 2	0.35	0.5	31	108	2300	4.55	10	< 1	0.23	10	0.37	150	7
575757	299	229	< 0.2	1.44	8	40	< 0.5	< 2	0.29	< 0.5	26	154	803	4.23	10	< 1	0.30	20	0.57	200	18
575758	299	229	0.8	1.01	2	20	< 0.5	10	0.28	1.0	32	149	1320	5.36	10	< 1	0.32	10	0.16	290	11
575759	299	229	0.4	1.72	< 2	20	< 0.5	< 2	0.20	1.5	27	158	6910	6.06	10	< 1	0.37	10	0.18	125	13
575760	299	229	< 0.2	1.08	< 2	30	< 0.5	< 2	0.72	0.5	26	164	509	4.31	10	< 1	0.35	10	0.37	180	11
575761	299	229	< 0.2	1.31	< 2	30	< 0.5	< 2	1.24	< 0.5	25	172	283	4.51	10	< 1	0.32	10	0.68	220	60
575762	299	229	0.4	1.14	2	40	< 0.5	< 2	0.68	1.5	38	183	1115	5.78	10	< 1	0.35	10	0.31	405	6
575763	299	229	< 0.2	1.15	< 2	30	< 0.5	< 2	1.09	0.5	29	179	637	4.34	10	< 1	0.35	10	0.42	235	11
575764	299	229	< 0.2	1.20	< 2	60	< 0.5	< 2	1.04	< 0.5	28	187	557	3.91	10	< 1	0.31	10	0.63	205	2
575765	299	229	0.4	0.91	< 2	70	< 0.5	< 2	0.81	0.5	58	171	1140	4.50	10	< 1	0.30	10	0.31	230	27
575766	299	229	0.8	0.98	4	60	< 0.5	< 2	0.78	0.5	44	168	966	4.39	10	< 1	0.30	10	0.27	245	6
575767	299	229	< 0.2	1.68	< 2	60	< 0.5	< 2	0.57	< 0.5	36	218	872	4.76	10	< 1	0.43	10	0.66	190	4
575768	299	229	< 0.2	1.62	6	80	< 0.5	< 2	0.48	< 0.5	31	190	1280	3.94	10	< 1	0.42	10	0.58	105	2
575769	299	229	< 0.2	1.26	< 2	20	< 0.5	< 2	0.54	< 0.5	44	175	540	6.19	10	< 1	0.44	10	0.44	95	3
575770	299	229	0.2	1.18	< 2	70	< 0.5	< 2	0.82	0.5	20	107	774	3.76	10	< 1	0.33	10	0.35	170	4
575771	299	229	0.2	0.98	< 2	60	< 0.5	< 2	1.59	0.5	37	220	613	4.00	10	< 1	0.33	< 10	0.62	165	24
575772	299	229	0.2	0.75	< 2	70	< 0.5	< 2	1.08	< 0.5	23	154	571	3.22	< 10	< 1	0.27	< 10	0.45	100	2
575773	299	229	< 0.2	0.82	< 2	60	< 0.5	< 2	0.54	< 0.5	24	155	629	3.13	< 10	< 1	0.19	10	0.22	140	12
575774	299	229	0.4	1.03	2	60	< 0.5	< 2	0.61	< 0.5	33	134	1155	4.27	< 10	< 1	0.25	10	0.24	270	19
575775	299	229	0.4	0.91	30	30	< 0.5	2	1.28	< 0.5	33	98	739	3.80	10	< 1	0.45	< 10	0.31	355	64
575776	299	229	0.2	1.04	40	40	< 0.5	2	0.73	0.5	22	143	587	3.15	10	< 1	0.53	10	0.31	695	277
575777	299	229	0.6	0.87	46	30	< 0.5	2	0.95	< 0.5	37	105	606	4.77	10	< 1	0.52	< 10	0.14	315	29
575778	299	229	1.0	0.90	70	10	< 0.5	< 2	0.93	3.5	33	122	415	7.41	10	< 1	0.48	< 10	0.15	450	17
575779	299	229	0.8	0.60	20	50	< 0.5	< 2	0.76	< 0.5	29	109	918	5.46	< 10	< 1	0.33	< 10	0.13	270	26
575780	299	229	0.8	1.29	< 2	60	< 0.5	< 2	0.95	< 0.5	32	167	918	4.69	10	< 1	0.67	< 10	0.36	210	15
575781	299	229	0.2	1.10	6	90	< 0.5	< 2	1.38	< 0.5	22	230	694	3.15	< 10	< 1	0.54	10	0.43	150	13
575782	299	229	0.4	1.02	58	10	< 0.5	< 2	1.34	< 0.5	42	180	578	6.61	10	< 1	0.50	< 10	0.43	465	368
575783	299	229	1.0	0.61	26	90	< 0.5	2	1.66	< 0.5	46	114	1730	3.61	< 10	< 1	0.27	10	0.29	240	9
575784	299	229	0.2	1.43	8	40	< 0.5	< 2	1.77	< 0.5	37	172	848	4.23	10	< 1	0.53	< 10	0.54	225	104
575785	299	229	0.6	0.88	6	50	< 0.5	< 2	1.15	< 0.5	50	148	757	4.16	< 10	< 1	0.48	< 10	0.34	235	35
575786	299	229	0.6	0.48	2	40	< 0.5	< 2	1.25	< 0.5	49	90	1250	4.38	10	< 1	0.19	10	0.40	275	52
575787	299	229	1.2	0.32	100	30	< 0.5	< 2	0.81	0.5	63	79	868	5.26	< 10	< 1	0.17	< 10	0.26	265	30
575788	299	229	0.4	0.92	8	20	< 0.5	< 2	1.94	< 0.5	47	139	1170	5.69	10	< 1	0.38	< 10	0.55	240	11
575789	299	229	< 0.2	1.35	2	70	< 0.5	< 2	1.50	< 0.5	61	173	821	4.09	10	1	0.45	10	0.60	115	6
575790	299	229	< 0.2	1.49	6	70	< 0.5	< 2	1.29	< 0.5	29	141	630	3.98	10	1	0.46	10	1.14	345	4
575791	299	229	< 0.2	1.14	< 2	60	< 0.5	< 2	0.79	0.5	39	62	639	4.55	10	1	0.59	20	1.05	140	20
575792	299	229	< 0.2	0.76	16	90	< 0.5	< 2	0.93	< 0.5	37	149	261	2.83	< 10	< 1	0.43	< 10	0.31	155	13
575793	299	229	0.2	0.65	8	70	< 0.5	< 2	1.07	< 0.5	39	109	474	3.38	< 10	< 1	0.36	< 10	0.45	160	10
575794	299	229	< 0.2	1.13	< 2	110	< 0.5	< 2	1.36	< 0.5	23	134	520	2.76	< 10	< 1	0.45	10	0.69	75	10

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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9321535

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575755	299	229	0.01	13	530	2	4	2	20	< 0.01	< 10	< 10	20	< 10	76
575756	299	229	0.01	5	500	4	6	3	31	< 0.01	< 10	< 10	20	< 10	42
575757	299	229	0.02	6	440	2	2	2	14	< 0.01	< 10	< 10	19	< 10	64
575758	299	229	0.01	6	460	6	< 2	1	9	< 0.01	< 10	< 10	12	< 10	100
575759	299	229	0.01	10	480	< 2	< 2	2	14	< 0.01	< 10	< 10	20	< 10	76
575760	299	229	0.01	5	470	< 2	< 2	2	11	< 0.01	< 10	< 10	16	< 10	48
575761	299	229	0.03	4	420	2	2	3	23	< 0.01	< 10	< 10	24	< 10	42
575762	299	229	0.01	4	420	50	2	2	13	< 0.01	< 10	< 10	16	< 10	110
575763	299	229	0.02	4	460	4	< 2	2	31	< 0.01	< 10	< 10	16	< 10	50
575764	299	229	0.03	4	530	< 2	2	3	37	< 0.01	< 10	< 10	27	< 10	40
575765	299	229	0.01	4	530	2	4	3	10	< 0.01	< 10	< 10	17	< 10	34
575766	299	229	0.01	4	540	8	< 2	1	13	< 0.01	< 10	< 10	13	< 10	46
575767	299	229	0.03	6	520	2	< 2	3	16	< 0.01	< 10	< 10	27	< 10	42
575768	299	229	0.03	9	500	< 2	2	2	17	< 0.01	< 10	< 10	21	< 10	40
575769	299	229	0.02	6	420	2	< 2	1	14	< 0.01	< 10	< 10	15	< 10	30
575770	299	229	0.01	3	490	2	< 2	1	18	< 0.01	< 10	< 10	14	< 10	46
575771	299	229	0.02	4	500	6	< 2	1	25	< 0.01	< 10	< 10	13	< 10	38
575772	299	229	0.01	3	310	< 2	2	1	21	< 0.01	< 10	< 10	7	< 10	22
575773	299	229	< 0.01	4	440	2	2	1	9	< 0.01	< 10	< 10	11	< 10	38
575774	299	229	0.01	5	440	4	6	1	10	< 0.01	< 10	< 10	14	< 10	54
575775	299	229	0.01	3	400	2	6	1	12	< 0.01	< 10	< 10	10	< 10	28
575776	299	229	0.01	3	430	2	8	1	13	< 0.01	< 10	< 10	8	< 10	44
575777	299	229	0.01	3	370	< 2	6	1	10	< 0.01	< 10	< 10	9	10	34
575778	299	229	0.01	3	400	24	14	2	17	< 0.01	< 10	< 10	16	10	296
575779	299	229	0.01	3	430	8	2	1	8	< 0.01	< 10	< 10	13	< 10	20
575780	299	229	0.01	4	330	< 2	< 2	3	16	< 0.01	< 10	< 10	21	< 10	22
575781	299	229	0.01	4	390	6	2	2	22	< 0.01	< 10	< 10	14	< 10	22
575782	299	229	0.01	4	470	< 2	6	2	23	< 0.01	< 10	< 10	10	< 10	26
575783	299	229	0.01	3	500	4	6	2	16	< 0.01	< 10	< 10	13	< 10	32
575784	299	229	0.01	4	530	4	2	3	35	< 0.01	< 10	< 10	22	< 10	28
575785	299	229	0.01	3	330	6	< 2	1	15	< 0.01	< 10	< 10	11	< 10	28
575786	299	229	< 0.01	3	410	8	2	1	11	< 0.01	< 10	< 10	7	< 10	26
575787	299	229	< 0.01	2	140	8	22	< 1	9	< 0.01	< 10	< 10	3	< 10	26
575788	299	229	0.01	2	290	6	< 2	1	32	< 0.01	< 10	< 10	13	< 10	26
575789	299	229	0.02	4	370	2	< 2	2	29	< 0.01	< 10	< 10	20	< 10	18
575790	299	229	0.03	20	460	4	< 2	3	36	< 0.01	< 10	< 10	30	< 10	54
575791	299	229	0.02	3	480	2	< 2	5	21	0.03	< 10	< 10	42	< 10	30
575792	299	229	0.01	2	170	12	< 2	< 1	20	< 0.01	< 10	< 10	6	< 10	20
575793	299	229	0.01	3	400	16	< 2	1	32	< 0.01	< 10	< 10	9	< 10	22
575794	299	229	0.04	3	380	4	< 2	2	57	< 0.01	< 10	< 10	22	< 10	18

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575795	299	229	< 0.2	1.21	< 2	100	< 0.5	< 2	1.79	< 0.5	22	212	407	2.78	< 10	< 1	0.49	< 10	0.67	80	29
575796	299	229	< 0.2	1.20	< 2	80	< 0.5	< 2	1.94	< 0.5	29	142	858	3.16	10	< 1	0.52	< 10	0.73	90	18
575797	299	229	< 0.2	1.22	< 2	70	< 0.5	< 2	1.86	< 0.5	30	251	719	2.87	< 10	< 1	0.56	< 10	0.71	100	28
575798	299	229	0.4	0.42	12	40	< 0.5	< 2	1.34	4.0	34	112	1060	4.34	< 10	< 1	0.17	< 10	0.47	215	8
575799	299	229	< 0.2	0.82	4	50	< 0.5	< 2	1.67	< 0.5	41	175	731	3.73	< 10	< 1	0.26	< 10	0.57	205	14
575800	299	229	< 0.2	0.38	6	50	< 0.5	< 2	1.25	0.5	39	101	705	4.59	< 10	< 1	0.16	< 10	0.43	190	28
575801	299	229	0.2	1.17	2	60	< 0.5	< 2	1.21	< 0.5	25	161	713	3.34	10	< 1	0.42	10	0.50	200	14
575802	299	229	7.6	0.58	44	20	< 0.5	44	0.62	3.0	38	72	1510	6.03	< 10	< 1	0.21	< 10	0.26	285	69
575803	299	229	0.2	1.31	< 2	50	< 0.5	< 2	0.78	< 0.5	36	162	848	4.03	< 10	< 1	0.46	< 10	0.32	240	39
575804	299	229	0.2	1.29	24	60	< 0.5	< 2	0.99	< 0.5	31	242	1330	3.88	< 10	< 1	0.48	< 10	0.40	315	22
575805	299	229	1.2	1.08	34	20	< 0.5	< 2	0.73	< 0.5	77	137	1780	5.95	10	< 1	0.39	< 10	0.32	295	23
575806	299	229	1.6	1.03	42	80	< 0.5	< 2	1.50	< 0.5	31	194	2420	3.36	< 10	< 1	0.33	< 10	0.57	320	23
575807	299	229	0.2	1.09	76	70	< 0.5	< 2	2.03	0.5	22	216	1460	3.83	< 10	< 1	0.36	< 10	0.80	740	21
575808	299	229	0.2	1.51	10	70	< 0.5	< 2	1.76	0.5	25	226	1090	3.49	< 10	< 1	0.63	< 10	0.64	430	39
575809	299	229	< 0.2	1.19	< 2	30	< 0.5	< 2	1.11	< 0.5	47	170	947	5.25	< 10	< 1	0.52	< 10	0.51	120	14
575810	299	229	0.2	1.84	< 2	100	< 0.5	< 2	1.54	< 0.5	23	224	1240	4.62	< 10	< 1	0.70	10	0.67	155	14
575811	299	229	< 0.2	1.08	2	40	< 0.5	< 2	1.22	< 0.5	24	206	1405	4.33	< 10	< 1	0.46	< 10	0.45	175	14
575812	299	229	1.4	1.05	62	30	< 0.5	< 2	0.80	0.5	24	225	476	7.93	< 10	< 1	0.51	< 10	0.29	730	16
575813	299	229	1.0	1.22	26	70	< 0.5	< 2	1.54	< 0.5	23	229	944	4.17	< 10	< 1	0.51	< 10	0.55	400	17
575814	299	229	< 0.2	0.50	< 2	100	< 0.5	< 2	2.02	< 0.5	30	100	681	4.00	< 10	< 1	0.24	< 10	0.43	110	11
575815	299	229	< 0.2	1.22	< 2	70	< 0.5	< 2	1.01	< 0.5	21	137	440	4.29	10	< 1	0.60	< 10	0.58	75	9
575816	299	229	< 0.2	1.48	< 2	50	< 0.5	< 2	0.87	< 0.5	21	208	416	4.81	10	1	0.90	10	0.75	85	16
575817	299	229	< 0.2	1.86	< 2	40	< 0.5	< 2	1.76	< 0.5	42	135	1380	6.69	10	1	1.46	< 10	1.16	85	32
575818	299	229	< 0.2	1.54	20	50	< 0.5	< 2	1.53	< 0.5	51	25	1185	6.72	10	< 1	1.30	< 10	1.25	95	8
575819	299	229	< 0.2	1.64	14	40	< 0.5	< 2	1.60	< 0.5	16	114	77	5.06	10	< 1	0.93	< 10	0.71	75	4
575820	299	229	< 0.2	0.33	6	60	< 0.5	< 2	1.62	< 0.5	26	83	383	3.12	< 10	< 1	0.20	< 10	0.20	60	11
575821	299	229	< 0.2	1.08	16	50	< 0.5	< 2	1.31	< 0.5	27	162	29	4.08	< 10	< 1	0.54	< 10	0.36	80	3
575822	299	229	< 0.2	1.06	28	60	< 0.5	< 2	2.04	< 0.5	19	54	45	4.13	< 10	< 1	0.76	< 10	0.86	75	15
575823	299	229	< 0.2	1.31	14	70	< 0.5	< 2	1.43	< 0.5	35	90	182	4.12	< 10	< 1	0.81	< 10	0.51	45	25
575824	299	229	< 0.2	1.06	14	50	< 0.5	< 2	1.78	< 0.5	22	82	122	4.28	< 10	< 1	0.50	< 10	0.83	85	2
575825	299	229	< 0.2	1.06	12	20	< 0.5	< 2	1.22	< 0.5	39	173	429	4.23	< 10	< 1	0.40	< 10	0.27	200	14
575826	299	229	< 0.2	1.07	6	40	< 0.5	< 2	1.04	< 0.5	24	190	192	3.62	< 10	< 1	0.39	< 10	0.41	305	2
575827	299	229	< 0.2	0.95	< 2	40	< 0.5	< 2	1.42	< 0.5	36	130	216	3.35	< 10	< 1	0.26	< 10	0.56	305	7
575828	299	229	0.2	1.20	26	30	< 0.5	< 2	1.16	< 0.5	33	158	483	4.43	10	< 1	0.37	10	0.45	195	4
575829	299	229	< 0.2	0.43	6	30	< 0.5	< 2	1.20	< 0.5	23	69	135	3.64	< 10	< 1	0.16	10	0.40	190	11
575830	299	229	< 0.2	0.88	< 2	20	< 0.5	< 2	1.17	< 0.5	20	90	273	3.63	10	< 1	0.33	10	0.43	135	3
575831	299	229	< 0.2	0.33	6	20	< 0.5	< 2	1.03	< 0.5	21	56	85	4.38	< 10	< 1	0.14	10	0.34	160	2
575832	299	229	< 0.2	0.80	6	40	< 0.5	< 2	0.79	< 0.5	28	103	147	4.89	10	< 1	0.42	10	0.27	190	27
575833	299	229	< 0.2	0.53	4	50	< 0.5	< 2	0.93	< 0.5	25	91	76	4.39	< 10	< 1	0.29	10	0.28	170	11
575834	299	229	< 0.2	0.91	2	40	< 0.5	< 2	1.32	< 0.5	21	101	90	4.68	10	< 1	0.42	< 10	0.46	225	4

CERTIFICATION: John D'Mar

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. : 19321535
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321535

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575795	299	229	0.04	3	390	2	< 2	2	102	< 0.01	< 10	< 10	23	< 10	18
575796	299	229	0.04	3	380	2	< 2	3	110	0.01	< 10	< 10	28	< 10	18
575797	299	229	0.04	3	360	< 2	< 2	3	140	0.01	< 10	< 10	27	< 10	20
575798	299	229	< 0.01	2	360	16	4	1	12	< 0.01	< 10	< 10	8	< 10	170
575799	299	229	0.01	4	450	8	2	2	14	< 0.01	< 10	< 10	16	< 10	20
575800	299	229	< 0.01	3	320	16	4	1	11	< 0.01	< 10	< 10	8	< 10	36
575801	299	229	0.01	3	410	< 2	4	2	28	< 0.01	< 10	< 10	21	< 10	20
575802	299	229	0.01	3	320	132	12	1	11	< 0.01	< 10	< 10	8	< 10	142
575803	299	229	0.01	3	380	6	2	2	12	< 0.01	< 10	< 10	14	< 10	20
575804	299	229	0.02	4	310	< 2	10	2	12	< 0.01	< 10	< 10	18	< 10	18
575805	299	229	0.01	4	350	2	16	2	21	< 0.01	< 10	< 10	14	< 10	32
575806	299	229	0.01	4	420	6	12	2	16	< 0.01	< 10	< 10	15	< 10	26
575807	299	229	0.01	4	440	6	8	3	18	< 0.01	< 10	< 10	20	< 10	32
575808	299	229	0.01	3	440	6	< 2	3	22	< 0.01	< 10	< 10	20	< 10	24
575809	299	229	0.02	3	390	< 2	< 2	2	39	< 0.01	< 10	< 10	15	< 10	14
575810	299	229	0.02	4	440	2	< 2	3	31	0.01	< 10	< 10	27	< 10	18
575811	299	229	0.01	4	280	2	< 2	2	21	< 0.01	< 10	< 10	12	< 10	14
575812	299	229	0.01	3	130	18	6	1	10	< 0.01	< 10	< 10	8	< 10	40
575813	299	229	0.02	4	410	18	8	2	57	< 0.01	< 10	< 10	20	< 10	28
575814	299	229	< 0.01	2	400	< 2	< 2	1	26	< 0.01	< 10	< 10	9	< 10	14
575815	299	229	0.02	2	410	< 2	< 2	2	27	0.01	< 10	< 10	20	< 10	14
575816	299	229	0.02	5	510	2	< 2	4	23	0.01	< 10	< 10	30	< 10	14
575817	299	229	0.03	5	740	< 2	< 2	8	111	0.06	< 10	< 10	41	10	16
575818	299	229	0.02	3	600	< 2	< 2	3	72	0.06	< 10	< 10	37	< 10	16
575819	299	229	0.02	2	410	< 2	< 2	2	25	0.01	< 10	< 10	25	< 10	10
575820	299	229	< 0.01	2	170	< 2	< 2	< 1	21	< 0.01	< 10	< 10	3	< 10	6
575821	299	229	0.01	2	330	2	< 2	1	43	< 0.01	< 10	< 10	11	< 10	12
575822	299	229	0.01	1	180	< 2	< 2	1	100	0.01	< 10	< 10	19	< 10	12
575823	299	229	0.02	2	380	< 2	< 2	1	57	< 0.01	< 10	< 10	19	< 10	8
575824	299	229	0.02	2	450	< 2	< 2	2	135	< 0.01	< 10	< 10	24	< 10	14
575825	299	229	0.01	3	370	4	8	2	25	< 0.01	< 10	< 10	15	< 10	14
575826	299	229	0.01	3	330	4	8	1	14	< 0.01	< 10	< 10	11	< 10	16
575827	299	229	< 0.01	2	400	4	2	2	14	< 0.01	< 10	< 10	13	< 10	14
575828	299	229	0.01	3	420	12	6	2	15	< 0.01	< 10	< 10	15	< 10	22
575829	299	229	< 0.01	2	440	6	2	1	9	< 0.01	< 10	< 10	9	< 10	12
575830	299	229	< 0.01	2	490	6	2	2	12	< 0.01	< 10	< 10	13	< 10	18
575831	299	229	< 0.01	2	410	2	2	1	9	< 0.01	< 10	< 10	7	< 10	16
575832	299	229	0.01	4	370	< 2	8	1	9	< 0.01	< 10	< 10	10	< 10	14
575833	299	229	0.01	3	430	< 2	< 2	1	9	< 0.01	< 10	< 10	9	< 10	10
575834	299	229	0.01	2	460	2	2	2	16	< 0.01	< 10	< 10	14	< 10	12

CERTIFICATION: Yhai D'Ma

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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N :4-A
Total Pa... :4
Certificate Date: 29-SEP-93
Invoice No. :19321535
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321535

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575835	299	229	0.4	0.90	70	60	< 0.5	< 2	1.39	< 0.5	17	120	175	3.80	< 10	< 1	0.48	< 10	0.60	1590	2
575836	299	229	< 0.2	0.50	8	50	< 0.5	< 2	1.86	< 0.5	20	111	149	3.99	< 10	< 1	0.23	< 10	0.70	335	4
575837	299	229	< 0.2	1.00	4	70	< 0.5	< 2	1.81	< 0.5	18	148	145	3.50	10	< 1	0.38	< 10	0.66	265	3
575838	299	229	< 0.2	0.63	< 2	70	< 0.5	< 2	1.47	< 0.5	18	80	166	3.67	< 10	< 1	0.21	< 10	0.59	200	2
575839	299	229	< 0.2	1.09	8	90	< 0.5	< 2	1.61	< 0.5	17	139	265	3.70	10	< 1	0.58	< 10	0.64	195	13
575840	299	229	< 0.2	1.03	< 2	60	< 0.5	< 2	1.66	< 0.5	15	166	113	3.45	< 10	< 1	0.59	< 10	0.61	110	1
575841	299	229	< 0.2	0.78	< 2	20	< 0.5	2	1.16	< 0.5	21	146	78	6.01	10	< 1	0.40	< 10	0.40	140	5
575842	299	229	< 0.2	0.33	< 2	40	< 0.5	2	1.10	< 0.5	21	67	34	4.76	< 10	< 1	0.19	< 10	0.32	170	9
575843	299	229	< 0.2	0.90	12	40	< 0.5	< 2	1.84	< 0.5	19	129	244	4.00	10	< 1	0.52	< 10	0.65	225	16
575844	299	229	< 0.2	0.95	< 2	40	< 0.5	2	1.30	< 0.5	17	155	64	5.38	10	< 1	0.50	< 10	0.45	125	2

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Project : CASINO 207
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-SEP-93
Invoice No. :19321535
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321535

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575835	299	229	0.01	3	290	28	12	2	38	< 0.01	< 10	< 10	13	< 10	38
575836	299	229	0.01	3	450	6	2	1	31	< 0.01	< 10	< 10	12	< 10	16
575837	299	229	0.01	4	480	6	< 2	2	42	< 0.01	< 10	< 10	18	< 10	24
575838	299	229	0.01	3	490	4	< 2	2	40	< 0.01	< 10	< 10	17	< 10	22
575839	299	229	0.03	3	460	6	< 2	2	70	< 0.01	< 10	< 10	18	< 10	24
575840	299	229	0.03	4	440	4	< 2	2	115	< 0.01	< 10	< 10	20	< 10	22
575841	299	229	0.01	3	360	< 2	< 2	2	15	< 0.01	< 10	< 10	13	< 10	20
575842	299	229	0.01	2	490	2	< 2	1	12	< 0.01	< 10	< 10	7	< 10	20
575843	299	229	0.01	3	480	< 2	2	2	64	< 0.01	< 10	< 10	13	< 10	32
575844	299	229	0.01	3	470	2	< 2	1	16	< 0.01	< 10	< 10	13	< 10	20

CERTIFICATION: Yhai D Ma

0100-63760
093190
APPENDIX 9C
C1

APPENDIX IX - C

CERTIFICATES OF ANALYSES

093190

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 208
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N... of :1
Total Pa... :4
Certificate Date: 08-OCT-93
Invoice No. : I9321929
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321929

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H565460	208	276	0.06	0.022	0.24	10820
H565461	208	276	0.21	0.025	0.48	9380
H565462	208	276	0.16	0.027	0.34	8580
H565463	208	274	0.10	0.026	0.31	5500
H565464	208	276	0.13	0.022	0.17	11080
H565465	208	276	0.12	0.027	0.24	11600
H565466	208	276	0.20	0.019	0.24	8690
H565467	208	276	0.11	0.027	0.34	10580
H565468	208	273	0.07	0.024	0.38	13440
H565469	208	276	0.11	0.028	0.24	10380
H565470	208	276	0.09	0.027	0.17	10980
H565471	208	276	0.10	0.038	0.34	10340
H565472	208	276	0.06	0.015	0.21	7460
H565473	208	276	0.08	0.018	0.21	7280
H565474	208	274	0.08	0.012	0.10	6860
H565475	208	276	0.17	0.026	0.24	8560
H565476	208	273	0.09	0.020	0.21	12420
H565477	208	273	0.09	0.014	0.21	12480
H565478	208	276	0.18	0.022	0.38	8040
H565479	208	274	0.38	0.022	0.31	6000
H565480	208	273	0.21	0.021	0.24	12160
H565481	208	273	0.22	0.022	0.34	12760
H565482	208	276	0.04	0.013	0.17	11320
H565483	208	273	0.14	0.022	0.17	11860
H565484	208	273	0.25	0.013	0.51	12440
H565485	208	276	0.36	0.039	0.38	10660
H565486	208	273	0.58	0.027	0.27	12940
H565487	208	276	0.54	0.041	0.41	8560
H565488	208	276	0.22	0.018	0.17	7860
H565489	208	274	0.22	0.013	0.14	5600
H565490	208	276	0.28	0.021	0.31	8500
H565491	208	276	0.26	0.029	0.38	10680
H565492	208	276	0.28	0.036	0.41	10180
H565493	208	276	0.30	0.038	0.38	8600
H565494	208	274	0.26	0.029	0.21	7000
H565495	208	274	0.15	0.032	0.34	5500
H565496	208	276	0.06	0.009	0.14	7840
H565497	208	276	0.06	0.027	0.07	8360
H565498	208	274	0.07	0.017	0.07	5580
H565499	208	274	0.05	0.007	0.07	6200

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H565500	208 274	0.03	0.007	0.07	7260
H565501	208 274	0.08	0.020	0.14	6000
H565502	208 274	0.09	0.012	0.14	6240
H565503	208 276	0.07	0.016	0.07	7460
H565504	208 274	0.19	0.033	0.21	5220
H565505	208 276	0.09	0.019	0.10	9800
H565506	208 276	0.08	0.021	0.07	9720
H565507	208 276	0.07	0.018	0.10	10960
H565508	208 274	0.06	0.005	0.07	6740
H565509	208 276	0.08	0.010	0.10	10000
H565510	208 276	0.07	0.013	0.10	10640
H565511	208 274	0.03	0.021	0.07	6300
H565512	208 273	0.10	0.012	0.17	12600
H565513	208 276	0.08	0.015	0.14	9920
H565514	208 273	0.16	0.028	0.27	11860
H565515	208 273	0.13	0.026	0.24	13060
H565516	208 273	0.09	0.013	0.17	11940
H565517	208 276	0.11	0.016	0.17	11660
H565518	208 276	0.08	0.010	0.10	11780
H565519	208 276	0.09	0.014	0.17	11440
H565520	208 276	0.08	0.039	0.14	10320
H565521	208 276	0.11	0.020	0.14	8540
H565522	208 276	0.11	0.029	0.14	9680
H565523	208 276	0.14	0.049	0.24	8600
H565524	208 276	0.17	0.037	0.24	9460
H565525	208 276	0.17	0.034	0.34	9040
H565526	208 276	0.15	0.042	0.14	10700
H565527	208 273	0.08	0.024	0.14	13920
H565528	208 273	0.09	0.026	0.07	12980
H565529	208 273	0.12	0.010	0.10	12020
H565530	208 276	0.17	0.058	0.10	8460
H565531	208 273	0.11	0.084	0.07	11900
H565532	208 273	0.10	0.019	0.10	12320
H565533	208 276	0.09	0.020	0.10	10860
H565534	208 276	0.10	0.019	0.10	10620
H565535	208 276	0.09	0.032	0.07	8460
H565536	208 276	0.10	0.035	0.07	10720
H565537	208 276	0.12	0.049	0.10	9540
H565538	208 276	0.15	0.100	0.10	10460
H565539	208 273	0.08	0.014	0.07	12900

CERTIFICATION:

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Account : FC

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H565540	208	273	0.11	0.020	0.51	13200
H565541	208	276	0.06	0.011	0.17	8740
H565542	208	274	0.07	0.015	0.10	4900
H565543	208	274	0.08	0.028	0.14	4940
H565544	208	276	0.08	0.074	0.10	9620
H565545	208	273	0.08	0.058	0.10	12060
H565546	208	273	0.08	0.034	0.17	13180
H565547	208	273	0.12	0.054	0.21	12620
H565548	208	273	0.11	0.132	0.14	12720
H565549	208	273	0.13	0.085	0.21	12460
H565550	208	273	0.07	0.087	0.10	12580
H565551	208	273	0.09	0.289	0.07	12980
H565552	208	273	0.07	0.089	0.07	13120
H565553	208	273	0.07	0.030	0.07	13440
H565554	208	273	0.04	0.007	0.10	13820
H565555	208	273	0.10	0.040	0.10	12700
H565556	208	273	0.04	0.113	0.03	12300
H565557	208	273	0.12	0.018	0.10	12640
H565558	208	273	0.06	0.028	0.03	12100
H565559	208	273	0.05	0.022	< 0.03	13320
H565560	208	273	0.06	0.027	< 0.03	12600
H565561	208	273	0.05	0.008	< 0.03	12880
H565562	208	276	0.07	0.018	< 0.03	11760
H565563	208	273	0.06	0.008	< 0.03	11940
H565564	208	276	0.07	0.013	0.07	11580
H565565	208	273	0.05	0.009	< 0.03	13100
H565566	208	273	0.04	0.021	< 0.03	13200
H565567	208	273	0.07	0.029	< 0.03	13500
H565568	208	273	0.04	0.164	< 0.03	12060
H565569	208	273	0.08	0.016	0.07	13020
H565570	208	276	0.05	0.035	0.10	11020
H565571	208	276	0.03	0.047	< 0.03	11080
H565572	208	273	0.05	0.120	< 0.03	12100
H565573	208	273	0.03	0.021	< 0.03	13420
H565574	208	273	0.07	0.010	< 0.03	13560
H565575	208	273	0.05	0.051	< 0.03	12180
H565576	208	273	0.04	0.008	< 0.03	13560
H565577	208	273	0.08	0.195	< 0.03	12920
H565578	208	273	0.08	0.018	0.10	13340
H565579	208	273	0.07	0.013	0.10	12720

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 208
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. : 19321929
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321929

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H565580	208	273	0.11	0.017	0.82	13820						
H565581	208	273	0.05	0.017	< 0.03	12540						
H565582	208	273	0.10	0.095	0.21	13000						
H565583	208	273	0.04	0.044	< 0.03	13340						
H565584	208	273	0.06	0.040	0.07	12620						
H565585	208	273	0.05	0.012	< 0.03	13400						
H565586	208	273	0.03	0.011	< 0.03	12900						
H565587	208	273	0.10	0.026	0.17	12860						
H565588	208	273	0.06	0.073	0.14	13300						
H565589	208	273	0.02	0.009	< 0.03	12840						
H565590	208	273	0.06	0.023	< 0.03	12680						

CERTIFICATION: _____

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Project : CASINO-208
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. : I9321930
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321930

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565460	299	229	1.6	0.78	10	250	< 0.5	< 2	0.12	< 0.5	2	78	638	2.79	< 10	< 1	0.49	30	0.30	70	124
H565461	299	229	2.0	0.84	22	180	< 0.5	< 2	0.19	1.0	26	56	1995	5.97	< 10	< 1	0.47	20	0.16	530	125
H565462	299	229	2.0	0.90	18	120	< 0.5	< 2	0.18	0.5	8	73	1550	2.30	< 10	< 1	0.28	20	0.25	120	138
H565463	299	229	2.8	0.97	26	210	< 0.5	2	0.22	< 0.5	5	57	1005	2.38	< 10	< 1	0.44	20	0.21	65	137
H565464	299	229	1.8	0.87	28	80	< 0.5	< 2	0.25	0.5	4	76	1250	1.67	< 10	< 1	0.29	20	0.31	80	121
H565465	299	229	1.6	1.46	30	110	< 0.5	2	0.37	1.0	6	34	1220	2.51	< 10	< 1	0.45	20	0.89	140	150
H565466	299	229	1.0	1.88	4	150	< 0.5	< 2	0.33	0.5	12	56	1915	2.88	< 10	< 1	0.86	20	1.47	225	104
H565467	299	229	1.4	1.82	< 2	280	0.5	< 2	0.28	< 0.5	14	54	1175	2.77	10	< 1	0.86	20	1.30	300	155
H565468	299	229	2.4	0.79	12	150	0.5	< 2	0.24	< 0.5	8	84	808	2.32	10	< 1	0.36	40	0.14	115	149
H565469	299	229	1.6	1.16	16	120	0.5	2	0.19	< 0.5	8	60	1115	2.30	< 10	< 1	0.44	20	0.44	125	161
H565470	299	229	1.8	1.04	8	100	0.5	< 2	0.23	< 0.5	7	64	952	2.41	< 10	< 1	0.44	10	0.47	105	156
H565471	299	229	4.0	1.08	66	130	0.5	< 2	0.18	< 0.5	7	65	966	2.67	< 10	< 1	0.40	20	0.52	110	221
H565472	299	229	0.8	2.26	< 2	240	0.5	< 2	0.35	0.5	16	50	532	4.19	10	< 1	1.11	10	1.71	185	84
H565473	299	229	1.0	2.03	< 2	150	0.5	< 2	0.44	0.5	13	62	798	3.02	< 10	< 1	0.82	10	1.41	195	96
H565474	299	229	0.4	1.95	< 2	160	0.5	< 2	0.47	< 0.5	19	78	771	3.06	< 10	< 1	0.70	20	1.37	325	63
H565475	299	229	1.2	2.22	6	190	1.0	< 2	0.53	< 0.5	14	42	1645	3.66	10	< 1	0.66	20	1.47	225	146
H565476	299	229	0.6	2.34	10	300	0.5	< 2	0.50	< 0.5	12	53	862	4.23	10	< 1	0.92	10	1.59	170	104
H565477	299	229	0.6	2.17	14	290	0.5	6	0.51	< 0.5	12	76	888	3.86	10	< 1	0.84	10	1.59	165	76
H565478	299	229	0.8	2.55	< 2	290	0.5	< 2	0.57	0.5	12	49	1680	3.51	10	< 1	1.00	20	1.67	170	105
H565479	299	229	1.0	2.36	< 2	260	1.0	2	0.60	1.0	19	62	3600	3.95	10	< 1	1.01	10	1.76	225	110
H565480	299	229	1.2	2.27	10	200	0.5	< 2	0.43	0.5	14	50	2030	3.78	< 10	< 1	0.90	10	1.60	230	107
H565481	299	229	2.8	2.04	22	170	0.5	14	0.34	0.5	16	71	2120	4.63	10	< 1	0.74	10	1.44	225	108
H565482	299	229	1.2	2.20	2	230	0.5	< 2	0.34	< 0.5	10	71	414	4.32	10	< 1	0.82	10	1.48	180	68
H565483	299	229	1.2	1.88	8	160	0.5	4	0.28	< 0.5	12	56	1340	4.05	< 10	< 1	0.73	10	1.42	205	106
H565484	299	229	8.6	1.51	124	30	0.5	84	0.24	< 0.5	27	41	2520	7.14	< 10	< 1	0.62	10	0.73	120	65
H565485	299	229	2.4	1.42	12	110	0.5	2	0.27	< 0.5	11	58	3690	3.11	< 10	< 1	0.56	10	0.70	110	214
H565486	299	229	3.4	0.96	56	40	1.0	< 2	0.23	0.5	12	53	5690	5.08	< 10	< 1	0.54	10	0.19	45	137
H565487	299	229	3.6	1.92	2	120	0.5	4	0.28	0.5	13	73	5340	3.20	< 10	< 1	0.67	20	1.25	190	223
H565488	299	229	0.8	1.87	< 2	130	0.5	< 2	0.34	0.5	9	64	2210	3.36	10	< 1	0.65	30	1.32	200	94
H565489	299	229	0.4	1.71	6	130	0.5	< 2	0.30	< 0.5	10	82	2090	3.38	10	< 1	0.68	30	1.29	185	67
H565490	299	229	2.0	1.77	14	110	1.0	2	0.32	3.5	10	58	2680	3.49	10	< 1	0.66	30	1.19	270	115
H565491	299	229	1.4	1.69	12	160	0.5	< 2	0.32	0.5	13	82	2600	2.88	< 10	< 1	0.97	20	1.45	185	155
H565492	299	229	1.6	1.94	2	210	0.5	6	0.43	5.0	14	49	2640	3.40	< 10	< 1	1.18	10	1.69	190	184
H565493	299	229	1.4	2.17	< 2	310	0.5	8	0.46	4.5	17	48	2850	4.39	< 10	< 1	1.47	20	2.01	200	196
H565494	299	229	0.8	2.19	< 2	290	1.0	< 2	0.44	2.0	13	66	2470	3.56	10	< 1	1.38	30	1.85	170	145
H565495	299	229	0.6	1.73	4	260	0.5	2	0.42	3.0	10	65	1435	2.93	< 10	< 1	1.09	20	1.53	165	160
H565496	299	229	0.4	1.93	4	260	0.5	< 2	0.42	1.0	12	64	608	2.64	< 10	< 1	1.22	20	1.70	210	43
H565497	299	229	0.4	1.53	< 2	120	0.5	2	0.32	1.5	9	60	577	1.61	< 10	< 1	0.96	20	1.49	235	147
H565498	299	229	0.6	1.57	6	140	0.5	< 2	0.30	0.5	10	50	693	1.84	< 10	< 1	1.01	10	1.52	185	97
H565499	299	229	0.2	1.47	< 2	160	< 0.5	< 2	0.38	1.0	8	59	474	1.60	< 10	< 1	1.05	20	1.51	160	33

CERTIFICATION:

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Y1A 3S9

Project : CASINO-208
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. :I9321930
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321930

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565460	299	229	0.03	3	520	10	4	4	21	0.02	< 10	< 10	41	10	40
H565461	299	229	0.02	6	750	12	4	3	28	< 0.01	< 10	< 10	40	20	56
H565462	299	229	0.02	4	320	8	4	2	19	< 0.01	< 10	< 10	16	10	72
H565463	299	229	0.02	3	360	18	4	3	23	< 0.01	< 10	< 10	17	10	72
H565464	299	229	0.03	3	540	18	6	3	9	< 0.01	< 10	< 10	23	10	72
H565465	299	229	0.04	4	1090	20	4	7	10	0.02	< 10	< 10	66	10	74
H565466	299	229	0.04	6	890	8	< 2	11	10	0.12	< 10	< 10	100	10	86
H565467	299	229	0.06	6	940	6	2	13	12	0.12	< 10	< 10	108	< 10	80
H565468	299	229	0.01	4	830	24	8	4	39	< 0.01	< 10	< 10	22	< 10	78
H565469	299	229	0.04	4	600	8	4	6	19	0.02	< 10	< 10	45	< 10	66
H565470	299	229	0.03	3	650	8	2	7	9	0.03	< 10	< 10	45	< 10	88
H565471	299	229	0.03	3	510	14	8	7	19	0.02	< 10	< 10	45	< 10	106
H565472	299	229	0.04	5	1000	6	< 2	14	10	0.20	< 10	< 10	130	< 10	58
H565473	299	229	0.04	4	920	6	< 2	11	11	0.16	< 10	< 10	100	< 10	44
H565474	299	229	0.04	3	1110	< 2	2	9	12	0.11	< 10	< 10	82	< 10	46
H565475	299	229	0.04	2	1280	8	< 2	10	16	0.14	< 10	< 10	97	< 10	60
H565476	299	229	0.07	4	1150	4	2	12	17	0.20	< 10	< 10	112	10	48
H565477	299	229	0.05	3	1040	6	< 2	11	17	0.19	< 10	< 10	104	10	42
H565478	299	229	0.05	4	1130	2	< 2	12	17	0.21	< 10	< 10	106	10	52
H565479	299	229	0.06	6	1190	6	< 2	13	20	0.22	< 10	< 10	119	< 10	70
H565480	299	229	0.05	4	1220	18	2	11	14	0.17	< 10	< 10	104	< 10	84
H565481	299	229	0.03	4	1290	30	< 2	9	12	0.11	< 10	< 10	85	10	104
H565482	299	229	0.06	3	1260	8	< 2	11	14	0.13	< 10	< 10	102	< 10	90
H565483	299	229	0.04	5	1250	18	< 2	10	11	0.13	< 10	< 10	88	< 10	112
H565484	299	229	0.02	4	1090	46	8	7	9	0.05	< 10	< 10	51	< 10	74
H565485	299	229	0.02	4	1130	20	2	7	9	0.05	< 10	< 10	51	< 10	66
H565486	299	229	0.01	4	960	34	2	3	6	< 0.01	< 10	< 10	20	< 10	76
H565487	299	229	0.03	5	950	20	2	9	10	0.07	< 10	< 10	69	< 10	98
H565488	299	229	0.07	6	950	14	2	9	14	0.11	< 10	< 10	80	< 10	72
H565489	299	229	0.06	4	960	8	2	9	11	0.12	< 10	< 10	88	< 10	56
H565490	299	229	0.05	4	950	4	2	7	12	0.07	< 10	< 10	60	< 10	82
H565491	299	229	0.06	4	930	8	< 2	11	13	0.19	< 10	< 10	92	< 10	60
H565492	299	229	0.08	3	1110	< 2	< 2	14	18	0.26	< 10	< 10	122	< 10	56
H565493	299	229	0.08	6	1200	4	2	18	19	0.31	< 10	< 10	167	10	58
H565494	299	229	0.11	7	950	8	2	16	23	0.27	< 10	< 10	130	10	58
H565495	299	229	0.08	5	1020	10	< 2	14	19	0.23	< 10	< 10	114	< 10	46
H565496	299	229	0.09	6	900	4	< 2	14	20	0.24	< 10	< 10	111	< 10	74
H565497	299	229	0.06	6	820	6	< 2	12	14	0.17	< 10	< 10	76	< 10	96
H565498	299	229	0.08	7	780	14	2	13	15	0.20	< 10	< 10	89	< 10	76
H565499	299	229	0.08	4	1040	2	2	13	16	0.20	< 10	< 10	91	< 10	60

CERTIFICATION: Hart Bachler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565500	299	229	< 0.2	1.75	4	220	< 0.5	< 2	0.43	0.5	9	84	280	2.02	< 10	< 1	1.11	20	1.52	170	32
H565501	299	229	0.2	1.85	< 2	220	< 0.5	< 2	0.42	1.0	10	83	775	2.25	< 10	< 1	1.26	20	1.65	185	97
H565502	299	229	0.4	1.68	< 2	150	< 0.5	< 2	0.36	1.0	9	74	849	2.07	< 10	< 1	1.11	20	1.49	190	60
H565503	299	229	0.4	0.96	2	80	< 0.5	< 2	0.22	1.0	10	56	750	1.48	< 10	< 1	0.56	40	0.97	320	87
H565504	299	229	2.0	0.99	< 2	120	< 0.5	< 2	0.15	1.0	15	137	1835	1.87	< 10	< 1	0.56	30	0.70	575	168
H565505	299	229	0.8	0.92	2	90	< 0.5	< 2	0.18	1.0	18	52	878	2.06	< 10	< 1	0.43	30	0.89	680	97
H565506	299	229	0.6	0.85	< 2	130	< 0.5	2	0.16	1.5	17	102	777	1.73	< 10	< 1	0.38	30	0.64	595	111
H565507	299	229	0.6	0.96	< 2	160	< 0.5	< 2	0.23	2.0	14	49	695	1.73	< 10	< 1	0.49	30	0.90	515	97
H565508	299	229	0.4	1.87	< 2	140	< 0.5	< 2	0.38	3.0	18	65	558	2.56	< 10	< 1	0.95	30	1.69	610	29
H565509	299	229	0.2	1.72	< 2	140	< 0.5	< 2	0.40	2.0	16	31	762	2.62	< 10	< 1	0.86	20	1.66	525	49
H565510	299	229	0.2	1.36	< 2	120	< 0.5	< 2	0.22	4.5	13	93	705	1.85	10	< 1	0.76	40	1.18	485	64
H565511	299	229	< 0.2	1.98	< 2	190	< 0.5	< 2	0.37	5.0	13	82	304	2.82	10	< 1	1.20	40	1.57	410	109
H565512	299	229	0.6	1.28	< 2	160	< 0.5	< 2	0.64	1.5	19	48	988	2.50	< 10	< 1	0.74	30	1.02	690	64
H565513	299	229	11.6	0.67	150	80	< 0.5	4	1.28	>100.0	18	32	831	2.94	< 10	2	0.38	30	0.74	1345	74
H565514	299	229	1.2	0.80	20	100	< 0.5	< 2	0.53	4.5	19	71	1575	2.13	< 10	< 1	0.46	40	0.56	695	147
H565515	299	229	1.2	0.43	36	210	< 0.5	2	1.31	0.5	8	61	1305	1.28	< 10	< 1	0.21	20	0.51	460	134
H565516	299	229	3.0	0.72	24	180	< 0.5	4	1.08	6.0	13	106	842	1.96	< 10	< 1	0.30	30	0.44	825	68
H565517	299	229	1.0	0.57	8	110	< 0.5	< 2	1.19	< 0.5	5	83	1055	0.98	< 10	< 1	0.26	20	0.48	185	77
H565518	299	229	0.8	0.82	8	140	< 0.5	< 2	1.19	< 0.5	5	141	836	1.05	< 10	< 1	0.45	20	0.55	270	45
H565519	299	229	0.8	1.38	8	200	< 0.5	< 2	1.04	0.5	8	197	891	1.54	< 10	< 1	0.67	20	0.79	220	68
H565520	299	229	0.4	1.12	2	130	< 0.5	< 2	0.81	1.5	15	135	809	1.72	< 10	< 1	0.49	40	0.51	495	203
H565521	299	229	0.6	1.29	2	140	< 0.5	2	0.56	4.5	26	66	1035	4.02	10	< 1	0.75	40	1.01	995	105
H565522	299	229	0.6	1.53	4	180	< 0.5	< 2	0.66	3.0	26	124	1115	3.51	< 10	< 1	0.68	30	0.73	950	147
H565523	299	229	1.4	0.41	24	110	< 0.5	< 2	0.80	3.0	28	103	1435	2.71	< 10	< 1	0.17	30	0.36	1075	259
H565524	299	229	11.0	0.66	144	120	< 0.5	2	1.10	27.5	17	166	1730	2.38	< 10	1	0.35	20	0.50	1800	188
H565525	299	229	1.4	0.99	4	100	< 0.5	2	1.09	1.0	16	78	1695	2.45	< 10	< 1	0.57	30	0.78	525	167
H565526	299	229	1.0	1.05	6	160	< 0.5	< 2	0.77	1.5	13	70	1470	1.92	< 10	< 1	0.53	20	0.60	355	213
H565527	299	229	0.4	1.22	< 2	100	< 0.5	< 2	1.20	0.5	15	37	786	3.73	< 10	< 1	0.62	20	1.00	340	109
H565528	299	229	1.2	0.59	38	100	< 0.5	4	0.42	0.5	10	124	899	2.40	< 10	< 1	0.37	10	0.24	320	132
H565529	299	229	1.2	0.26	< 2	120	< 0.5	4	0.60	< 0.5	10	117	1235	1.66	< 10	< 1	0.17	20	0.26	205	50
H565530	299	229	1.8	0.76	10	130	< 0.5	2	0.55	1.5	12	260	1735	2.27	< 10	< 1	0.44	20	0.31	425	297
H565531	299	229	5.6	0.56	52	130	< 0.5	2	0.52	9.0	9	205	1220	1.83	< 10	< 1	0.35	20	0.16	265	438
H565532	299	229	0.8	0.50	8	180	< 0.5	2	0.85	< 0.5	7	179	1020	1.14	< 10	< 1	0.29	20	0.11	165	95
H565533	299	229	0.6	0.47	< 2	140	< 0.5	2	0.90	< 0.5	11	105	895	1.44	< 10	< 1	0.20	20	0.27	245	106
H565534	299	229	0.4	0.60	2	140	< 0.5	2	0.51	0.5	7	198	964	1.34	< 10	< 1	0.36	20	0.26	165	94
H565535	299	229	0.6	0.30	< 2	120	< 0.5	2	0.40	0.5	5	124	901	1.85	< 10	< 1	0.19	20	0.24	145	179
H565536	299	229	0.6	0.63	16	190	< 0.5	< 2	0.78	1.5	7	155	952	1.55	< 10	< 1	0.37	20	0.45	255	174
H565537	299	229	0.6	0.83	< 2	230	< 0.5	< 2	0.75	1.5	6	174	1190	1.61	< 10	< 1	0.43	20	0.45	110	254
H565538	299	229	0.8	0.60	128	140	< 0.5	4	0.78	0.5	5	166	1475	2.00	< 10	< 1	0.33	20	0.46	180	543
H565539	299	229	2.6	0.57	100	60	< 0.5	4	1.06	7.0	6	223	844	3.16	< 10	< 1	0.34	10	0.48	1040	67

CERTIFICATION:

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Project : CASINO-208
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 08-OCT-93
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CERTIFICATE OF ANALYSIS A9321930

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565500	299	229	0.13	6	1060	14	< 2	15	24	0.25	< 10	< 10	108	< 10	62
H565501	299	229	0.12	6	990	12	< 2	17	21	0.26	< 10	< 10	123	< 10	76
H565502	299	229	0.09	7	780	8	< 2	16	18	0.22	< 10	< 10	102	< 10	88
H565503	299	229	0.03	5	690	8	< 2	8	8	0.10	< 10	< 10	43	< 10	128
H565504	299	229	0.05	6	380	12	< 2	6	11	0.04	< 10	< 10	30	< 10	192
H565505	299	229	0.02	6	470	10	< 2	8	7	0.06	< 10	< 10	37	< 10	210
H565506	299	229	0.04	5	400	6	< 2	4	10	0.02	< 10	< 10	23	< 10	178
H565507	299	229	0.03	4	630	6	< 2	7	8	0.08	< 10	< 10	38	< 10	186
H565508	299	229	0.07	9	1100	6	< 2	13	14	0.13	< 10	< 10	74	< 10	232
H565509	299	229	0.04	8	1230	4	< 2	13	10	0.17	< 10	< 10	96	< 10	192
H565510	299	229	0.05	6	580	8	< 2	10	11	0.09	< 10	< 10	52	< 10	196
H565511	299	229	0.09	8	1100	8	< 2	14	18	0.20	< 10	< 10	103	< 10	174
H565512	299	229	0.03	7	940	12	2	10	15	0.12	< 10	< 10	69	< 10	146
H565513	299	229	0.01	7	870	1820	152	7	17	0.03	< 10	< 10	28	< 10	7760
H565514	299	229	0.03	8	610	6	2	5	13	0.04	< 10	< 10	29	< 10	172
H565515	299	229	0.01	4	480	8	2	3	20	0.01	< 10	< 10	17	< 10	42
H565516	299	229	0.01	7	710	92	16	6	19	< 0.01	< 10	< 10	18	< 10	326
H565517	299	229	0.01	4	290	6	2	3	17	0.01	< 10	< 10	17	< 10	36
H565518	299	229	0.03	4	220	8	2	4	22	0.02	< 10	< 10	22	< 10	32
H565519	299	229	0.03	8	380	6	2	6	24	0.06	< 10	< 10	31	< 10	52
H565520	299	229	0.03	6	420	6	< 2	4	18	0.02	< 10	< 10	24	< 10	126
H565521	299	229	0.02	10	890	14	< 2	9	13	0.10	< 10	< 10	61	< 10	244
H565522	299	229	0.03	10	690	6	2	7	18	0.05	< 10	< 10	40	< 10	196
H565523	299	229	< 0.01	8	280	8	6	2	15	< 0.01	< 10	< 10	9	< 10	192
H565524	299	229	0.01	7	360	568	92	2	19	< 0.01	< 10	< 10	11	< 10	1050
H565525	299	229	0.02	7	700	4	4	7	16	0.07	< 10	< 10	41	< 10	104
H565526	299	229	0.05	6	460	8	2	5	20	0.03	< 10	< 10	33	< 10	72
H565527	299	229	0.02	6	980	4	< 2	6	16	0.07	< 10	< 10	49	< 10	46
H565528	299	229	0.01	6	330	8	4	1	13	< 0.01	< 10	< 10	7	< 10	50
H565529	299	229	0.01	6	230	6	< 2	1	15	< 0.01	< 10	< 10	3	< 10	42
H565530	299	229	0.03	8	300	18	4	1	16	< 0.01	< 10	< 10	6	< 10	86
H565531	299	229	0.03	7	180	188	28	< 1	13	< 0.01	< 10	< 10	2	< 10	440
H565532	299	229	0.04	4	210	4	2	1	19	< 0.01	< 10	< 10	3	< 10	28
H565533	299	229	0.03	5	330	4	2	2	19	< 0.01	< 10	< 10	8	< 10	46
H565534	299	229	0.06	5	200	6	< 2	1	14	< 0.01	< 10	< 10	4	< 10	38
H565535	299	229	0.01	3	160	4	< 2	< 1	11	< 0.01	< 10	< 10	2	< 10	38
H565536	299	229	0.03	4	250	6	2	2	21	< 0.01	< 10	< 10	9	< 10	36
H565537	299	229	0.06	7	280	8	2	3	26	< 0.01	< 10	< 10	13	< 10	30
H565538	299	229	0.02	5	250	8	4	2	22	< 0.01	< 10	< 10	9	< 10	32
H565539	299	229	0.01	6	320	98	18	2	24	< 0.01	< 10	< 10	12	< 10	282

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Certificate Date: 08-OCT-93
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CERTIFICATE OF ANALYSIS A9321930

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565540	299	229	34.6	1.03	422	120	< 0.5	< 2	1.49	20.5	8	266	1105	2.31	< 10	1	0.55	20	0.55	4530	102
H565541	299	229	0.4	1.06	16	170	< 0.5	2	1.09	< 0.5	6	267	641	1.81	< 10	< 1	0.50	30	0.46	240	66
H565542	299	229	0.4	0.63	6	280	< 0.5	2	0.79	< 0.5	4	205	711	0.87	< 10	< 1	0.34	20	0.32	75	84
H565543	299	229	0.4	0.55	< 2	200	< 0.5	< 2	0.93	< 0.5	4	135	803	0.90	< 10	< 1	0.32	20	0.35	70	153
H565544	299	229	0.6	0.68	< 2	140	< 0.5	< 2	0.95	< 0.5	5	197	830	1.72	< 10	< 1	0.38	30	0.28	85	408
H565545	299	229	0.4	1.25	< 2	150	< 0.5	2	2.16	< 0.5	7	103	812	1.94	< 10	< 1	0.46	20	0.52	200	304
H565546	299	229	3.4	2.04	48	150	< 0.5	< 2	2.83	21.0	11	80	808	3.65	10	< 1	0.82	20	1.34	990	169
H565547	299	229	2.4	1.29	180	110	< 0.5	2	2.12	0.5	9	162	1185	2.87	< 10	< 1	0.49	30	0.67	1125	295
H565548	299	229	0.8	1.66	28	70	< 0.5	6	2.58	< 0.5	11	126	1075	4.00	10	< 1	0.48	30	0.73	690	646
H565549	299	229	3.2	1.69	70	160	< 0.5	< 2	2.37	0.5	6	140	1420	1.68	10	< 1	0.52	30	0.73	495	457
H565550	299	229	0.8	1.95	6	210	< 0.5	< 2	3.06	1.0	7	186	689	2.40	10	< 1	0.83	30	1.07	340	429
H565551	299	229	0.2	1.02	2	80	< 0.5	4	4.49	< 0.5	7	161	853	2.57	10	< 1	0.62	10	0.90	85	1245
H565552	299	229	0.2	0.66	6	100	< 0.5	2	4.02	< 0.5	5	171	834	1.21	< 10	< 1	0.43	10	0.47	55	508
H565553	299	229	0.4	0.39	< 2	100	< 0.5	2	2.88	< 0.5	6	162	776	1.37	< 10	< 1	0.25	10	0.29	40	165
H565554	299	229	1.2	0.69	20	110	< 0.5	8	2.96	0.5	6	156	410	1.72	< 10	< 1	0.35	20	0.44	150	34
H565555	299	229	0.6	0.87	10	160	< 0.5	< 2	2.34	< 0.5	9	207	1030	1.44	< 10	< 1	0.31	20	0.48	105	209
H565556	299	229	0.6	0.67	12	170	< 0.5	2	3.80	1.0	7	170	364	1.64	< 10	< 1	0.28	20	0.33	190	608
H565557	299	229	1.2	0.75	28	160	< 0.5	2	1.04	< 0.5	6	299	1245	1.91	< 10	< 1	0.34	20	0.20	75	97
H565558	299	229	0.2	0.67	2	180	< 0.5	< 2	2.43	< 0.5	3	189	554	1.04	< 10	< 1	0.36	10	0.31	55	143
H565559	299	229	0.2	0.55	4	160	< 0.5	< 2	2.98	< 0.5	2	183	466	0.99	< 10	< 1	0.24	10	0.22	45	107
H565560	299	229	0.2	0.55	< 2	110	< 0.5	< 2	2.74	< 0.5	3	214	618	0.97	< 10	< 1	0.28	10	0.32	60	137
H565561	299	229	0.2	0.80	2	190	< 0.5	< 2	1.77	< 0.5	4	293	519	1.16	< 10	< 1	0.39	20	0.29	65	38
H565562	299	229	0.4	0.70	2	220	< 0.5	< 2	1.92	< 0.5	4	202	716	1.00	< 10	< 1	0.29	20	0.11	105	82
H565563	299	229	1.4	0.94	12	140	< 0.5	4	1.50	2.0	3	303	566	1.59	< 10	< 1	0.39	20	0.18	195	40
H565564	299	229	0.2	1.29	2	200	< 0.5	< 2	1.55	< 0.5	7	203	665	2.10	< 10	< 1	0.62	20	0.72	140	60
H565565	299	229	0.2	0.73	2	160	< 0.5	4	2.65	< 0.5	4	174	493	1.15	< 10	< 1	0.41	10	0.40	65	44
H565566	299	229	0.2	0.57	< 2	190	< 0.5	< 2	2.74	< 0.5	3	177	376	0.92	< 10	< 1	0.31	10	0.19	50	117
H565567	299	229	0.2	1.11	6	270	< 0.5	2	2.29	< 0.5	4	212	697	1.29	< 10	< 1	0.54	20	0.43	75	152
H565568	299	229	< 0.2	1.26	4	160	< 0.5	4	2.74	< 0.5	8	219	364	2.26	< 10	< 1	0.47	20	0.48	165	815
H565569	299	229	10.8	1.24	76	140	< 0.5	4	1.80	52.0	5	224	770	1.96	< 10	< 1	0.55	20	0.61	485	74
H565570	299	229	< 0.2	2.32	< 2	300	< 0.5	< 2	2.04	< 0.5	10	164	453	3.72	10	< 1	1.23	20	1.59	170	165
H565571	299	229	< 0.2	1.61	< 2	160	< 0.5	2	1.91	< 0.5	7	177	262	2.15	< 10	< 1	0.86	30	1.20	120	227
H565572	299	229	1.0	1.09	32	120	< 0.5	2	2.48	1.0	7	155	460	2.25	< 10	< 1	0.43	20	0.62	315	602
H565573	299	229	< 0.2	0.96	4	130	< 0.5	< 2	2.96	< 0.5	6	165	326	1.94	< 10	< 1	0.47	20	0.71	95	104
H565574	299	229	0.2	0.72	60	110	< 0.5	2	2.31	< 0.5	5	148	669	1.55	< 10	< 1	0.47	10	0.62	90	52
H565575	299	229	0.2	0.59	< 2	140	< 0.5	2	2.41	< 0.5	4	166	521	1.31	< 10	< 1	0.33	10	0.37	105	260
H565576	299	229	0.2	0.96	< 2	160	< 0.5	< 2	2.51	< 0.5	3	180	435	1.55	< 10	< 1	0.44	20	0.52	90	42
H565577	299	229	0.2	0.59	12	120	< 0.5	4	2.43	< 0.5	4	209	764	1.32	< 10	< 1	0.38	20	0.25	95	972
H565578	299	229	0.2	0.80	4	100	< 0.5	4	2.03	< 0.5	8	199	793	2.34	< 10	< 1	0.43	10	0.52	70	93
H565579	299	229	< 0.2	1.45	< 2	190	< 0.5	< 2	2.03	< 0.5	7	96	631	2.89	10	< 1	0.64	20	1.05	120	63

CERTIFICATION: Ian A Bachler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565540	299	229	0.01	9	510	722	272	3	27	< 0.01	< 10	< 10	20	< 10	878
H565541	299	229	0.06	8	340	10	4	4	28	0.02	< 10	< 10	28	< 10	42
H565542	299	229	0.09	3	210	8	2	1	33	< 0.01	< 10	< 10	9	< 10	18
H565543	299	229	0.07	4	230	4	2	2	30	< 0.01	< 10	< 10	10	< 10	18
H565544	299	229	0.06	6	270	6	2	1	26	< 0.01	< 10	< 10	6	20	24
H565545	299	229	0.02	6	550	4	4	4	31	0.02	< 10	< 10	29	< 10	30
H565546	299	229	0.02	7	1200	376	40	10	38	0.09	< 10	< 10	66	10	992
H565547	299	229	0.01	6	540	12	22	5	31	0.01	< 10	< 10	23	< 10	30
H565548	299	229	0.01	6	630	14	8	4	40	0.01	< 10	< 10	24	< 10	20
H565549	299	229	0.02	5	520	16	24	5	45	0.02	< 10	< 10	32	< 10	34
H565550	299	229	0.03	8	810	18	2	9	85	0.10	< 10	< 10	58	< 10	48
H565551	299	229	0.04	6	690	2	4	8	270	0.08	< 10	< 10	58	< 10	16
H565552	299	229	0.05	4	360	4	2	3	224	0.02	< 10	< 10	18	< 10	10
H565553	299	229	0.04	3	260	4	< 2	1	189	< 0.01	< 10	< 10	4	< 10	8
H565554	299	229	0.04	4	400	20	2	3	143	0.01	< 10	< 10	17	< 10	26
H565555	299	229	0.02	5	310	6	4	3	64	< 0.01	< 10	< 10	15	< 10	16
H565556	299	229	0.01	4	360	24	4	1	67	< 0.01	< 10	< 10	2	< 10	72
H565557	299	229	0.01	6	250	8	4	< 1	41	< 0.01	< 10	< 10	3	< 10	16
H565558	299	229	0.05	4	240	4	< 2	2	102	< 0.01	< 10	< 10	9	< 10	8
H565559	299	229	0.03	3	160	4	< 2	1	182	< 0.01	< 10	< 10	3	< 10	8
H565560	299	229	0.05	5	220	6	2	2	153	< 0.01	< 10	< 10	7	< 10	12
H565561	299	229	0.06	6	250	4	< 2	2	75	< 0.01	< 10	< 10	6	< 10	10
H565562	299	229	0.02	4	190	12	< 2	1	56	< 0.01	< 10	< 10	3	< 10	10
H565563	299	229	0.01	5	230	58	2	1	28	< 0.01	< 10	< 10	7	< 10	86
H565564	299	229	0.06	6	590	6	< 2	6	39	0.06	< 10	< 10	47	< 10	18
H565565	299	229	0.05	3	300	6	< 2	3	158	0.01	< 10	< 10	14	< 10	10
H565566	299	229	0.06	2	180	6	2	1	163	< 0.01	< 10	< 10	5	< 10	8
H565567	299	229	0.07	4	370	4	2	4	146	0.01	< 10	< 10	20	< 10	10
H565568	299	229	0.02	7	760	6	4	5	59	0.01	< 10	< 10	20	< 10	14
H565569	299	229	0.03	6	450	1085	82	4	54	0.02	< 10	< 10	25	< 10	2560
H565570	299	229	0.12	4	1240	4	< 2	17	77	0.19	< 10	< 10	107	< 10	24
H565571	299	229	0.07	8	510	4	2	10	75	0.10	< 10	< 10	52	< 10	22
H565572	299	229	0.01	5	600	24	18	5	49	0.02	< 10	< 10	27	< 10	80
H565573	299	229	0.07	6	880	6	< 2	4	151	0.04	< 10	< 10	33	< 10	14
H565574	299	229	0.04	6	270	6	2	6	160	0.02	< 10	< 10	23	< 10	18
H565575	299	229	0.04	5	230	4	2	2	160	< 0.01	< 10	< 10	8	< 10	14
H565576	299	229	0.06	6	240	4	< 2	4	141	0.01	< 10	< 10	25	< 10	16
H565577	299	229	0.06	5	350	4	4	1	202	< 0.01	< 10	< 10	2	< 10	14
H565578	299	229	0.04	4	340	4	2	3	189	0.01	< 10	< 10	21	< 10	12
H565579	299	229	0.08	3	1170	2	< 2	7	107	0.08	< 10	< 10	50	< 10	16

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CERTIFICATE OF ANALYSIS A9321930

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565580	299	229	0.4	1.68	< 2	100	< 0.5	4	2.25	< 0.5	9	44	1080	4.60	10	< 1	0.76	20	1.20	160	78
H565581	299	229	< 0.2	0.87	2	100	< 0.5	< 2	2.14	< 0.5	4	91	423	1.53	< 10	< 1	0.39	20	0.76	75	88
H565582	299	229	0.4	0.99	< 2	100	< 0.5	2	3.11	< 0.5	4	82	1015	1.62	10	< 1	0.49	20	0.81	80	464
H565583	299	229	0.2	0.53	< 2	100	< 0.5	2	2.72	< 0.5	4	82	396	1.35	< 10	< 1	0.22	10	0.25	50	243
H565584	299	229	0.2	0.55	< 2	140	< 0.5	< 2	2.68	< 0.5	6	75	579	1.10	< 10	< 1	0.25	10	0.29	55	217
H565585	299	229	0.2	0.43	< 2	130	< 0.5	2	2.03	< 0.5	4	126	496	1.21	< 10	< 1	0.21	10	0.22	50	61
H565586	299	229	< 0.2	0.60	< 2	130	< 0.5	< 2	3.52	< 0.5	2	80	299	0.75	< 10	< 1	0.23	10	0.29	55	57
H565587	299	229	0.4	0.76	< 2	130	< 0.5	2	1.99	< 0.5	4	122	969	1.33	< 10	< 1	0.36	20	0.54	75	137
H565588	299	229	0.2	0.92	< 2	130	< 0.5	< 2	3.13	< 0.5	6	83	650	1.68	< 10	< 1	0.37	20	0.60	75	411
H565589	299	229	< 0.2	1.42	< 2	220	< 0.5	< 2	1.86	< 0.5	8	129	141	2.79	10	< 1	0.94	20	1.26	135	40
H565590	299	229	0.2	0.54	< 2	170	< 0.5	< 2	2.28	< 0.5	2	107	553	1.09	< 10	< 1	0.26	10	0.21	50	112

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-208
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. : I9321930
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321930

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565580	299	229	0.05	4	1220	< 2	2	9	113	0.10	< 10	< 10	86	10	26
H565581	299	229	0.03	4	380	< 2	< 2	6	119	0.04	< 10	< 10	32	< 10	14
H565582	299	229	0.03	5	320	< 2	2	7	157	0.05	< 10	< 10	41	< 10	14
H565583	299	229	0.04	4	250	6	2	1	159	< 0.01	< 10	< 10	8	< 10	8
H565584	299	229	0.05	2	250	2	2	2	137	< 0.01	< 10	< 10	11	< 10	8
H565585	299	229	0.03	2	240	4	2	1	113	< 0.01	< 10	< 10	8	< 10	10
H565586	299	229	0.05	2	210	2	< 2	2	162	< 0.01	< 10	< 10	13	< 10	12
H565587	299	229	0.03	5	390	4	< 2	4	113	0.04	< 10	< 10	30	< 10	14
H565588	299	229	0.04	4	350	< 2	2	4	147	0.02	< 10	< 10	29	< 10	14
H565589	299	229	0.05	6	580	2	< 2	14	71	0.17	< 10	< 10	80	< 10	24
H565590	299	229	0.04	3	200	2	< 2	1	123	< 0.01	< 10	< 10	10	< 10	8

CERTIFICATION: Stewart Bachelor

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-OCT-93
Invoice No. :I9322073
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322073

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
566677H	208	274	0.62	0.012	0.75	2160						
566678H	208	273	0.29	0.013	0.27	12700						
566679H	208	276	0.25	0.009	0.24	10600						
566680H	208	274	0.19	0.008	0.21	4880						
566681H	208	274	0.26	0.004	0.24	5960						
566682H	208	276	0.25	0.015	0.17	11240						
566683H	208	274	0.18	0.034	0.14	4220						
566684H	208	274	0.14	0.007	0.17	5460						
566685H	208	274	0.24	0.010	0.58	6280						
566686H	208	274	0.54	0.016	0.51	2100						
566687H	208	274	0.11	0.004	0.10	2920						
566688H	208	276	0.15	0.005	0.17	9620						
566689H	208	274	0.20	0.006	0.17	4640						
566690H	208	276	0.18	0.003	0.14	11260						
566691H	208	276	0.20	0.009	0.21	10480						
566692H	208	276	0.20	0.011	0.21	8540						
566693H	208	276	0.37	0.022	0.34	10260						
566694H	208	276	0.29	0.012	0.48	10960						
566695H	208	273	0.19	0.014	0.21	12340						
566696H	208	273	0.23	0.013	0.24	12120						
566697H	208	276	0.28	0.027	0.34	8820						
566698H	208	276	0.11	0.006	0.17	10040						
566699H	208	276	0.09	0.003	0.10	9260						
566700H	208	273	0.19	0.015	0.24	12460						
566701H	208	276	0.15	0.004	0.17	11500						
566702H	208	276	0.33	0.225	0.31	11580						
566703H	208	276	0.61	0.032	0.69	11600						
566704H	208	276	0.25	0.010	0.24	10980						
566705H	208	276	0.14	0.003	0.21	10220						
566706H	208	276	0.22	0.066	0.58	11700						
566707H	208	276	0.22	0.007	0.24	9320						
566708H	208	276	0.13	0.014	0.14	11460						
566709H	208	273	0.08	0.008	0.07	12000						
566710H	208	276	0.14	0.020	0.17	10900						
566711H	208	273	0.16	0.011	0.17	11920						
566712H	208	276	0.11	0.035	0.10	11800						
566713H	208	273	0.12	0.008	0.10	11940						
566714H	208	274	0.24	0.090	0.27	4680						
566715H	208	276	0.17	0.010	0.17	11340						
566716H	208	276	0.11	0.006	0.14	10100						

CERTIFICATION: Stuart Grimley

Chemex Labs Ltd.

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o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-OCT-93
Invoice No. : I9322073
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9322073

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566717H	208 274	0.15	0.004	0.17	7100
566718H	208 276	0.17	0.012	0.14	10650
566719H	208 274	0.21	0.007	0.24	3360
566720H	208 273	0.18	0.007	0.17	13080
566721H	208 273	0.21	0.002	0.24	11960
566722H	208 273	0.27	0.044	0.24	12740
566723H	208 276	0.16	0.006	0.21	9780
566724H	208 273	0.21	0.017	0.27	12660
566725H	208 276	0.08	0.003	0.14	10380
566726H	208 276	0.15	0.019	0.21	11000
566727H	208 273	0.11	0.025	0.10	12580
566728H	208 273	0.10	0.008	0.21	13460
566729H	208 273	0.14	0.006	0.17	12480
566730H	208 273	0.15	0.005	0.21	13320
566731H	208 273	0.09	0.007	0.10	13800
566732H	208 276	0.12	0.007	0.10	11760
566733H	208 273	0.15	0.011	0.21	12960
566734H	208 276	0.09	0.005	0.07	10960
566735H	208 276	0.18	0.020	0.21	9840
566736H	208 276	0.20	0.008	0.31	10440
566737H	208 276	0.17	0.005	0.17	10800
566738H	208 273	0.17	0.009	0.17	12160
566739H	208 273	0.18	0.007	0.14	12380
566740H	208 276	0.14	0.010	0.14	10940
566741H	208 274	0.12	0.019	0.10	5620
566742H	208 273	0.24	0.034	0.34	13600
566743H	208 273	0.08	0.012	0.07	12520
566744H	208 273	0.10	0.026	0.07	13080
566745H	208 273	0.22	0.040	0.27	13600
566746H	208 273	0.11	0.012	0.10	11820
566747H	208 276	0.11	0.038	0.10	11760
566748H	208 273	0.06	0.008	0.03	12320
566749H	208 273	0.20	0.011	0.34	11920
566750H	208 273	0.19	0.012	0.14	12040
566751H	208 274	0.15	0.032	0.24	4800
566752H	208 273	0.12	0.022	0.10	12300
566753H	208 273	0.12	0.040	0.14	14160
566754H	208 273	0.07	0.020	0.07	12620
566755H	208 273	0.09	0.008	0.17	12360
566756H	208 273	0.20	0.019	0.34	12820

CERTIFICATION: David Reimer

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Y1A 3S9

Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
Total Pages :4
Certificate Date: 10-OCT-93
Invoice No. :19322073
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322073

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566757H	208 276	0.08	0.018	0.07	11040
566758H	208 273	0.20	0.015	0.14	13520
566759H	208 273	0.08	0.027	0.07	12840
566760H	208 276	0.09	0.020	0.07	8480
566761H	208 276	0.09	0.022	0.10	11540
566762H	208 274	0.06	0.021	0.07	6600
566763H	208 276	0.14	0.036	0.10	11580
566764H	208 273	0.21	0.047	0.21	12100
566765H	208 273	0.11	0.030	0.14	11820
566766H	208 276	0.14	0.020	0.14	10600
566767H	208 274	0.13	0.048	0.10	6580
566768H	208 273	0.13	0.033	0.14	12140
566769H	208 276	0.11	0.045	0.10	11460
566770H	208 276	0.06	0.066	0.07	11180
566771H	208 273	0.08	0.035	0.10	12060
566772H	208 273	0.16	0.025	0.10	12220
566773H	208 273	0.11	0.065	0.10	13020
566774H	208 273	0.15	0.018	0.10	12780
566775H	208 273	0.10	0.011	0.07	12620
566776H	208 273	0.06	0.060	0.03	13080
566777H	208 273	0.08	0.021	0.07	13740
566778H	208 273	0.08	0.026	0.03	14140
566779H	208 273	0.05	0.005	0.03	14040
566780H	208 273	0.07	0.004	0.07	14060
566781H	208 273	0.12	0.012	0.10	14000
566782H	208 273	0.12	0.010	0.10	14140
566783H	208 273	0.09	0.042	0.07	14800
566784H	208 273	0.11	0.043	0.10	14340
566785H	208 273	0.11	0.025	0.10	13960
566786H	208 273	0.09	0.015	0.41	14460
566787H	208 273	0.11	0.011	0.14	13780
566788H	208 273	0.11	0.038	0.10	14340
566789H	208 273	0.08	0.008	0.07	13440
566790H	208 273	0.10	0.013	0.10	13200
566791H	208 273	0.07	0.061	0.07	13040
566792H	208 273	0.21	0.018	0.21	13700
566793H	208 273	0.13	0.016	0.10	13260
566794H	208 273	0.14	0.027	0.10	12950
566795H	208 273	0.07	0.017	0.10	12460
566796H	208 273	0.10	0.029	0.07	14480

CERTIFICATION: Sinclair

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-OCT-93
Invoice No. :19322073
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322073

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
566797H	208	273	0.12	0.021	0.10	13320						
566798H	208	273	0.18	0.017	0.17	14020						
566799H	208	273	0.12	0.011	0.14	13480						
566800H	208	273	0.07	0.012	0.07	14860						
566801H	208	273	0.11	0.065	0.10	13620						
566802H	208	273	0.10	0.022	0.10	13600						
566803H	208	273	0.08	0.026	0.10	14120						
566804H	208	273	0.08	0.014	0.10	14840						
566805H	208	273	0.09	0.018	0.07	13980						
566806H	208	273	0.06	0.024	0.03	14100						
566807H	208	273	0.06	0.027	< 0.03	13920						
566808H	208	273	0.07	0.057	0.07	14300						

CERTIFICATION: David Tetreault

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. :I9322074
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322074

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566677H	299	229	2.0	2.25	2	180	< 0.5	< 2	0.74	< 0.5	26	57	6040	4.08	< 10	< 1	1.15	20	1.87	175	64
566678H	299	229	1.2	2.84	2	410	< 0.5	< 2	1.44	< 0.5	16	76	2810	3.45	< 10	< 1	1.10	20	1.96	315	67
566679H	299	229	0.8	2.80	2	350	< 0.5	< 2	1.16	< 0.5	21	57	2470	4.19	10	< 1	1.04	10	2.18	285	53
566680H	299	229	0.4	2.75	2	410	< 0.5	< 2	1.42	< 0.5	20	87	1775	4.52	< 10	< 1	1.21	20	1.95	220	38
566681H	299	229	0.8	2.60	2	260	< 0.5	< 2	0.83	< 0.5	21	70	2540	3.97	< 10	< 1	1.19	10	2.04	170	20
566682H	299	229	0.8	2.67	2	160	< 0.5	< 2	1.37	< 0.5	21	81	2460	3.75	< 10	< 1	1.19	20	1.93	170	78
566683H	299	229	0.8	2.14	22	160	< 0.5	< 2	2.74	< 0.5	19	50	1685	3.48	< 10	< 1	0.83	10	1.52	360	184
566684H	299	229	1.2	2.07	32	220	< 0.5	2	2.53	< 0.5	15	54	1315	2.71	< 10	< 1	0.57	20	1.04	380	37
566685H	299	229	58.2	1.59	420	150	< 0.5	2	3.87	61.5	18	46	2350	3.43	< 10	< 1	0.61	10	1.04	600	57
566686H	299	229	90.4	1.92	500	130	< 0.5	< 2	2.25	5.5	25	89	5240	2.95	< 10	7	0.85	20	1.30	410	83
566687H	299	229	0.6	1.81	4	330	< 0.5	< 2	0.65	< 0.5	12	82	1055	3.04	< 10	< 1	0.80	10	1.38	125	16
566688H	299	229	2.0	2.58	16	470	< 0.5	< 2	1.83	< 0.5	14	100	1435	3.45	< 10	< 1	0.91	20	1.56	330	21
566689H	299	229	0.8	2.39	2	380	< 0.5	2	1.25	< 0.5	18	52	1945	3.77	< 10	< 1	0.85	20	1.62	250	26
566690H	299	229	0.8	2.33	2	390	< 0.5	< 2	0.85	< 0.5	17	81	1800	3.42	< 10	< 1	1.01	20	1.60	175	15
566691H	299	229	1.2	2.03	12	410	< 0.5	< 2	1.17	< 0.5	14	39	1850	3.08	< 10	< 1	0.95	10	1.51	215	46
566692H	299	229	0.6	2.65	2	600	< 0.5	< 2	0.96	< 0.5	16	62	1965	4.07	< 10	< 1	1.24	10	1.80	240	55
566693H	299	229	1.4	2.22	2	300	< 0.5	< 2	2.04	< 0.5	17	37	3700	3.17	< 10	< 1	0.89	10	1.58	320	113
566694H	299	229	0.8	2.15	2	400	< 0.5	< 2	1.35	< 0.5	14	80	2790	2.60	< 10	< 1	0.80	10	1.44	285	62
566695H	299	229	0.6	2.34	2	420	< 0.5	< 2	1.31	< 0.5	18	50	1905	3.43	< 10	< 1	0.93	10	1.69	340	70
566696H	299	229	1.4	2.64	4	330	< 0.5	< 2	1.46	< 0.5	15	58	2340	3.41	< 10	< 1	0.92	20	1.46	550	68
566697H	299	229	53.0	1.06	520	130	< 0.5	< 2	2.28	10.0	10	51	2780	1.67	< 10	2	0.29	20	0.51	885	153
566698H	299	229	3.4	1.15	36	190	< 0.5	< 2	1.97	< 0.5	7	108	1180	1.27	< 10	1	0.41	20	0.38	495	31
566699H	299	229	2.0	0.65	12	180	< 0.5	4	2.78	1.0	8	53	931	1.44	< 10	< 1	0.21	10	0.16	420	12
566700H	299	229	2.0	1.43	42	180	0.5	2	3.12	< 0.5	9	67	1890	2.06	< 10	1	0.37	20	0.42	440	75
566701H	299	229	0.8	1.52	2	270	0.5	< 2	1.89	< 0.5	10	67	1590	2.08	< 10	1	0.52	20	0.78	195	20
566702H	299	229	0.8	2.44	4	270	< 0.5	< 2	1.76	< 0.5	17	70	3270	2.96	< 10	< 1	0.74	20	1.45	165	1120
566703H	299	229	2.4	1.72	12	170	< 0.5	< 2	2.61	< 0.5	13	49	5990	2.20	< 10	< 1	0.51	20	1.08	230	179
566704H	299	229	1.0	1.59	2	340	< 0.5	< 2	1.43	< 0.5	9	110	2400	1.88	< 10	< 1	0.47	20	0.95	240	54
566705H	299	229	2.4	1.75	20	240	< 0.5	< 2	1.90	1.0	9	62	1440	2.72	< 10	< 1	0.59	20	1.17	285	15
566706H	299	229	45.6	1.41	294	100	< 0.5	< 2	2.22	40.5	12	73	2240	2.94	< 10	1	0.40	20	0.62	935	381
566707H	299	229	0.8	0.49	8	320	< 0.5	< 2	1.21	< 0.5	5	52	2080	0.83	< 10	1	0.11	30	0.08	115	40
566708H	299	229	0.6	0.65	6	360	< 0.5	< 2	1.11	< 0.5	5	107	1265	0.79	< 10	< 1	0.22	30	0.07	85	81
566709H	299	229	0.2	0.67	4	260	< 0.5	< 2	1.07	< 0.5	6	73	851	1.08	< 10	< 1	0.25	30	0.32	80	49
566710H	299	229	0.4	2.42	2	640	< 0.5	< 2	1.00	< 0.5	13	107	1400	3.41	< 10	< 1	1.20	20	1.57	170	106
566711H	299	229	0.4	2.20	2	660	< 0.5	2	0.61	< 0.5	15	54	1475	3.69	< 10	1	1.22	20	1.72	175	50
566712H	299	229	0.2	2.24	2	150	< 0.5	< 2	1.95	< 0.5	13	98	1055	3.75	< 10	< 1	1.11	20	1.73	200	189
566713H	299	229	0.4	2.23	2	280	< 0.5	< 2	1.53	< 0.5	13	72	1255	3.67	< 10	1	1.10	20	1.54	240	47
566714H	299	229	1.2	1.77	50	280	0.5	< 2	2.45	< 0.5	12	151	2350	1.76	< 10	< 1	0.48	20	0.62	620	503
566715H	299	229	0.4	1.65	4	200	< 0.5	2	1.90	< 0.5	11	57	1685	2.17	< 10	1	0.58	20	0.95	285	54
566716H	299	229	0.4	1.84	2	230	< 0.5	< 2	1.04	< 0.5	10	113	1060	2.71	< 10	< 1	0.72	20	1.10	160	34

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :4
Certificate Date: 08-OCT-93
Invoice No. :19322074
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322074

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566677H	299	229	0.07	8	760	8	< 2	17	20	0.21	< 10	< 10	143	10	38
566678H	299	229	0.08	7	800	4	2	16	35	0.18	< 10	< 10	132	10	44
566679H	299	229	0.08	8	880	6	< 2	18	205	0.21	< 10	< 10	157	10	40
566680H	299	229	0.11	3	770	< 2	2	18	58	0.22	< 10	< 10	144	10	38
566681H	299	229	0.10	4	760	2	2	18	28	0.23	< 10	< 10	152	< 10	36
566682H	299	229	0.12	4	800	2	4	18	42	0.22	< 10	< 10	147	10	34
566683H	299	229	0.07	5	890	8	4	11	55	0.14	< 10	< 10	104	10	34
566684H	299	229	0.04	5	730	20	8	9	35	0.06	< 10	< 10	81	< 10	34
566685H	299	229	0.03	6	760	1750	194	9	26	0.08	< 10	< 10	75	10	4180
566686H	299	229	0.06	7	910	< 2	234	11	31	0.13	< 10	< 10	92	10	204
566687H	299	229	0.09	7	740	10	2	12	22	0.19	< 10	< 10	103	< 10	28
566688H	299	229	0.09	5	760	8	6	14	42	0.18	< 10	< 10	114	< 10	36
566689H	299	229	0.07	6	780	6	< 2	14	42	0.21	< 10	< 10	118	< 10	34
566690H	299	229	0.14	4	590	4	2	16	59	0.26	< 10	< 10	139	< 10	26
566691H	299	229	0.07	4	670	< 2	4	15	54	0.21	< 10	< 10	119	< 10	22
566692H	299	229	0.13	4	740	6	2	18	56	0.31	< 10	< 10	162	10	28
566693H	299	229	0.05	6	670	2	4	13	32	0.15	< 10	< 10	118	< 10	34
566694H	299	229	0.08	5	490	6	4	13	39	0.16	< 10	< 10	105	< 10	22
566695H	299	229	0.06	5	600	8	2	14	35	0.19	< 10	< 10	121	< 10	28
566696H	299	229	0.07	4	590	12	2	13	43	0.15	< 10	< 10	106	< 10	46
566697H	299	229	0.02	3	350	416	234	3	41	0.01	< 10	< 10	26	< 10	472
566698H	299	229	0.05	4	310	20	10	3	32	0.01	< 10	< 10	23	< 10	44
566699H	299	229	0.02	2	280	36	2	2	44	< 0.01	< 10	< 10	12	< 10	106
566700H	299	229	0.02	3	430	18	4	6	53	0.01	< 10	< 10	35	< 10	32
566701H	299	229	0.04	4	410	8	2	7	42	0.06	< 10	< 10	50	< 10	28
566702H	299	229	0.06	4	570	12	4	10	43	0.11	< 10	< 10	90	< 10	28
566703H	299	229	0.03	6	460	10	4	8	60	0.07	< 10	< 10	66	< 10	30
566704H	299	229	0.06	3	380	12	< 2	6	59	0.06	< 10	< 10	58	< 10	36
566705H	299	229	0.07	3	600	12	8	9	72	0.10	< 10	< 10	83	< 10	104
566706H	299	229	0.03	3	730	652	92	10	57	0.03	< 10	< 10	53	10	2580
566707H	299	229	0.02	1	170	12	8	1	44	< 0.01	< 10	< 10	3	< 10	24
566708H	299	229	0.03	1	150	14	2	< 1	46	< 0.01	< 10	< 10	2	< 10	26
566709H	299	229	0.04	2	190	8	< 2	2	32	0.01	< 10	< 10	17	< 10	16
566710H	299	229	0.15	3	690	2	< 2	15	44	0.25	< 10	< 10	125	< 10	32
566711H	299	229	0.11	4	670	2	< 2	16	29	0.29	< 10	< 10	137	< 10	34
566712H	299	229	0.12	3	680	2	2	17	46	0.31	< 10	< 10	140	< 10	32
566713H	299	229	0.09	4	690	4	2	14	42	0.24	< 10	< 10	123	< 10	32
566714H	299	229	0.02	4	340	8	12	7	47	0.04	< 10	< 10	46	< 10	26
566715H	299	229	0.03	4	530	2	2	8	38	0.07	< 10	< 10	61	< 10	22
566716H	299	229	0.06	4	690	8	< 2	9	31	0.13	< 10	< 10	76	< 10	26

CERTIFICATION: David Bichler

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. : I9322074
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9322074

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566717H	299	229	0.4	2.26	2	370	< 0.5	< 2	0.74	< 0.5	19	77	1430	3.90	< 10	< 1	1.18	20	1.56	155	23
566718H	299	229	0.4	1.48	2	250	< 0.5	2	1.61	< 0.5	12	105	1740	2.34	< 10	< 1	0.57	30	0.83	180	68
566719H	299	229	0.6	2.02	2	280	< 0.5	2	1.68	< 0.5	12	132	2070	2.56	< 10	< 1	0.81	20	1.23	200	40
566720H	299	229	0.6	2.13	4	250	< 0.5	2	2.49	< 0.5	15	126	1850	3.00	< 10	< 1	0.84	20	1.23	290	49
566721H	299	229	33.2	2.08	370	80	< 0.5	8	2.82	4.0	15	123	2160	3.85	< 10	< 1	0.66	20	1.03	690	14
566722H	299	229	1.8	1.86	2	130	< 0.5	< 2	2.22	< 0.5	14	129	2700	2.36	< 10	< 1	0.85	10	1.33	145	250
566723H	299	229	1.2	1.76	4	110	< 0.5	14	1.86	< 0.5	12	158	1580	2.93	< 10	< 1	0.69	20	1.30	255	33
566724H	299	229	0.6	2.01	2	130	< 0.5	< 2	1.84	< 0.5	16	134	2070	2.85	< 10	< 1	1.03	10	1.43	130	86
566725H	299	229	< 0.2	2.27	4	190	< 0.5	< 2	2.20	< 0.5	13	118	849	2.99	< 10	< 1	0.84	10	1.45	160	12
566726H	299	229	0.2	2.73	2	160	< 0.5	< 2	2.54	< 0.5	16	118	1425	3.41	< 10	< 1	1.10	10	2.09	200	99
566727H	299	229	0.2	2.68	4	170	< 0.5	< 2	2.97	< 0.5	16	107	1100	3.33	< 10	< 1	0.93	10	1.86	245	138
566728H	299	229	0.4	1.93	8	60	< 0.5	< 2	1.75	< 0.5	13	140	1080	3.81	< 10	< 1	0.78	20	1.21	150	45
566729H	299	229	0.4	1.78	2	170	< 0.5	< 2	1.97	< 0.5	12	165	1365	2.65	< 10	1	0.79	10	1.30	160	33
566730H	299	229	0.4	1.92	4	280	< 0.5	< 2	1.99	< 0.5	11	165	1555	2.22	< 10	< 1	0.80	20	1.24	115	27
566731H	299	229	0.2	2.48	2	260	< 0.5	< 2	2.16	< 0.5	13	173	907	2.87	< 10	< 1	0.77	20	1.60	175	38
566732H	299	229	< 0.2	3.00	2	360	< 0.5	< 2	2.49	< 0.5	18	143	1260	3.66	< 10	< 1	1.13	10	2.02	225	35
566733H	299	229	< 0.2	3.86	2	120	< 0.5	< 2	2.90	< 0.5	20	125	1505	4.07	< 10	< 1	1.56	10	2.24	200	56
566734H	299	229	0.2	2.15	2	300	< 0.5	< 2	1.94	< 0.5	13	155	867	2.73	< 10	< 1	0.81	20	1.31	155	25
566735H	299	229	0.4	2.43	2	130	< 0.5	< 2	2.15	< 0.5	16	131	1730	3.60	< 10	< 1	1.41	20	1.95	175	97
566736H	299	229	< 0.2	2.33	2	170	< 0.5	< 2	2.03	< 0.5	16	116	1970	3.77	< 10	< 1	1.29	10	1.85	170	43
566737H	299	229	0.8	2.12	4	180	< 0.5	< 2	1.78	0.5	15	165	1660	3.33	< 10	< 1	1.10	20	1.55	160	25
566738H	299	229	1.4	2.45	2	250	< 0.5	2	1.76	1.5	16	154	1820	3.39	< 10	< 1	1.27	20	1.84	165	53
566739H	299	229	0.8	2.70	2	310	< 0.5	< 2	1.85	< 0.5	18	227	1900	3.54	< 10	< 1	1.31	20	1.92	200	32
566740H	299	229	0.6	1.87	2	190	< 0.5	2	1.80	< 0.5	13	172	1385	2.26	< 10	< 1	0.73	20	1.15	130	56
566741H	299	229	0.4	2.34	2	340	< 0.5	< 2	1.88	< 0.5	12	204	1185	2.88	< 10	< 1	1.10	20	1.47	175	105
566742H	299	229	3.0	3.23	8	190	< 0.5	2	3.46	< 0.5	17	98	2550	3.79	< 10	< 1	0.95	10	2.02	635	193
566743H	299	229	0.6	3.86	2	460	< 0.5	< 2	2.37	< 0.5	17	107	769	3.62	< 10	< 1	1.22	10	2.46	390	63
566744H	299	229	1.0	3.11	2	390	< 0.5	< 2	2.75	< 0.5	15	149	1085	3.39	< 10	< 1	0.93	20	2.25	310	148
566745H	299	229	0.8	2.58	2	220	< 0.5	< 2	2.29	< 0.5	14	111	2150	2.95	< 10	< 1	1.23	20	1.93	200	201
566746H	299	229	0.6	2.71	2	500	< 0.5	2	2.02	< 0.5	16	114	1060	3.91	< 10	< 1	1.15	20	1.88	280	64
566747H	299	229	0.4	2.74	2	640	< 0.5	< 2	3.88	< 0.5	16	77	1125	3.36	< 10	< 1	1.13	20	1.64	430	205
566748H	299	229	0.4	2.73	2	340	< 0.5	< 2	2.76	< 0.5	18	119	565	3.93	< 10	< 1	1.19	10	1.94	465	40
566749H	299	229	18.2	1.32	770	20	< 0.5	22	4.80	3.5	19	97	2020	5.91	< 10	1	0.39	< 10	0.40	1640	51
566750H	299	229	3.6	1.90	280	250	0.5	< 2	6.73	< 0.5	22	86	1870	3.02	< 10	< 1	0.29	< 10	0.38	1155	58
566751H	299	229	11.8	1.11	370	160	< 0.5	14	6.08	1.0	17	111	1505	3.77	< 10	< 1	0.24	< 10	0.40	1700	166
566752H	299	229	1.4	2.42	32	180	0.5	< 2	3.66	< 0.5	18	84	1235	2.75	10	< 1	0.46	20	0.78	460	121
566753H	299	229	1.8	2.37	14	120	< 0.5	2	6.50	< 0.5	20	75	1260	3.73	< 10	< 1	0.65	< 10	1.31	920	215
566754H	299	229	0.8	3.19	4	150	< 0.5	< 2	5.67	< 0.5	21	90	667	3.80	< 10	< 1	0.84	< 10	2.03	670	85
566755H	299	229	1.2	3.48	6	150	< 0.5	< 2	5.49	< 0.5	21	83	889	4.49	< 10	< 1	0.93	< 10	1.86	1035	39
566756H	299	229	14.8	1.09	440	10	< 0.5	52	4.82	3.5	15	91	2060	7.24	< 10	< 1	0.35	< 10	0.28	2070	96

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
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566717H	299	229	0.14	6	950	8	2	14	34	0.28	< 10	< 10	119	< 10	34
566718H	299	229	0.06	4	550	10	2	7	45	0.08	< 10	< 10	58	< 10	24
566719H	299	229	0.08	4	650	6	2	11	81	0.13	< 10	< 10	84	< 10	34
566720H	299	229	0.07	4	610	8	< 2	13	65	0.14	< 10	< 10	99	< 10	32
566721H	299	229	0.09	3	630	258	108	10	62	0.08	< 10	< 10	78	10	226
566722H	299	229	0.10	4	530	6	2	12	53	0.15	< 10	< 10	102	< 10	26
566723H	299	229	0.08	7	530	6	2	11	42	0.12	< 10	< 10	88	10	40
566724H	299	229	0.11	6	620	2	2	13	51	0.21	< 10	< 10	107	10	24
566725H	299	229	0.13	7	580	10	2	13	76	0.23	< 10	< 10	107	10	28
566726H	299	229	0.13	14	800	6	2	18	178	0.24	< 10	< 10	127	10	34
566727H	299	229	0.12	12	770	8	2	15	109	0.25	< 10	< 10	125	10	40
566728H	299	229	0.13	6	630	12	2	12	90	0.20	< 10	< 10	97	10	46
566729H	299	229	0.12	7	570	18	4	12	70	0.20	< 10	< 10	102	10	46
566730H	299	229	0.16	8	390	24	< 2	13	137	0.19	< 10	< 10	86	10	44
566731H	299	229	0.21	12	450	6	< 2	13	122	0.23	< 10	< 10	111	10	30
566732H	299	229	0.24	13	690	8	4	18	133	0.33	< 10	< 10	165	10	38
566733H	299	229	0.32	12	850	8	< 2	21	153	0.37	< 10	< 10	195	10	40
566734H	299	229	0.20	9	570	4	2	12	76	0.22	< 10	< 10	97	10	26
566735H	299	229	0.15	10	820	8	4	20	61	0.33	< 10	< 10	159	10	34
566736H	299	229	0.16	8	810	6	2	19	105	0.30	< 10	< 10	153	10	34
566737H	299	229	0.15	9	690	24	2	15	64	0.28	< 10	< 10	124	10	60
566738H	299	229	0.17	12	760	82	4	17	63	0.30	< 10	< 10	140	20	144
566739H	299	229	0.19	21	550	12	6	17	76	0.27	< 10	< 10	132	20	36
566740H	299	229	0.10	8	500	14	2	12	63	0.13	< 10	< 10	81	10	30
566741H	299	229	0.14	13	420	4	2	14	85	0.24	< 10	< 10	116	10	26
566742H	299	229	0.09	9	720	24	< 2	15	67	0.15	< 10	< 10	134	20	86
566743H	299	229	0.15	14	650	8	6	14	86	0.23	< 10	< 10	133	10	44
566744H	299	229	0.09	27	610	8	4	14	65	0.14	< 10	< 10	113	10	54
566745H	299	229	0.11	9	610	4	< 2	15	52	0.22	< 10	< 10	125	10	28
566746H	299	229	0.12	11	590	12	< 2	16	58	0.26	< 10	< 10	147	10	36
566747H	299	229	0.08	5	630	2	2	15	86	0.18	< 10	< 10	130	10	30
566748H	299	229	0.12	11	510	16	2	21	77	0.25	< 10	< 10	160	20	46
566749H	299	229	0.02	11	550	150	134	10	70	0.01	< 10	< 10	48	20	280
566750H	299	229	0.01	16	800	16	26	20	84	0.01	< 10	< 10	100	10	90
566751H	299	229	0.01	9	880	180	60	14	61	< 0.01	< 10	< 10	68	20	164
566752H	299	229	0.06	7	830	8	6	12	145	0.05	< 10	< 10	88	10	44
566753H	299	229	0.06	9	730	6	6	9	121	0.06	< 10	< 10	91	20	66
566754H	299	229	0.11	11	630	2	4	14	118	0.14	< 10	< 10	145	20	74
566755H	299	229	0.13	12	810	2	2	21	161	0.19	< 10	< 10	176	20	76
566756H	299	229	0.01	11	690	292	36	9	101	< 0.01	< 10	< 10	50	20	344

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566757H	299	229	5.8	0.68	180	90	< 0.5	6	1.62	5.0	4	104	809	2.01	< 10	< 1	0.30	< 10	0.15	825	104
566758H	299	229	37.2	0.62	634	30	< 0.5	20	1.36	87.5	3	137	2200	2.28	< 10	< 1	0.30	< 10	0.06	570	88
566759H	299	229	2.6	0.77	20	190	< 0.5	2	1.92	0.5	4	99	1055	0.91	< 10	< 1	0.19	10	0.15	285	148
566760H	299	229	0.6	0.81	2	570	< 0.5	2	1.82	0.5	3	117	882	0.55	10	< 1	0.19	10	0.24	90	111
566761H	299	229	0.8	0.97	4	400	0.5	< 2	1.92	< 0.5	5	110	930	0.72	10	< 1	0.19	10	0.32	100	134
566762H	299	229	0.4	0.71	< 2	410	< 0.5	< 2	1.61	< 0.5	4	157	618	0.59	10	< 1	0.18	20	0.25	100	110
566763H	299	229	0.4	2.90	< 2	170	< 0.5	< 2	3.22	< 0.5	11	110	1285	2.52	10	< 1	1.27	< 10	1.86	200	179
566764H	299	229	1.2	2.39	< 2	240	< 0.5	< 2	1.76	0.5	13	144	1990	2.53	10	< 1	1.04	< 10	1.57	130	242
566765H	299	229	0.2	3.35	< 2	180	< 0.5	< 2	2.28	< 0.5	16	124	1100	3.27	10	1	1.47	< 10	2.28	175	156
566766H	299	229	0.2	5.19	< 2	240	< 0.5	< 2	3.37	0.5	18	121	1330	3.45	10	< 1	1.47	< 10	2.44	220	90
566767H	299	229	0.4	2.12	< 2	200	< 0.5	< 2	1.39	< 0.5	9	188	1255	2.14	10	< 1	0.85	10	1.38	120	270
566768H	299	229	0.4	1.90	< 2	160	< 0.5	< 2	1.18	< 0.5	8	180	1285	1.86	10	< 1	0.79	< 10	1.25	100	180
566769H	299	229	0.8	1.83	< 2	190	< 0.5	< 2	1.79	< 0.5	8	181	1090	1.63	10	< 1	0.75	< 10	1.14	100	258
566770H	299	229	0.6	0.86	2	350	< 0.5	< 2	1.05	< 0.5	6	230	620	0.58	10	< 1	0.27	20	0.07	40	421
566771H	299	229	0.6	0.76	4	250	< 0.5	2	1.02	< 0.5	3	183	835	0.57	< 10	< 1	0.25	20	0.18	40	217
566772H	299	229	0.6	5.21	< 2	260	< 0.5	< 2	3.74	0.5	16	151	1560	3.75	10	< 1	1.58	< 10	2.82	265	117
566773H	299	229	< 0.2	5.79	< 2	270	< 0.5	< 2	4.37	0.5	18	149	1090	3.80	< 10	1	1.44	< 10	2.46	240	345
566774H	299	229	0.2	5.95	< 2	330	< 0.5	< 2	4.15	0.5	20	157	1585	4.08	10	1	1.77	< 10	2.62	240	87
566775H	299	229	0.6	3.04	< 2	220	< 0.5	< 2	2.54	0.5	14	174	1050	2.23	10	< 1	0.92	< 10	1.36	135	52
566776H	299	229	< 0.2	5.68	< 2	280	< 0.5	< 2	4.38	0.5	16	156	629	3.45	< 10	1	1.80	< 10	2.60	225	307
566777H	299	229	< 0.2	5.01	< 2	350	0.5	< 2	3.83	< 0.5	15	156	778	3.10	10	2	1.18	< 10	1.96	245	99
566778H	299	229	< 0.2	5.42	< 2	220	< 0.5	< 2	4.38	0.5	17	125	747	3.61	< 10	< 1	1.29	< 10	2.19	215	134
566779H	299	229	< 0.2	5.18	< 2	380	< 0.5	< 2	3.74	0.5	14	105	476	3.33	10	< 1	1.17	< 10	2.00	205	22
566780H	299	229	< 0.2	5.56	< 2	380	< 0.5	< 2	3.94	< 0.5	15	115	643	4.09	10	1	1.16	< 10	2.08	220	21
566781H	299	229	< 0.2	3.29	< 2	280	< 0.5	< 2	2.80	0.5	13	115	1115	3.49	10	< 1	1.26	< 10	1.80	155	62
566782H	299	229	0.2	2.35	< 2	280	< 0.5	< 2	1.94	0.5	10	122	1205	2.57	10	< 1	0.96	< 10	1.32	115	55
566783H	299	229	< 0.2	3.57	< 2	260	1.5	< 2	3.04	< 0.5	12	144	868	3.04	10	< 1	1.18	< 10	1.78	185	213
566784H	299	229	< 0.2	5.22	< 2	390	< 0.5	< 2	3.83	0.5	14	99	1145	4.26	10	< 1	1.57	< 10	2.49	275	236
566785H	299	229	0.4	3.06	< 2	370	< 0.5	< 2	2.35	< 0.5	11	117	1150	3.19	10	< 1	1.11	< 10	1.63	190	148
566786H	299	229	0.2	3.27	< 2	160	< 0.5	< 2	2.69	< 0.5	12	114	887	3.56	10	< 1	1.19	< 10	1.70	200	81
566787H	299	229	0.2	2.92	< 2	180	0.5	< 2	2.46	< 0.5	16	99	1080	3.39	10	< 1	1.15	< 10	1.59	195	61
566788H	299	229	0.2	2.98	< 2	130	0.5	< 2	2.58	< 0.5	13	103	1185	3.90	10	< 1	1.10	< 10	1.66	215	206
566789H	299	229	< 0.2	2.71	< 2	440	< 0.5	< 2	1.97	< 0.5	12	121	753	4.01	20	< 1	1.00	< 10	1.41	235	36
566790H	299	229	0.2	2.48	< 2	170	< 0.5	< 2	2.01	< 0.5	12	120	928	3.60	10	< 1	1.14	< 10	1.50	165	65
566791H	299	229	0.2	2.52	20	90	< 0.5	< 2	2.12	< 0.5	12	109	686	4.52	10	< 1	1.11	< 10	1.49	180	330
566792H	299	229	0.2	3.26	< 2	140	< 0.5	< 2	2.41	< 0.5	15	114	2080	3.70	10	< 1	1.84	< 10	2.16	180	102
566793H	299	229	0.6	3.09	< 2	180	< 0.5	< 2	2.57	< 0.5	13	138	1280	3.57	10	< 1	1.31	< 10	1.80	230	85
566794H	299	229	1.4	2.31	< 2	350	< 0.5	< 2	1.97	1.5	13	137	1480	2.47	10	< 1	1.00	< 10	1.30	155	159
566795H	299	229	< 0.2	4.03	< 2	300	< 0.5	< 2	3.33	0.5	15	122	668	4.01	< 10	< 1	1.30	< 10	2.11	275	90
566796H	299	229	< 0.2	3.16	< 2	110	< 0.5	< 2	2.44	0.5	15	134	946	3.97	< 10	< 1	1.41	< 10	2.00	255	159

CERTIFICATION: Stewart Buchan

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Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :4
Certificate Date: 08-OCT-93
Invoice No. :19322074
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322074

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566757H	299	229	0.01	3	180	98	44	1	31	< 0.01	< 10	< 10	3	< 10	182
566758H	299	229	0.01	2	160	1405	208	< 1	32	< 0.01	< 10	< 10	1	10	2470
566759H	299	229	0.03	2	170	30	6	1	62	< 0.01	< 10	< 10	3	< 10	38
566760H	299	229	0.04	2	160	20	< 2	1	93	< 0.01	< 10	< 10	5	< 10	32
566761H	299	229	0.04	2	200	28	2	1	69	< 0.01	< 10	< 10	9	< 10	24
566762H	299	229	0.05	2	160	12	2	1	69	< 0.01	< 10	< 10	7	< 10	16
566763H	299	229	0.13	9	360	4	2	20	116	0.21	< 10	< 10	149	10	28
566764H	299	229	0.10	7	450	4	2	16	69	0.17	< 10	< 10	114	< 10	24
566765H	299	229	0.26	10	600	2	6	20	100	0.28	< 10	< 10	149	10	36
566766H	299	229	0.46	14	610	2	4	17	209	0.27	< 10	< 10	150	10	42
566767H	299	229	0.13	4	450	10	4	13	51	0.15	< 10	< 10	86	< 10	30
566768H	299	229	0.11	5	390	6	2	13	45	0.15	< 10	< 10	86	< 10	24
566769H	299	229	0.10	4	380	22	2	11	46	0.11	< 10	< 10	76	< 10	26
566770H	299	229	0.06	5	250	12	2	3	35	< 0.01	< 10	< 10	10	< 10	16
566771H	299	229	0.04	3	240	10	2	2	34	< 0.01	< 10	< 10	10	< 10	18
566772H	299	229	0.40	13	580	< 2	2	22	200	0.30	< 10	< 10	177	10	56
566773H	299	229	0.56	14	650	2	6	18	428	0.31	< 10	< 10	166	10	40
566774H	299	229	0.61	14	630	4	2	20	287	0.33	< 10	< 10	181	10	44
566775H	299	229	0.29	8	360	16	< 2	12	150	0.17	< 10	< 10	90	< 10	32
566776H	299	229	0.45	12	580	4	4	22	349	0.32	< 10	< 10	171	10	44
566777H	299	229	0.44	13	550	6	2	14	304	0.26	< 10	< 10	136	20	42
566778H	299	229	0.52	11	610	2	2	18	313	0.30	< 10	< 10	174	20	38
566779H	299	229	0.56	10	660	< 2	< 2	16	295	0.29	< 10	< 10	174	20	34
566780H	299	229	0.61	10	740	2	4	16	260	0.31	< 10	< 10	195	20	40
566781H	299	229	0.31	7	670	< 2	< 2	18	141	0.27	< 10	< 10	143	20	32
566782H	299	229	0.22	3	900	10	< 2	11	136	0.20	< 10	< 10	89	10	38
566783H	299	229	0.36	9	610	2	< 2	14	192	0.22	< 10	< 10	128	10	30
566784H	299	229	0.43	9	810	< 2	< 2	19	325	0.33	< 10	< 10	172	20	40
566785H	299	229	0.28	5	920	< 2	< 2	14	209	0.25	< 10	< 10	115	10	30
566786H	299	229	0.28	4	1070	< 2	< 2	15	180	0.26	< 10	< 10	125	10	30
566787H	299	229	0.24	4	1080	< 2	< 2	13	180	0.24	< 10	< 10	115	10	28
566788H	299	229	0.25	2	1140	< 2	< 2	14	221	0.24	< 10	< 10	121	10	30
566789H	299	229	0.28	2	990	< 2	< 2	11	144	0.22	< 10	< 10	118	10	30
566790H	299	229	0.24	3	830	2	< 2	15	125	0.25	< 10	< 10	131	10	30
566791H	299	229	0.23	3	1280	4	4	13	139	0.26	< 10	< 10	122	20	30
566792H	299	229	0.29	9	920	2	2	24	135	0.37	< 10	< 10	182	10	38
566793H	299	229	0.32	9	860	6	< 2	17	146	0.28	< 10	< 10	155	10	36
566794H	299	229	0.21	7	620	44	< 2	14	104	0.19	< 10	< 10	112	10	96
566795H	299	229	0.36	9	860	16	< 2	16	181	0.34	< 10	< 10	173	20	72
566796H	299	229	0.29	8	940	< 2	< 2	19	163	0.36	< 10	< 10	175	10	40

CERTIFICATION: Ian A Bradden

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 209
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. :I9322074
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322074

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566797H	299	229	< 0.2	3.28	< 2	150	< 0.5	< 2	2.21	0.5	15	97	1205	4.64	10	< 1	1.48	< 10	2.00	260	118
566798H	299	229	0.4	2.87	< 2	110	< 0.5	< 2	1.97	< 0.5	18	137	1770	4.41	10	< 1	1.62	< 10	2.03	190	92
566799H	299	229	< 0.2	3.57	< 2	170	< 0.5	< 2	2.53	< 0.5	15	97	1220	4.49	10	< 1	1.58	< 10	1.93	245	58
566800H	299	229	< 0.2	3.43	< 2	370	< 0.5	< 2	2.42	< 0.5	14	93	699	4.36	10	< 1	1.38	< 10	1.81	285	65
566801H	299	229	< 0.2	3.19	< 2	90	< 0.5	< 2	2.62	< 0.5	15	72	1070	4.06	10	< 1	1.50	< 10	1.79	180	371
566802H	299	229	0.2	2.90	< 2	100	< 0.5	< 2	1.98	< 0.5	18	80	1025	4.32	10	< 1	1.24	< 10	1.56	240	130
566803H	299	229	0.2	2.82	< 2	140	< 0.5	< 2	2.50	< 0.5	13	97	822	3.61	< 10	< 1	1.20	< 10	1.54	225	145
566804H	299	229	< 0.2	4.02	4	230	< 0.5	< 2	3.57	< 0.5	15	38	789	3.89	< 10	< 1	0.81	< 10	1.69	295	66
566805H	299	229	< 0.2	2.57	< 2	90	< 0.5	< 2	2.20	< 0.5	16	77	862	4.10	< 10	< 1	1.28	< 10	1.74	250	81
566806H	299	229	0.2	3.28	< 2	150	< 0.5	< 2	2.35	0.5	13	74	602	4.46	10	< 1	1.28	< 10	1.79	325	124
566807H	299	229	< 0.2	2.97	< 2	410	< 0.5	< 2	2.36	< 0.5	14	64	566	4.14	10	< 1	1.33	< 10	1.70	245	142
566808H	299	229	< 0.2	3.29	< 2	130	< 0.5	< 2	2.48	< 0.5	14	78	722	4.67	< 10	< 1	1.64	< 10	2.13	295	334

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CERTIFICATE OF ANALYSIS A9322074

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566797H	299	229	0.29	6	1080	< 2	< 2	19	152	0.34	< 10	< 10	176	10	40
566798H	299	229	0.21	11	1050	2	< 2	20	101	0.34	< 10	< 10	165	10	40
566799H	299	229	0.36	3	1150	< 2	2	17	222	0.30	< 10	< 10	161	20	36
566800H	299	229	0.33	3	1150	2	< 2	16	214	0.31	< 10	< 10	163	20	36
566801H	299	229	0.28	4	990	< 2	4	19	219	0.29	< 10	< 10	170	10	30
566802H	299	229	0.26	3	1040	< 2	< 2	15	150	0.27	< 10	< 10	149	10	36
566803H	299	229	0.21	5	940	< 2	< 2	14	152	0.28	< 10	< 10	134	10	34
566804H	299	229	0.29	3	1050	< 2	< 2	15	486	0.28	< 10	< 10	153	10	42
566805H	299	229	0.19	2	810	< 2	< 2	18	156	0.29	< 10	< 10	154	20	36
566806H	299	229	0.27	1	1150	< 2	< 2	15	153	0.28	< 10	< 10	141	10	42
566807H	299	229	0.17	3	1190	< 2	< 2	17	129	0.25	< 10	< 10	139	10	34
566808H	299	229	0.23	2	1160	< 2	4	20	158	0.33	< 10	< 10	160	20	38

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Certificate Date: 08-OCT-93
Invoice No. :I9322075
P.O. Number :
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CERTIFICATE OF ANALYSIS A9322075

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
587777H	208	274	0.02	0.056	0.10	4860
587778H	208	276	0.01	0.064	0.14	7920
587779H	208	276	0.02	0.127	0.14	9260
587780H	208	276	0.05	0.143	0.17	8560
587781H	208	276	0.10	0.055	0.31	9520
587782H	208	276	0.09	0.074	0.34	10200
587783H	208	276	0.04	0.078	0.24	8160
587784H	208	276	0.06	0.077	0.10	9460
587785H	208	276	0.05	0.041	0.31	7520
587786H	208	276	0.09	0.030	0.31	10400
587787H	208	276	0.17	0.064	0.31	8000
587788H	208	276	0.14	0.023	0.31	11120
587789H	208	274	0.10	0.035	0.93	5060
587790H	208	276	0.04	0.029	0.14	11480
587791H	208	276	0.02	0.050	0.31	9800
587792H	208	276	0.02	0.043	0.21	10880
587793H	208	276	0.05	0.053	0.21	11400
587794H	208	276	0.03	0.022	0.24	10340
587795H	208	273	0.02	0.023	0.21	12320
587796H	208	276	0.04	0.071	0.24	10540
587797H	208	276	0.02	0.076	0.10	10980
587798H	208	276	0.03	0.048	0.07	9580
587799H	208	276	0.02	0.058	0.17	11320
587800H	208	276	0.08	0.049	0.31	11020
587801H	208	276	0.36	0.025	0.24	11440
587802H	208	273	0.63	0.087	0.27	11960
587803H	208	276	0.75	0.055	0.34	11000
587804H	208	276	0.41	0.022	0.31	9360
587805H	208	273	0.98	0.041	0.31	11940
587806H	208	273	0.83	0.069	0.31	13180
587807H	208	273	0.57	1.360	0.45	11980
587808H	208	273	0.33	0.040	0.21	12940
587809H	208	276	0.59	0.047	0.27	11520
587810H	208	273	0.52	0.050	0.17	12340
587811H	208	276	0.19	0.036	0.17	10760
587812H	208	276	0.33	0.103	0.17	10120
587813H	208	276	0.45	0.039	0.31	10400
587814H	208	276	0.26	0.062	0.24	10800
587815H	208	276	0.19	0.025	0.14	8320
587816H	208	276	0.20	0.174	0.21	9640

CERTIFICATION: Said Zeinab

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
587817H	208 274	0.14	0.151	0.10	6040
587818H	208 276	0.19	0.033	0.17	11800
587819H	208 276	0.25	0.015	0.24	10260
587820H	208 276	0.14	0.081	0.17	11080
587821H	208 276	0.07	0.216	0.14	11400
587822H	208 273	0.20	0.228	0.14	12140
587823H	208 276	0.26	0.102	0.27	11580
587824H	208 273	0.25	0.120	0.27	12140
587825H	208 273	0.33	0.148	0.41	12040
587826H	208 276	0.32	0.063	0.34	11520
587827H	208 276	0.18	0.041	0.27	11520
587828H	208 276	0.36	0.010	0.38	10320
587829H	208 276	0.33	0.023	0.24	11300
587830H	208 273	0.27	0.031	0.31	12150
587831H	208 273	0.14	0.019	0.17	13250
587832H	208 273	0.16	0.035	0.21	14010
587833H	208 273	0.10	0.016	0.14	12050
587834H	208 273	0.09	0.034	0.07	12020
587835H	208 276	0.13	0.015	0.14	11060
587836H	208 273	0.10	0.016	0.10	12340
587837H	208 276	0.05	0.018	0.07	10140
587838H	208 273	0.11	0.026	0.10	15240
587839H	208 276	0.10	0.014	0.14	11200
587840H	208 273	0.14	0.019	0.21	12460
587841H	208 273	0.11	0.016	0.10	12600
587842H	208 273	0.13	0.020	0.14	15360
587843H	208 273	0.15	0.014	0.10	15260
587844H	208 273	0.09	0.019	0.10	13900
587845H	208 274	0.07	0.060	0.07	7160
587846H	208 273	0.09	0.022	0.07	12920
587847H	208 273	0.08	0.019	0.10	14140
587848H	208 273	0.05	0.032	0.03	12240
587849H	208 273	0.14	0.017	0.21	12360
587850H	208 276	0.13	0.014	0.14	9620
587851H	208 274	0.12	0.015	0.10	6480
587852H	208 273	0.16	0.035	0.21	14080
587853H	208 273	0.13	0.008	0.17	13670
587854H	208 276	0.15	0.012	0.17	9460
587855H	208 273	0.14	0.012	0.10	12280
587856H	208 274	0.15	0.070	0.17	6740

CERTIFICATION: Said Zeinab

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Project : CASINO 210
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :2
Certificate Date: 08-OCT-93
Invoice No. :19322076
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322076

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587777H	299	229	1.2	0.35	4	170	< 0.5	4	0.02	< 0.5	1	117	246	0.99	< 10	< 1	0.27	40	0.02	15	361
587778H	299	229	1.6	0.21	46	480	< 0.5	8	0.03	< 0.5	< 1	52	168	0.90	< 10	< 1	0.18	30	0.01	10	443
587779H	299	229	1.2	0.44	12	200	< 0.5	< 2	0.01	< 0.5	< 1	121	181	1.02	< 10	< 1	0.26	50	0.02	15	818
587780H	299	229	1.2	0.68	14	110	< 0.5	2	0.02	< 0.5	3	79	500	1.99	< 10	< 1	0.41	40	0.34	35	891
587781H	299	229	0.8	1.83	2	880	< 0.5	2	0.05	< 0.5	7	102	943	2.23	< 10	< 1	0.62	20	0.83	70	340
587782H	299	229	1.0	1.57	2	380	< 0.5	2	0.08	< 0.5	6	75	898	2.39	< 10	< 1	0.60	40	0.87	75	452
587783H	299	229	0.6	1.99	< 2	230	< 0.5	4	0.03	< 0.5	3	171	421	2.21	< 10	< 1	1.08	40	1.15	65	492
587784H	299	229	0.6	1.82	< 2	190	< 0.5	< 2	0.04	< 0.5	4	178	653	2.37	< 10	< 1	0.97	60	1.29	70	476
587785H	299	229	0.4	2.36	12	310	< 0.5	< 2	0.02	< 0.5	4	322	511	2.74	< 10	1	1.56	30	2.23	100	259
587786H	299	229	1.4	1.86	2	490	< 0.5	2	0.09	< 0.5	5	216	924	2.31	< 10	< 1	0.80	30	0.83	60	192
587787H	299	229	1.8	1.73	< 2	460	< 0.5	4	0.09	< 0.5	6	117	1690	3.44	< 10	< 1	0.49	50	0.66	70	393
587788H	299	229	1.2	3.03	8	950	< 0.5	< 2	0.16	< 0.5	12	184	1395	4.54	< 10	< 1	1.11	20	1.44	135	140
587789H	299	229	3.2	0.94	12	320	< 0.5	2	0.04	< 0.5	4	124	1035	3.81	< 10	< 1	0.54	20	0.26	40	229
587790H	299	229	1.0	0.65	10	180	< 0.5	2	0.01	< 0.5	2	194	429	2.22	< 10	< 1	0.40	10	0.04	15	192
587791H	299	229	1.8	0.31	2	180	< 0.5	8	0.01	< 0.5	1	152	252	1.80	< 10	< 1	0.26	20	0.02	10	345
587792H	299	229	1.2	0.58	16	120	< 0.5	2	0.01	< 0.5	1	176	184	1.38	< 10	< 1	0.33	30	0.04	15	299
587793H	299	229	1.4	0.43	6	80	< 0.5	2	0.01	< 0.5	3	74	564	2.58	< 10	< 1	0.22	60	0.11	15	366
587794H	299	229	1.4	0.63	12	190	< 0.5	2	0.01	< 0.5	1	168	294	1.88	< 10	< 1	0.41	40	0.04	15	142
587795H	299	229	1.8	0.65	4	450	< 0.5	2	0.01	< 0.5	1	211	232	2.11	< 10	< 1	0.45	40	0.08	20	152
587796H	299	229	1.2	0.86	6	150	< 0.5	2	0.01	< 0.5	4	135	415	2.98	< 10	< 1	0.58	60	0.47	35	451
587797H	299	229	0.4	1.06	< 2	130	< 0.5	2	0.01	< 0.5	2	162	202	1.77	10	< 1	0.59	70	0.39	20	443
587798H	299	229	0.4	1.43	4	190	< 0.5	2	0.01	< 0.5	3	84	301	1.76	10	< 1	0.70	60	0.83	30	307
587799H	299	229	0.8	1.12	10	130	< 0.5	2	0.01	< 0.5	2	169	244	1.72	10	< 1	0.50	80	0.31	20	362
587800H	299	229	0.8	1.93	8	140	< 0.5	< 2	0.03	< 0.5	7	124	776	2.70	< 10	< 1	0.97	30	1.28	55	291
587801H	299	229	1.2	3.50	18	170	< 0.5	< 2	0.11	< 0.5	21	357	3780	4.06	10	< 1	1.43	20	2.86	155	149
587802H	299	229	0.6	2.50	6	200	< 0.5	< 2	1.06	4.0	15	62	6760	2.48	20	< 1	0.90	60	1.64	105	479
587803H	299	229	1.2	1.75	12	120	< 0.5	< 2	1.15	1.5	21	49	8270	2.14	10	< 1	0.68	40	1.35	95	310
587804H	299	229	0.6	1.99	10	170	< 0.5	< 2	0.48	0.5	12	85	3830	2.04	10	< 1	0.58	20	1.27	110	117
587805H	299	229	1.2	1.50	8	150	< 0.5	< 2	0.24	< 0.5	17	123	>10000	2.30	< 10	< 1	0.42	20	0.53	45	243
587806H	299	229	1.2	1.99	16	160	< 0.5	< 2	0.31	1.0	16	202	8930	2.70	10	< 1	0.86	30	0.97	95	398
587807H	299	229	2.4	1.82	4	150	< 0.5	4	0.85	0.5	15	173	5700	2.20	10	< 1	0.98	40	1.45	80	6470
587808H	299	229	0.4	2.02	2	220	< 0.5	< 2	1.76	0.5	12	84	3390	2.32	10	< 1	0.78	20	1.35	130	228
587809H	299	229	1.6	1.62	8	160	< 0.5	2	1.92	0.5	14	26	6300	2.33	10	< 1	0.63	10	1.16	200	300
587810H	299	229	1.2	1.41	8	120	< 0.5	4	0.67	< 0.5	13	123	5540	2.08	< 10	< 1	0.37	30	0.43	45	287
587811H	299	229	1.6	1.74	6	90	< 0.5	4	0.97	0.5	15	118	1960	3.56	10	< 1	0.64	30	0.64	75	214
587812H	299	229	2.0	0.67	12	60	< 0.5	4	0.59	0.5	22	124	3550	2.25	< 10	< 1	0.25	40	0.31	120	620
587813H	299	229	1.8	1.15	4	40	< 0.5	4	1.10	< 0.5	21	49	5000	2.08	< 10	< 1	0.26	10	0.55	115	240
587814H	299	229	1.2	1.50	8	80	< 0.5	2	2.35	< 0.5	11	145	2560	1.67	10	< 1	0.33	20	0.59	150	360
587815H	299	229	0.2	1.61	6	140	< 0.5	< 2	0.46	0.5	13	67	1805	2.26	10	< 1	0.79	20	1.19	195	141
587816H	299	229	0.6	2.39	4	150	< 0.5	< 2	2.76	< 0.5	9	110	1985	2.58	10	< 1	0.84	< 10	1.38	100	914

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CERTIFICATE OF ANALYSIS A9322076

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587777H	299	229	0.01	2	140	10	12	< 1	12	< 0.01	< 10	< 10	< 1	< 10	12
587778H	299	229	0.01	1	90	12	18	< 1	16	< 0.01	< 10	< 10	< 1	< 10	8
587779H	299	229	0.01	1	120	8	12	< 1	12	< 0.01	< 10	< 10	< 1	< 10	6
587780H	299	229	0.01	6	310	4	10	5	13	0.02	< 10	< 10	22	< 10	32
587781H	299	229	0.02	14	340	6	6	6	26	0.06	< 10	< 10	32	< 10	48
587782H	299	229	0.02	11	470	6	6	7	20	0.06	< 10	< 10	39	< 10	44
587783H	299	229	0.03	9	270	8	6	8	14	0.08	< 10	< 10	52	< 10	28
587784H	299	229	0.03	14	310	4	6	11	22	0.09	< 10	< 10	66	< 10	34
587785H	299	229	0.03	20	250	2	4	15	16	0.15	< 10	< 10	114	< 10	38
587786H	299	229	0.03	11	620	4	2	7	23	0.06	< 10	< 10	57	< 10	36
587787H	299	229	0.02	12	860	6	4	7	45	0.02	< 10	< 10	41	< 10	48
587788H	299	229	0.03	23	1300	2	6	12	51	0.09	< 10	< 10	102	< 10	70
587789H	299	229	0.02	7	1290	6	2	8	55	0.01	< 10	< 10	55	< 10	48
587790H	299	229	0.02	3	230	8	4	< 1	19	< 0.01	< 10	< 10	2	< 10	16
587791H	299	229	0.01	2	200	12	4	< 1	20	< 0.01	< 10	< 10	< 1	< 10	12
587792H	299	229	0.01	3	150	6	4	< 1	11	< 0.01	< 10	< 10	1	< 10	18
587793H	299	229	0.01	4	400	4	4	3	14	< 0.01	< 10	< 10	11	< 10	38
587794H	299	229	0.02	3	250	8	4	< 1	12	< 0.01	< 10	< 10	2	< 10	16
587795H	299	229	0.02	3	270	16	4	1	19	< 0.01	< 10	< 10	8	< 10	18
587796H	299	229	0.01	5	660	6	4	7	14	0.02	< 10	< 10	43	< 10	32
587797H	299	229	0.02	3	290	2	4	4	13	0.02	< 10	< 10	25	< 10	18
587798H	299	229	0.01	4	420	2	4	8	10	0.04	< 10	< 10	57	< 10	18
587799H	299	229	0.02	3	400	8	6	4	13	0.01	< 10	< 10	30	< 10	16
587800H	299	229	0.02	14	640	6	6	12	12	0.06	< 10	< 10	83	< 10	26
587801H	299	229	0.03	47	620	8	2	18	15	0.10	< 10	< 10	114	< 10	52
587802H	299	229	0.02	13	1080	32	6	14	14	0.07	< 10	< 10	91	< 10	86
587803H	299	229	0.02	11	820	8	4	10	16	0.04	< 10	< 10	73	< 10	76
587804H	299	229	0.06	7	1060	4	< 2	10	17	0.07	< 10	< 10	81	< 10	48
587805H	299	229	0.03	9	550	6	2	6	12	0.01	< 10	< 10	40	< 10	38
587806H	299	229	0.02	22	460	14	2	10	12	0.07	< 10	< 10	60	< 10	52
587807H	299	229	0.02	13	1350	< 2	58	14	15	0.09	< 10	< 10	15	10	38
587808H	299	229	0.02	8	780	6	4	11	23	0.05	< 10	< 10	67	< 10	46
587809H	299	229	0.01	9	1260	8	4	11	26	0.04	< 10	< 10	69	< 10	64
587810H	299	229	0.01	7	380	12	4	4	14	< 0.01	< 10	< 10	19	< 10	44
587811H	299	229	0.02	7	960	16	2	6	16	0.01	< 10	< 10	34	< 10	36
587812H	299	229	0.01	7	780	30	6	5	14	< 0.01	< 10	< 10	11	< 10	42
587813H	299	229	0.01	6	680	20	4	4	17	< 0.01	< 10	< 10	22	< 10	46
587814H	299	229	0.02	4	520	2	6	3	24	< 0.01	< 10	< 10	18	< 10	32
587815H	299	229	0.02	9	840	6	4	10	12	0.06	< 10	< 10	65	< 10	52
587816H	299	229	0.03	7	990	2	8	11	30	0.06	< 10	< 10	64	< 10	28

CERTIFICATION: Ian Bradley

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
587817H	299	229	0.6	1.13	4	210	< 0.5	2	3.93	< 0.5	10	21	1405	1.62	< 10	< 1	0.48	< 10	1.03	195	810
587818H	299	229	0.4	2.92	8	80	< 0.5	< 2	2.84	< 0.5	12	86	1780	3.05	10	< 1	1.16	< 10	2.16	190	172
587819H	299	229	1.2	1.24	4	120	< 0.5	4	1.27	< 0.5	17	184	2580	1.99	10	< 1	0.46	10	0.61	110	92
587820H	299	229	0.4	1.75	< 2	190	< 0.5	< 2	1.47	< 0.5	11	123	1490	1.82	10	< 1	0.61	10	1.11	90	474
587821H	299	229	0.4	1.61	< 2	170	< 0.5	2	2.05	< 0.5	9	84	665	1.74	10	< 1	0.69	10	1.05	105	1175
587822H	299	229	1.0	1.84	18	120	< 0.5	< 2	2.49	< 0.5	10	101	1960	2.57	10	< 1	0.69	< 10	1.37	190	1150
587823H	299	229	0.8	2.10	2	220	< 0.5	< 2	2.60	< 0.5	9	124	2600	1.73	10	< 1	0.85	10	1.43	125	551
587824H	299	229	0.8	1.68	6	210	< 0.5	< 2	3.13	< 0.5	10	86	2520	1.72	10	< 1	0.60	< 10	1.20	230	661
587825H	299	229	1.4	1.05	8	180	< 0.5	4	2.46	< 0.5	11	121	3200	1.44	10	< 1	0.18	20	0.53	165	808
587826H	299	229	1.2	0.69	8	70	< 0.5	4	2.07	< 0.5	18	94	3250	1.64	< 10	< 1	0.26	10	0.67	175	346
587827H	299	229	0.8	1.44	30	40	< 0.5	2	2.21	< 0.5	12	153	1865	2.44	< 10	< 1	0.34	< 10	0.60	215	230
587828H	299	229	1.0	2.33	4	170	< 0.5	< 2	3.51	< 0.5	10	98	3930	2.20	< 10	< 1	0.60	< 10	1.12	190	59
587829H	299	229	1.2	1.99	6	170	< 0.5	< 2	4.65	< 0.5	17	115	3310	3.13	< 10	< 1	0.56	< 10	1.01	240	119
587830H	299	229	1.0	2.66	2	120	< 0.5	< 2	3.23	< 0.5	11	85	2850	2.65	< 10	< 1	0.68	< 10	1.34	190	172
587831H	299	229	1.0	1.42	30	130	< 0.5	2	3.34	< 0.5	8	91	1560	2.06	< 10	1	0.32	< 10	0.55	325	115
587832H	299	229	1.2	1.50	24	490	< 0.5	2	1.71	< 0.5	11	113	1690	1.46	10	< 1	0.22	10	0.29	200	207
587833H	299	229	0.2	2.24	26	470	< 0.5	< 2	2.00	< 0.5	11	125	1105	2.36	10	< 1	0.54	10	1.21	275	96
587834H	299	229	0.6	2.26	36	120	< 0.5	< 2	1.78	< 0.5	13	73	934	3.66	10	< 1	0.43	10	1.16	360	196
587835H	299	229	0.4	2.74	26	270	< 0.5	< 2	1.29	< 0.5	12	49	1305	3.79	10	2	0.67	10	1.72	275	90
587836H	299	229	< 0.2	2.64	8	220	< 0.5	< 2	1.71	< 0.5	9	57	935	3.36	10	< 1	0.94	< 10	1.88	215	86
587837H	299	229	< 0.2	3.42	14	160	< 0.5	< 2	2.85	0.5	12	58	495	3.68	< 10	< 1	1.19	< 10	2.26	355	98
587838H	299	229	1.6	2.76	110	120	< 0.5	2	2.30	3.5	13	58	986	3.49	10	< 1	0.70	< 10	1.61	465	134
587839H	299	229	0.2	2.70	< 2	160	< 0.5	< 2	2.21	< 0.5	12	86	986	3.25	< 10	< 1	0.90	< 10	1.80	230	85
587840H	299	229	5.0	2.14	142	50	< 0.5	6	2.96	48.0	12	45	1295	3.48	< 10	< 1	0.78	< 10	1.42	770	100
587841H	299	229	0.4	2.59	6	280	< 0.5	< 2	2.02	0.5	11	46	1070	2.85	< 10	< 1	0.76	< 10	1.88	235	85
587842H	299	229	< 0.2	2.77	< 2	180	< 0.5	< 2	3.03	0.5	13	43	1250	3.20	< 10	< 1	1.26	< 10	2.01	190	103
587843H	299	229	8.8	3.47	22	70	< 0.5	36	2.85	47.0	15	69	1390	4.94	10	< 1	1.34	< 10	2.16	390	68
587844H	299	229	< 0.2	4.89	20	320	< 0.5	< 2	3.27	< 0.5	15	66	923	4.91	10	< 1	1.81	< 10	2.68	350	107
587845H	299	229	0.2	4.22	20	300	< 0.5	< 2	3.42	< 0.5	15	57	733	4.42	10	< 1	1.39	< 10	2.27	360	322
587846H	299	229	2.2	3.35	20	150	< 0.5	< 2	3.11	12.0	14	75	943	4.32	10	< 1	1.06	< 10	2.02	535	119
587847H	299	229	< 0.2	3.11	4	240	< 0.5	< 2	2.95	1.5	12	72	757	3.71	10	< 1	1.38	< 10	2.09	290	104
587848H	299	229	< 0.2	2.12	6	430	< 0.5	< 2	1.88	< 0.5	11	68	469	3.24	10	< 1	1.05	< 10	1.68	180	196
587849H	299	229	0.2	2.19	< 2	290	< 0.5	< 2	1.68	< 0.5	10	169	1370	2.52	10	< 1	1.24	< 10	1.84	155	97
587850H	299	229	1.0	1.40	8	100	< 0.5	2	1.53	< 0.5	9	146	1440	1.75	10	< 1	0.45	10	1.11	175	90
587851H	299	229	0.6	1.63	8	140	< 0.5	2	1.23	< 0.5	8	209	1225	1.84	10	< 1	0.60	20	1.08	160	91
587852H	299	229	2.8	1.03	6	110	< 0.5	4	1.62	3.5	5	99	1605	1.36	10	< 1	0.30	10	0.73	125	206
587853H	299	229	0.6	2.56	< 2	370	< 0.5	< 2	1.96	< 0.5	10	94	1240	2.89	10	< 1	0.81	< 10	1.71	195	42
587854H	299	229	0.4	2.44	4	490	< 0.5	< 2	0.86	< 0.5	13	65	1500	3.47	10	< 1	1.33	< 10	1.91	175	67
587855H	299	229	2.4	2.36	14	110	< 0.5	2	2.49	0.5	12	73	1355	3.63	10	< 1	1.22	< 10	1.67	215	69
587856H	299	229	1.6	1.98	8	290	< 0.5	4	5.02	1.0	10	56	1450	3.06	< 10	< 1	0.75	< 10	0.80	340	381

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 210
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :2
Certificate Date: 08-OCT-93
Invoice No. :19322076
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322076

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
587817H	299	229	0.01	6	1110	4	6	12	28	0.02	< 10	< 10	49	< 10	78
587818H	299	229	0.03	11	1030	12	2	18	29	0.12	< 10	< 10	130	< 10	80
587819H	299	229	0.02	9	430	10	< 2	2	21	< 0.01	< 10	< 10	18	< 10	54
587820H	299	229	0.03	7	510	4	2	7	23	0.03	< 10	< 10	47	< 10	62
587821H	299	229	0.02	6	680	4	8	8	26	0.03	< 10	< 10	41	< 10	28
587822H	299	229	0.02	7	1060	2	12	11	32	0.05	< 10	< 10	54	< 10	34
587823H	299	229	0.03	11	740	6	4	10	34	0.07	< 10	< 10	64	< 10	22
587824H	299	229	0.02	9	640	8	8	11	44	0.03	< 10	< 10	58	< 10	28
587825H	299	229	0.01	10	990	6	8	9	22	< 0.01	< 10	10	28	< 10	28
587826H	299	229	0.01	8	970	2	6	5	17	< 0.01	< 10	< 10	18	< 10	20
587827H	299	229	0.01	14	810	14	4	6	31	< 0.01	< 10	< 10	32	< 10	20
587828H	299	229	0.02	8	650	6	8	10	91	0.03	< 10	< 10	66	< 10	28
587829H	299	229	0.01	6	760	4	6	7	79	0.03	< 10	< 10	51	< 10	24
587830H	299	229	0.03	8	740	2	6	11	94	0.06	< 10	< 10	77	< 10	32
587831H	299	229	0.01	8	570	16	6	7	93	0.01	< 10	< 10	41	< 10	30
587832H	299	229	0.01	8	810	12	12	11	66	< 0.01	< 10	10	56	< 10	30
587833H	299	229	0.01	6	840	8	6	11	139	0.04	< 10	< 10	83	< 10	34
587834H	299	229	0.02	4	1090	14	2	13	130	0.02	< 10	< 10	92	< 10	50
587835H	299	229	0.02	4	1210	12	4	15	130	0.07	< 10	< 10	124	< 10	70
587836H	299	229	0.08	3	870	4	2	14	171	0.18	< 10	< 10	126	< 10	54
587837H	299	229	0.11	5	1140	26	2	16	241	0.20	< 10	< 10	137	< 10	114
587838H	299	229	0.05	4	1030	32	4	12	189	0.11	< 10	< 10	105	< 10	308
587839H	299	229	0.17	3	950	2	< 2	15	142	0.23	< 10	< 10	134	< 10	46
587840H	299	229	0.08	3	920	276	42	12	181	0.11	< 10	< 10	101	< 10	4060
587841H	299	229	0.20	4	1010	12	< 2	15	135	0.20	< 10	< 10	122	< 10	68
587842H	299	229	0.18	4	1100	10	< 2	17	157	0.25	< 10	< 10	147	< 10	44
587843H	299	229	0.22	6	1190	618	< 2	18	153	0.24	< 10	< 10	160	< 10	3840
587844H	299	229	0.35	6	1370	30	2	21	214	0.36	< 10	< 10	194	< 10	90
587845H	299	229	0.26	7	1370	6	4	16	191	0.28	< 10	< 10	164	< 10	76
587846H	299	229	0.15	6	1210	126	4	15	111	0.18	< 10	< 10	136	< 10	1110
587847H	299	229	0.18	4	1180	116	< 2	17	127	0.27	< 10	< 10	151	< 10	220
587848H	299	229	0.10	5	830	16	< 2	14	82	0.19	< 10	< 10	119	< 10	50
587849H	299	229	0.12	11	610	8	< 2	17	61	0.19	< 10	< 10	115	< 10	38
587850H	299	229	0.04	14	490	32	< 2	7	75	0.05	< 10	< 10	45	< 10	64
587851H	299	229	0.07	15	390	36	2	8	54	0.06	< 10	< 10	50	< 10	74
587852H	299	229	0.03	7	300	320	2	5	64	0.03	< 10	< 10	30	< 10	286
587853H	299	229	0.08	4	1000	16	< 2	12	116	0.15	< 10	< 10	105	< 10	52
587854H	299	229	0.13	3	950	16	< 2	14	59	0.24	< 10	< 10	145	< 10	52
587855H	299	229	0.13	8	960	16	< 2	14	91	0.22	< 10	< 10	136	< 10	64
587856H	299	229	0.03	3	1210	166	2	11	269	0.09	< 10	< 10	84	< 10	126

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-211
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. :19321931
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321931

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574456	208	276	0.07	0.006	0.45	9040						
H574457	208	273	0.06	0.006	0.38	12820						
H574458	208	273	0.06	0.012	0.51	13620						
H574459	208	276	0.03	0.006	0.55	8020						
H574460	208	276	0.07	0.032	0.48	11100						
H574461	208	276	0.06	0.024	0.27	11700						
H574462	208	273	0.12	0.013	0.31	12440						
H574463	208	274	0.13	0.008	0.48	7250						
H574464	208	276	0.15	0.015	0.41	8660						
H574465	208	276	0.18	0.010	0.27	9040						
H574466	208	273	0.18	0.020	0.38	13580						
H574467	208	273	0.18	0.006	0.41	12460						
H574468	208	273	0.17	0.018	0.48	12520						
H574469	208	273	0.25	0.008	0.45	13380						
H574470	208	273	0.15	0.007	0.24	12040						
H574471	208	273	0.14	0.013	0.34	13540						
H574472	208	273	0.14	0.011	0.45	13180						
H574473	208	273	0.19	0.012	0.34	13080						
H574474	208	273	0.15	0.011	0.27	13000						
H574475	208	273	0.20	0.012	0.34	12420						
H574476	208	273	0.24	0.006	0.45	15320						
H574477	208	273	0.26	0.011	0.41	13580						
H574478	208	273	0.20	0.008	0.38	14080						
H574479	208	273	0.21	0.008	0.21	13560						
H574480	208	273	0.12	0.007	0.17	13680						
H574481	208	273	0.20	0.016	0.14	13200						
H574482	208	273	0.16	0.006	0.21	12520						
H574483	208	273	0.13	0.014	0.10	13540						
H574484	208	273	0.12	0.006	0.14	12640						
H574485	208	273	0.15	0.006	0.21	12120						
H574486	208	273	0.28	0.011	0.69	12960						
H574487	208	276	0.10	0.007	0.14	10820						
H574488	208	273	0.13	0.009	0.17	12160						
H574489	208	276	0.09	0.006	0.14	11600						
H574490	208	276	0.07	0.009	0.10	9340						
H574491	208	276	0.09	0.008	0.14	9560						
H574492	208	276	0.15	0.006	0.14	11740						
H574493	208	273	0.16	0.009	0.21	13240						
H574494	208	274	0.24	0.130	0.27	4480						
H574495	208	276	0.15	0.011	0.17	9860						

CERTIFICATION: _____

Chemex Labs Ltd.

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-211
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Certificate Date: 08-OCT-93
Invoice No. :19321931
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321931

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H574496	208	273	0.16	0.198	0.17	13100						
H574497	208	276	0.37	0.010	0.17	10820						
H574498	208	276	0.45	0.012	0.34	11320						
H574499	208	273	0.22	0.006	0.34	14820						
H574500	208	273	0.14	0.007	0.14	12880						
H589501	208	273	0.26	0.016	0.10	13860						
H589502	208	273	0.22	0.106	0.31	12900						
H589503	208	273	0.15	0.019	0.17	13600						
H589504	208	273	0.43	0.041	0.24	13140						
H589505	208	273	0.05	0.006	0.03	13320						
H589506	208	273	0.12	0.014	0.07	12860						
H589507	208	273	0.12	0.012	0.10	13120						
H589508	208	273	0.22	0.014	0.14	13360						
H589509	208	273	0.14	0.020	0.14	14360						
H589510	208	273	0.18	0.063	0.14	12720						
H589511	208	276	0.11	0.014	0.14	11700						
H589512	208	276	0.14	0.034	0.17	8560						
H589513	208	273	0.18	0.015	0.10	13220						
H589514	208	276	0.13	0.033	0.10	11650						
H589515	208	276	0.12	0.013	0.17	11440						
H589516	208	276	0.10	0.183	0.10	8900						
H589517	208	276	0.15	0.018	0.10	9900						
H589518	208	273	0.18	0.026	0.24	12680						
H589519	208	273	0.14	0.037	0.10	12200						
H589520	208	276	0.12	0.015	0.17	9200						
H589521	208	273	0.17	0.023	0.21	12800						
H589522	208	276	0.12	0.023	0.14	10100						
H589523	208	276	0.09	0.030	0.10	11280						
H589524	208	273	0.12	0.018	0.17	13280						
H589525	208	273	0.14	0.023	0.10	13780						
H589526	208	273	0.10	0.024	0.10	14120						
H589527	208	273	0.11	0.013	0.03	13560						
H589528	208	273	0.11	0.028	0.10	13500						
H589529	208	273	0.21	0.028	0.17	13400						
H589530	208	273	0.26	0.021	0.14	12160						
H589531	208	273	0.12	0.040	0.17	12800						
H589532	208	276	0.13	0.013	0.17	8360						
H589533	208	273	0.10	0.025	0.10	11860						
H589534	208	273	0.14	0.016	0.14	12280						
H589535	208	274	0.18	0.019	0.17	7180						

CERTIFICATION: C. Smith

Chemex Labs Ltd.

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-211
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. :I9321931
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321931

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H589536	208 273	0.15	0.018	0.17	14360
H589537	208 273	0.21	0.024	0.31	12740
H589538	208 273	0.38	0.050	0.27	13420
H589539	208 276	0.12	0.013	0.17	10380
H589540	208 273	0.12	0.014	0.10	14400
H589541	208 273	0.04	0.057	< 0.03	14520
H589542	208 273	0.06	0.013	0.07	14100
H589543	208 270	0.07	0.021	< 0.03	16680
H589544	208 273	0.09	0.057	0.14	13040
H589545	208 276	0.09	0.023	0.10	11440
H589546	208 273	0.13	0.025	0.21	12040
H589547	208 273	0.07	0.043	0.10	13380
H589548	208 276	0.05	0.016	< 0.03	11280
H589549	208 276	0.12	0.047	0.07	9760
H589550	208 276	0.12	0.033	0.10	8940
H589551	208 276	0.09	0.122	0.10	9360
H589552	208 276	0.09	0.059	0.07	10960
H589553	208 276	0.05	0.089	< 0.03	8500
H589554	208 274	0.07	0.255	0.03	5320
H589555	208 276	0.07	0.114	0.07	10920
H589556	208 276	0.08	0.108	0.10	11400
H589557	208 273	0.05	0.124	0.03	12300
H589558	208 273	0.06	0.075	0.07	12960
H589559	208 273	0.04	0.058	< 0.03	12940
H589560	208 273	0.03	0.025	0.07	12500
H589561	208 273	0.06	0.026	< 0.03	12520
H589562	208 273	0.08	0.069	0.10	13880
H589563	208 273	0.07	0.077	0.07	13300
H589564	208 276	0.07	0.041	0.07	8340
H589565	208 273	0.10	0.045	0.10	12660
H589566	208 273	0.10	0.041	0.14	12600
H589567	208 276	0.11	0.022	0.14	11160
H589568	208 273	0.07	0.030	0.10	13320
H589569	208 273	0.07	0.035	0.10	12620
H589570	208 274	0.06	0.021	0.07	5160
H589571	208 273	0.17	0.012	0.14	13200
H589572	208 276	0.11	0.017	0.10	11800
H589573	208 273	0.13	0.022	0.10	12800
H589574	208 273	0.12	0.017	0.07	12500
H589575	208 273	0.05	0.029	0.03	12640

CERTIFICATION: C. W. Finlay

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-211
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-OCT-93
Invoice No. :19321931
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9321931

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H589576	208	273	0.07	0.042	0.03	12600
H589577	208	273	0.04	0.030	0.07	12460
H589578	208	276	0.08	0.036	0.07	11080
H589579	208	273	0.03	0.035	< 0.03	14240

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-211
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page : 1-A
Total Pages : 4
Certificate Date: 05-OCT-93
Invoice No. : I9321932
P.O. Number :
Account : FC

CORRECTED COPY

CERTIFICATE OF ANALYSIS A9321932

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574456	299	229	1.8	1.27	40	140	< 0.5	8	0.11	< 0.5	4	131	742	7.48	< 10	< 1	0.65	10	0.42	110	31
H574457	299	229	0.4	1.07	50	200	< 0.5	4	0.01	< 0.5	4	132	611	8.10	< 10	< 1	0.76	10	0.25	80	25
H574458	299	229	1.8	1.28	54	160	< 0.5	6	0.01	< 0.5	3	69	578	7.72	< 10	< 1	1.15	20	0.40	60	62
H574459	299	229	1.6	0.63	74	130	< 0.5	24	0.01	< 0.5	2	76	286	6.37	< 10	< 1	1.02	20	0.06	30	33
H574460	299	229	1.6	0.89	140	170	< 0.5	6	0.01	< 0.5	3	95	677	6.78	< 10	< 1	0.82	20	0.14	60	184
H574461	299	229	0.8	1.43	56	150	< 0.5	4	0.03	< 0.5	6	127	619	6.13	< 10	< 1	0.71	20	0.55	110	128
H574462	299	229	0.2	1.11	18	110	< 0.5	2	0.06	< 0.5	9	122	1230	6.84	< 10	< 1	0.48	20	0.29	150	70
H574463	299	229	1.0	1.34	40	120	< 0.5	12	0.04	< 0.5	7	114	1295	5.62	< 10	< 1	0.62	20	0.42	100	45
H574464	299	229	2.0	1.09	198	160	< 0.5	20	0.23	0.5	12	109	1585	5.86	< 10	< 1	0.73	30	0.34	380	84
H574465	299	229	0.4	1.39	14	60	< 0.5	6	0.29	< 0.5	15	111	1775	6.55	< 10	< 1	0.42	30	0.63	265	52
H574466	299	229	0.4	1.34	22	70	< 0.5	2	0.23	0.5	15	111	1840	5.61	< 10	< 1	0.39	20	0.65	275	113
H574467	299	229	0.8	1.38	26	120	< 0.5	6	0.14	< 0.5	11	124	1800	6.50	< 10	< 1	0.55	20	0.45	170	32
H574468	299	229	3.2	1.03	104	90	< 0.5	12	0.08	0.5	11	100	1650	6.10	< 10	< 1	0.47	20	0.14	180	93
H574469	299	229	1.2	1.33	30	60	< 0.5	6	0.24	2.0	12	103	2510	4.85	< 10	< 1	0.63	20	0.34	345	44
H574470	299	229	0.4	1.27	18	130	< 0.5	6	0.27	1.5	14	124	1460	5.75	10	< 1	0.44	30	0.65	445	38
H574471	299	229	0.4	1.50	20	70	< 0.5	6	0.20	1.0	13	124	1385	6.16	< 10	< 1	0.49	30	0.95	400	68
H574472	299	229	1.4	1.68	48	110	< 0.5	16	0.42	< 0.5	13	121	1460	5.14	10	< 1	0.69	30	0.88	305	54
H574473	299	229	1.4	1.93	24	120	< 0.5	14	0.79	< 0.5	15	84	1935	4.54	10	< 1	0.66	40	1.21	305	59
H574474	299	229	1.4	1.76	18	100	< 0.5	20	0.81	< 0.5	14	98	1525	5.07	10	< 1	0.69	30	1.10	250	57
H574475	299	229	1.4	1.10	64	30	< 0.5	14	0.50	< 0.5	18	95	1970	7.67	< 10	< 1	0.64	20	0.39	165	58
H574476	299	229	1.8	1.57	18	60	< 0.5	28	0.49	1.0	19	97	2360	7.23	< 10	< 1	0.85	20	0.79	535	30
H574477	299	229	2.4	1.86	38	80	< 0.5	18	0.64	0.5	15	85	2620	6.78	10	< 1	0.90	30	1.25	335	52
H574478	299	229	2.0	1.78	50	50	< 0.5	24	0.89	< 0.5	11	117	2030	5.19	10	1	0.77	30	1.13	215	39
H574479	299	229	1.0	1.68	26	80	< 0.5	20	0.51	0.5	15	93	2110	5.21	10	< 1	0.61	40	0.93	185	39
H574480	299	229	0.4	2.10	30	100	< 0.5	2	0.54	< 0.5	17	109	1305	5.50	10	2	0.68	40	1.24	220	31
H574481	299	229	0.6	1.80	32	110	< 0.5	8	0.61	2.0	24	94	2040	4.92	10	< 1	0.70	50	0.90	940	76
H574482	299	229	0.4	1.84	18	160	< 0.5	4	0.82	< 0.5	15	114	1645	5.20	10	< 1	0.67	50	1.17	395	31
H574483	299	229	0.2	2.01	14	190	< 0.5	2	0.51	0.5	12	106	1255	4.93	10	< 1	0.71	40	1.27	365	65
H574484	299	229	0.2	1.97	24	80	< 0.5	4	0.29	< 0.5	13	117	1170	5.14	10	< 1	0.73	20	1.14	175	26
H574485	299	229	0.4	1.96	14	90	< 0.5	4	0.38	0.5	19	105	1560	5.68	10	< 1	0.67	30	1.32	315	26
H574486	299	229	1.8	1.69	32	50	< 0.5	6	0.64	1.0	18	95	2730	6.18	10	< 1	0.76	30	1.14	575	52
H574487	299	229	0.4	1.70	30	130	< 0.5	2	0.83	0.5	13	105	1070	4.79	10	< 1	0.74	30	1.18	395	30
H574488	299	229	0.4	1.80	16	150	< 0.5	< 2	0.51	1.0	14	95	1250	4.78	10	< 1	0.84	30	1.27	365	42
H574489	299	229	0.2	1.80	24	150	< 0.5	< 2	0.77	0.5	12	97	912	5.10	10	< 1	0.75	30	1.28	250	20
H574490	299	229	< 0.2	1.81	12	60	< 0.5	2	0.75	1.0	13	95	773	5.67	10	< 1	0.79	30	1.22	315	40
H574491	299	229	0.2	1.89	4	80	< 0.5	2	0.83	0.5	15	102	930	5.05	10	< 1	0.81	30	1.31	290	39
H574492	299	229	< 0.2	1.67	32	20	< 0.5	6	0.51	1.0	15	84	1580	6.85	< 10	< 1	0.70	20	0.92	290	21
H574493	299	229	1.8	1.45	130	10	< 0.5	20	0.73	0.5	15	106	1700	9.46	< 10	< 1	0.64	20	0.61	180	33
H574494	299	229	2.0	1.33	116	60	< 0.5	4	0.76	1.0	22	88	2400	5.45	< 10	< 1	0.56	30	0.88	870	660
H574495	299	229	1.2	1.92	16	190	< 0.5	2	0.96	0.5	13	113	1565	3.96	10	< 1	0.77	30	1.31	330	57

CERTIFICATION: Stewart Bichler

**FOR Ag AND U FROM SAMPLE DESCRIPTIONS H589528 TO H589534

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-211
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-OCT-93
Invoice No. : I9321932
P.O. Number :
Account : FC

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CERTIFICATE OF ANALYSIS A9321932

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H574456	299	229	0.06	9	430	6	< 2	3	20	0.01	< 10	< 10	50	20	46
H574457	299	229	0.04	8	500	4	< 2	2	21	< 0.01	< 10	< 10	34	20	38
H574458	299	229	0.05	7	590	12	2	3	27	0.02	< 10	< 10	34	40	34
H574459	299	229	0.04	3	580	10	< 2	1	36	< 0.01	< 10	< 10	20	40	22
H574460	299	229	0.04	7	770	4	4	2	32	< 0.01	< 10	< 10	25	20	36
H574461	299	229	0.06	10	590	10	< 2	3	19	0.01	< 10	< 10	34	30	38
H574462	299	229	0.04	13	480	< 2	< 2	3	16	< 0.01	< 10	< 10	42	30	48
H574463	299	229	0.06	12	520	2	< 2	4	21	0.01	< 10	< 10	39	40	54
H574464	299	229	0.04	14	550	34	12	2	22	< 0.01	< 10	< 10	27	30	58
H574465	299	229	0.04	16	630	2	< 2	2	15	< 0.01	< 10	< 10	33	40	58
H574466	299	229	0.04	13	680	< 2	< 2	2	11	0.01	< 10	< 10	35	30	56
H574467	299	229	0.06	13	710	2	< 2	4	18	0.01	< 10	< 10	39	30	48
H574468	299	229	0.02	12	460	246	12	2	22	< 0.01	< 10	< 10	23	20	80
H574469	299	229	0.02	16	640	14	4	3	24	< 0.01	< 10	< 10	22	20	114
H574470	299	229	0.03	16	630	6	< 2	3	18	0.01	< 10	< 10	34	20	86
H574471	299	229	0.02	16	530	8	< 2	4	12	0.02	< 10	< 10	37	20	94
H574472	299	229	0.04	15	680	< 2	< 2	3	24	0.02	< 10	< 10	31	20	54
H574473	299	229	0.02	15	720	4	< 2	3	21	0.02	< 10	< 10	28	30	58
H574474	299	229	0.03	17	690	6	< 2	3	21	0.01	< 10	< 10	27	30	40
H574475	299	229	0.02	14	550	10	< 2	2	24	0.01	< 10	< 10	25	20	72
H574476	299	229	0.01	17	530	8	6	3	17	0.03	< 10	< 10	28	20	96
H574477	299	229	0.02	18	530	20	18	3	21	0.04	< 10	< 10	32	30	76
H574478	299	229	0.03	13	700	8	4	3	24	0.04	< 10	< 10	30	30	48
H574479	299	229	0.03	17	670	6	2	3	20	0.02	< 10	< 10	29	30	56
H574480	299	229	0.04	20	750	8	< 2	4	22	0.04	< 10	< 10	41	40	74
H574481	299	229	0.02	21	700	8	< 2	5	17	0.04	< 10	< 10	39	40	126
H574482	299	229	0.03	17	770	8	2	4	25	0.04	< 10	< 10	44	40	70
H574483	299	229	0.03	16	700	6	< 2	5	19	0.06	< 10	< 10	48	30	84
H574484	299	229	0.03	16	690	14	2	4	20	0.05	< 10	< 10	38	20	70
H574485	299	229	0.03	18	710	4	< 2	5	16	0.07	< 10	< 10	46	30	100
H574486	299	229	0.02	17	700	32	4	4	20	0.04	< 10	< 10	37	160	98
H574487	299	229	0.04	15	730	12	2	5	30	0.07	< 10	< 10	48	30	86
H574488	299	229	0.04	16	690	8	2	5	23	0.09	< 10	< 10	49	20	114
H574489	299	229	0.04	13	720	6	2	5	32	0.07	< 10	< 10	50	30	62
H574490	299	229	0.03	16	740	10	< 2	4	27	0.07	< 10	< 10	40	30	82
H574491	299	229	0.04	14	760	2	< 2	4	32	0.06	< 10	< 10	41	20	66
H574492	299	229	0.02	18	700	12	< 2	3	19	0.03	< 10	< 10	26	60	100
H574493	299	229	0.01	17	690	54	< 2	2	19	0.01	< 10	< 10	19	30	90
H574494	299	229	0.02	16	750	18	4	3	18	0.01	< 10	< 10	24	20	100
H574495	299	229	0.04	18	730	6	< 2	5	33	0.07	< 10	< 10	41	20	60

CERTIFICATION: Stan Buchan

**FOR Ag AND U FROM SAMPLE DESCRIPTIONS H589528 TO H589534

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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Project : CASINO-211
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Page :2-A
Total Pages :4
Certificate Date: 05-OCT-93
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CERTIFICATE OF ANALYSIS A9321932

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H574496	299	229	1.2	1.55	34	140	< 0.5	< 2	0.80	< 0.5	13	100	1645	3.88	10	< 1	0.65	30	1.15	460	930
H574497	299	229	0.6	2.31	24	80	0.5	< 2	0.35	1.0	18	73	4050	4.13	< 10	< 1	0.75	30	0.98	320	52
H574498	299	229	1.4	2.13	18	40	< 0.5	< 2	0.30	1.0	25	96	4730	5.90	< 10	< 1	0.90	30	1.20	325	60
H574499	299	229	0.8	1.99	20	70	< 0.5	2	0.83	< 0.5	16	92	2280	5.78	10	< 1	1.05	50	1.18	245	29
H574500	299	229	0.6	1.94	12	80	< 0.5	< 2	0.76	0.5	13	113	1415	4.51	< 10	< 1	0.92	30	1.24	245	37
H589501	299	229	0.6	1.80	6	60	< 0.5	4	0.69	1.0	16	85	2660	5.09	< 10	< 1	0.91	30	0.92	420	86
H589502	299	229	1.2	1.46	36	10	< 0.5	2	0.80	1.5	20	109	2220	8.60	< 10	< 1	0.71	30	0.84	460	518
H589503	299	229	0.8	1.89	4	130	< 0.5	< 2	0.69	< 0.5	12	80	1495	3.83	< 10	< 1	1.05	30	1.27	185	91
H589504	299	229	0.4	1.85	50	10	< 0.5	4	0.55	< 0.5	46	98	3890	8.83	< 10	< 1	0.85	20	0.76	235	196
H589505	299	229	< 0.2	1.53	16	70	< 0.5	< 2	0.71	< 0.5	16	81	513	6.24	< 10	< 1	0.89	20	1.02	155	27
H589506	299	229	1.0	1.04	138	40	< 0.5	< 2	0.82	1.0	14	98	1285	5.26	< 10	< 1	0.61	30	0.77	675	72
H589507	299	229	0.4	1.48	12	100	< 0.5	< 2	0.68	< 0.5	13	87	1155	4.27	< 10	< 1	0.67	30	1.00	180	55
H589508	299	229	0.8	1.74	14	80	< 0.5	2	0.45	0.5	17	111	2200	5.48	10	< 1	0.65	50	1.16	315	68
H589509	299	229	0.6	1.69	12	90	< 0.5	2	1.00	< 0.5	13	86	1400	4.86	10	1	0.66	50	1.07	210	103
H589510	299	229	3.8	1.14	244	30	< 0.5	12	0.84	4.5	20	99	1855	6.98	< 10	< 1	0.62	40	0.74	1695	327
H589511	299	229	0.4	1.73	6	130	< 0.5	< 2	0.79	0.5	12	80	1080	3.85	10	< 1	0.74	30	1.08	215	71
H589512	299	229	0.4	1.77	20	110	< 0.5	6	0.69	0.5	16	82	1420	4.34	10	< 1	0.68	30	1.08	295	199
H589513	299	229	25.8	1.91	82	110	< 0.5	12	0.89	8.0	16	72	1850	4.43	10	< 1	0.68	30	1.22	395	100
H589514	299	229	0.8	1.70	38	140	< 0.5	2	1.15	< 0.5	22	79	1290	4.94	10	< 1	0.66	30	1.17	350	204
H589515	299	229	0.8	1.85	20	180	< 0.5	4	0.66	0.5	16	79	1140	3.70	10	< 1	0.81	30	1.33	375	69
H589516	299	229	0.2	1.47	24	130	< 0.5	4	1.50	< 0.5	12	95	1075	3.27	10	< 1	0.67	50	1.16	215	972
H589517	299	229	0.8	1.89	16	160	< 0.5	< 2	1.00	< 0.5	17	82	1535	4.43	10	< 1	0.81	30	1.35	270	104
H589518	299	229	1.6	1.87	16	130	< 0.5	2	0.92	< 0.5	19	74	1855	4.71	10	< 1	0.78	30	1.26	230	144
H589519	299	229	0.4	1.35	26	40	< 0.5	2	2.05	< 0.5	20	77	1410	5.60	< 10	< 1	0.59	20	1.07	190	200
H589520	299	229	0.4	1.65	12	150	< 0.5	2	1.09	< 0.5	13	74	1110	3.79	< 10	< 1	0.72	30	1.15	160	76
H589521	299	229	0.4	1.65	6	110	< 0.5	2	1.00	< 0.5	18	83	1645	6.45	< 10	< 1	0.73	30	1.23	185	121
H589522	299	229	0.4	1.36	30	100	< 0.5	8	1.44	1.0	16	65	1210	4.42	< 10	< 1	0.63	20	0.84	225	128
H589523	299	229	< 0.2	1.49	2	80	< 0.5	< 2	1.05	< 0.5	22	81	919	5.25	< 10	< 1	0.58	30	1.04	195	195
H589524	299	229	< 0.2	1.57	32	80	< 0.5	4	0.94	< 0.5	21	66	1225	5.05	< 10	< 1	0.58	50	1.11	175	101
H589525	299	229	0.4	1.69	30	60	< 0.5	4	0.99	< 0.5	24	89	1490	6.16	< 10	< 1	0.73	30	1.20	180	129
H589526	299	229	< 0.2	1.44	32	30	< 0.5	4	1.06	< 0.5	19	65	992	5.01	< 10	< 1	0.69	30	0.66	155	123
H589527	299	229	0.6	1.80	16	110	< 0.5	2	1.34	< 0.5	18	83	1320	3.84	10	< 1	0.56	40	1.32	175	91
H589528	299	229	0.8	1.21	28	60	0.5	2	1.34	0.5	124	58	1070	5.10	< 10	< 1	0.56	< 10	0.81	200	159
H589529	299	229	1.8	1.24	16	100	< 0.5	< 2	1.33	0.5	18	75	2060	4.37	10	< 1	0.57	20	0.98	310	155
H589530	299	229	3.2	1.19	54	90	< 0.5	14	1.32	9.5	13	61	2630	4.92	10	< 1	0.47	10	1.03	1170	126
H589531	299	229	1.0	1.62	2	120	< 0.5	< 2	1.06	< 0.5	14	79	1180	3.61	10	< 1	0.51	20	1.31	155	210
H589532	299	229	1.0	1.66	18	130	< 0.5	< 2	0.99	< 0.5	15	71	1265	4.16	10	1	0.51	20	1.30	160	79
H589533	299	229	0.8	1.70	16	110	< 0.5	< 2	1.02	< 0.5	15	84	952	4.09	10	< 1	0.57	20	1.32	155	140
H589534	299	229	1.0	1.70	6	100	< 0.5	< 2	1.27	< 0.5	17	80	1290	3.75	10	< 1	0.54	20	1.31	170	96
H589535	299	229	2.0	1.52	24	90	0.5	6	1.78	< 0.5	19	56	1760	5.22	< 10	< 1	0.60	40	1.07	265	117

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H574496	299	229	0.03	15	700	6	6	4	26	0.04	< 10	< 10	32	10	68
H574497	299	229	0.03	22	630	22	< 2	4	16	0.04	< 10	< 10	33	10	104
H574498	299	229	0.02	26	610	16	< 2	4	15	0.07	< 10	< 10	35	20	72
H574499	299	229	0.03	16	590	4	2	4	23	0.06	< 10	< 10	32	20	32
H574500	299	229	0.03	13	730	< 2	< 2	4	25	0.06	< 10	< 10	31	10	52
H589501	299	229	0.03	16	650	12	< 2	3	21	0.04	< 10	< 10	24	10	96
H589502	299	229	0.01	16	620	14	2	3	19	0.03	< 10	< 10	24	20	100
H589503	299	229	0.04	15	670	4	2	4	27	0.08	< 10	< 10	37	10	34
H589504	299	229	0.02	26	600	32	< 2	3	19	0.03	< 10	< 10	23	30	56
H589505	299	229	0.03	14	710	2	< 2	2	17	0.04	< 10	< 10	21	20	26
H589506	299	229	0.02	15	590	30	< 2	3	23	0.01	< 10	< 10	20	10	66
H589507	299	229	0.04	12	690	6	< 2	3	24	0.04	< 10	< 10	33	10	42
H589508	299	229	0.04	21	680	6	< 2	6	20	0.06	< 10	< 10	48	10	88
H589509	299	229	0.05	19	660	< 2	< 2	4	34	0.04	< 10	< 10	37	10	44
H589510	299	229	0.02	16	590	152	110	3	19	0.01	< 10	< 10	18	60	180
H589511	299	229	0.04	13	640	4	< 2	4	28	0.06	< 10	< 10	34	30	44
H589512	299	229	0.03	19	810	6	< 2	4	24	0.05	< 10	< 10	39	10	66
H589513	299	229	0.04	18	820	1000	178	4	40	0.04	< 10	< 10	42	20	336
H589514	299	229	0.02	20	840	12	4	4	42	0.04	< 10	< 10	44	10	64
H589515	299	229	0.05	18	770	6	2	6	31	0.10	< 10	< 10	53	< 10	96
H589516	299	229	0.04	18	820	4	2	6	43	0.07	< 10	< 10	42	10	44
H589517	299	229	0.04	17	840	2	2	5	47	0.07	< 10	< 10	52	10	60
H589518	299	229	0.05	19	670	4	< 2	6	36	0.07	< 10	< 10	53	10	40
H589519	299	229	0.02	20	720	12	2	3	52	0.02	< 10	< 10	29	10	30
H589520	299	229	0.04	15	680	4	2	6	39	0.06	< 10	< 10	52	< 10	28
H589521	299	229	0.03	17	760	< 2	< 2	4	33	0.06	< 10	< 10	43	10	34
H589522	299	229	0.02	15	790	22	2	4	37	0.01	< 10	< 10	32	< 10	52
H589523	299	229	0.03	17	880	6	4	3	32	0.03	< 10	< 10	30	10	30
H589524	299	229	0.04	16	900	6	2	3	29	0.03	< 10	< 10	27	10	30
H589525	299	229	0.03	20	850	8	< 2	3	36	0.04	< 10	< 10	33	10	38
H589526	299	229	0.02	18	840	4	2	2	34	0.01	< 10	< 10	20	10	24
H589527	299	229	0.03	17	920	6	< 2	4	139	0.02	< 10	< 10	41	20	28
H589528	299	229	0.01	20	830	14	< 2	3	38	0.01	< 10	< 10	21	30	38
H589529	299	229	0.01	14	1020	8	2	2	50	0.02	< 10	< 10	20	< 10	40
H589530	299	229	0.01	14	920	32	2	3	47	0.01	< 10	< 10	26	< 10	448
H589531	299	229	0.01	14	860	4	< 2	3	46	0.02	< 10	< 10	30	< 10	22
H589532	299	229	0.02	15	910	12	< 2	3	41	0.02	< 10	< 10	44	10	26
H589533	299	229	0.03	16	890	4	< 2	4	38	0.04	< 10	< 10	45	< 10	24
H589534	299	229	0.02	15	890	2	< 2	4	137	0.02	< 10	< 10	38	< 10	26
H589535	299	229	0.02	16	1000	6	< 2	3	52	0.01	< 10	< 10	27	10	38

CERTIFICATION: Stuart Bichler

**FOR Ag AND U FROM SAMPLE DESCRIPTIONS H589528 TO H589534

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-211
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 05-OCT-93
Invoice No. : I9321932
P.O. Number :
Account :FC

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CERTIFICATE OF ANALYSIS A9321932

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589536	299	229	0.6	1.61	16	80	< 0.5	2	1.53	< 0.5	18	95	1520	5.18	< 10	< 1	0.62	40	1.05	270	93
H589537	299	229	1.2	1.55	20	90	0.5	< 2	1.43	< 0.5	16	76	2130	4.33	< 10	< 1	0.67	40	1.07	200	133
H589538	299	229	2.2	1.53	18	60	< 0.5	< 2	1.82	< 0.5	16	102	3920	4.10	10	< 1	0.77	40	1.10	120	286
H589539	299	229	0.6	1.58	8	100	< 0.5	2	1.76	< 0.5	13	94	1210	4.03	10	< 1	0.67	40	1.22	165	69
H589540	299	229	1.0	1.23	32	100	< 0.5	4	1.79	< 0.5	14	90	1240	4.08	10	1	0.41	40	0.97	290	78
H589541	299	229	< 0.2	1.55	18	90	< 0.5	2	2.47	< 0.5	14	101	434	3.20	10	< 1	0.49	60	1.04	150	314
H589542	299	229	8.0	1.23	44	60	< 0.5	188	2.19	< 0.5	13	95	626	5.15	< 10	< 1	0.52	20	0.79	645	64
H589543	299	229	0.2	1.94	10	90	< 0.5	2	2.35	< 0.5	16	105	672	3.45	10	< 1	0.57	20	1.26	165	113
H589544	299	229	0.4	1.77	14	100	< 0.5	2	2.27	< 0.5	13	107	874	3.13	10	< 1	0.58	30	1.16	135	292
H589545	299	229	0.8	1.81	26	140	< 0.5	2	1.65	2.5	15	89	901	4.11	10	< 1	0.47	40	0.95	255	122
H589546	299	229	2.2	2.23	62	80	0.5	2	2.29	< 0.5	21	47	1295	6.34	10	< 1	0.64	60	0.97	350	131
H589547	299	229	0.2	1.59	22	110	0.5	2	2.49	< 0.5	16	70	733	4.44	10	< 1	0.49	60	0.97	220	245
H589548	299	229	< 0.2	2.05	28	120	< 0.5	2	1.40	< 0.5	14	65	491	3.98	10	< 1	0.73	60	1.21	235	84
H589549	299	229	0.4	1.82	28	70	< 0.5	< 2	1.39	< 0.5	22	74	1210	6.56	< 10	< 1	0.71	50	1.14	220	256
H589550	299	229	0.2	2.08	20	100	< 0.5	< 2	1.01	< 0.5	19	63	1115	6.59	< 10	< 1	0.76	40	1.21	175	167
H589551	299	229	< 0.2	2.73	28	130	< 0.5	< 2	1.08	< 0.5	21	72	849	5.19	< 10	< 1	1.30	30	1.76	185	621
H589552	299	229	0.4	2.26	10	130	< 0.5	4	1.20	< 0.5	14	68	939	4.25	10	< 1	1.02	40	1.35	155	329
H589553	299	229	< 0.2	1.96	12	130	< 0.5	2	0.82	< 0.5	15	86	455	3.10	< 10	< 1	0.82	30	1.44	150	484
H589554	299	229	< 0.2	2.34	26	100	< 0.5	< 2	0.72	< 0.5	27	71	731	5.59	< 10	< 1	1.12	30	1.60	185	1300
H589555	299	229	< 0.2	2.24	30	150	< 0.5	< 2	0.55	< 0.5	24	86	734	4.95	< 10	< 1	1.26	20	1.67	170	617
H589556	299	229	0.2	1.79	30	90	< 0.5	< 2	1.79	< 0.5	19	84	765	4.05	< 10	< 1	0.87	30	1.28	135	542
H589557	299	229	< 0.2	1.77	14	90	< 0.5	< 2	1.94	< 0.5	18	71	471	5.18	< 10	< 1	0.80	30	1.18	150	626
H589558	299	229	< 0.2	1.99	< 2	80	< 0.5	< 2	1.66	< 0.5	18	70	559	5.69	< 10	< 1	0.77	30	1.24	175	399
H589559	299	229	< 0.2	1.71	26	80	< 0.5	< 2	1.74	< 0.5	18	74	363	4.67	< 10	< 1	0.76	20	1.25	140	287
H589560	299	229	< 0.2	1.66	14	90	< 0.5	< 2	1.57	< 0.5	17	92	267	3.75	< 10	< 1	0.87	20	1.32	130	133
H589561	299	229	< 0.2	1.58	8	90	< 0.5	< 2	1.37	< 0.5	21	71	572	5.38	< 10	< 1	0.72	20	1.20	165	145
H589562	299	229	4.4	1.94	48	120	< 0.5	< 2	1.49	< 0.5	24	97	748	6.51	< 10	< 1	0.94	30	1.35	230	394
H589563	299	229	0.2	1.92	14	130	< 0.5	< 2	1.72	< 0.5	25	86	686	5.17	10	< 1	0.85	40	1.36	160	428
H589564	299	229	0.4	1.46	18	100	< 0.5	< 2	1.95	< 0.5	24	90	680	5.07	< 10	< 1	0.52	40	1.07	485	226
H589565	299	229	0.4	1.22	36	90	< 0.5	< 2	1.73	< 0.5	37	83	952	3.97	< 10	< 1	0.48	30	1.02	190	245
H589566	299	229	1.6	1.08	54	50	< 0.5	4	1.56	0.5	28	58	998	5.47	< 10	< 1	0.46	30	0.79	590	221
H589567	299	229	0.6	1.54	20	90	< 0.5	2	1.79	< 0.5	25	83	1095	3.45	10	< 1	0.46	40	1.28	140	118
H589568	299	229	0.4	1.71	42	160	< 0.5	< 2	1.44	< 0.5	20	83	693	2.94	< 10	< 1	0.87	20	1.39	145	166
H589569	299	229	0.4	1.67	4	160	< 0.5	2	1.69	< 0.5	18	91	743	2.95	10	< 1	0.82	30	1.33	135	204
H589570	299	229	1.8	1.12	28	60	< 0.5	64	1.60	0.5	19	58	613	3.70	< 10	< 1	0.51	30	0.78	245	112
H589571	299	229	4.6	1.23	26	60	< 0.5	28	1.90	< 0.5	12	79	1695	3.71	< 10	< 1	0.49	30	0.90	425	57
H589572	299	229	0.6	1.69	32	110	< 0.5	4	1.91	< 0.5	21	68	1095	3.74	< 10	< 1	0.56	30	1.08	300	100
H589573	299	229	0.4	1.73	24	110	< 0.5	< 2	1.28	< 0.5	21	74	1285	3.55	10	< 1	0.59	40	1.32	125	135
H589574	299	229	0.6	1.72	< 2	150	< 0.5	< 2	1.67	< 0.5	7	74	1185	2.50	10	< 1	0.55	40	1.23	125	101
H589575	299	229	0.2	2.08	8	140	< 0.5	< 2	1.25	< 0.5	9	57	471	3.00	10	< 1	0.73	40	1.41	160	167

CERTIFICATION: Ivan Bichler

**FOR Ag AND U FROM SAMPLE DESCRIPTIONS H589528 TO H589534

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO-211
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 05-OCT-93
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CERTIFICATE OF ANALYSIS A9321932

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589536	299	229	0.03	17	890	6	4	3	52	0.01	< 10	< 10	29	10	44
H589537	299	229	0.02	15	720	2	4	2	53	0.01	< 10	< 10	19	10	26
H589538	299	229	0.02	18	680	4	< 2	3	152	0.02	< 10	< 10	24	20	16
H589539	299	229	0.04	15	800	< 2	< 2	3	247	0.03	< 10	< 10	30	20	26
H589540	299	229	0.02	17	900	4	2	4	249	< 0.01	< 10	< 10	28	10	28
H589541	299	229	0.04	18	950	4	2	3	185	0.02	< 10	< 10	32	10	20
H589542	299	229	0.02	14	780	44	2	2	206	< 0.01	< 10	< 10	26	10	28
H589543	299	229	0.06	16	790	8	2	4	136	0.05	< 10	< 10	59	10	26
H589544	299	229	0.05	13	700	6	< 2	3	256	0.03	< 10	< 10	46	10	24
H589545	299	229	0.04	17	750	46	6	4	140	0.01	< 10	< 10	42	10	168
H589546	299	229	0.01	20	690	48	12	4	44	0.02	< 10	< 10	44	20	86
H589547	299	229	0.02	15	810	6	4	3	89	< 0.01	< 10	< 10	29	10	30
H589548	299	229	0.03	16	810	6	4	4	48	0.02	< 10	< 10	33	10	22
H589549	299	229	0.03	17	660	6	4	6	36	0.03	< 10	< 10	52	20	36
H589550	299	229	0.05	15	690	4	2	4	40	0.04	< 10	< 10	40	10	30
H589551	299	229	0.03	18	810	4	4	4	36	0.09	< 10	< 10	49	10	30
H589552	299	229	0.04	17	860	6	2	5	51	0.06	< 10	< 10	46	10	28
H589553	299	229	0.05	16	820	2	2	3	35	0.06	< 10	< 10	39	10	28
H589554	299	229	0.06	20	820	< 2	2	4	36	0.09	< 10	< 10	49	20	32
H589555	299	229	0.05	21	820	4	2	4	31	0.11	< 10	< 10	54	10	26
H589556	299	229	0.03	16	650	2	4	4	151	0.07	< 10	< 10	43	20	26
H589557	299	229	0.04	19	700	6	2	3	235	0.06	< 10	< 10	36	30	36
H589558	299	229	0.02	17	810	6	2	4	56	0.06	< 10	< 10	42	20	36
H589559	299	229	0.04	16	720	< 2	4	5	107	0.11	< 10	< 10	54	80	42
H589560	299	229	0.04	14	750	2	4	4	161	0.14	< 10	< 10	47	30	22
H589561	299	229	0.04	18	660	< 2	2	4	85	0.12	< 10	< 10	44	60	32
H589562	299	229	0.03	19	740	14	4	5	121	0.12	< 10	< 10	54	30	60
H589563	299	229	0.03	16	700	4	2	5	98	0.09	< 10	< 10	51	20	40
H589564	299	229	0.02	16	730	16	4	4	111	0.03	< 10	< 10	44	10	36
H589565	299	229	0.02	16	760	12	4	3	173	0.02	< 10	< 10	35	10	24
H589566	299	229	0.01	21	590	20	8	2	41	0.01	< 10	< 10	26	< 10	56
H589567	299	229	0.02	18	710	6	2	4	129	0.03	< 10	< 10	42	< 10	30
H589568	299	229	0.04	21	710	4	4	5	106	0.11	< 10	< 10	51	< 10	48
H589569	299	229	0.03	21	780	4	2	6	150	0.10	< 10	< 10	49	< 10	36
H589570	299	229	0.02	18	720	18	2	2	134	0.01	< 10	< 10	20	< 10	36
H589571	299	229	0.02	19	760	28	2	3	89	0.02	< 10	< 10	25	< 10	28
H589572	299	229	0.03	20	830	4	4	4	116	0.04	< 10	< 10	36	< 10	24
H589573	299	229	0.04	19	790	6	2	5	117	0.07	< 10	< 10	52	< 10	20
H589574	299	229	0.03	15	710	4	< 2	4	208	0.03	< 10	< 10	38	< 10	16
H589575	299	229	0.02	14	620	2	4	4	75	0.06	< 10	< 10	50	< 10	30

CERTIFICATION: Ian Bichler

**FOR Ag AND U FROM SAMPLE DESCRIPTIONS H589528 TO H589534

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Total Pages : :4
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CERTIFICATE OF ANALYSIS A9321932

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589576	299	229	0.2	1.55	< 2	130	< 0.5	< 2	1.61	1.0	7	79	670	3.56	10	< 1	0.61	30	1.11	290	222
H589577	299	229	< 0.2	1.80	< 2	150	< 0.5	< 2	1.51	< 0.5	6	64	357	2.90	10	< 1	0.54	40	1.23	130	159
H589578	299	229	0.2	1.82	20	160	< 0.5	2	1.64	< 0.5	16	80	801	3.44	10	< 1	0.62	30	1.09	390	201
H589579	299	229	< 0.2	1.61	6	220	< 0.5	< 2	1.58	< 0.5	8	72	285	3.96	< 10	< 1	0.81	40	1.17	190	203

CERTIFICATION: David Bichler

**FOR Ag AND U FROM SAMPLE DESCRIPTIONS H589528 TO H589534

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CERTIFICATE OF ANALYSIS A9321932

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589576	299	229	0.03	15	680	16	< 2	4	201	0.04	< 10	< 10	53	20	48
H589577	299	229	0.03	17	810	6	< 2	4	150	0.03	< 10	< 10	44	10	18
H589578	299	229	0.03	17	760	20	< 2	4	101	0.05	< 10	< 10	41	10	30
H589579	299	229	0.03	18	770	8	2	7	175	0.11	< 10	< 10	61	20	24

CERTIFICATION: Stewart Bichler

**FOR Ag AND U FROM SAMPLE DESCRIPTIONS H589528 TO H589534

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9322259

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
575845	208	274	0.04	0.009	0.10	3200						
575846	208	274	0.04	0.008	0.38	4600						
575847	208	276	0.02	0.003	0.21	8800						
575848	208	276	0.03	0.008	0.17	9750						
575849	208	273	0.02	0.008	0.17	11880						
575850	208	276	0.02	0.008	0.24	8900						
575851	208	276	0.01	0.008	0.14	11780						
575852	208	276	0.01	0.007	0.14	10480						
575853	208	276	0.04	0.006	0.03	10040						
575854	208	276	0.02	0.009	0.10	7300						
575855	208	276	0.03	0.003	0.10	10400						
575856	208	276	0.06	0.011	0.17	7300						
575857	208	276	0.26	0.012	0.21	8880						
575858	208	273	0.58	0.006	0.62	12380						
575859	208	276	0.16	0.004	0.14	11360						
575860	208	276	0.20	0.001	0.14	11540						
575861	208	276	0.57	0.003	0.27	11460						
575862	208	276	0.43	0.012	0.21	10220						
575863	208	276	0.41	0.006	0.17	11660						
575864	208	276	0.37	0.005	0.34	11260						
575865	208	276	0.56	0.145	0.21	10620						
575866	208	276	1.13	0.012	0.41	11720						
575867	208	273	0.66	0.041	0.65	12500						
575868	208	273	0.57	0.049	0.21	12540						
575869	208	273	0.36	0.035	0.21	12480						
575870	208	273	0.41	0.039	0.34	12280						
575871	208	273	0.41	0.018	0.34	11860						
575872	208	276	0.31	0.055	0.21	11380						
575873	208	274	0.39	0.024	0.38	5620						
575874	208	276	0.67	0.117	1.10	10280						
575875	208	276	0.57	0.058	0.69	11020						
575876	208	276	0.48	0.014	0.38	11720						
575877	208	273	0.64	0.066	0.31	12600						
575878	208	276	0.49	0.007	0.34	11440						
575879	208	276	0.49	0.002	0.21	9600						
575880	208	273	0.45	0.003	0.17	12080						
575881	208	273	0.12	0.003	0.14	12160						
575882	208	276	0.46	0.011	0.17	11560						
575883	208	276	0.21	0.017	0.21	10540						
575884	208	276	0.39	0.028	0.24	10880						

CERTIFICATION: Jutid Zeinab

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-OCT-93
Invoice No. : I9322259
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9322259

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575885	208	276	0.26	0.008	0.27	11560
575886	208	276	0.24	0.012	0.27	11640
575887	208	276	0.45	0.019	0.31	10340
575888	208	276	0.52	0.016	0.41	8620
575889	208	276	0.76	0.009	0.48	10580
575890	208	276	0.31	0.013	0.38	11660
575891	208	276	0.70	0.023	1.13	10860
575892	208	276	0.53	0.010	0.48	10280
575893	208	276	0.44	0.016	0.48	9520
575894	208	276	0.48	0.030	0.38	10720
575895	208	276	0.94	0.241	0.96	10260
575896	208	273	0.48	0.524	0.34	12160
575897	208	276	0.62	0.127	0.38	11340
575898	208	273	0.50	0.488	0.41	12160
575899	208	273	0.40	0.224	0.45	11880
575900	208	273	0.45	0.230	0.45	11840
575901	208	276	0.42	0.034	0.48	11400
575902	208	276	0.35	0.020	0.34	10100
575903	208	276	0.56	0.038	0.69	10080
575904	208	273	0.24	0.005	0.38	13080
575905	208	276	0.37	0.005	0.41	10380
575906	208	276	0.34	0.113	0.21	8920
575907	208	273	0.67	0.020	0.79	11840
575908	208	276	0.23	0.011	0.27	10720
575909	208	276	0.24	0.014	0.51	11620
575910	208	273	0.26	0.008	0.24	11840
575911	208	276	0.33	0.012	0.62	11600
575912	208	276	0.43	0.024	0.41	11700
575913	208	276	0.50	0.078	0.45	10780
575914	208	276	0.27	0.012	0.27	10800
575915	208	273	0.33	0.011	0.38	12500
575916	208	273	0.30	0.013	0.58	12700
575917	208	273	0.18	0.016	0.27	12140
575918	208	276	0.40	0.018	0.34	11800
575919	208	273	0.13	0.007	0.34	13790
575920	208	273	0.20	0.012	0.17	12660
575921	208	273	0.25	0.012	0.17	12700
575922	208	273	0.24	0.011	0.27	11970
575923	208	273	0.21	0.012	0.21	12600
575924	208	273	0.36	0.013	0.34	12100

CERTIFICATION: Saul Zemlak

Chemex Labs Ltd.

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-OCT-93
Invoice No. :19322259
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322259

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
575925	208	276	0.28	0.011	0.31	11500
575926	208	276	0.31	0.033	0.41	11740
575927	208	276	0.29	0.022	0.48	11650
575928	208	276	0.24	0.007	0.27	10160
575929	208	276	0.27	0.012	0.41	11140
575930	208	276	0.21	0.006	0.21	11760
575931	208	273	0.31	0.013	0.31	12240
575932	208	276	0.21	0.005	0.27	11560
575933	208	273	0.16	0.009	0.17	12060
575934	208	273	0.53	0.018	0.51	12540
575935	208	276	0.41	0.030	0.55	9760
575936	208	273	0.35	0.012	0.38	14460
575937	208	273	0.13	0.011	0.14	15060
575938	208	273	0.07	0.004	0.14	14200
575939	208	273	0.02	0.003	0.10	13620
575940	208	273	0.04	0.001	0.31	13420
575941	208	273	0.02	0.001	0.07	12240
575942	208	273	0.02	0.001	0.27	13780
575943	208	273	0.01	0.001	0.07	13540
575944	208	273	0.04	< 0.001	0.07	13380
575945	208	273	0.02	0.001	0.07	13700
575946	208	273	0.01	< 0.001	0.10	13220
575947	208	273	0.01	0.001	0.14	12960
575948	208	273	0.04	< 0.001	0.07	13500
575949	208	273	0.13	0.031	0.24	12790
575950	208	273	0.12	0.017	0.14	12740
575951	208	273	0.11	0.008	0.24	13220
575952	208	273	0.05	0.003	0.17	13520
575953	208	273	0.09	0.011	0.10	13040
575954	208	273	0.05	0.009	0.07	12720
575955	208	273	0.15	0.011	0.10	12200
575956	208	273	0.05	0.006	0.10	13280
575957	208	273	0.06	0.009	0.10	12800
575958	208	276	0.06	0.002	0.17	11720
575959	208	273	0.04	0.001	0.07	12200
575960	208	273	0.02	0.001	0.03	12420
575961	208	273	0.03	0.002	0.07	12220
575962	208	273	0.06	0.003	0.07	11980
575963	208	273	0.07	0.003	0.07	13640
575964	208	273	0.17	0.046	0.10	13200

CERTIFICATION: David Tennant

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CERTIFICATE OF ANALYSIS A9322259

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
575965	208	276	0.04	0.003	< 0.03	11800						
575966	208	273	0.14	0.001	0.07	12980						
575967	208	273	0.03	0.001	< 0.03	12500						
575968	208	273	0.08	0.001	0.07	13600						
575969	208	273	0.10	0.001	0.14	12380						
575970	208	273	0.07	0.003	< 0.03	12080						
575971	208	273	0.08	0.003	0.10	12360						
575972	208	273	0.08	0.004	0.07	13360						
575973	208	273	0.06	0.005	0.10	12160						
575974	208	273	0.03	0.002	< 0.03	12280						
575975	208	273	0.02	0.001	0.07	12520						
575976	208	273	0.04	0.001	0.03	12340						
575977	208	273	0.08	0.002	0.03	13400						
575978	208	273	0.07	0.001	0.10	12560						
575979	208	273	0.12	0.001	0.10	13240						
575980	208	273	0.04	0.002	0.03	12860						
575981	208	273	0.06	0.001	0.07	13320						
575982	208	273	0.08	0.002	0.07	12540						
575983	208	273	0.05	0.004	0.03	13500						
575984	208	273	0.16	0.003	0.10	13020						
575985	208	273	0.04	0.002	0.03	13640						
575986	208	273	0.23	0.001	0.21	12300						
575987	208	273	0.07	0.002	< 0.03	12920						
575988	208	273	0.09	0.002	< 0.03	13500						
575989	208	273	0.07	0.001	0.03	12040						
575990	208	273	0.03	0.001	< 0.03	12580						
575991	208	273	0.04	0.001	< 0.03	12580						
575992	208	273	0.14	0.010	< 0.03	12340						
575993	208	273	0.22	0.013	0.10	12860						
575994	208	276	0.18	0.024	< 0.03	11520						
575995	208	273	0.10	0.023	0.03	14020						
575996	208	273	0.26	0.021	0.10	13120						
575997	208	273	0.39	0.033	0.21	12500						
575998	208	273	0.30	0.025	0.21	13000						
575999	208	273	0.39	0.026	0.21	13520						
576000	208	273	0.41	0.025	0.34	13340						
589001	208	273	0.40	0.051	0.14	12500						
589002	208	273	0.42	0.033	0.07	13040						
589003	208	273	0.22	0.024	0.07	12900						
589004	208	276	0.36	0.098	0.07	11800						

CERTIFICATION: Saeed Ziaeeb

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 12-OCT-93
Invoice No. :19322259
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CERTIFICATE OF ANALYSIS A9322259

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589005	208	276	0.53	0.034	0.21	11600						
589006	208	273	0.32	0.020	0.10	12280						
589007	208	273	0.31	0.032	0.14	12520						
589008	208	273	0.23	0.024	0.10	12420						
589009	208	273	0.37	0.036	0.14	12320						
589010	208	273	0.31	0.033	0.10	12720						
589011	208	273	0.25	0.042	0.14	13280						
589012	208	273	0.39	0.041	0.14	12220						
589013	208	273	0.24	0.032	0.10	13580						
589014	208	273	0.40	0.032	0.21	12540						
589015	208	276	0.47	0.034	0.31	10000						
589016	208	273	0.46	0.030	0.21	14520						
589017	208	273	0.43	0.029	0.27	12140						
589018	208	273	0.33	0.018	0.24	12100						
589019	208	273	0.26	0.035	0.21	12080						
589020	208	273	0.20	0.023	0.10	13560						
589021	208	273	0.21	0.013	0.14	12320						
589022	208	273	0.29	0.012	0.17	12780						
589023	208	273	0.38	0.028	0.34	12480						
589024	208	273	0.59	0.047	0.21	12060						
589025	208	273	1.08	0.043	0.58	12660						
589026	208	273	1.03	0.032	0.55	12120						
589027	208	273	0.89	0.021	0.45	13260						
589028	208	273	0.51	0.026	0.24	13560						
589029	208	273	0.54	0.016	0.41	12080						
589030	208	273	0.64	0.018	0.21	13240						
589031	208	273	0.84	0.052	0.51	12600						

CERTIFICATION: Gerald Connelly

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-OCT-93
Invoice No. :19322260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575845	299	229	0.8	3.44	66	220	< 0.5	< 2	0.03	< 0.5	3	39	445	5.45	10	< 1	1.57	20	1.08	60	52
575846	299	229	1.8	1.39	158	180	< 0.5	< 2	0.04	< 0.5	4	43	373	5.03	10	< 1	1.10	30	0.14	30	49
575847	299	229	1.6	0.56	94	120	< 0.5	< 2	0.01	< 0.5	6	80	159	3.80	< 10	< 1	0.82	20	0.04	10	20
575848	299	229	0.8	0.71	46	60	< 0.5	< 2	0.01	< 0.5	15	53	302	5.91	< 10	< 1	0.99	10	0.11	10	51
575849	299	229	1.2	0.52	28	40	< 0.5	< 2	0.01	< 0.5	22	89	231	7.16	< 10	< 1	0.98	10	0.03	5	46
575850	299	229	1.8	0.85	36	100	< 0.5	< 2	0.03	< 0.5	2	48	211	5.16	10	< 1	1.04	30	0.06	5	44
575851	299	229	1.2	0.61	28	110	< 0.5	< 2	0.03	< 0.5	4	94	86	4.39	10	< 1	0.92	20	0.04	5	42
575852	299	229	0.8	0.64	26	130	< 0.5	< 2	0.05	< 0.5	6	83	123	4.16	< 10	< 1	0.78	20	0.04	10	38
575853	299	229	0.2	1.02	14	250	< 0.5	< 2	0.10	< 0.5	4	88	363	4.88	< 10	< 1	0.55	10	0.23	35	31
575854	299	229	0.6	0.65	16	130	< 0.5	< 2	0.07	< 0.5	12	101	179	4.37	< 10	< 1	0.53	10	0.11	20	52
575855	299	229	0.8	1.20	12	120	< 0.5	< 2	0.10	< 0.5	19	113	371	3.74	< 10	< 1	0.43	10	0.40	55	14
575856	299	229	1.0	0.88	12	130	< 0.5	< 2	0.06	< 0.5	19	130	655	2.85	< 10	< 1	0.42	10	0.08	15	66
575857	299	229	1.6	1.13	16	20	< 0.5	< 2	0.08	< 0.5	64	133	2690	6.80	< 10	< 1	0.40	10	0.10	15	74
575858	299	229	3.4	1.05	20	10	< 0.5	< 2	0.10	< 0.5	77	115	6030	6.56	< 10	< 1	0.47	20	0.12	15	40
575859	299	229	0.8	0.98	14	20	< 0.5	< 2	0.04	0.5	79	120	1740	6.50	< 10	< 1	0.42	10	0.18	20	35
575860	299	229	1.4	1.00	24	10	< 0.5	< 2	0.06	< 0.5	70	118	2240	6.87	< 10	< 1	0.41	10	0.17	20	18
575861	299	229	2.4	1.17	54	10	< 0.5	4	0.07	1.0	77	118	6000	8.53	< 10	< 1	0.34	10	0.09	10	30
575862	299	229	0.8	0.90	20	10	< 0.5	< 2	0.06	0.5	122	122	4560	9.35	< 10	< 1	0.37	10	0.12	15	76
575863	299	229	1.0	0.75	40	10	< 0.5	< 2	0.06	< 0.5	88	116	4320	8.34	< 10	< 1	0.34	< 10	0.08	10	33
575864	299	229	1.2	0.88	16	20	< 0.5	< 2	0.06	0.5	77	109	3700	6.54	< 10	< 1	0.31	10	0.08	10	28
575865	299	229	1.6	1.21	60	30	< 0.5	< 2	0.08	< 0.5	67	111	5760	6.29	< 10	< 1	0.28	20	0.08	10	817
575866	299	229	3.2	0.86	30	30	< 0.5	30	0.07	< 0.5	48	99	>10000	5.92	< 10	< 1	0.28	20	0.07	10	68
575867	299	229	1.8	0.73	20	10	< 0.5	< 2	0.06	< 0.5	48	124	6620	7.37	< 10	< 1	0.28	20	0.05	10	233
575868	299	229	2.0	0.70	22	10	< 0.5	< 2	0.10	0.5	62	122	5570	6.48	< 10	< 1	0.34	10	0.06	100	264
575869	299	229	1.4	0.95	28	20	< 0.5	< 2	0.09	< 0.5	61	123	3910	5.52	< 10	< 1	0.47	10	0.22	140	216
575870	299	229	1.2	0.93	38	10	< 0.5	< 2	0.08	0.5	124	163	4290	7.01	< 10	< 1	0.49	10	0.22	40	226
575871	299	229	1.6	1.07	16	60	< 0.5	< 2	0.08	< 0.5	72	125	4150	4.16	< 10	< 1	0.42	20	0.13	15	106
575872	299	229	1.2	1.10	12	30	< 0.5	< 2	0.08	< 0.5	43	139	3120	4.97	< 10	< 1	0.67	10	0.51	45	322
575873	299	229	1.4	1.23	16	20	< 0.5	< 2	0.08	< 0.5	58	135	3760	6.68	< 10	< 1	0.61	10	0.45	50	136
575874	299	229	2.2	1.40	16	40	< 0.5	4	0.08	< 0.5	46	134	6680	4.34	< 10	< 1	0.60	10	0.48	35	662
575875	299	229	1.8	1.24	8	30	< 0.5	< 2	0.12	< 0.5	66	121	5830	5.63	< 10	< 1	0.68	< 10	0.50	65	345
575876	299	229	0.8	1.40	24	30	< 0.5	< 2	0.10	< 0.5	54	113	4800	4.49	< 10	< 1	0.52	10	0.32	25	80
575877	299	229	1.6	1.33	12	60	< 0.5	4	0.10	< 0.5	58	135	6210	3.48	< 10	< 1	0.38	10	0.14	65	354
575878	299	229	1.6	1.52	22	60	< 0.5	< 2	0.13	< 0.5	44	128	5110	3.70	< 10	< 1	0.40	20	0.11	245	48
575879	299	229	0.8	1.68	2	70	< 0.5	< 2	0.15	0.5	34	146	4920	3.68	< 10	< 1	0.52	20	0.25	140	17
575880	299	229	0.8	1.70	14	20	< 0.5	4	0.25	< 0.5	40	134	4530	4.75	< 10	< 1	0.64	20	0.49	280	22
575881	299	229	0.4	1.22	18	20	< 0.5	< 2	0.41	< 0.5	44	142	1310	7.05	< 10	< 1	0.53	10	0.38	355	17
575882	299	229	0.6	1.55	12	30	< 0.5	< 2	0.23	< 0.5	43	134	4690	4.34	< 10	< 1	0.41	20	0.44	250	68
575883	299	229	0.4	1.63	14	90	< 0.5	< 2	0.30	0.5	33	116	2110	3.61	< 10	< 1	0.44	10	0.53	385	104
575884	299	229	2.4	1.55	18	60	< 0.5	< 2	1.12	< 0.5	31	146	3930	4.16	< 10	< 1	0.62	20	0.77	290	160

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

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WHITEHORSE, YT
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Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575845	299	229	0.02	4	1060	6	< 2	18	592	0.11	< 10	< 10	125	< 10	32
575846	299	229	0.02	2	1140	26	28	8	579	< 0.01	< 10	< 10	49	< 10	20
575847	299	229	0.02	< 1	410	8	12	2	185	< 0.01	< 10	< 10	17	< 10	8
575848	299	229	0.03	2	380	2	2	6	55	0.06	< 10	< 10	51	< 10	20
575849	299	229	0.03	2	420	< 2	4	3	99	0.04	< 10	< 10	29	< 10	4
575850	299	229	0.02	< 1	690	14	4	5	189	0.03	< 10	< 10	46	< 10	6
575851	299	229	0.02	< 1	720	12	2	2	267	< 0.01	< 10	< 10	17	< 10	4
575852	299	229	0.03	< 1	540	12	4	2	198	< 0.01	< 10	< 10	11	< 10	6
575853	299	229	0.06	2	650	8	2	3	161	< 0.01	< 10	< 10	20	< 10	46
575854	299	229	0.06	3	390	6	< 2	2	103	< 0.01	< 10	< 10	15	< 10	34
575855	299	229	0.05	4	350	6	< 2	3	67	< 0.01	< 10	< 10	21	< 10	40
575856	299	229	0.01	6	470	8	4	2	161	< 0.01	< 10	< 10	12	< 10	34
575857	299	229	0.01	8	530	8	4	3	137	< 0.01	< 10	< 10	16	< 10	46
575858	299	229	0.01	6	600	4	2	2	48	< 0.01	< 10	< 10	13	< 10	34
575859	299	229	0.01	9	360	10	6	3	97	< 0.01	< 10	< 10	21	< 10	28
575860	299	229	0.01	8	410	16	6	3	110	< 0.01	< 10	< 10	21	< 10	26
575861	299	229	0.01	13	500	14	34	4	136	< 0.01	< 10	< 10	15	< 10	100
575862	299	229	0.01	13	380	18	4	3	87	< 0.01	< 10	< 10	16	< 10	30
575863	299	229	0.01	11	320	8	2	2	77	< 0.01	< 10	< 10	12	< 10	26
575864	299	229	0.01	15	350	4	8	2	104	< 0.01	< 10	< 10	12	< 10	26
575865	299	229	0.01	14	690	6	24	4	237	< 0.01	< 10	< 10	16	< 10	38
575866	299	229	0.01	12	500	6	14	3	160	< 0.01	< 10	< 10	12	< 10	30
575867	299	229	0.01	11	390	8	4	2	95	< 0.01	< 10	< 10	11	< 10	32
575868	299	229	0.01	13	460	6	4	2	39	< 0.01	< 10	< 10	12	< 10	20
575869	299	229	0.02	11	310	2	2	3	14	0.01	< 10	< 10	26	< 10	44
575870	299	229	0.02	13	300	14	2	3	11	0.01	< 10	< 10	24	< 10	36
575871	299	229	0.02	10	340	14	< 2	3	42	< 0.01	< 10	< 10	21	< 10	26
575872	299	229	0.02	9	300	2	2	6	11	0.02	< 10	< 10	48	< 10	36
575873	299	229	0.02	11	300	4	2	6	23	0.03	< 10	< 10	48	< 10	36
575874	299	229	0.02	11	500	8	6	7	130	0.03	< 10	< 10	55	< 10	28
575875	299	229	0.02	11	510	4	2	4	24	0.03	< 10	< 10	44	< 10	28
575876	299	229	0.02	9	720	4	< 2	4	186	0.01	< 10	< 10	29	< 10	28
575877	299	229	0.01	11	740	4	2	3	224	< 0.01	< 10	< 10	20	< 10	30
575878	299	229	0.01	8	590	12	4	4	68	< 0.01	< 10	10	28	< 10	42
575879	299	229	0.02	12	650	14	2	6	91	0.02	< 10	< 10	36	< 10	58
575880	299	229	0.02	9	520	16	2	6	55	0.02	< 10	< 10	36	< 10	78
575881	299	229	0.02	7	460	14	< 2	3	19	< 0.01	< 10	< 10	27	< 10	74
575882	299	229	0.03	9	580	16	< 2	5	89	0.02	< 10	< 10	35	< 10	70
575883	299	229	0.02	6	580	14	< 2	7	43	0.01	< 10	< 10	44	< 10	96
575884	299	229	0.02	7	500	8	2	4	37	0.01	< 10	< 10	31	< 10	94

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :5
Certificate Date: 13-OCT-93
Invoice No. :19322260
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Account :FC

CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575885	299	229	1.0	1.64	4	90	< 0.5	2	0.56	< 0.5	29	103	2620	3.65	< 10	< 1	0.66	20	0.91	240	37
575886	299	229	0.8	0.96	20	80	< 0.5	4	0.15	< 0.5	41	62	2610	3.21	< 10	< 1	0.33	10	0.42	290	66
575887	299	229	1.6	1.86	18	110	< 0.5	6	0.17	< 0.5	36	88	4720	2.38	< 10	< 1	0.42	30	0.24	30	99
575888	299	229	2.0	1.23	20	80	< 0.5	6	0.13	< 0.5	39	78	5600	1.97	< 10	< 1	0.15	20	0.06	15	94
575889	299	229	1.8	1.94	16	10	< 0.5	18	0.19	< 0.5	102	89	7880	5.86	< 10	< 1	0.32	20	0.08	260	48
575890	299	229	1.4	0.88	10	60	< 0.5	< 2	0.18	0.5	41	77	3180	4.58	< 10	< 1	0.35	20	0.30	850	74
575891	299	229	3.2	2.10	232	60	< 0.5	14	0.23	0.5	34	105	7150	4.09	< 10	< 1	0.57	20	0.35	595	137
575892	299	229	2.0	0.90	20	70	< 0.5	6	0.15	0.5	42	89	5610	2.24	< 10	< 1	0.16	20	0.04	35	54
575893	299	229	2.2	1.30	12	50	< 0.5	6	0.18	1.0	46	92	4560	2.92	< 10	< 1	0.33	30	0.09	475	90
575894	299	229	2.4	1.03	30	60	< 0.5	4	0.16	3.0	43	92	5200	3.32	< 10	< 1	0.20	20	0.07	590	177
575895	299	229	3.6	1.58	16	80	< 0.5	4	0.11	< 0.5	31	81	9460	2.35	< 10	< 1	0.38	30	0.06	15	1480
575896	299	229	2.4	0.85	46	30	< 0.5	6	0.13	< 0.5	37	54	4960	4.17	< 10	< 1	0.18	10	0.04	10	3080
575897	299	229	2.4	1.61	14	40	< 0.5	6	0.12	< 0.5	60	95	6390	3.69	< 10	< 1	0.49	30	0.10	10	765
575898	299	229	2.4	0.75	26	40	< 0.5	8	0.14	< 0.5	45	72	5250	3.57	< 10	< 1	0.20	30	0.04	10	2860
575899	299	229	4.0	1.06	16	30	< 0.5	6	0.14	< 0.5	34	96	4030	3.87	< 10	< 1	0.45	30	0.08	10	1345
575900	299	229	2.0	0.70	22	30	< 0.5	4	0.12	< 0.5	61	72	4630	3.15	< 10	< 1	0.19	20	0.03	10	1420
575901	299	229	1.8	1.37	34	90	< 0.5	< 2	0.17	1.0	51	89	4170	3.20	< 10	< 1	0.43	10	0.11	960	187
575902	299	229	1.6	0.91	36	70	< 0.5	6	0.15	1.0	72	71	3530	2.82	< 10	< 1	0.20	10	0.04	155	115
575903	299	229	2.6	1.51	20	50	< 0.5	6	0.14	0.5	60	74	5470	2.72	< 10	< 1	0.40	20	0.14	425	195
575904	299	229	1.4	1.16	< 2	30	< 0.5	< 2	0.20	1.0	40	62	2420	5.00	< 10	< 1	0.48	20	0.73	690	16
575905	299	229	2.4	1.68	20	70	< 0.5	4	0.22	1.5	37	72	3680	2.72	< 10	< 1	0.56	20	0.36	515	22
575906	299	229	2.4	0.62	22	30	< 0.5	< 2	0.16	0.5	41	81	3510	4.28	< 10	< 1	0.23	30	0.07	70	639
575907	299	229	5.2	1.90	20	40	< 0.5	20	0.18	1.5	64	91	6810	3.16	< 10	< 1	0.56	20	0.22	80	109
575908	299	229	2.6	1.38	26	20	< 0.5	4	0.21	0.5	37	173	2230	4.60	< 10	< 1	0.47	20	0.12	820	61
575909	299	229	2.8	0.57	28	40	< 0.5	< 2	0.35	< 0.5	39	60	2380	3.92	< 10	< 1	0.25	20	0.15	615	88
575910	299	229	3.2	1.13	18	60	< 0.5	10	0.54	0.5	36	62	2650	4.49	< 10	< 1	0.41	20	0.43	775	37
575911	299	229	4.6	1.96	28	90	< 0.5	< 2	0.23	< 0.5	41	231	3290	4.19	10	< 1	0.65	30	0.29	975	55
575912	299	229	4.2	1.43	22	40	< 0.5	6	0.18	0.5	48	100	4290	3.29	< 10	< 1	0.41	20	0.12	540	121
575913	299	229	14.4	2.54	562	30	< 0.5	12	0.51	3.5	33	372	5470	4.34	10	< 1	0.91	20	0.27	1075	431
575914	299	229	2.2	1.37	26	90	< 0.5	< 2	0.65	< 0.5	30	125	2660	3.12	< 10	< 1	0.52	20	0.41	745	60
575915	299	229	2.2	2.49	20	110	< 0.5	< 2	0.28	< 0.5	34	264	3190	4.42	< 10	< 1	0.81	20	0.62	875	52
575916	299	229	3.6	1.04	6	60	< 0.5	2	0.80	0.5	37	164	3030	4.65	< 10	< 1	0.55	30	0.52	365	60
575917	299	229	2.6	1.12	18	30	< 0.5	< 2	1.32	< 0.5	21	252	1725	3.24	< 10	< 1	0.63	20	0.70	210	74
575918	299	229	4.2	0.92	6	40	< 0.5	< 2	1.11	0.5	37	152	4080	3.71	< 10	< 1	0.50	30	0.58	270	87
575919	299	229	2.6	0.97	34	20	< 0.5	< 2	0.85	< 0.5	22	162	1210	4.99	< 10	< 1	0.57	10	0.49	135	33
575920	299	229	2.4	1.03	16	50	< 0.5	< 2	1.30	0.5	27	164	1980	3.03	< 10	< 1	0.54	20	0.67	170	61
575921	299	229	2.4	0.95	16	80	< 0.5	< 2	0.50	< 0.5	49	192	2470	2.96	< 10	< 1	0.49	20	0.29	155	54
575922	299	229	2.2	1.13	16	100	< 0.5	< 2	0.73	< 0.5	33	184	2300	3.59	< 10	< 1	0.52	10	0.38	225	50
575923	299	229	2.2	0.88	24	40	< 0.5	< 2	0.80	< 0.5	29	135	2080	4.31	< 10	< 1	0.41	10	0.46	135	55
575924	299	229	3.2	1.15	14	100	< 0.5	< 2	1.03	< 0.5	31	182	3480	2.74	< 10	< 1	0.56	20	0.57	135	55

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575885	299	229	0.05	8	520	< 2	< 2	7	22	0.05	< 10	< 10	55	< 10	60
575886	299	229	0.01	6	420	4	< 2	4	15	0.02	< 10	10	32	< 10	44
575887	299	229	0.01	7	660	4	2	5	82	0.01	< 10	< 10	32	< 10	32
575888	299	229	0.01	10	850	12	< 2	4	192	< 0.01	< 10	10	20	< 10	30
575889	299	229	0.01	9	830	24	6	5	79	< 0.01	< 10	< 10	31	< 10	60
575890	299	229	0.01	6	570	4	2	3	17	0.02	< 10	< 10	26	< 10	96
575891	299	229	0.02	10	750	16	30	6	89	0.01	< 10	< 10	36	< 10	112
575892	299	229	0.01	8	690	20	< 2	3	125	< 0.01	< 10	< 10	15	< 10	22
575893	299	229	0.01	8	750	14	< 2	4	57	< 0.01	< 10	< 10	21	< 10	60
575894	299	229	0.01	9	830	26	22	3	149	< 0.01	< 10	10	21	< 10	308
575895	299	229	0.01	8	850	14	12	3	288	< 0.01	< 10	< 10	24	< 10	46
575896	299	229	0.01	9	900	6	32	2	182	< 0.01	< 10	< 10	22	< 10	22
575897	299	229	0.02	20	770	16	6	2	137	< 0.01	< 10	< 10	21	< 10	22
575898	299	229	0.01	12	870	16	30	2	170	< 0.01	< 10	< 10	18	< 10	14
575899	299	229	0.01	8	680	8	14	2	93	< 0.01	< 10	< 10	17	< 10	12
575900	299	229	0.01	9	640	10	14	1	136	< 0.01	< 10	< 10	14	< 10	16
575901	299	229	0.02	6	720	6	28	2	48	< 0.01	< 10	10	23	< 10	60
575902	299	229	0.01	7	710	6	22	2	70	< 0.01	< 10	< 10	15	< 10	42
575903	299	229	0.01	7	680	8	18	3	145	< 0.01	< 10	< 10	21	< 10	34
575904	299	229	0.02	5	540	6	2	5	51	0.04	< 10	< 10	41	< 10	74
575905	299	229	0.01	4	500	4	16	4	20	0.01	< 10	10	32	< 10	112
575906	299	229	0.01	6	710	18	8	2	68	< 0.01	< 10	< 10	11	< 10	20
575907	299	229	0.01	11	800	6	4	5	43	0.01	< 10	< 10	33	< 10	58
575908	299	229	0.01	5	510	10	4	2	26	< 0.01	< 10	< 10	16	< 10	52
575909	299	229	< 0.01	3	620	8	4	1	12	< 0.01	< 10	< 10	10	< 10	36
575910	299	229	0.01	7	620	6	4	3	32	< 0.01	< 10	< 10	27	< 10	50
575911	299	229	0.01	8	600	4	6	4	16	0.01	< 10	< 10	35	< 10	40
575912	299	229	0.01	7	500	2	2	2	32	< 0.01	< 10	< 10	17	< 10	40
575913	299	229	0.02	10	540	54	154	3	37	< 0.01	< 10	< 10	28	< 10	226
575914	299	229	0.01	5	560	6	14	2	16	< 0.01	< 10	< 10	22	< 10	42
575915	299	229	0.02	8	510	< 2	12	4	15	0.02	< 10	< 10	45	< 10	34
575916	299	229	0.01	7	460	14	4	2	17	< 0.01	< 10	< 10	21	< 10	18
575917	299	229	0.01	8	560	22	< 2	1	22	< 0.01	< 10	< 10	13	< 10	16
575918	299	229	0.01	6	490	8	4	2	21	< 0.01	< 10	< 10	18	< 10	16
575919	299	229	0.01	6	530	18	< 2	1	18	< 0.01	< 10	< 10	11	< 10	8
575920	299	229	0.01	5	580	< 2	< 2	2	23	< 0.01	< 10	< 10	13	< 10	14
575921	299	229	0.01	5	330	< 2	2	1	14	< 0.01	< 10	< 10	9	< 10	6
575922	299	229	0.01	5	310	< 2	4	2	18	< 0.01	< 10	< 10	18	< 10	8
575923	299	229	0.01	2	380	2	2	2	18	< 0.01	< 10	< 10	15	< 10	12
575924	299	229	0.02	4	450	< 2	< 2	1	22	< 0.01	< 10	< 10	14	< 10	8

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575925	299	229	3.0	1.04	20	100	< 0.5	4	1.25	< 0.5	17	106	2860	2.62	< 10	< 1	0.48	20	0.65	215	61
575926	299	229	2.6	1.02	20	90	< 0.5	10	0.86	< 0.5	23	131	3080	2.80	< 10	< 1	0.50	20	0.44	185	179
575927	299	229	2.8	0.63	12	110	< 0.5	2	0.59	< 0.5	24	189	2990	1.96	< 10	< 1	0.34	10	0.29	115	123
575928	299	229	2.6	0.72	6	90	< 0.5	2	1.08	0.5	32	117	2630	2.40	< 10	< 1	0.26	20	0.53	210	35
575929	299	229	3.2	0.73	14	60	< 0.5	2	1.11	< 0.5	29	151	2890	2.48	< 10	< 1	0.33	10	0.58	180	62
575930	299	229	2.2	0.55	26	60	< 0.5	6	1.28	< 0.5	25	132	2130	3.12	< 10	< 1	0.29	10	0.64	155	32
575931	299	229	2.6	0.55	8	60	< 0.5	< 2	1.65	< 0.5	23	124	3190	2.54	< 10	< 1	0.28	10	0.62	120	73
575932	299	229	1.8	0.60	20	40	< 0.5	6	2.26	< 0.5	27	173	2230	2.96	< 10	< 1	0.32	10	0.70	110	24
575933	299	229	1.4	0.74	26	30	< 0.5	< 2	1.53	0.5	25	129	1650	3.68	< 10	< 1	0.32	20	0.76	140	45
575934	299	229	5.4	0.79	28	70	< 0.5	6	1.29	< 0.5	41	141	5420	2.98	< 10	< 1	0.35	20	0.63	195	96
575935	299	229	4.0	0.86	74	70	< 0.5	6	1.81	0.5	28	147	4220	3.05	< 10	< 1	0.35	10	0.90	460	165
575936	299	229	3.0	0.92	26	60	< 0.5	2	1.78	< 0.5	24	103	3650	2.91	< 10	< 1	0.38	20	0.92	160	69
575937	299	229	2.8	0.67	38	90	< 0.5	< 2	2.40	< 0.5	14	121	1410	3.33	< 10	< 1	0.35	< 10	0.78	160	66
575938	299	229	2.0	0.96	36	90	< 0.5	2	2.91	< 0.5	11	131	790	3.11	< 10	< 1	0.50	< 10	0.76	185	27
575939	299	229	1.2	0.96	22	100	< 0.5	2	2.44	< 0.5	8	92	183	2.90	< 10	< 1	0.53	< 10	0.42	145	20
575940	299	229	1.4	1.14	30	70	< 0.5	14	2.62	< 0.5	10	84	462	3.14	< 10	< 1	0.60	< 10	0.44	150	3
575941	299	229	1.2	1.08	18	70	< 0.5	6	2.06	< 0.5	6	86	246	2.82	< 10	< 1	0.58	< 10	0.58	165	4
575942	299	229	1.4	0.89	30	90	< 0.5	6	2.07	< 0.5	6	91	221	3.08	< 10	< 1	0.49	< 10	0.58	155	5
575943	299	229	0.4	0.78	20	90	< 0.5	2	2.14	< 0.5	7	93	50	2.83	< 10	< 1	0.43	< 10	0.47	145	5
575944	299	229	0.8	0.88	16	90	< 0.5	4	2.42	< 0.5	13	76	420	3.38	< 10	< 1	0.49	< 10	0.54	140	3
575945	299	229	0.6	1.00	16	70	< 0.5	6	1.89	< 0.5	8	73	167	3.41	< 10	< 1	0.53	< 10	0.53	155	7
575946	299	229	0.6	1.06	28	60	< 0.5	2	1.80	< 0.5	12	62	125	3.37	< 10	< 1	0.56	< 10	0.41	120	1
575947	299	229	1.0	1.19	38	40	< 0.5	40	0.98	< 0.5	14	66	129	3.63	< 10	< 1	0.60	< 10	0.40	120	6
575948	299	229	1.0	1.22	26	40	< 0.5	4	1.25	< 0.5	4	83	460	3.23	< 10	< 1	0.58	< 10	0.44	135	3
575949	299	229	4.0	0.90	34	60	< 0.5	16	1.51	0.5	7	72	1495	3.08	< 10	< 1	0.49	< 10	0.45	140	177
575950	299	229	4.0	1.19	40	40	< 0.5	20	0.89	0.5	6	106	1195	3.80	< 10	< 1	0.63	< 10	0.38	105	87
575951	299	229	2.8	0.75	52	40	< 0.5	10	1.25	0.5	8	44	1250	3.92	< 10	< 1	0.44	< 10	0.44	125	48
575952	299	229	2.0	1.16	50	40	< 0.5	26	1.13	0.5	7	80	576	3.95	< 10	< 1	0.63	< 10	0.38	105	12
575953	299	229	1.8	1.01	34	60	< 0.5	18	1.52	0.5	9	76	1040	3.52	< 10	< 1	0.56	< 10	0.43	135	59
575954	299	229	1.4	1.29	50	50	< 0.5	20	1.39	< 0.5	8	114	537	3.71	< 10	< 1	0.72	< 10	0.43	120	49
575955	299	229	2.0	0.77	50	30	< 0.5	92	1.47	0.5	11	68	1555	4.41	< 10	< 1	0.46	< 10	0.31	100	68
575956	299	229	1.4	1.09	22	80	< 0.5	14	1.89	< 0.5	7	104	517	3.36	< 10	< 1	0.59	< 10	0.47	140	37
575957	299	229	1.4	1.24	28	70	< 0.5	16	1.73	< 0.5	7	162	643	3.37	< 10	< 1	0.70	< 10	0.48	135	52
575958	299	229	1.4	1.37	26	70	0.5	6	1.62	< 0.5	5	164	586	3.46	< 10	< 1	0.76	< 10	0.55	145	9
575959	299	229	0.8	1.05	12	80	< 0.5	18	1.81	0.5	6	96	377	2.92	< 10	< 1	0.64	< 10	0.52	140	6
575960	299	229	0.6	0.51	12	70	< 0.5	16	1.94	< 0.5	3	55	226	2.92	< 10	< 1	0.32	< 10	0.42	125	8
575961	299	229	1.0	1.00	20	60	0.5	26	1.59	< 0.5	8	99	288	3.17	< 10	< 1	0.60	< 10	0.39	105	12
575962	299	229	1.0	1.36	12	70	< 0.5	20	1.67	< 0.5	4	145	592	3.04	< 10	< 1	0.75	< 10	0.43	105	16
575963	299	229	1.6	1.00	20	70	< 0.5	20	1.71	0.5	6	80	712	3.20	< 10	< 1	0.63	< 10	0.51	130	15
575964	299	229	3.8	1.28	24	100	< 0.5	38	1.04	0.5	4	146	1690	3.23	< 10	< 1	0.80	< 10	0.44	140	249

CERTIFICATION:

Chemex Labs Ltd.

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): ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page oer :3-B
Total Pages :5
Certificate Date: 13-OCT-93
Invoice No. : I9322260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575925	299	229	0.01	5	670	< 2	2	1	18	< 0.01	< 10	10	11	< 10	12
575926	299	229	0.01	3	600	2	< 2	1	16	< 0.01	< 10	< 10	10	< 10	12
575927	299	229	0.01	4	220	< 2	2	< 1	15	< 0.01	< 10	< 10	6	< 10	8
575928	299	229	0.01	5	360	< 2	2	1	18	< 0.01	< 10	10	10	< 10	12
575929	299	229	0.01	4	430	< 2	2	1	26	< 0.01	< 10	10	10	< 10	16
575930	299	229	0.01	4	470	6	2	1	22	< 0.01	< 10	< 10	10	< 10	8
575931	299	229	0.01	4	460	< 2	2	1	63	< 0.01	< 10	< 10	8	< 10	10
575932	299	229	0.02	5	470	2	2	1	273	< 0.01	< 10	< 10	11	< 10	14
575933	299	229	0.02	4	470	4	< 2	2	83	< 0.01	< 10	< 10	10	< 10	12
575934	299	229	0.01	6	450	8	6	1	27	< 0.01	< 10	< 10	10	< 10	10
575935	299	229	0.01	4	520	4	8	2	31	< 0.01	< 10	< 10	17	< 10	24
575936	299	229	0.02	6	540	< 2	2	4	61	< 0.01	< 10	< 10	26	< 10	18
575937	299	229	0.01	5	540	12	4	2	71	< 0.01	< 10	< 10	11	< 10	16
575938	299	229	0.01	4	620	2	< 2	2	91	< 0.01	< 10	< 10	12	< 10	22
575939	299	229	0.01	3	670	12	2	1	81	< 0.01	< 10	< 10	8	< 10	12
575940	299	229	0.01	3	710	18	< 2	1	94	< 0.01	< 10	< 10	9	< 10	14
575941	299	229	0.01	4	720	24	2	1	89	< 0.01	< 10	< 10	8	< 10	14
575942	299	229	0.01	3	670	14	< 2	1	85	< 0.01	< 10	< 10	7	< 10	14
575943	299	229	0.01	3	670	20	< 2	1	75	< 0.01	< 10	< 10	7	< 10	8
575944	299	229	0.01	2	690	26	2	1	84	< 0.01	< 10	< 10	7	< 10	14
575945	299	229	0.01	4	690	24	< 2	1	61	< 0.01	< 10	< 10	7	< 10	14
575946	299	229	0.01	4	680	10	4	1	57	< 0.01	< 10	10	6	< 10	8
575947	299	229	0.01	3	680	34	2	1	34	< 0.01	< 10	< 10	7	< 10	8
575948	299	229	0.01	4	700	16	< 2	1	41	< 0.01	< 10	10	6	< 10	14
575949	299	229	0.01	4	630	22	4	1	42	< 0.01	< 10	< 10	7	< 10	46
575950	299	229	0.01	4	570	20	< 2	1	35	< 0.01	< 10	< 10	8	< 10	32
575951	299	229	0.01	5	610	36	< 2	1	50	< 0.01	< 10	< 10	7	< 10	38
575952	299	229	0.01	3	680	18	< 2	1	40	< 0.01	< 10	10	7	< 10	20
575953	299	229	0.01	5	610	16	2	1	49	< 0.01	< 10	10	9	< 10	32
575954	299	229	0.02	7	560	20	< 2	1	53	< 0.01	< 10	10	10	< 10	14
575955	299	229	0.01	6	570	48	2	1	61	< 0.01	< 10	< 10	6	< 10	24
575956	299	229	0.01	4	650	26	2	1	68	< 0.01	< 10	10	8	< 10	18
575957	299	229	0.02	8	630	26	2	1	71	< 0.01	< 10	< 10	11	< 10	22
575958	299	229	0.02	4	660	18	< 2	1	68	< 0.01	< 10	< 10	10	< 10	20
575959	299	229	0.01	3	690	20	< 2	1	66	< 0.01	< 10	10	7	< 10	14
575960	299	229	0.01	4	670	22	< 2	< 1	90	< 0.01	< 10	< 10	4	< 10	10
575961	299	229	0.01	3	610	16	< 2	1	67	< 0.01	< 10	< 10	8	< 10	14
575962	299	229	0.02	4	680	22	2	1	59	< 0.01	< 10	< 10	9	< 10	20
575963	299	229	0.01	5	680	18	< 2	1	63	< 0.01	< 10	< 10	8	< 10	22
575964	299	229	0.02	7	600	16	4	1	48	< 0.01	< 10	< 10	12	< 10	52

CERTIFICATION: Stewart Bachlan

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-OCT-93
Invoice No. :19322260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
575965	299	229	1.2	1.28	22	90	0.5	16	1.43	< 0.5	6	74	412	3.44	< 10	< 1	0.76	< 10	0.43	130	15
575966	299	229	2.0	0.54	72	100	< 0.5	48	1.79	0.5	4	27	1420	2.93	< 10	< 1	0.34	< 10	0.50	425	3
575967	299	229	0.8	0.48	22	80	0.5	12	2.02	< 0.5	4	34	332	3.10	< 10	< 1	0.30	< 10	0.38	160	4
575968	299	229	1.4	0.90	4	120	0.5	32	2.22	0.5	3	44	799	2.81	< 10	< 1	0.56	< 10	0.50	135	7
575969	299	229	3.0	0.45	14	80	0.5	270	1.89	< 0.5	4	39	997	3.02	< 10	< 1	0.31	< 10	0.38	105	4
575970	299	229	2.0	0.88	< 2	100	< 0.5	36	1.80	< 0.5	4	65	688	2.69	< 10	< 1	0.55	< 10	0.45	110	17
575971	299	229	1.2	0.38	26	70	< 0.5	20	2.25	< 0.5	5	54	759	2.77	< 10	< 1	0.25	< 10	0.44	135	20
575972	299	229	1.6	0.85	22	90	0.5	14	1.91	< 0.5	6	63	785	3.11	< 10	< 1	0.54	< 10	0.49	220	23
575973	299	229	1.4	0.37	18	70	< 0.5	16	2.17	< 0.5	4	44	550	2.77	< 10	< 1	0.25	< 10	0.36	185	26
575974	299	229	0.6	0.69	18	110	0.5	12	3.08	< 0.5	4	60	320	2.43	< 10	< 1	0.37	10	0.53	170	8
575975	299	229	0.6	0.43	16	70	< 0.5	6	2.66	< 0.5	4	45	226	2.45	< 10	< 1	0.27	< 10	0.34	210	5
575976	299	229	1.0	0.91	24	90	0.5	40	2.51	< 0.5	6	58	383	3.22	< 10	< 1	0.55	< 10	0.43	170	5
575977	299	229	2.2	0.45	18	70	0.5	32	1.97	< 0.5	3	30	929	3.15	< 10	< 1	0.27	< 10	0.44	120	9
575978	299	229	2.0	0.86	18	130	0.5	4	2.54	< 0.5	4	58	646	2.17	< 10	< 1	0.47	< 10	0.44	120	4
575979	299	229	1.4	0.46	18	160	0.5	4	3.02	< 0.5	3	49	1175	2.09	< 10	< 1	0.24	< 10	0.43	125	4
575980	299	229	0.8	0.83	14	130	0.5	4	2.91	< 0.5	4	58	429	2.41	< 10	< 1	0.43	< 10	0.40	100	7
575981	299	229	0.8	0.47	4	120	< 0.5	4	2.72	< 0.5	3	48	590	2.25	< 10	< 1	0.23	< 10	0.39	95	1
575982	299	229	1.8	0.87	14	110	< 0.5	< 2	2.45	< 0.5	4	67	809	2.39	< 10	< 1	0.42	< 10	0.40	95	7
575983	299	229	1.2	0.49	14	80	0.5	2	2.47	< 0.5	6	52	503	2.50	< 10	< 1	0.21	< 10	0.30	100	19
575984	299	229	3.0	0.75	10	90	0.5	14	2.47	< 0.5	4	78	1610	2.77	< 10	< 1	0.43	< 10	0.32	110	16
575985	299	229	1.4	0.31	12	60	0.5	< 2	2.04	0.5	4	51	399	2.12	< 10	< 1	0.20	< 10	0.29	185	10
575986	299	229	2.8	0.64	14	80	0.5	32	2.67	0.5	4	70	2310	2.53	< 10	< 1	0.37	< 10	0.35	140	6
575987	299	229	1.4	0.33	18	40	< 0.5	< 2	2.36	0.5	7	53	671	2.29	< 10	< 1	0.19	< 10	0.32	170	9
575988	299	229	1.6	0.66	14	100	0.5	36	2.27	< 0.5	6	67	908	2.45	< 10	< 1	0.33	< 10	0.35	65	6
575989	299	229	0.8	0.38	18	70	0.5	2	2.64	< 0.5	4	46	679	2.14	< 10	< 1	0.19	< 10	0.36	70	4
575990	299	229	0.6	0.56	14	90	0.5	< 2	2.81	< 0.5	3	62	245	2.20	< 10	< 1	0.29	< 10	0.37	65	2
575991	299	229	0.4	0.38	20	100	0.5	< 2	2.73	< 0.5	4	59	417	2.14	< 10	< 1	0.20	< 10	0.31	65	3
575992	299	229	1.6	0.72	20	110	0.5	2	1.87	< 0.5	10	104	1395	2.77	< 10	< 1	0.41	10	0.50	85	54
575993	299	229	2.4	0.38	6	70	0.5	2	1.94	2.5	10	64	2260	2.92	< 10	< 1	0.20	10	0.43	85	73
575994	299	229	2.4	0.68	2	70	0.5	< 2	1.43	2.0	6	101	1915	2.91	< 10	< 1	0.41	20	0.51	85	148
575995	299	229	1.2	0.35	18	70	< 0.5	4	1.53	0.5	6	83	1025	2.75	< 10	< 1	0.22	10	0.51	70	131
575996	299	229	2.4	0.61	36	80	< 0.5	6	1.23	0.5	19	115	2600	2.62	< 10	< 1	0.40	20	0.61	85	121
575997	299	229	3.2	0.46	28	70	< 0.5	16	1.10	< 0.5	29	72	4160	2.83	< 10	< 1	0.33	10	0.53	95	213
575998	299	229	2.4	0.75	26	60	< 0.5	8	0.98	< 0.5	24	132	2960	3.40	< 10	< 1	0.49	10	0.47	75	144
575999	299	229	3.8	0.41	18	60	< 0.5	4	1.07	< 0.5	31	74	3940	2.94	< 10	< 1	0.32	< 10	0.33	60	151
576000	299	229	4.8	0.55	26	60	< 0.5	20	1.03	< 0.5	31	146	4230	2.95	< 10	< 1	0.40	10	0.40	75	146
589001	299	229	6.8	0.44	12	90	< 0.5	14	0.78	< 0.5	20	83	4160	1.91	< 10	< 1	0.32	20	0.35	75	322
589002	299	229	3.8	0.59	12	40	0.5	10	0.70	< 0.5	18	146	4420	3.31	< 10	< 1	0.39	10	0.34	180	201
589003	299	229	1.8	1.07	4	150	< 0.5	< 2	0.52	< 0.5	21	88	2160	1.97	< 10	< 1	0.88	20	1.00	105	145
589004	299	229	2.4	0.63	4	120	0.5	2	0.61	< 0.5	18	149	3680	1.94	< 10	< 1	0.42	20	0.31	50	583

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-OCT-93
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CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
575965	299	229	0.02	3	690	2	< 2	1	54	< 0.01	< 10	10	9	< 10	10
575966	299	229	0.01	3	720	12	16	< 1	64	< 0.01	< 10	10	4	< 10	38
575967	299	229	0.01	3	730	8	2	< 1	95	< 0.01	< 10	< 10	4	< 10	8
575968	299	229	0.01	2	700	< 2	< 2	1	124	< 0.01	< 10	< 10	7	< 10	18
575969	299	229	0.01	3	730	8	4	< 1	104	< 0.01	< 10	10	3	< 10	8
575970	299	229	0.01	2	660	16	4	1	95	< 0.01	< 10	< 10	7	< 10	10
575971	299	229	0.01	7	690	12	2	< 1	94	< 0.01	< 10	< 10	4	< 10	16
575972	299	229	0.01	6	700	10	< 2	1	60	< 0.01	< 10	10	7	< 10	20
575973	299	229	0.01	5	630	24	2	< 1	77	< 0.01	< 10	< 10	3	< 10	30
575974	299	229	0.01	4	710	36	< 2	1	131	< 0.01	< 10	< 10	6	< 10	28
575975	299	229	0.01	2	750	12	2	< 1	108	< 0.01	< 10	10	3	< 10	14
575976	299	229	0.01	3	690	8	2	< 1	103	< 0.01	< 10	< 10	6	< 10	8
575977	299	229	0.01	3	740	18	2	< 1	94	< 0.01	< 10	< 10	2	< 10	8
575978	299	229	0.01	2	710	24	< 2	< 1	107	< 0.01	< 10	< 10	5	< 10	12
575979	299	229	0.02	3	720	6	4	< 1	139	< 0.01	< 10	10	3	< 10	12
575980	299	229	0.02	2	720	6	2	< 1	109	< 0.01	< 10	< 10	5	< 10	8
575981	299	229	0.01	3	700	6	2	< 1	118	< 0.01	< 10	< 10	2	< 10	18
575982	299	229	0.01	4	730	12	< 2	< 1	100	< 0.01	< 10	10	4	< 10	18
575983	299	229	0.01	2	660	14	2	< 1	82	< 0.01	< 10	< 10	2	< 10	16
575984	299	229	0.01	4	680	6	2	< 1	90	< 0.01	< 10	< 10	4	< 10	18
575985	299	229	0.01	4	670	32	< 2	< 1	62	< 0.01	< 10	10	1	< 10	50
575986	299	229	0.01	4	710	24	< 2	< 1	85	< 0.01	< 10	< 10	3	< 10	48
575987	299	229	0.01	3	690	22	< 2	< 1	77	< 0.01	< 10	< 10	1	< 10	34
575988	299	229	0.02	3	700	8	< 2	< 1	87	< 0.01	< 10	10	3	< 10	16
575989	299	229	0.01	2	710	8	2	< 1	85	< 0.01	< 10	< 10	1	< 10	20
575990	299	229	0.02	3	720	4	< 2	< 1	97	< 0.01	< 10	< 10	2	< 10	22
575991	299	229	0.01	2	710	12	2	< 1	99	< 0.01	< 10	10	1	< 10	20
575992	299	229	0.02	5	620	6	< 2	1	82	< 0.01	< 10	< 10	8	< 10	18
575993	299	229	0.01	8	660	30	< 2	1	73	< 0.01	< 10	< 10	4	< 10	158
575994	299	229	0.01	4	570	38	4	1	50	< 0.01	< 10	< 10	7	< 10	138
575995	299	229	0.01	5	570	28	< 2	1	62	< 0.01	< 10	< 10	4	< 10	70
575996	299	229	0.01	7	480	26	2	1	123	< 0.01	< 10	10	9	< 10	48
575997	299	229	0.01	7	420	12	4	1	340	< 0.01	< 10	< 10	9	< 10	32
575998	299	229	0.01	5	480	20	< 2	1	86	< 0.01	< 10	10	9	< 10	40
575999	299	229	0.01	6	320	10	2	1	102	< 0.01	< 10	< 10	8	< 10	42
576000	299	229	0.01	7	330	8	2	1	49	< 0.01	< 10	10	10	< 10	52
589001	299	229	0.01	7	390	36	6	1	28	< 0.01	< 10	< 10	9	< 10	68
589002	299	229	0.01	11	280	20	2	2	25	< 0.01	< 10	< 10	14	< 10	26
589003	299	229	0.02	8	280	6	2	9	17	0.07	< 10	10	67	< 10	20
589004	299	229	0.01	9	240	6	4	2	19	< 0.01	< 10	10	19	< 10	10

CERTIFICATION: Ian A Bradley

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Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :5-A
Total Pages :5
Certificate Date: 13-OCT-93
Invoice No. :I9322260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589005	299	229	5.2	0.37	4	130	< 0.5	16	0.53	< 0.5	16	65	5470	1.61	< 10	< 1	0.26	10	0.29	55	218
589006	299	229	2.8	0.84	8	130	0.5	8	0.77	< 0.5	16	87	3370	2.18	< 10	< 1	0.54	10	0.47	80	127
589007	299	229	2.6	0.53	8	120	0.5	12	0.35	< 0.5	15	58	3170	2.03	< 10	< 1	0.37	10	0.33	40	226
589008	299	229	1.6	0.82	< 2	100	< 0.5	4	0.68	< 0.5	20	103	2520	2.44	< 10	< 1	0.55	10	0.49	55	157
589009	299	229	2.4	0.41	< 2	140	< 0.5	20	0.49	< 0.5	17	49	3840	1.59	< 10	< 1	0.30	< 10	0.42	50	212
589010	299	229	1.6	0.46	2	210	< 0.5	8	0.62	< 0.5	12	96	3050	1.10	< 10	< 1	0.34	20	0.26	60	203
589011	299	229	1.6	0.24	2	80	< 0.5	8	0.75	0.5	24	64	2580	2.36	< 10	< 1	0.17	< 10	0.29	80	286
589012	299	229	2.6	0.50	8	140	< 0.5	10	0.54	< 0.5	21	98	4150	1.67	< 10	< 1	0.36	10	0.31	60	253
589013	299	229	2.2	0.25	14	60	0.5	12	0.60	< 0.5	23	59	2390	2.80	< 10	< 1	0.15	< 10	0.25	60	198
589014	299	229	2.8	0.98	8	150	< 0.5	6	0.82	< 0.5	28	106	4040	2.19	< 10	< 1	0.65	10	0.81	85	194
589015	299	229	2.4	0.70	4	90	0.5	18	0.75	< 0.5	33	76	4780	2.83	< 10	< 1	0.47	20	0.72	150	195
589016	299	229	2.4	0.46	8	100	< 0.5	18	1.25	0.5	32	89	4690	2.47	< 10	< 1	0.26	10	0.67	165	185
589017	299	229	2.0	1.11	20	120	0.5	12	0.94	< 0.5	24	118	4340	2.19	< 10	< 1	0.70	20	0.93	95	171
589018	299	229	1.6	0.59	14	140	0.5	8	1.48	< 0.5	26	77	3260	2.32	< 10	< 1	0.34	20	0.84	250	109
589019	299	229	1.6	1.09	10	150	< 0.5	4	0.85	< 0.5	25	105	2540	2.30	< 10	< 1	0.67	20	0.85	160	213
589020	299	229	1.2	1.67	4	130	0.5	24	1.16	0.5	19	146	1860	3.06	10	< 1	0.71	20	1.77	150	125
589021	299	229	1.0	1.68	< 2	70	1.0	6	1.64	1.0	24	157	2010	3.87	10	< 1	0.37	10	2.35	170	74
589022	299	229	1.6	2.08	< 2	100	1.0	16	1.17	0.5	20	168	2720	4.02	10	< 1	1.07	10	2.47	145	66
589023	299	229	2.2	0.83	< 2	100	0.5	8	0.42	< 0.5	49	70	3920	3.11	< 10	< 1	0.68	10	0.93	75	176
589024	299	229	3.0	0.79	< 2	90	< 0.5	18	0.53	< 0.5	36	103	6130	2.92	< 10	< 1	0.62	30	0.69	105	288
589025	299	229	7.4	0.24	10	40	1.0	52	0.81	< 0.5	28	80	>10000	3.61	< 10	< 1	0.17	< 10	0.36	570	274
589026	299	229	4.6	0.80	6	70	0.5	32	0.45	< 0.5	23	134	9960	2.81	< 10	< 1	0.63	40	0.69	285	188
589027	299	229	4.6	0.78	20	80	0.5	26	0.69	< 0.5	35	107	9280	2.80	< 10	< 1	0.58	10	0.72	225	126
589028	299	229	2.8	0.70	250	20	1.0	16	0.82	0.5	51	164	5300	4.74	< 10	< 1	0.41	10	0.49	440	155
589029	299	229	2.4	0.47	20	70	0.5	16	0.46	< 0.5	47	104	5790	3.18	< 10	< 1	0.33	< 10	0.25	70	98
589030	299	229	3.4	0.65	12	40	0.5	12	0.48	< 0.5	28	137	6810	3.48	< 10	< 1	0.39	10	0.31	55	114
589031	299	229	3.0	0.74	< 2	110	0.5	24	0.46	< 0.5	23	155	8560	2.62	< 10	< 1	0.56	30	0.51	40	314

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 212
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-OCT-93
Invoice No. :I9322260
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322260

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589005	299	229	0.01	10	200	10	2	2	14	< 0.01	< 10	< 10	16	< 10	28
589006	299	229	0.02	10	290	10	2	4	20	0.01	< 10	20	26	< 10	20
589007	299	229	0.01	7	380	16	< 2	2	16	< 0.01	< 10	30	16	< 10	30
589008	299	229	0.02	10	330	12	2	4	19	0.01	< 10	< 10	30	< 10	16
589009	299	229	0.01	10	260	4	4	4	15	0.01	< 10	10	27	< 10	6
589010	299	229	0.01	6	300	4	6	1	16	< 0.01	< 10	< 10	9	< 10	12
589011	299	229	0.01	9	350	8	6	1	14	< 0.01	< 10	< 10	9	< 10	18
589012	299	229	0.01	12	240	2	4	2	17	< 0.01	< 10	10	19	< 10	8
589013	299	229	0.01	10	360	16	2	2	12	< 0.01	< 10	10	14	< 10	22
589014	299	229	0.02	13	320	< 2	< 2	8	22	0.04	< 10	10	55	< 10	14
589015	299	229	0.01	17	310	4	4	7	17	0.04	< 10	< 10	45	< 10	16
589016	299	229	0.01	16	310	2	4	8	18	0.01	< 10	10	42	< 10	14
589017	299	229	0.02	15	350	6	6	8	23	0.04	< 10	10	53	< 10	18
589018	299	229	0.01	17	430	2	6	7	19	0.02	< 10	< 10	40	< 10	18
589019	299	229	0.02	15	850	14	4	8	22	0.04	< 10	10	54	< 10	14
589020	299	229	0.04	35	590	8	2	8	45	0.04	< 10	< 10	64	< 10	34
589021	299	229	0.03	61	700	2	< 2	7	88	0.02	< 10	< 10	63	< 10	40
589022	299	229	0.08	58	720	16	4	9	44	0.06	< 10	< 10	71	< 10	36
589023	299	229	0.01	14	220	4	2	6	22	0.07	< 10	10	59	< 10	12
589024	299	229	0.02	16	180	4	6	6	19	0.03	< 10	< 10	52	< 10	10
589025	299	229	0.01	18	210	4	4	2	18	< 0.01	< 10	20	12	< 10	6
589026	299	229	0.02	15	150	6	4	6	17	0.03	< 10	10	49	< 10	8
589027	299	229	0.02	15	220	8	2	5	29	0.03	< 10	10	49	< 10	16
589028	299	229	0.01	15	250	14	4	3	33	< 0.01	< 10	< 10	25	< 10	14
589029	299	229	0.01	13	490	< 2	2	2	32	< 0.01	< 10	20	21	< 10	8
589030	299	229	0.01	14	210	8	2	2	32	< 0.01	< 10	10	16	< 10	18
589031	299	229	0.02	20	290	6	4	4	26	0.02	< 10	< 10	36	< 10	14

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 213
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-OCT-93
Invoice No. :19322344
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322344

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
565591	208 274	0.02	0.019	0.21	5380
565592	208 274	0.02	0.018	0.14	1320
565593	208 274	0.12	0.023	0.10	2780
565594	208 274	0.14	0.035	0.21	3800
565595	208 276	0.14	0.047	0.17	8620
565596	208 274	0.16	0.061	0.14	2280
565597	208 276	0.05	0.073	0.10	8280
565598	208 276	0.06	0.036	0.14	7680
565599	208 276	0.14	0.039	0.14	8120
565600	208 276	0.27	0.018	0.10	8620
565601	208 276	0.13	0.017	0.14	10800
565602	208 276	0.08	0.031	0.17	8760
565603	208 276	0.21	0.061	0.24	8480
565604	208 274	0.09	0.030	0.10	7100
565605	208 276	0.04	0.019	0.07	10120
565606	208 276	0.03	0.016	< 0.03	9640
565607	208 276	0.11	0.020	0.07	10960
565608	208 276	0.10	0.027	0.07	7420
565609	208 273	0.10	0.044	0.03	14620
565610	208 276	0.14	0.014	0.03	11380
565611	208 276	0.15	0.016	0.07	10520
565612	208 276	0.16	0.027	< 0.03	11500
565613	208 273	0.18	0.023	0.07	12400
565614	208 273	0.10	0.013	0.07	12720
565615	208 276	0.12	0.015	< 0.03	11460
565616	208 276	0.07	0.014	0.03	11600
565617	208 276	0.11	0.022	0.03	9680
565618	208 276	0.08	0.024	< 0.03	11640
565619	208 276	0.07	0.021	0.07	11660
565620	208 276	0.08	0.015	0.03	10000
565621	208 276	0.11	0.019	0.10	10780
565622	208 276	0.09	0.019	0.10	11460
565623	208 276	0.11	0.033	0.21	11320
565624	208 273	0.08	0.036	0.03	12040
565625	208 276	0.06	0.023	0.14	10460
565626	208 274	0.11	0.017	0.17	6940
565627	208 276	0.06	0.011	0.10	8740
565628	208 276	0.08	0.013	0.10	9960
565629	208 274	0.10	0.016	0.14	5580
565630	208 276	0.07	0.012	0.03	11140

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CERTIFICATE OF ANALYSIS A9322344

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
565631	208 276	0.09	0.014	0.07	11000
565632	208 276	0.08	0.022	0.07	10360
565633	208 276	0.09	0.017	0.07	11280
565634	208 276	0.07	0.020	0.03	11720
565635	208 276	0.09	0.026	0.21	11740
565636	208 276	0.08	0.013	0.07	10060
565637	208 273	0.06	0.014	< 0.03	11820
565638	208 276	0.04	0.031	< 0.03	9900
565639	208 276	0.06	0.175	0.10	11760
565640	208 276	0.08	0.029	0.27	11300
565641	208 273	0.07	0.048	< 0.03	11860
565642	208 273	0.14	0.033	0.07	12940
565643	208 273	0.07	0.334	< 0.03	12300
565644	208 276	0.10	0.043	0.07	10480
565645	208 276	0.12	0.052	0.14	8380
565646	208 276	0.07	0.018	0.10	11220
565647	208 273	0.04	0.010	0.03	13130
565648	208 273	0.03	0.017	< 0.03	12220
565649	208 273	0.05	0.037	0.07	12200
565650	208 273	0.04	0.023	0.07	13260
565651	208 273	0.06	0.012	0.10	12680
565652	208 273	0.04	0.024	0.07	11960
565653	208 276	0.10	0.030	0.21	11320
565654	208 273	0.08	0.015	0.14	12880
565655	208 273	0.05	0.011	0.14	13880
565656	208 273	0.09	0.014	0.17	13060
565657	208 273	0.11	0.012	0.21	13260
565658	208 273	0.04	0.037	0.07	12340
565659	208 273	0.04	0.033	0.07	13660
565660	208 273	0.06	0.031	0.10	12440
565661	208 273	0.11	0.020	0.14	13000
565662	208 273	0.11	0.019	0.14	13080
565663	208 273	0.08	0.014	0.14	13060
565664	208 273	0.09	0.026	0.14	12760
565665	208 273	0.06	0.012	0.10	12520
565666	208 276	0.09	0.022	0.14	11740
565667	208 273	0.10	0.019	0.10	14380
565668	208 273	0.24	0.043	0.45	12480
565669	208 273	0.18	0.023	0.27	12100
565670	208 273	0.07	0.016	0.14	13420

CERTIFICATION: _____

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 213
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-OCT-93
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CERTIFICATE OF ANALYSIS A9322344

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
565671	208	273	0.06	0.035	0.10	12220						
565672	208	273	0.14	0.033	0.14	14520						
565673	208	273	0.15	0.026	0.14	13040						
565674	208	276	0.11	0.076	0.17	11620						
565675	208	273	0.04	0.020	0.07	12900						
565676	208	273	0.06	0.012	0.10	11860						
565677	208	273	0.05	0.012	0.03	12380						
565678	208	276	0.08	0.120	0.07	11760						
565679	208	273	0.05	0.016	0.31	11900						
565680	208	273	0.03	0.011	0.10	12140						
565681	208	273	0.04	0.027	0.07	12060						
565682	208	273	0.07	0.016	0.69	11920						
565683	208	276	0.05	0.009	0.03	11040						
565684	208	276	0.06	0.066	0.07	10860						
565685	208	273	0.05	0.056	0.07	12660						
565686	208	273	0.09	0.016	0.10	12140						
565687	208	276	0.03	0.011	0.03	10620						
565688	208	276	0.04	0.061	0.10	11720						
565689	208	276	0.04	0.015	0.07	11420						
565690	208	276	0.05	0.006	0.10	11800						
565691	208	273	0.05	0.019	0.07	12540						
565692	208	276	0.06	0.013	0.07	11600						
565693	208	273	0.03	0.025	0.10	13260						
565694	208	273	0.04	0.008	0.21	12900						
565695	208	273	0.14	0.012	0.14	12540						
565696	208	273	0.07	0.015	0.10	12840						
565697	208	273	0.07	0.048	0.14	14260						
565698	208	273	0.18	0.018	0.17	13600						
565699	208	273	0.13	0.017	0.21	14600						
565700	208	273	0.06	0.015	0.14	14020						
565701	208	273	0.11	0.009	0.17	13960						
565702	208	273	0.10	0.014	0.14	13860						
565703	208	273	0.08	0.012	0.14	13600						
565704	208	273	0.11	0.016	0.14	13360						
565705	208	273	0.06	0.013	0.10	13520						
565706	208	273	0.05	0.017	0.07	13040						
565707	208	273	0.03	0.011	0.03	13340						
565708	208	273	0.03	0.014	0.07	12860						
565709	208	276	0.03	0.012	0.10	10540						
565710	208	273	0.03	0.015	0.07	14660						

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CERTIFICATE OF ANALYSIS A9322344

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
565711	208 273	0.05	0.030	0.07	12020
565712	208 273	0.05	0.025	0.03	15400
565713	208 273	0.11	0.082	0.17	14020
565714	208 273	0.10	0.029	0.14	14100
565715	208 273	0.03	0.016	0.03	13220
565716	208 273	0.12	0.008	0.17	14080
565717	208 273	0.17	0.035	0.27	12560
565718	208 273	0.12	0.027	0.14	13620
565719	208 273	0.10	0.066	0.10	13280
565720	208 273	0.04	0.042	0.03	12100
565721	208 273	0.02	0.022	< 0.03	13200
565722	208 273	0.05	0.029	0.07	12920
565723	208 273	0.09	0.026	0.14	14680
565724	208 273	0.12	0.013	0.17	13460
565725	208 273	0.06	0.035	0.07	12900
565726	208 273	0.08	0.042	0.14	12460
565727	208 273	0.16	0.047	0.14	12860
565728	208 273	0.13	0.054	0.07	12720
565729	208 273	0.18	0.112	0.14	12780
565730	208 273	0.28	0.126	0.21	12600
565731	208 273	0.09	0.040	0.07	13600
565732	208 273	0.10	0.038	0.07	12520
565733	208 273	0.10	0.049	0.14	13000
565734	208 276	0.17	0.095	0.17	11220
565735	208 273	0.04	0.035	< 0.03	12240
565736	208 273	0.02	0.018	< 0.03	13340
565737	208 273	0.04	0.029	< 0.03	12060
565738	208 273	0.02	0.028	< 0.03	12920
565739	208 273	0.05	0.013	0.17	13740
565740	208 273	0.08	0.028	0.07	13540
565741	208 273	0.09	0.030	0.10	13520
565742	208 273	0.03	0.165	< 0.03	13000
565743	208 273	0.05	0.029	0.07	13400
565744	208 273	0.04	0.019	< 0.03	12540
565745	208 276	0.14	0.019	0.07	11740
565746	208 276	0.08	0.022	0.03	7840
565747	208 273	0.17	0.026	0.14	13680
565748	208 273	0.17	0.027	0.27	12920
565749	208 274	0.18	0.016	0.21	5600
565750	208 273	0.09	0.018	0.14	13460

CERTIFICATION:

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Certificate Date: 13-OCT-93
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Account : FC

CERTIFICATE OF ANALYSIS A9322344

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
565751	208	273	0.06	0.014	0.03	12420
565752	208	273	0.05	0.028	< 0.03	12800
565753	208	273	0.04	0.008	< 0.03	14000
565754	208	273	0.05	0.010	< 0.03	11880
565755	208	273	0.02	0.026	< 0.03	12540
565756	208	273	0.02	0.023	< 0.03	12580
565757	208	273	0.03	0.022	< 0.03	13160
565758	208	273	0.09	0.016	0.07	12920
565759	208	273	0.07	0.015	< 0.03	12860
565760	208	276	0.15	0.016	0.17	7840
565761	208	273	0.37	0.007	0.07	13960
565762	208	273	0.05	0.018	< 0.03	16020

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 213
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :5
Certificate Date: 14-OCT-93
Invoice No. :I9322346
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322346

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565591	299	229	4.0	0.45	6	310	< 0.5	< 2	0.04	< 0.5	1	105	228	1.77	< 10	< 1	0.44	30	0.04	45	131
565592	299	229	5.4	1.73	6	330	< 0.5	< 2	0.25	0.5	5	228	237	2.72	< 10	< 1	0.86	10	0.96	170	114
565593	299	229	1.4	1.47	54	200	< 0.5	2	0.11	1.0	4	101	1265	2.62	< 10	< 1	0.18	20	0.05	65	148
565594	299	229	2.0	2.27	46	210	< 0.5	< 2	0.24	1.0	8	198	1530	4.38	10	< 1	0.26	30	0.11	155	239
565595	299	229	1.4	1.29	60	130	< 0.5	4	0.21	1.0	8	76	1485	4.34	< 10	< 1	0.18	30	0.08	70	333
565596	299	229	1.6	3.18	54	150	< 0.5	4	0.14	1.0	6	162	1760	3.71	10	< 1	0.15	30	0.04	60	411
565597	299	229	1.6	0.74	8	550	< 0.5	< 2	0.03	< 0.5	3	113	527	2.42	< 10	< 1	0.28	20	0.04	20	488
565598	299	229	1.6	1.28	18	180	< 0.5	4	0.05	< 0.5	7	214	653	2.15	< 10	< 1	0.29	20	0.10	45	244
565599	299	229	1.2	1.03	96	240	< 0.5	8	0.29	1.0	21	115	1495	3.99	< 10	< 1	0.07	20	0.06	155	278
565600	299	229	0.8	2.92	42	1580	< 0.5	8	0.59	4.0	21	220	2700	4.95	10	< 1	0.61	20	1.08	270	118
565601	299	229	1.2	0.72	38	260	< 0.5	6	0.18	3.5	11	85	1415	2.33	< 10	< 1	0.11	20	0.06	80	114
565602	299	229	1.4	1.68	32	710	< 0.5	6	0.08	0.5	8	139	936	2.46	10	< 1	0.23	30	0.04	35	215
565603	299	229	2.8	1.35	38	310	< 0.5	8	0.14	0.5	14	79	2270	4.50	10	< 1	0.23	30	0.05	45	409
565604	299	229	1.8	1.74	52	360	< 0.5	2	0.20	8.5	10	117	948	2.84	10	< 1	0.22	30	0.09	130	198
565605	299	229	1.2	0.72	14	390	< 0.5	< 2	0.06	< 0.5	1	149	407	0.89	< 10	< 1	0.24	20	0.02	15	128
565606	299	229	0.8	0.97	16	660	< 0.5	< 2	0.01	< 0.5	2	252	282	0.84	< 10	< 1	0.42	20	0.03	20	112
565607	299	229	1.0	0.61	18	200	< 0.5	4	0.03	< 0.5	4	91	1185	0.98	< 10	< 1	0.16	20	0.07	15	125
565608	299	229	1.0	0.73	20	370	< 0.5	2	0.02	0.5	3	186	975	1.07	< 10	< 1	0.26	20	0.08	20	163
565609	299	229	1.0	0.45	22	140	< 0.5	4	0.03	< 0.5	3	121	1045	0.77	< 10	< 1	0.20	30	0.04	15	303
565610	299	229	0.8	0.64	36	210	< 0.5	6	0.20	1.0	2	228	1360	0.68	< 10	< 1	0.26	30	0.08	35	85
565611	299	229	1.4	0.57	118	170	< 0.5	2	0.25	4.0	6	89	1635	0.92	< 10	< 1	0.16	30	0.11	50	110
565612	299	229	1.2	0.92	42	230	< 0.5	4	0.34	1.5	4	130	1620	0.85	< 10	< 1	0.17	30	0.20	50	169
565613	299	229	1.4	0.50	50	210	< 0.5	6	0.28	1.5	4	109	1920	1.21	< 10	< 1	0.24	30	0.05	45	144
565614	299	229	0.8	0.75	14	60	< 0.5	4	0.04	1.0	6	132	1035	2.19	< 10	< 1	0.36	20	0.04	40	82
565615	299	229	0.8	0.60	6	330	< 0.5	< 2	0.06	2.0	6	127	1360	1.02	< 10	< 1	0.27	30	0.04	85	96
565616	299	229	0.6	0.99	< 2	60	< 0.5	< 2	0.04	0.5	3	182	783	0.82	10	< 1	0.44	40	0.06	40	93
565617	299	229	0.6	0.49	2	150	< 0.5	2	0.03	1.5	3	115	1235	0.99	< 10	< 1	0.28	30	0.03	20	158
565618	299	229	0.6	0.76	4	530	< 0.5	< 2	0.04	1.0	6	158	870	0.91	< 10	< 1	0.33	30	0.04	175	164
565619	299	229	0.6	0.50	6	210	< 0.5	< 2	0.08	1.0	2	135	780	0.64	< 10	< 1	0.22	30	0.02	35	134
565620	299	229	0.6	0.84	4	200	< 0.5	2	0.14	2.0	3	169	777	0.82	< 10	< 1	0.36	20	0.05	95	107
565621	299	229	1.0	0.56	16	160	< 0.5	4	0.24	5.5	10	96	1170	1.13	< 10	< 1	0.20	30	0.09	265	151
565622	299	229	0.8	1.53	< 2	210	< 0.5	4	0.87	0.5	7	128	872	1.66	< 10	< 1	0.41	20	0.46	90	116
565623	299	229	1.2	1.84	< 2	580	< 0.5	< 2	0.80	2.0	13	35	1015	2.56	10	< 1	0.67	20	1.03	305	195
565624	299	229	1.0	2.46	< 2	100	< 0.5	< 2	1.37	0.5	14	78	792	3.69	10	< 1	0.59	30	1.27	260	216
565625	299	229	0.6	2.88	< 2	80	< 0.5	8	0.69	1.5	23	72	644	6.07	< 10	< 1	1.00	10	1.91	585	143
565626	299	229	0.8	3.48	< 2	510	< 0.5	4	0.77	1.0	20	94	1080	5.43	< 10	< 1	1.81	10	2.47	380	101
565627	299	229	0.6	3.51	< 2	630	< 0.5	< 2	0.85	2.0	17	71	586	5.01	< 10	< 1	1.88	10	2.50	260	60
565628	299	229	0.8	2.83	< 2	450	< 0.5	4	0.76	4.0	18	106	797	5.02	< 10	< 1	1.37	10	2.04	255	85
565629	299	229	1.0	2.10	< 2	270	< 0.5	6	0.68	4.0	21	62	1005	4.70	< 10	< 1	1.15	20	1.66	570	97
565630	299	229	0.6	0.91	8	220	< 0.5	< 2	0.99	< 0.5	4	278	735	0.98	< 10	< 1	0.36	30	0.16	70	74

CERTIFICATION: Ian Bradley

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565591	299	229	0.01	2	100	40	4	< 1	13	< 0.01	< 10	< 10	4	< 10	104
565592	299	229	0.06	12	540	92	2	7	28	0.07	< 10	< 10	60	10	128
565593	299	229	0.01	6	950	14	10	12	18	< 0.01	< 10	< 10	53	< 10	106
565594	299	229	0.01	12	1320	18	18	17	30	< 0.01	< 10	10	95	10	240
565595	299	229	< 0.01	5	1590	18	12	22	43	< 0.01	< 10	< 10	96	< 10	186
565596	299	229	0.01	8	1110	12	4	20	9	< 0.01	< 10	10	113	< 10	116
565597	299	229	0.01	3	430	16	22	2	18	< 0.01	< 10	< 10	15	< 10	130
565598	299	229	0.01	10	530	6	14	6	15	< 0.01	< 10	< 10	33	< 10	148
565599	299	229	< 0.01	24	1650	14	12	18	13	< 0.01	< 10	< 10	79	< 10	270
565600	299	229	0.01	38	1980	< 2	12	21	66	0.06	< 10	< 10	143	20	354
565601	299	229	< 0.01	14	950	8	10	9	9	< 0.01	< 10	< 10	34	< 10	170
565602	299	229	0.01	6	1070	12	28	8	17	< 0.01	< 10	< 10	40	< 10	130
565603	299	229	< 0.01	6	1400	16	12	10	15	< 0.01	< 10	< 10	55	10	250
565604	299	229	< 0.01	5	1130	24	14	9	14	< 0.01	< 10	< 10	51	< 10	724
565605	299	229	0.01	2	390	14	24	1	10	< 0.01	< 10	< 10	12	< 10	32
565606	299	229	0.02	4	60	8	20	< 1	16	< 0.01	< 10	< 10	3	< 10	14
565607	299	229	0.01	2	90	14	30	< 1	9	< 0.01	< 10	10	2	< 10	30
565608	299	229	0.01	3	90	14	26	< 1	11	< 0.01	< 10	10	4	< 10	46
565609	299	229	0.01	2	60	14	24	< 1	7	< 0.01	< 10	< 10	2	< 10	28
565610	299	229	0.01	3	40	4	10	< 1	11	< 0.01	< 10	< 10	2	< 10	50
565611	299	229	0.01	3	30	14	28	< 1	13	< 0.01	< 10	10	1	< 10	72
565612	299	229	0.01	3	40	10	2	< 1	15	< 0.01	< 10	< 10	2	< 10	78
565613	299	229	0.01	2	60	8	22	< 1	9	< 0.01	< 10	10	2	< 10	60
565614	299	229	0.01	3	60	14	14	< 1	9	< 0.01	< 10	< 10	2	< 10	34
565615	299	229	0.01	2	100	8	18	< 1	11	< 0.01	< 10	20	2	< 10	58
565616	299	229	0.02	2	90	8	6	< 1	15	< 0.01	< 10	< 10	4	< 10	34
565617	299	229	0.01	2	70	6	14	< 1	13	< 0.01	< 10	< 10	2	< 10	34
565618	299	229	0.01	3	80	8	18	< 1	14	< 0.01	< 10	< 10	4	< 10	86
565619	299	229	0.01	2	80	6	20	< 1	9	< 0.01	< 10	< 10	2	< 10	30
565620	299	229	0.01	3	90	6	16	< 1	10	< 0.01	< 10	< 10	4	< 10	56
565621	299	229	0.01	3	70	12	10	< 1	14	< 0.01	< 10	10	2	< 10	144
565622	299	229	0.01	4	510	2	10	4	21	0.01	< 10	< 10	23	< 10	40
565623	299	229	0.02	5	1190	< 2	6	9	36	0.09	< 10	< 10	61	< 10	110
565624	299	229	0.02	5	1490	4	8	11	29	0.05	< 10	< 10	74	10	76
565625	299	229	0.08	10	1160	< 2	2	17	30	0.20	< 10	< 10	158	10	150
565626	299	229	0.18	11	1040	< 2	2	30	61	0.42	< 10	< 10	261	10	154
565627	299	229	0.18	13	1060	< 2	4	25	78	0.41	< 10	< 10	238	< 10	88
565628	299	229	0.17	9	1000	4	< 2	20	57	0.34	< 10	10	191	10	90
565629	299	229	0.10	6	1110	4	< 2	18	29	0.23	< 10	10	143	< 10	218
565630	299	229	0.03	4	110	4	2	1	26	< 0.01	< 10	< 10	7	< 10	18

CERTIFICATION:

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565631	299	229	0.8	0.53	4	150	< 0.5	4	0.49	1.0	7	157	991	0.94	< 10	< 1	0.22	20	0.10	160	98
565632	299	229	1.0	0.18	< 2	90	< 0.5	< 2	0.41	2.0	8	38	884	0.64	< 10	< 1	0.07	20	0.13	250	150
565633	299	229	1.0	0.57	6	280	< 0.5	< 2	0.82	0.5	5	125	949	0.58	< 10	< 1	0.18	20	0.17	95	126
565634	299	229	1.2	0.27	24	200	< 0.5	4	1.43	< 0.5	4	112	787	0.75	< 10	< 1	0.12	20	0.13	120	144
565635	299	229	3.2	0.50	124	30	< 0.5	8	0.94	10.0	7	153	960	3.43	< 10	< 1	0.24	10	0.27	355	170
565636	299	229	1.8	0.26	188	20	< 0.5	6	0.29	1.5	11	64	875	3.64	< 10	< 1	0.16	10	0.11	220	103
565637	299	229	0.6	0.49	26	380	< 0.5	2	1.03	0.5	4	130	640	0.67	< 10	< 1	0.16	20	0.15	165	95
565638	299	229	0.4	0.27	< 2	100	< 0.5	2	1.35	< 0.5	1	64	470	0.47	< 10	< 1	0.08	20	0.07	50	215
565639	299	229	0.8	0.58	4	70	< 0.5	< 2	2.21	< 0.5	4	43	667	1.00	10	< 1	0.10	30	0.34	80	1155
565640	299	229	0.6	0.70	6	280	< 0.5	8	1.60	< 0.5	5	115	750	1.21	< 10	< 1	0.22	30	0.34	90	186
565641	299	229	0.6	0.27	4	280	< 0.5	2	1.27	< 0.5	2	36	714	0.46	10	< 1	0.08	40	0.07	50	346
565642	299	229	1.4	0.54	4	50	< 0.5	6	0.92	< 0.5	7	133	1450	2.26	< 10	< 1	0.27	20	0.06	70	226
565643	299	229	1.8	0.40	4	170	< 0.5	6	1.09	< 0.5	2	62	712	1.13	10	< 1	0.14	40	0.18	75	2120
565644	299	229	1.0	0.57	20	360	< 0.5	2	1.23	< 0.5	4	130	1035	0.75	10	< 1	0.16	60	0.24	125	298
565645	299	229	1.0	0.52	16	150	< 0.5	6	0.91	0.5	6	93	1310	0.97	10	< 1	0.12	40	0.31	220	345
565646	299	229	0.6	1.27	6	880	< 0.5	< 2	1.01	< 0.5	4	96	714	1.13	10	< 1	0.29	30	0.48	70	128
565647	299	229	0.4	1.24	2	160	< 0.5	4	1.94	< 0.5	3	151	377	1.61	10	< 1	0.36	20	0.60	100	71
565648	299	229	0.6	0.90	< 2	110	< 0.5	4	1.58	< 0.5	2	136	286	1.31	10	< 1	0.21	20	0.50	80	104
565649	299	229	0.4	0.73	< 2	100	< 0.5	< 2	1.69	< 0.5	2	63	536	1.63	< 10	< 1	0.26	10	0.63	85	223
565650	299	229	1.4	0.88	< 2	160	< 0.5	2	2.20	< 0.5	3	164	377	1.52	< 10	< 1	0.30	20	0.73	690	148
565651	299	229	0.6	0.94	12	110	< 0.5	< 2	2.41	< 0.5	4	143	570	1.36	< 10	< 1	0.32	20	0.62	250	80
565652	299	229	0.4	1.03	2	170	< 0.5	< 2	2.03	< 0.5	2	137	355	1.91	< 10	< 1	0.53	20	0.70	85	153
565653	299	229	0.8	0.99	< 2	160	< 0.5	12	2.28	< 0.5	4	167	960	1.49	< 10	< 1	0.54	20	0.83	80	174
565654	299	229	0.6	1.03	< 2	160	< 0.5	8	1.96	< 0.5	3	140	840	1.86	< 10	< 1	0.47	10	0.80	85	100
565655	299	229	0.4	1.11	< 2	140	< 0.5	2	1.77	< 0.5	3	180	528	1.89	< 10	< 1	0.43	10	0.73	90	74
565656	299	229	1.0	1.43	< 2	180	< 0.5	4	2.47	< 0.5	6	145	813	2.53	< 10	< 1	0.67	10	1.12	115	94
565657	299	229	1.6	1.80	6	90	< 0.5	8	2.48	< 0.5	9	125	1135	4.31	< 10	< 1	0.73	20	1.30	205	78
565658	299	229	0.6	1.14	2	60	< 0.5	4	2.43	< 0.5	7	131	419	2.78	< 10	< 1	0.43	10	0.60	70	229
565659	299	229	0.4	0.94	2	30	< 0.5	8	2.35	< 0.5	4	190	460	2.26	< 10	< 1	0.48	20	0.40	50	214
565660	299	229	0.6	1.45	< 2	140	< 0.5	6	1.98	< 0.5	7	142	554	2.63	< 10	< 1	0.82	20	1.12	100	203
565661	299	229	0.6	1.74	< 2	140	< 0.5	< 2	2.48	< 0.5	9	121	1020	2.91	< 10	< 1	0.94	10	1.40	125	124
565662	299	229	1.0	2.26	2	80	< 0.5	6	2.37	< 0.5	12	110	1050	3.76	< 10	< 1	1.17	10	1.79	155	117
565663	299	229	0.8	2.90	< 2	80	< 0.5	6	2.58	< 0.5	15	82	783	4.69	< 10	< 1	1.41	10	2.22	230	81
565664	299	229	0.6	2.05	2	60	< 0.5	4	2.67	< 0.5	11	87	806	3.85	< 10	< 1	1.06	10	1.77	155	147
565665	299	229	0.6	1.43	< 2	90	< 0.5	6	2.37	0.5	8	140	567	2.69	< 10	< 1	0.68	10	1.22	115	74
565666	299	229	0.8	1.06	2	110	< 0.5	4	2.84	< 0.5	4	143	854	1.67	< 10	< 1	0.53	10	0.90	95	133
565667	299	229	0.8	1.64	< 2	190	< 0.5	12	2.03	< 0.5	9	105	959	3.00	< 10	< 1	0.70	10	1.25	145	118
565668	299	229	2.2	2.60	10	60	< 0.5	16	2.07	< 0.5	12	80	2370	5.83	< 10	< 1	1.12	10	1.71	150	268
565669	299	229	1.4	2.70	< 2	100	< 0.5	8	2.57	< 0.5	12	86	1660	4.29	< 10	< 1	1.46	10	2.17	165	134
565670	299	229	0.8	2.58	2	100	< 0.5	6	3.02	< 0.5	13	91	632	4.30	< 10	< 1	1.35	10	1.99	230	94

CERTIFICATION: Stewart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 213
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-OCT-93
Invoice No. : I9322346
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9322346

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565631	299	229	0.03	3	70	12	2	< 1	20	< 0.01	< 10	10	2	< 10	64
565632	299	229	0.01	1	90	10	2	< 1	18	< 0.01	< 10	< 10	2	< 10	102
565633	299	229	0.03	3	90	< 2	4	< 1	37	< 0.01	10	10	2	< 10	34
565634	299	229	0.01	2	70	8	4	< 1	21	< 0.01	< 10	10	2	< 10	22
565635	299	229	0.01	2	70	426	42	< 1	16	< 0.01	< 10	< 10	4	< 10	490
565636	299	229	< 0.01	2	180	46	24	< 1	8	< 0.01	< 10	10	2	< 10	108
565637	299	229	0.01	3	90	8	8	< 1	21	< 0.01	< 10	< 10	2	< 10	50
565638	299	229	0.01	2	90	4	6	< 1	24	< 0.01	< 10	< 10	1	< 10	18
565639	299	229	0.01	< 1	360	< 2	12	2	29	< 0.01	< 10	< 10	18	< 10	14
565640	299	229	0.03	2	370	2	4	1	36	< 0.01	< 10	< 10	11	< 10	12
565641	299	229	0.01	1	140	2	2	< 1	28	< 0.01	< 10	< 10	2	< 10	10
565642	299	229	0.01	4	140	4	4	< 1	19	< 0.01	< 10	< 10	3	< 10	18
565643	299	229	0.01	< 1	170	2	26	< 1	21	< 0.01	< 10	< 10	12	< 10	12
565644	299	229	0.01	2	170	2	34	1	17	< 0.01	< 10	< 10	7	< 10	20
565645	299	229	0.01	2	290	6	32	2	11	< 0.01	< 10	< 10	10	< 10	66
565646	299	229	0.02	4	380	4	8	6	162	0.01	< 10	< 10	36	< 10	20
565647	299	229	0.04	4	430	2	2	5	53	0.02	< 10	< 10	32	< 10	14
565648	299	229	0.04	3	390	< 2	4	4	78	< 0.01	< 10	< 10	28	< 10	10
565649	299	229	0.03	2	460	2	< 2	4	88	0.03	< 10	< 10	34	< 10	12
565650	299	229	0.05	5	450	4	6	3	56	0.01	< 10	< 10	32	< 10	18
565651	299	229	0.04	5	460	< 2	2	4	74	0.02	< 10	< 10	34	< 10	16
565652	299	229	0.05	3	480	2	2	6	90	0.06	< 10	< 10	43	< 10	14
565653	299	229	0.06	4	440	< 2	2	7	97	0.12	< 10	< 10	53	< 10	16
565654	299	229	0.06	4	520	6	2	6	92	0.09	< 10	< 10	52	< 10	14
565655	299	229	0.06	4	510	< 2	< 2	4	87	0.03	< 10	< 10	41	< 10	14
565656	299	229	0.07	4	630	< 2	4	9	100	0.13	< 10	< 10	81	< 10	20
565657	299	229	0.07	5	880	< 2	< 2	10	88	0.11	< 10	< 10	96	< 10	24
565658	299	229	0.04	3	590	2	6	4	107	0.02	< 10	< 10	40	< 10	8
565659	299	229	0.03	6	430	< 2	2	3	154	0.01	< 10	< 10	29	< 10	8
565660	299	229	0.07	7	620	< 2	< 2	9	108	0.13	< 10	< 10	80	< 10	16
565661	299	229	0.09	4	730	2	2	12	113	0.17	< 10	< 10	110	< 10	18
565662	299	229	0.15	4	850	2	2	19	108	0.29	< 10	< 10	165	< 10	26
565663	299	229	0.18	5	740	< 2	< 2	21	107	0.31	< 10	< 10	207	< 10	36
565664	299	229	0.10	6	730	< 2	2	17	122	0.24	< 10	< 10	152	10	20
565665	299	229	0.07	5	670	< 2	< 2	10	85	0.17	< 10	< 10	90	< 10	18
565666	299	229	0.07	4	830	< 2	2	9	116	0.14	< 10	< 10	77	< 10	16
565667	299	229	0.09	5	1060	2	2	13	93	0.20	< 10	< 10	117	< 10	20
565668	299	229	0.06	3	1230	< 2	2	14	56	0.18	< 10	< 10	117	< 10	22
565669	299	229	0.13	4	1260	< 2	2	18	119	0.30	< 10	< 10	156	< 10	22
565670	299	229	0.14	6	1130	< 2	< 2	17	177	0.25	< 10	< 10	148	< 10	28

CERTIFICATION:

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Certificate Date: 14-OCT-93
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CERTIFICATE OF ANALYSIS A9322346

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565671	299	229	0.8	2.21	28	200	< 0.5	< 2	2.58	0.5	17	43	622	4.50	< 10	< 1	1.13	10	1.72	215	231
565672	299	229	2.6	1.45	56	130	< 0.5	< 2	2.71	0.5	10	124	1355	3.05	< 10	< 1	0.59	30	1.02	3110	201
565673	299	229	1.2	1.65	6	80	< 0.5	20	2.35	< 0.5	12	46	1450	3.29	< 10	< 1	0.80	10	1.24	335	170
565674	299	229	2.6	1.55	82	50	< 0.5	6	2.78	0.5	13	91	1040	3.66	< 10	< 1	0.35	20	0.95	1250	447
565675	299	229	1.0	0.88	30	280	< 0.5	6	1.37	< 0.5	3	78	430	1.35	< 10	< 1	0.41	10	0.66	155	128
565676	299	229	0.6	1.51	< 2	470	< 0.5	4	1.47	< 0.5	3	180	616	1.78	< 10	< 1	0.55	20	0.63	110	82
565677	299	229	0.6	0.26	6	370	< 0.5	8	1.25	< 0.5	2	93	530	0.63	< 10	< 1	0.11	20	0.04	65	97
565678	299	229	1.2	0.61	4	220	< 0.5	2	2.39	< 0.5	3	191	832	0.85	< 10	< 1	0.24	20	0.07	105	789
565679	299	229	1.4	0.58	36	50	< 0.5	8	0.95	< 0.5	1	160	523	2.11	< 10	< 1	0.27	10	0.08	85	103
565680	299	229	0.4	0.85	< 2	430	< 0.5	< 2	1.09	< 0.5	1	176	273	0.62	< 10	< 1	0.25	10	0.13	60	77
565681	299	229	0.6	0.57	< 2	210	< 0.5	6	1.37	< 0.5	1	180	419	0.65	< 10	< 1	0.21	20	0.12	80	179
565682	299	229	1.2	0.82	20	360	< 0.5	2	1.39	< 0.5	1	216	712	0.77	< 10	< 1	0.31	20	0.16	140	112
565683	299	229	0.6	0.69	44	360	< 0.5	< 2	1.16	< 0.5	1	217	435	0.79	< 10	< 1	0.28	20	0.26	175	61
565684	299	229	2.2	0.68	26	570	< 0.5	< 2	1.47	1.0	1	162	601	0.73	< 10	< 1	0.28	30	0.33	520	434
565685	299	229	1.4	0.49	30	360	< 0.5	< 2	1.61	3.0	1	133	451	0.72	< 10	< 1	0.21	20	0.37	560	362
565686	299	229	3.6	0.75	194	60	< 0.5	4	1.25	8.0	3	146	941	1.77	< 10	< 1	0.28	10	0.28	405	110
565687	299	229	0.6	0.71	12	480	< 0.5	2	1.05	< 0.5	2	160	328	0.90	< 10	< 1	0.21	20	0.27	190	78
565688	299	229	2.8	0.67	56	180	< 0.5	8	2.12	0.5	3	136	414	1.42	< 10	< 1	0.22	20	0.47	500	408
565689	299	229	0.6	0.31	18	320	< 0.5	2	1.48	< 0.5	1	53	420	0.70	< 10	< 1	0.10	20	0.32	175	102
565690	299	229	0.6	0.75	22	250	< 0.5	< 2	1.03	< 0.5	2	124	435	1.06	< 10	< 1	0.23	20	0.31	230	50
565691	299	229	1.8	0.45	60	280	< 0.5	< 2	1.49	0.5	1	127	474	0.66	< 10	< 1	0.17	20	0.24	530	135
565692	299	229	0.6	0.37	14	200	< 0.5	< 2	1.77	< 0.5	2	87	578	0.83	< 10	< 1	0.15	30	0.27	145	93
565693	299	229	0.2	0.36	< 2	180	< 0.5	< 2	1.83	< 0.5	1	124	325	1.00	< 10	< 1	0.17	20	0.24	115	163
565694	299	229	0.6	0.55	2	140	< 0.5	< 2	1.95	< 0.5	3	64	337	1.37	< 10	< 1	0.28	20	0.56	210	65
565695	299	229	19.4	0.83	248	130	< 0.5	22	1.97	5.5	4	154	1470	2.19	< 10	< 1	0.35	20	0.61	415	82
565696	299	229	3.0	1.28	122	120	< 0.5	12	1.89	2.0	4	144	690	2.39	< 10	< 1	0.55	20	0.78	660	96
565697	299	229	0.6	1.48	12	220	< 0.5	6	2.50	< 0.5	8	38	694	3.01	< 10	< 1	1.02	10	1.43	175	288
565698	299	229	1.8	1.24	< 2	190	< 0.5	36	2.10	< 0.5	4	187	1760	2.20	< 10	< 1	0.64	10	0.83	160	120
565699	299	229	1.0	1.90	2	250	< 0.5	8	2.04	< 0.5	11	52	1265	3.24	< 10	< 1	1.34	10	1.84	175	124
565700	299	229	0.8	2.26	< 2	310	< 0.5	14	2.01	< 0.5	12	47	624	4.64	< 10	< 1	1.68	10	2.22	205	94
565701	299	229	1.0	2.57	< 2	170	< 0.5	8	2.26	< 0.5	12	104	1020	3.98	< 10	< 1	1.76	10	2.31	205	49
565702	299	229	0.6	1.57	< 2	190	< 0.5	< 2	1.92	< 0.5	10	63	1005	3.18	< 10	< 1	1.09	10	1.50	160	86
565703	299	229	0.4	2.15	12	250	< 0.5	< 2	2.18	< 0.5	10	141	683	3.57	< 10	< 1	1.29	10	1.59	185	66
565704	299	229	0.8	2.42	< 2	160	< 0.5	6	2.22	0.5	15	147	1045	3.82	< 10	< 1	1.66	10	2.04	220	96
565705	299	229	0.6	1.40	< 2	190	< 0.5	4	2.21	< 0.5	7	155	600	1.99	< 10	< 1	0.63	20	0.91	135	79
565706	299	229	0.4	1.45	< 2	220	< 0.5	< 2	1.83	< 0.5	8	72	402	2.54	< 10	< 1	1.08	< 10	1.42	125	104
565707	299	229	0.2	1.83	< 2	200	< 0.5	< 2	1.84	< 0.5	9	169	229	3.28	< 10	< 1	1.23	10	1.62	170	58
565708	299	229	0.2	1.51	< 2	260	< 0.5	< 2	1.65	< 0.5	8	76	250	2.87	< 10	< 1	1.17	10	1.52	150	99
565709	299	229	0.2	1.23	4	150	< 0.5	2	2.32	< 0.5	5	228	302	1.79	< 10	< 1	0.91	10	1.11	105	72
565710	299	229	0.2	1.01	12	110	< 0.5	< 2	1.53	< 0.5	5	88	248	1.84	< 10	< 1	0.71	10	1.00	135	96

CERTIFICATION: Stuart Bichlen

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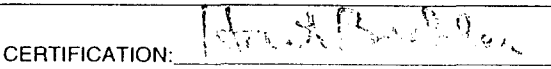
SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565671	299	229	0.10	4	1090	< 2	6	16	144	0.22	< 10	< 10	134	< 10	52
565672	299	229	0.06	4	790	2	20	9	70	0.05	< 10	< 10	69	< 10	40
565673	299	229	0.08	3	1080	< 2	2	13	167	0.13	< 10	< 10	107	< 10	20
565674	299	229	0.01	5	1090	10	32	12	78	< 0.01	< 10	< 10	73	< 10	42
565675	299	229	0.02	4	480	2	8	4	73	0.04	< 10	10	36	< 10	24
565676	299	229	0.03	4	440	< 2	2	5	113	0.04	< 10	< 10	41	< 10	18
565677	299	229	0.01	2	340	4	4	< 1	51	< 0.01	10	< 10	1	< 10	18
565678	299	229	0.02	3	100	6	6	< 1	51	< 0.01	< 10	< 10	6	< 10	12
565679	299	229	0.01	3	100	14	8	< 1	35	< 0.01	< 10	< 10	2	< 10	24
565680	299	229	0.04	2	100	6	2	< 1	97	< 0.01	< 10	< 10	2	< 10	14
565681	299	229	0.02	3	140	8	2	< 1	62	< 0.01	< 10	< 10	3	< 10	12
565682	299	229	0.03	3	150	56	6	< 1	68	< 0.01	< 10	< 10	4	< 10	20
565683	299	229	0.01	3	110	8	6	< 1	27	< 0.01	< 10	< 10	3	< 10	16
565684	299	229	0.01	3	150	60	16	1	52	< 0.01	< 10	< 10	7	< 10	88
565685	299	229	0.01	2	180	142	18	< 1	26	< 0.01	< 10	< 10	5	< 10	154
565686	299	229	0.01	4	190	356	46	< 1	54	< 0.01	< 10	10	4	< 10	348
565687	299	229	0.01	3	190	16	8	1	29	< 0.01	< 10	< 10	4	< 10	18
565688	299	229	0.01	2	260	10	28	1	57	< 0.01	< 10	< 10	9	< 10	32
565689	299	229	0.01	1	180	8	4	< 1	64	< 0.01	< 10	10	4	< 10	12
565690	299	229	0.01	2	260	6	18	1	39	< 0.01	< 10	< 10	6	< 10	12
565691	299	229	0.01	3	200	6	18	< 1	67	< 0.01	< 10	10	4	< 10	22
565692	299	229	0.02	2	210	2	2	1	130	< 0.01	< 10	< 10	7	< 10	12
565693	299	229	0.03	2	220	4	2	1	168	< 0.01	< 10	< 10	9	< 10	10
565694	299	229	0.03	3	280	8	2	4	118	0.03	< 10	< 10	28	< 10	14
565695	299	229	0.03	4	300	350	138	4	92	0.02	< 10	< 10	31	< 10	202
565696	299	229	0.04	4	490	22	40	6	73	0.06	< 10	< 10	46	< 10	80
565697	299	229	0.06	3	1000	< 2	4	14	90	0.25	< 10	< 10	112	< 10	30
565698	299	229	0.07	6	550	6	< 2	8	84	0.12	< 10	< 10	61	< 10	22
565699	299	229	0.07	4	950	< 2	2	19	84	0.29	< 10	< 10	153	< 10	36
565700	299	229	0.09	5	970	< 2	4	23	86	0.39	< 10	< 10	211	< 10	38
565701	299	229	0.15	6	930	< 2	< 2	21	96	0.36	< 10	< 10	182	10	36
565702	299	229	0.07	4	930	< 2	< 2	16	67	0.26	< 10	< 10	119	< 10	26
565703	299	229	0.20	4	960	< 2	< 2	17	107	0.28	< 10	< 10	130	< 10	30
565704	299	229	0.14	6	970	< 2	2	20	84	0.33	< 10	< 10	163	< 10	36
565705	299	229	0.07	5	590	2	< 2	10	97	0.10	< 10	< 10	66	< 10	20
565706	299	229	0.07	6	570	< 2	< 2	15	71	0.27	< 10	< 10	107	< 10	22
565707	299	229	0.15	7	640	4	< 2	18	83	0.30	< 10	< 10	125	< 10	28
565708	299	229	0.09	4	610	2	< 2	16	66	0.29	< 10	< 10	119	< 10	24
565709	299	229	0.11	8	390	< 2	< 2	12	100	0.20	< 10	< 10	80	< 10	18
565710	299	229	0.05	4	350	< 2	< 2	11	56	0.18	< 10	< 10	74	< 10	18

CERTIFICATION: 

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565711	299	229	0.8	1.97	6	70	< 0.5	6	2.11	< 0.5	9	115	513	4.04	< 10	< 1	1.21	10	1.70	250	183
565712	299	229	0.4	2.51	2	130	< 0.5	< 2	2.19	0.5	11	81	508	3.98	10	< 1	1.51	10	1.89	310	145
565713	299	229	0.6	2.49	2	90	< 0.5	< 2	3.55	< 0.5	10	99	1015	3.62	< 10	< 1	1.64	10	1.99	205	443
565714	299	229	0.6	2.54	2	140	< 0.5	8	2.44	< 0.5	11	93	934	3.89	< 10	< 1	1.53	10	1.93	195	171
565715	299	229	0.2	2.54	4	210	< 0.5	2	2.30	< 0.5	11	92	269	4.24	< 10	< 1	1.45	10	1.92	205	96
565716	299	229	0.8	3.10	14	360	< 0.5	4	1.89	< 0.5	15	74	1135	5.03	10	< 1	2.02	< 10	2.59	215	49
565717	299	229	1.2	3.27	< 2	150	< 0.5	2	2.40	0.5	15	85	1665	4.82	< 10	< 1	1.98	10	2.53	225	194
565718	299	229	0.6	3.11	10	160	< 0.5	6	2.37	< 0.5	14	102	1100	4.37	< 10	< 1	2.09	10	2.65	235	151
565719	299	229	1.2	2.96	< 2	70	< 0.5	12	2.81	< 0.5	13	98	956	4.26	< 10	< 1	1.75	10	2.35	250	358
565720	299	229	0.4	1.58	< 2	150	< 0.5	4	1.93	< 0.5	7	141	345	2.86	< 10	< 1	1.00	10	1.44	155	236
565721	299	229	0.4	1.48	2	140	< 0.5	4	1.85	< 0.5	7	157	219	2.75	< 10	< 1	0.88	10	1.34	155	136
565722	299	229	0.6	2.12	6	70	< 0.5	< 2	1.99	< 0.5	10	108	467	3.72	< 10	< 1	1.28	10	1.76	205	151
565723	299	229	1.4	2.67	< 2	130	< 0.5	< 2	2.20	1.0	13	93	821	4.29	< 10	< 1	1.38	10	2.12	340	155
565724	299	229	1.4	1.62	4	210	< 0.5	4	1.57	< 0.5	7	105	1155	2.55	< 10	< 1	0.88	10	1.31	155	77
565725	299	229	1.0	2.00	< 2	280	< 0.5	2	1.82	< 0.5	7	96	524	3.12	< 10	< 1	1.09	10	1.54	180	200
565726	299	229	1.6	2.41	16	40	< 0.5	10	3.12	0.5	11	68	755	4.31	10	< 1	0.59	20	0.99	445	238
565727	299	229	3.8	2.77	68	60	< 0.5	< 2	3.42	7.0	15	74	1550	4.18	< 10	< 1	1.40	10	1.83	635	274
565728	299	229	1.0	2.85	8	80	< 0.5	6	2.45	< 0.5	15	73	1145	3.86	10	< 1	1.71	10	2.33	245	292
565729	299	229	1.4	2.50	< 2	60	< 0.5	12	3.41	< 0.5	14	61	1675	3.70	< 10	< 1	1.71	10	2.22	205	610
565730	299	229	2.2	2.04	6	40	< 0.5	30	3.21	< 0.5	16	67	2480	3.55	< 10	< 1	1.36	20	1.76	190	647
565731	299	229	0.6	1.43	4	160	< 0.5	< 2	2.51	< 0.5	7	134	812	1.96	< 10	< 1	0.91	10	1.23	135	242
565732	299	229	0.8	1.79	10	170	< 0.5	8	1.72	< 0.5	8	155	896	2.34	< 10	< 1	0.97	10	1.37	140	219
565733	299	229	0.6	1.81	4	210	< 0.5	< 2	2.63	< 0.5	9	118	942	2.38	< 10	< 1	1.26	20	1.56	145	292
565734	299	229	0.8	2.67	16	250	< 0.5	4	3.30	< 0.5	13	72	1595	3.61	< 10	< 1	1.30	10	1.90	315	533
565735	299	229	0.2	1.96	2	160	< 0.5	< 2	2.83	< 0.5	6	131	349	2.79	< 10	< 1	1.31	10	1.73	165	197
565736	299	229	0.2	1.24	4	180	< 0.5	< 2	1.85	< 0.5	7	133	189	1.67	< 10	< 1	0.63	10	1.00	95	108
565737	299	229	0.4	1.75	6	200	< 0.5	< 2	2.18	< 0.5	6	157	401	2.19	< 10	< 1	1.02	10	1.48	140	167
565738	299	229	0.2	2.04	< 2	280	< 0.5	< 2	2.15	< 0.5	9	149	188	2.90	< 10	< 1	1.31	10	1.80	175	175
565739	299	229	0.6	1.71	6	130	< 0.5	4	1.50	< 0.5	9	189	443	3.01	< 10	< 1	0.80	10	1.39	150	85
565740	299	229	0.6	2.21	2	220	< 0.5	2	2.14	< 0.5	10	138	788	3.11	< 10	< 1	1.55	10	1.94	190	173
565741	299	229	0.6	2.60	< 2	70	< 0.5	2	2.54	0.5	13	83	903	4.07	10	< 1	1.76	10	2.21	220	194
565742	299	229	0.6	2.37	< 2	80	< 0.5	4	3.86	< 0.5	11	92	298	3.68	< 10	< 1	1.57	10	2.00	185	917
565743	299	229	0.2	2.16	4	170	< 0.5	8	2.33	< 0.5	10	86	494	3.15	< 10	< 1	1.38	10	1.84	170	184
565744	299	229	< 0.2	1.31	< 2	130	< 0.5	2	2.05	< 0.5	6	113	395	1.70	< 10	< 1	0.82	10	1.18	110	123
565745	299	229	1.6	1.93	2	180	< 0.5	2	1.64	< 0.5	10	81	1275	2.78	< 10	< 1	1.14	10	1.77	180	105
565746	299	229	0.6	2.04	6	210	< 0.5	< 2	2.96	< 0.5	9	85	683	3.41	< 10	< 1	1.14	20	1.60	180	128
565747	299	229	1.2	1.79	< 2	80	< 0.5	8	2.49	< 0.5	11	103	1575	3.88	10	< 1	0.89	20	1.28	180	157
565748	299	229	53.0	1.87	244	30	< 0.5	14	2.06	12.0	14	117	1720	5.98	10	< 1	1.11	10	1.61	510	166
565749	299	229	1.4	2.34	< 2	310	< 0.5	6	1.59	0.5	13	84	1770	5.43	10	< 1	1.24	10	1.90	205	100
565750	299	229	0.8	2.13	< 2	350	< 0.5	8	1.64	< 0.5	9	95	810	3.50	10	< 1	1.22	10	1.79	180	112

CERTIFICATION: Stuart Buchlan

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 213
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page [illegible]ar :4-B
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Invoice No. :19322346
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Account :FC

CERTIFICATE OF ANALYSIS A9322346

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565711	299	229	0.12	6	930	8	< 2	16	83	0.29	< 10	< 10	143	< 10	32
565712	299	229	0.16	3	1130	4	4	18	106	0.29	< 10	< 10	156	< 10	38
565713	299	229	0.18	7	910	< 2	4	19	183	0.31	< 10	< 10	170	< 10	38
565714	299	229	0.19	6	1010	< 2	< 2	20	126	0.34	< 10	< 10	169	< 10	34
565715	299	229	0.20	3	980	< 2	2	18	119	0.32	< 10	< 10	172	< 10	32
565716	299	229	0.18	8	1070	< 2	< 2	26	103	0.41	< 10	< 10	233	< 10	48
565717	299	229	0.22	6	1030	2	2	27	131	0.42	< 10	< 10	235	10	42
565718	299	229	0.18	7	910	< 2	< 2	25	121	0.41	< 10	< 10	208	< 10	40
565719	299	229	0.17	7	980	2	4	19	152	0.35	< 10	< 10	186	< 10	44
565720	299	229	0.10	5	570	< 2	2	14	80	0.24	< 10	< 10	118	< 10	26
565721	299	229	0.10	6	560	< 2	< 2	13	75	0.23	< 10	< 10	102	< 10	26
565722	299	229	0.13	6	950	< 2	< 2	16	84	0.28	< 10	< 10	140	< 10	36
565723	299	229	0.15	4	1170	< 2	2	18	95	0.28	< 10	< 10	163	< 10	82
565724	299	229	0.10	4	880	6	< 2	10	72	0.21	< 10	< 10	104	< 10	38
565725	299	229	0.11	3	950	2	< 2	13	87	0.24	< 10	< 10	126	< 10	36
565726	299	229	0.04	4	1150	18	14	16	115	0.06	< 10	< 10	108	< 10	50
565727	299	229	0.10	7	1280	206	26	21	133	0.27	< 10	< 10	170	10	342
565728	299	229	0.16	4	1000	< 2	2	21	121	0.36	< 10	< 10	194	< 10	54
565729	299	229	0.12	5	1180	2	4	21	158	0.36	< 10	< 10	183	< 10	40
565730	299	229	0.09	5	1130	6	4	18	152	0.31	< 10	< 10	153	10	40
565731	299	229	0.06	4	780	2	< 2	14	117	0.18	< 10	< 10	104	< 10	24
565732	299	229	0.06	6	500	2	< 2	14	77	0.16	< 10	< 10	99	< 10	28
565733	299	229	0.07	5	770	< 2	< 2	17	128	0.23	< 10	< 10	130	< 10	28
565734	299	229	0.06	6	1230	< 2	6	21	147	0.24	< 10	< 10	149	< 10	38
565735	299	229	0.09	7	750	4	< 2	18	104	0.27	< 10	< 10	123	< 10	28
565736	299	229	0.06	5	420	2	< 2	9	72	0.15	< 10	< 10	66	< 10	20
565737	299	229	0.08	7	550	4	< 2	15	105	0.22	< 10	< 10	109	< 10	26
565738	299	229	0.09	7	610	< 2	< 2	19	99	0.24	< 10	< 10	126	< 10	30
565739	299	229	0.07	7	510	2	2	12	60	0.16	< 10	< 10	88	< 10	30
565740	299	229	0.14	6	830	< 2	< 2	19	117	0.33	< 10	< 10	157	< 10	34
565741	299	229	0.16	7	1030	< 2	2	22	126	0.35	< 10	< 10	186	< 10	42
565742	299	229	0.14	6	1050	< 2	8	19	183	0.32	< 10	< 10	157	< 10	30
565743	299	229	0.14	7	910	< 2	2	18	116	0.30	< 10	< 10	142	< 10	30
565744	299	229	0.08	6	340	4	2	11	117	0.18	< 10	< 10	82	< 10	20
565745	299	229	0.08	6	800	2	2	15	58	0.21	< 10	< 10	107	< 10	30
565746	299	229	0.08	2	1140	< 2	< 2	13	121	0.22	< 10	< 10	118	< 10	24
565747	299	229	0.07	3	1090	< 2	< 2	10	175	0.14	< 10	< 10	94	< 10	20
565748	299	229	0.05	7	970	1500	370	11	84	0.15	< 10	< 10	99	< 10	454
565749	299	229	0.09	9	1380	4	2	13	63	0.23	< 10	< 10	148	< 10	32
565750	299	229	0.10	5	1030	4	2	13	80	0.26	< 10	< 10	127	< 10	32

CERTIFICATION: [signature]

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 213
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 14-OCT-93
Invoice No. : I9322346
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9322346

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565751	299	229	0.6	1.71	16	100	< 0.5	< 2	1.69	< 0.5	9	41	581	3.50	< 10	< 1	0.97	10	1.61	190	95
565752	299	229	0.6	1.76	2	60	< 0.5	2	2.62	< 0.5	9	143	446	4.43	< 10	< 1	0.95	20	1.54	160	167
565753	299	229	0.4	0.52	2	100	< 0.5	< 2	1.82	< 0.5	2	100	393	1.23	< 10	< 1	0.19	20	0.39	55	47
565754	299	229	0.2	1.01	< 2	120	< 0.5	< 2	1.71	< 0.5	1	219	478	1.38	< 10	< 1	0.31	20	0.55	65	60
565755	299	229	0.4	0.83	8	130	< 0.5	4	1.62	< 0.5	3	110	200	1.86	< 10	< 1	0.26	10	0.58	65	159
565756	299	229	0.2	1.08	< 2	110	< 0.5	< 2	1.83	< 0.5	1	198	188	1.59	< 10	< 1	0.28	20	0.47	70	139
565757	299	229	0.4	1.00	8	100	< 0.5	8	1.69	< 0.5	2	112	291	1.55	< 10	< 1	0.37	10	0.71	75	126
565758	299	229	0.6	1.46	4	110	< 0.5	2	1.73	< 0.5	4	172	787	1.58	< 10	< 1	0.65	20	1.06	110	91
565759	299	229	0.6	0.44	6	140	< 0.5	6	1.80	< 0.5	4	109	637	1.82	< 10	< 1	0.16	20	0.28	60	83
565760	299	229	1.4	1.42	64	80	< 0.5	6	2.67	< 0.5	6	147	1450	4.26	< 10	< 1	0.35	10	0.63	170	98
565761	299	229	5.0	0.73	40	60	< 0.5	114	2.70	1.0	9	89	3690	5.05	< 10	< 1	0.27	20	0.95	190	53
565762	299	229	0.4	1.36	4	200	< 0.5	< 2	2.35	< 0.5	3	155	487	1.77	< 10	< 1	0.41	20	0.45	65	103

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): ARCHER CATHRO & ASSOC. (1981) LTD.
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CERTIFICATE OF ANALYSIS A9322346

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565751	299	229	0.05	4	1070	< 2	2	11	63	0.24	< 10	< 10	112	< 10	28
565752	299	229	0.09	6	940	< 2	4	15	108	0.26	< 10	< 10	120	< 10	24
565753	299	229	0.03	2	280	8	< 2	2	83	0.01	< 10	< 10	20	< 10	12
565754	299	229	0.07	6	420	< 2	< 2	3	73	0.01	< 10	< 10	27	< 10	12
565755	299	229	0.02	3	320	8	2	4	90	0.02	< 10	< 10	30	< 10	8
565756	299	229	0.04	4	230	4	< 2	3	62	< 0.01	< 10	< 10	23	< 10	12
565757	299	229	0.03	3	390	2	2	4	146	0.04	< 10	< 10	38	< 10	12
565758	299	229	0.08	4	420	< 2	< 2	9	98	0.09	< 10	< 10	64	< 10	16
565759	299	229	0.01	3	200	4	< 2	2	62	< 0.01	< 10	< 10	10	< 10	8
565760	299	229	0.01	3	590	8	10	5	20	< 0.01	< 10	< 10	25	< 10	14
565761	299	229	0.01	41	690	38	20	4	25	< 0.01	< 10	< 10	23	< 10	70
565762	299	229	0.04	5	260	< 2	4	4	157	0.01	< 10	< 10	27	< 10	10

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CERTIFICATE OF ANALYSIS A9322986

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H589580	208	276	0.71	0.060	0.41	7300						
H589581	208	276	0.46	0.034	0.38	9680						
H589582	208	276	0.55	0.117	0.17	8800						
H589583	208	273	0.10	0.036	0.03	13400						
H589584	208	276	0.15	0.042	0.07	11680						
H589585	208	274	0.08	0.036	0.07	6220						
H589586	208	276	0.17	0.030	0.07	9760						
H589587	208	276	0.15	0.023	0.07	7560						
H589588	208	276	0.12	0.020	0.10	10780						
H589589	208	276	0.11	0.031	0.07	10680						
H589590	208	274	0.51	0.021	0.45	7000						
H589591	208	273	0.16	0.009	0.17	12100						
H589592	208	276	0.20	0.023	0.14	11500						
H589593	208	273	0.34	0.025	0.41	11880						
H589594	208	276	0.22	0.041	0.24	7520						
H589595	208	276	0.34	0.039	0.65	11300						
H589596	208	274	0.31	0.052	0.27	6900						
H589597	208	274	0.25	0.059	0.17	3500						
H589598	208	274	0.16	0.003	0.14	4700						
H589599	208	276	0.23	0.011	0.34	10780						
H589600	208	274	0.91	0.009	0.48	6300						
H589601	208	276	0.32	0.003	0.27	10160						
H589602	208	276	0.19	0.002	0.17	10720						
H589603	208	276	0.29	0.005	0.31	10200						
H589604	208	276	0.22	0.003	0.27	11520						
H589605	208	273	0.23	0.010	0.31	13080						
H589606	208	273	0.23	0.003	0.34	12540						
H589607	208	276	0.18	0.007	0.17	10160						
H589608	208	276	0.35	0.010	0.38	11100						
H589609	208	273	0.46	0.104	0.48	14920						
H589610	208	276	0.22	0.003	0.24	11700						
H589611	208	276	0.34	0.007	0.38	11540						
H589612	208	276	0.21	0.015	0.24	9440						
H589613	208	273	0.36	0.178	0.38	12060						
H589614	208	273	0.18	0.019	0.21	12760						
H589615	208	276	0.62	0.027	0.69	10600						
H589616	208	276	0.78	0.035	0.93	9060						
H589617	208	276	0.58	0.031	0.62	11720						
H589618	208	276	0.50	0.057	0.62	7460						
H589619	208	273	0.48	0.056	0.58	12660						

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CERTIFICATE OF ANALYSIS A9322986

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H589620	208	273	0.40	0.067	0.34	12300
H589621	208	273	0.30	0.074	0.48	12020
H589622	208	276	0.36	0.068	1.10	9860
H589623	208	276	0.46	0.042	0.51	7860
H589624	208	276	0.65	0.071	0.72	8580
H589625	208	276	0.36	0.049	0.48	10280
H589626	208	276	0.27	0.031	0.38	10900
H589627	208	273	0.44	0.036	0.38	13100
H589628	208	273	0.36	0.053	0.45	12680
H589629	208	276	0.46	0.031	0.62	9160
H589630	208	276	0.57	0.034	0.96	11620
H589631	208	273	0.47	0.052	0.51	12480
H589632	208	273	0.42	0.046	0.48	12800
H589633	208	276	0.35	0.025	0.41	11700
H589634	208	276	0.31	0.060	0.45	11760
H589635	208	273	0.40	0.042	0.45	12400
H589636	208	273	0.48	0.055	0.62	12860
H589637	208	273	0.21	0.032	0.27	13780
H589638	208	276	0.46	0.102	0.75	11640
H589639	208	273	0.46	0.063	0.58	13100
H589640	208	273	0.64	0.101	0.65	12320
H589641	208	273	0.51	0.087	0.51	12280
H589642	208	276	0.49	0.021	0.75	11080
H589643	208	273	0.15	0.006	0.17	12180
H589644	208	273	0.10	0.025	0.14	12100
H589645	208	276	0.28	0.108	0.45	11200
H589646	208	273	0.35	0.103	0.55	12480
H589647	208	276	0.31	0.092	0.34	7520
H589648	208	273	0.37	0.079	0.55	12760
H589649	208	273	0.29	0.147	0.34	13640
H589650	208	276	0.16	0.029	0.17	10940
H589651	208	274	0.28	0.072	0.45	4240
H589652	208	273	0.23	0.078	0.31	12760
H589653	208	276	0.19	0.061	0.34	11560
H589654	208	276	0.16	0.078	0.27	11480
H589655	208	276	0.30	0.055	0.41	11660
H589656	208	273	0.29	0.034	0.31	11920
H589657	208	273	0.25	0.059	0.21	11820
H589658	208	276	0.20	0.076	0.31	11460
H589659	208	276	0.38	0.060	0.51	11220

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 214
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. :19322986
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322986

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H589660	208	273	0.20	0.135	0.27	12940
H589661	208	276	0.15	0.082	0.17	11540
H589662	208	273	0.16	0.066	0.24	12920
H589663	208	273	0.25	0.142	0.24	13920
H589664	208	273	0.18	0.077	0.24	13500
H589665	208	273	0.17	0.155	0.27	12460
H589666	208	273	0.14	0.171	0.17	12760
H589667	208	273	0.30	0.097	0.45	12280
H589668	208	273	0.31	0.096	0.65	11880
H589669	208	276	0.23	0.059	0.31	11180
H589670	208	276	0.12	0.189	0.14	11400
H589671	208	273	0.20	0.093	0.21	12880
H589672	208	273	0.29	0.090	0.34	12600
H589673	208	273	0.19	0.042	0.24	13000
H589674	208	273	0.24	0.113	0.34	12860
H589675	208	276	0.19	0.103	0.24	11780
H589676	208	273	0.09	0.122	0.07	13400
H589677	208	273	0.12	0.092	0.14	12740
H589678	208	276	0.15	0.087	0.24	8680
H589679	208	276	0.21	0.085	0.24	10380
H589680	208	273	0.21	0.191	0.21	12120
H589681	208	276	0.17	0.116	0.21	11720
H589682	208	273	0.11	0.086	0.14	11820
H589683	208	276	0.16	0.023	0.21	8860
H589684	208	276	0.26	0.065	0.31	10140
H589685	208	273	0.37	0.094	0.38	12780
H589686	208	273	0.17	0.050	0.21	12900
H589687	208	273	0.16	0.040	0.21	13120
H589688	208	276	0.12	0.033	0.14	11800
H589689	208	273	0.18	0.023	0.45	13580
H589690	208	276	0.07	0.012	0.07	11100
H589691	208	276	0.11	0.124	0.14	8040
H589692	208	276	0.14	0.028	0.17	11540
H589693	208	276	0.09	0.058	0.14	11800
H589694	208	273	0.12	0.030	0.14	13560
H589695	208	273	0.11	0.032	0.10	14180
H589696	208	273	0.25	0.050	0.31	13520
H589697	208	273	0.28	0.033	0.31	13000
H589698	208	273	0.09	0.054	0.10	13080
H589699	208	270	0.15	0.023	0.24	18280

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H589700	208 273	0.12	0.082	0.14	12440
H589701	208 273	0.20	0.085	0.31	12500
H589702	208 273	0.08	0.083	0.07	13100
H589703	208 273	0.11	0.069	0.17	12400
H589704	208 273	0.08	0.050	0.10	12940
H589705	208 273	0.17	0.068	0.17	11900
H589706	208 273	0.04	0.107	0.03	13260
H589707	208 273	0.05	0.102	0.03	12420
H589708	208 273	0.10	0.147	0.10	12820
H589709	208 273	0.23	0.115	0.27	12820
H589710	208 276	0.19	0.054	0.21	11260
H589711	208 273	0.18	0.063	0.24	13720
H589712	208 273	0.06	0.035	0.03	12080
H589713	208 273	0.10	0.068	0.10	13680
H589714	208 273	0.04	0.050	< 0.03	12860
H589715	208 273	0.02	0.056	0.03	12240
H589716	208 273	0.15	0.093	0.17	12160
H589717	208 273	0.08	0.080	0.07	12500
H589718	208 276	0.12	0.122	0.17	11040
H589719	208 276	0.02	0.053	0.03	11580
H589720	208 273	0.06	0.076	0.07	12640
H589721	208 273	0.08	0.147	0.10	12900
H589722	208 273	0.08	0.071	0.10	12520
H589723	208 273	0.07	0.080	0.07	12700
H589724	208 273	0.11	0.077	0.31	11840
H589725	208 273	0.09	0.421	0.17	12780
H589726	208 273	0.07	0.068	0.17	12520
H589727	208 273	0.14	0.034	0.21	11960
H589728	208 273	0.16	0.027	0.31	11860
H589729	208 273	0.05	0.022	0.10	12200
H589730	208 276	0.08	0.030	0.10	11800
H589731	208 273	0.05	0.055	0.07	12400
H589732	208 273	0.10	0.016	0.14	13080
H589733	208 273	0.07	0.037	0.10	12200
H589734	208 273	0.07	0.033	0.10	12740
H589735	208 273	0.09	0.013	0.14	12900
H589736	208 276	0.12	0.010	0.27	11100
H589737	208 273	0.09	0.010	0.14	12240
H589738	208 273	0.07	0.021	0.14	13480
H589739	208 276	0.05	0.029	0.07	11780

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CERTIFICATE OF ANALYSIS A9322986

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H589740	208 273	0.06	0.021	0.10	12520
H589741	208 273	0.05	0.008	0.07	12780
H589742	208 276	0.09	0.024	0.14	8400
H589743	208 274	0.09	0.025	0.17	6940
H589744	208 274	0.08	0.040	0.14	7000
H589745	208 276	0.04	0.027	0.07	7840
H589746	208 274	0.05	0.033	0.10	7000
H589747	208 274	0.09	0.025	0.14	7040
H589748	208 274	0.10	0.044	0.14	6300
H589749	208 274	0.11	0.088	0.14	7080
H589750	208 276	0.13	0.062	0.17	7660
H589751	208 276	0.08	0.054	0.14	7400
H589752	208 274	0.09	0.032	0.17	6800
H589753	208 274	0.07	0.089	0.14	7000
H589754	208 274	0.07	0.129	0.10	7260
H589755	208 274	0.10	0.044	0.17	6840
H589756	208 276	0.13	0.151	0.21	7320
H589757	208 274	0.12	0.143	0.17	7040
H589758	208 274	0.11	0.132	0.14	6920
H589759	208 274	0.05	0.023	0.10	6360
H589760	208 274	0.05	0.077	0.07	6640
H589761	208 274	0.35	0.090	0.45	6940
H589762	208 274	0.10	0.038	0.14	6940
H589763	208 274	0.13	0.100	0.21	6680
H589764	208 274	0.20	0.042	0.24	6940
H589765	208 274	0.10	0.081	0.14	6800
H589766	208 274	0.26	0.044	0.31	6800
H589767	208 276	0.17	0.037	0.24	7380
H589768	208 274	0.05	0.224	0.10	6880
H589769	208 274	0.25	0.296	0.21	7000
H589770	208 274	0.07	0.098	0.10	6800
H589771	208 274	0.14	0.047	0.14	6720
H589772	208 274	0.11	0.117	0.14	6380
H589773	208 274	0.09	0.184	0.14	6320
H589774	208 276	0.09	0.159	0.14	8240
H589775	208 274	0.12	0.159	0.17	6880
H589776	208 274	0.13	0.217	0.21	6700
H589777	208 276	0.16	0.186	0.21	7640
H589778	208 274	0.06	0.174	0.07	6860
H589779	208 274	0.25	0.097	0.24	6440

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CERTIFICATE OF ANALYSIS A9322986

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H589780	208	274	0.17	0.338	0.10	7000
H589781	208	276	0.21	0.183	0.24	7440
H589782	208	276	0.27	0.108	0.27	7420
H589783	208	276	0.15	0.093	0.14	7420
H589784	208	274	0.21	0.108	0.21	6860
H589785	208	276	0.09	0.076	< 0.03	7360
H589786	208	274	0.13	0.265	0.21	7220
H589787	208	274	0.28	0.103	0.14	7180
H589788	208	274	0.15	0.121	0.17	7100
H589789	208	274	0.09	0.111	0.10	7160
H589790	208	274	0.16	0.116	0.17	6660
H589791	208	274	0.18	0.319	0.17	6920
H589792	208	274	0.11	0.293	0.10	4460

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Project : CASINO 214
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Certificate Date: 21-OCT-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589580	299	229	2.2	1.55	24	150	< 0.5	< 2	0.39	< 0.5	23	29	7130	3.25	10	< 1	0.70	40	0.89	50	359
H589581	299	229	1.6	2.64	< 2	150	< 0.5	< 2	2.26	1.5	28	56	4760	2.82	10	< 1	1.01	40	1.72	295	188
H589582	299	229	1.6	1.15	12	120	< 0.5	< 2	0.99	1.0	17	33	5840	2.47	10	< 1	0.53	30	0.85	215	735
H589583	299	229	0.4	1.04	4	100	< 0.5	< 2	1.27	< 0.5	26	118	1045	3.17	< 10	< 1	0.55	20	0.61	230	211
H589584	299	229	0.4	0.58	8	90	< 0.5	< 2	2.08	< 0.5	19	57	1450	2.51	< 10	< 1	0.28	20	0.97	250	247
H589585	299	229	0.4	0.96	6	100	< 0.5	< 2	0.87	< 0.5	25	98	879	2.76	< 10	< 1	0.49	20	0.37	260	223
H589586	299	229	0.4	0.80	< 2	40	< 0.5	< 2	0.80	0.5	21	38	1810	2.80	< 10	< 1	0.19	30	0.36	595	192
H589587	299	229	0.6	1.20	8	70	< 0.5	< 2	1.57	< 0.5	17	79	1535	2.68	10	< 1	0.31	20	0.59	640	131
H589588	299	229	0.6	1.40	6	80	< 0.5	< 2	1.35	< 0.5	21	121	1285	2.90	10	< 1	0.42	30	0.50	470	118
H589589	299	229	0.6	0.59	14	40	< 0.5	< 2	0.95	< 0.5	17	60	1165	2.56	< 10	< 1	0.20	30	0.32	355	182
H589590	299	229	2.0	1.41	20	30	< 0.5	< 2	1.59	0.5	28	59	5350	2.45	10	< 1	0.22	30	0.48	570	123
H589591	299	229	1.2	0.88	50	100	< 0.5	< 2	1.54	< 0.5	22	93	1680	3.17	10	< 1	0.23	40	0.44	530	49
H589592	299	229	1.2	1.41	10	150	< 0.5	< 2	1.62	< 0.5	20	158	2060	2.30	10	< 1	0.34	30	0.64	445	137
H589593	299	229	2.6	0.67	98	30	< 0.5	< 2	1.11	< 0.5	32	106	3510	5.97	10	< 1	0.28	10	0.41	340	142
H589594	299	229	1.2	1.35	8	130	< 0.5	< 2	0.67	< 0.5	21	118	2200	2.48	10	< 1	0.33	20	0.30	350	238
H589595	299	229	4.6	0.63	28	90	< 0.5	< 2	0.88	1.0	32	43	3650	3.25	< 10	< 1	0.25	20	0.28	345	246
H589596	299	229	1.4	1.26	20	160	< 0.5	< 2	0.95	< 0.5	20	51	3160	1.95	10	< 1	0.17	30	0.32	430	319
H589597	299	229	1.0	0.67	8	100	< 0.5	< 2	0.43	0.5	27	56	2510	2.26	10	< 1	0.12	30	0.16	695	351
H589598	299	229	0.8	0.59	20	40	< 0.5	< 2	0.48	< 0.5	17	141	1735	1.64	10	< 1	0.16	30	0.22	240	18
H589599	299	229	0.8	1.00	6	90	< 0.5	< 2	0.31	< 0.5	19	212	2400	2.29	< 10	< 1	0.31	20	0.16	285	66
H589600	299	229	3.4	0.57	18	30	< 0.5	< 2	0.94	1.0	42	86	8990	4.13	< 10	< 1	0.19	10	0.32	470	53
H589601	299	229	1.8	1.90	34	50	< 0.5	< 2	3.37	< 0.5	42	67	3210	4.00	10	< 1	0.59	20	0.84	470	14
H589602	299	229	1.2	1.91	28	60	< 0.5	< 2	2.97	< 0.5	29	23	1965	4.08	10	< 1	0.57	20	1.03	425	13
H589603	299	229	1.6	2.65	28	230	< 0.5	< 2	1.99	< 0.5	48	46	2930	4.17	10	< 1	0.81	20	1.38	655	26
H589604	299	229	1.4	2.17	6	70	< 0.5	< 2	2.09	< 0.5	37	32	2220	3.86	10	< 1	0.47	20	1.14	195	15
H589605	299	229	1.4	3.40	16	60	< 0.5	< 2	2.26	< 0.5	37	79	2330	4.43	10	< 1	0.68	10	1.52	195	56
H589606	299	229	1.2	3.62	22	120	< 0.5	< 2	2.83	< 0.5	33	22	2150	4.62	10	< 1	1.33	10	2.59	255	15
H589607	299	229	0.6	5.54	30	220	< 0.5	< 2	2.47	< 0.5	25	30	1775	5.45	10	< 1	1.80	< 10	3.86	325	35
H589608	299	229	1.8	2.54	16	100	< 0.5	< 2	2.53	< 0.5	27	24	3480	3.91	10	< 1	0.91	20	1.62	265	53
H589609	299	229	2.4	2.01	24	140	< 0.5	< 2	2.75	< 0.5	38	62	4510	3.41	10	< 1	0.57	30	1.10	255	571
H589610	299	229	1.4	0.70	2	80	< 0.5	< 2	1.72	0.5	12	77	2270	1.67	< 10	< 1	0.28	20	0.40	125	18
H589611	299	229	2.0	0.70	14	100	< 0.5	< 2	1.74	< 0.5	20	50	3410	2.17	10	< 1	0.22	20	0.49	135	41
H589612	299	229	1.4	0.70	< 2	110	< 0.5	< 2	1.81	0.5	16	84	2110	2.11	< 10	< 1	0.19	20	0.45	185	88
H589613	299	229	2.2	0.97	18	140	< 0.5	< 2	1.43	< 0.5	17	101	3700	1.74	10	< 1	0.24	30	0.29	345	1045
H589614	299	229	1.2	0.48	< 2	300	< 0.5	< 2	0.71	< 0.5	10	120	1920	1.01	< 10	< 1	0.16	10	0.10	120	123
H589615	299	229	3.0	2.30	38	120	< 0.5	< 2	2.39	0.5	35	85	6500	4.61	10	< 1	0.48	30	0.79	555	155
H589616	299	229	3.8	0.99	24	80	< 0.5	4	1.49	0.5	38	66	8200	4.27	10	< 1	0.25	40	0.23	570	210
H589617	299	229	3.2	1.71	20	90	< 0.5	< 2	0.80	0.5	41	57	5880	3.39	10	< 1	0.36	30	0.34	570	182
H589618	299	229	3.6	0.58	44	20	< 0.5	4	1.13	0.5	25	85	5320	5.14	10	< 1	0.18	40	0.14	155	352
H589619	299	229	2.8	1.60	18	80	< 0.5	2	1.21	< 0.5	20	88	5010	3.48	10	< 1	0.25	30	0.36	150	328

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Page Number :1-B
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CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589580	299	229	0.01	9	1120	12	4	8	14	0.04	< 10	< 10	57	< 10	54
H589581	299	229	0.02	12	740	8	< 2	12	29	0.03	< 10	< 10	83	< 10	100
H589582	299	229	0.01	8	770	6	8	8	13	0.02	< 10	< 10	52	< 10	66
H589583	299	229	0.02	9	430	4	2	2	13	< 0.01	< 10	< 10	16	10	40
H589584	299	229	0.01	10	690	4	6	4	22	< 0.01	< 10	< 10	25	< 10	40
H589585	299	229	0.01	11	680	< 2	6	3	12	< 0.01	< 10	< 10	21	10	44
H589586	299	229	< 0.01	11	680	< 2	2	5	10	< 0.01	< 10	< 10	27	< 10	98
H589587	299	229	0.01	10	810	< 2	2	7	14	< 0.01	< 10	< 10	38	< 10	52
H589588	299	229	0.01	7	740	2	4	6	13	< 0.01	< 10	< 10	29	< 10	30
H589589	299	229	< 0.01	7	730	8	2	6	10	< 0.01	< 10	< 10	26	< 10	38
H589590	299	229	< 0.01	16	1520	10	14	13	13	< 0.01	< 10	< 10	55	< 10	94
H589591	299	229	< 0.01	13	770	12	4	10	13	< 0.01	< 10	< 10	46	< 10	64
H589592	299	229	0.01	12	630	6	4	8	16	< 0.01	< 10	< 10	38	< 10	46
H589593	299	229	< 0.01	28	430	46	8	5	9	< 0.01	< 10	< 10	21	< 10	58
H589594	299	229	0.01	14	630	6	4	4	11	< 0.01	< 10	< 10	23	< 10	46
H589595	299	229	< 0.01	12	1060	8	142	6	13	< 0.01	< 10	< 10	22	< 10	86
H589596	299	229	< 0.01	11	1000	4	6	9	12	< 0.01	< 10	< 10	39	< 10	52
H589597	299	229	< 0.01	13	620	2	4	4	9	< 0.01	< 10	< 10	19	< 10	88
H589598	299	229	< 0.01	23	280	8	< 2	6	7	< 0.01	< 10	< 10	23	< 10	40
H589599	299	229	0.01	15	500	< 2	< 2	3	7	< 0.01	< 10	< 10	23	< 10	44
H589600	299	229	< 0.01	20	910	< 2	2	4	10	< 0.01	< 10	< 10	19	< 10	48
H589601	299	229	0.01	12	880	14	2	8	36	0.01	< 10	< 10	57	10	46
H589602	299	229	0.01	5	1220	14	4	10	38	0.02	< 10	< 10	73	10	32
H589603	299	229	0.01	6	1290	2	10	16	25	0.06	< 10	< 10	116	10	76
H589604	299	229	0.01	3	1030	4	4	8	43	0.01	< 10	< 10	60	10	26
H589605	299	229	0.02	3	1510	6	4	10	53	0.02	< 10	< 10	74	10	16
H589606	299	229	0.02	6	960	4	2	19	39	0.08	< 10	< 10	165	20	24
H589607	299	229	0.03	9	950	< 2	< 2	16	49	0.14	< 10	< 10	179	20	32
H589608	299	229	0.01	6	1380	2	12	12	39	0.05	< 10	< 10	90	< 10	26
H589609	299	229	0.01	6	1140	4	8	11	30	0.03	< 10	< 10	83	< 10	20
H589610	299	229	< 0.01	3	400	< 2	4	3	20	< 0.01	< 10	< 10	20	< 10	10
H589611	299	229	0.01	7	610	2	6	4	24	< 0.01	< 10	< 10	21	< 10	16
H589612	299	229	0.01	11	400	4	2	3	28	< 0.01	< 10	< 10	14	< 10	22
H589613	299	229	< 0.01	6	470	2	12	5	12	< 0.01	< 10	< 10	21	< 10	32
H589614	299	229	< 0.01	4	140	6	< 2	< 1	12	< 0.01	< 10	< 10	3	< 10	12
H589615	299	229	0.01	18	980	4	10	16	20	0.03	< 10	10	108	< 10	48
H589616	299	229	< 0.01	17	1130	8	6	9	15	< 0.01	< 10	10	36	< 10	68
H589617	299	229	< 0.01	14	1280	< 2	4	12	12	< 0.01	< 10	10	61	< 10	78
H589618	299	229	< 0.01	18	710	18	6	6	11	< 0.01	< 10	20	19	< 10	26
H589619	299	229	< 0.01	19	820	16	10	7	15	< 0.01	< 10	60	40	< 10	20

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 214
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :6
Certificate Date: 21-OCT-93
Invoice No. :19322989
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CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589620	299	229	3.2	1.03	28	130	< 0.5	< 2	2.54	< 0.5	11	132	3980	2.66	10	< 1	0.39	40	0.59	435	393
H589621	299	229	1.8	0.87	616	130	< 0.5	< 2	2.15	< 0.5	19	85	2910	1.95	10	< 1	0.28	20	0.60	945	457
H589622	299	229	1.8	0.91	158	150	< 0.5	< 2	3.37	< 0.5	13	101	3680	2.09	< 10	< 1	0.19	30	1.19	1835	402
H589623	299	229	2.8	1.23	36	80	< 0.5	< 2	2.14	< 0.5	19	69	4740	3.76	10	< 1	0.22	40	0.73	515	246
H589624	299	229	3.0	1.43	32	60	< 0.5	< 2	1.98	< 0.5	25	80	6610	3.73	10	< 1	0.27	30	0.59	350	430
H589625	299	229	2.0	0.82	16	50	< 0.5	< 2	2.77	< 0.5	12	85	3550	1.86	< 10	< 1	0.21	30	0.67	375	296
H589626	299	229	2.2	0.85	18	60	< 0.5	< 2	1.17	< 0.5	16	66	2590	1.97	< 10	< 1	0.29	20	0.57	325	180
H589627	299	229	2.6	0.67	12	100	< 0.5	< 2	1.63	0.5	21	71	4330	2.27	10	< 1	0.19	40	0.63	355	218
H589628	299	229	2.8	0.79	378	70	< 0.5	< 2	2.50	< 0.5	14	105	3580	3.26	< 10	< 1	0.29	20	1.09	2050	301
H589629	299	229	3.4	0.84	22	40	< 0.5	< 2	3.05	0.5	15	74	4790	4.02	10	< 1	0.24	50	1.06	425	183
H589630	299	229	2.6	1.05	20	60	< 0.5	< 2	3.67	< 0.5	14	98	5550	2.07	10	< 1	0.14	60	1.04	260	203
H589631	299	229	2.2	1.10	8	200	< 0.5	< 2	2.78	< 0.5	21	117	4670	2.27	10	< 1	0.32	50	0.99	235	300
H589632	299	229	2.0	0.99	24	160	< 0.5	< 2	2.25	< 0.5	13	150	4220	1.91	10	< 1	0.32	60	0.81	210	260
H589633	299	229	1.6	1.38	14	240	< 0.5	< 2	2.17	< 0.5	8	81	3400	1.68	10	< 1	0.57	60	1.21	130	138
H589634	299	229	1.4	1.85	18	170	< 0.5	< 2	2.73	< 0.5	8	117	2920	1.69	10	< 1	0.83	60	1.46	170	323
H589635	299	229	2.2	1.16	12	60	< 0.5	< 2	3.28	< 0.5	9	96	3810	1.79	10	< 1	0.42	40	0.80	205	237
H589636	299	229	3.4	1.71	26	180	< 0.5	< 2	2.78	< 0.5	10	87	4710	3.09	10	< 1	0.64	40	1.25	315	303
H589637	299	229	1.6	1.75	8	80	< 0.5	< 2	2.52	< 0.5	13	78	2200	3.62	< 10	< 1	0.38	30	0.80	250	182
H589638	299	229	2.6	1.24	26	50	< 0.5	< 2	2.06	< 0.5	9	80	4570	2.09	< 10	< 1	0.28	30	0.84	235	598
H589639	299	229	2.6	0.65	26	20	< 0.5	< 2	1.74	< 0.5	11	71	4750	1.92	< 10	< 1	0.12	30	0.77	180	379
H589640	299	229	3.4	1.50	42	80	< 0.5	< 2	1.67	0.5	13	74	6540	1.89	10	< 1	0.36	60	0.70	145	591
H589641	299	229	1.8	1.18	16	50	< 0.5	< 2	2.20	0.5	10	93	5050	1.76	10	< 1	0.21	60	0.72	260	487
H589642	299	229	1.8	2.52	4	350	< 0.5	< 2	1.90	0.5	12	77	5190	3.01	10	< 1	0.60	40	1.16	250	127
H589643	299	229	0.8	2.45	< 2	550	< 0.5	< 2	2.19	< 0.5	10	80	1560	2.71	10	< 1	0.74	20	1.31	255	27
H589644	299	229	0.6	2.26	< 2	490	< 0.5	< 2	2.35	< 0.5	6	65	1065	2.60	10	< 1	0.61	30	1.19	330	138
H589645	299	229	1.6	1.97	28	150	< 0.5	< 2	1.78	< 0.5	6	52	2880	1.98	10	< 1	0.21	40	0.75	330	636
H589646	299	229	2.6	1.55	40	110	< 0.5	< 2	1.42	< 0.5	9	76	3730	3.08	10	< 1	0.48	40	0.58	270	603
H589647	299	229	1.6	2.04	30	70	< 0.5	< 2	2.26	< 0.5	6	56	3220	2.88	10	< 1	0.27	30	0.88	475	532
H589648	299	229	3.0	1.72	84	100	< 0.5	< 2	2.28	< 0.5	9	81	4010	3.01	< 10	< 1	0.27	20	0.86	905	478
H589649	299	229	2.4	1.10	22	150	< 0.5	< 2	2.19	< 0.5	9	96	2870	2.30	< 10	< 1	0.26	40	0.91	520	849
H589650	299	229	0.8	3.17	< 2	650	< 0.5	< 2	1.80	< 0.5	12	40	1615	4.06	10	< 1	1.21	30	2.07	440	165
H589651	299	229	1.4	2.71	4	360	< 0.5	< 2	0.97	< 0.5	10	72	2770	3.66	10	< 1	0.95	40	1.45	255	411
H589652	299	229	1.2	1.86	8	200	< 0.5	< 2	2.32	< 0.5	6	48	2290	2.28	10	< 1	0.50	30	1.05	420	447
H589653	299	229	1.2	2.65	< 2	480	< 0.5	< 2	3.22	< 0.5	10	37	1940	2.97	10	< 1	1.19	40	1.98	385	330
H589654	299	229	1.0	1.77	22	180	< 0.5	< 2	2.76	< 0.5	5	86	1735	2.22	10	< 1	0.58	40	0.97	320	466
H589655	299	229	1.4	2.17	10	340	< 0.5	< 2	2.14	< 0.5	7	79	3070	1.97	10	< 1	0.83	40	1.26	150	322
H589656	299	229	1.2	3.09	< 2	540	< 0.5	< 2	2.70	< 0.5	9	69	2940	2.88	10	< 1	1.24	20	1.85	190	187
H589657	299	229	1.6	1.91	< 2	430	< 0.5	< 2	2.70	< 0.5	8	96	2450	1.93	< 10	< 1	0.66	20	0.93	205	329
H589658	299	229	1.4	2.10	8	190	< 0.5	< 2	1.24	< 0.5	6	90	1965	2.01	10	< 1	0.70	40	1.18	160	439
H589659	299	229	1.4	2.54	< 2	280	< 0.5	< 2	2.45	< 0.5	8	73	3830	2.45	10	< 1	1.14	30	1.81	190	344

CERTIFICATION:

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H589620	299	229	0.01	10	880	8	6	6	25	< 0.01	< 10	20	36	< 10	12
H589621	299	229	0.01	11	790	4	8	5	35	< 0.01	< 10	10	30	< 10	18
H589622	299	229	0.01	11	940	2	10	8	42	< 0.01	< 10	< 10	47	< 10	18
H589623	299	229	< 0.01	16	1110	14	2	9	20	< 0.01	< 10	10	55	< 10	36
H589624	299	229	< 0.01	17	900	6	6	11	17	< 0.01	< 10	< 10	64	< 10	22
H589625	299	229	< 0.01	9	860	2	6	6	22	< 0.01	< 10	10	48	< 10	22
H589626	299	229	< 0.01	10	340	4	12	7	15	< 0.01	< 10	20	35	< 10	30
H589627	299	229	< 0.01	12	760	< 2	10	8	15	< 0.01	< 10	< 10	34	< 10	24
H589628	299	229	0.01	11	780	< 2	16	7	25	< 0.01	< 10	< 10	42	< 10	28
H589629	299	229	< 0.01	11	470	2	20	9	21	< 0.01	< 10	50	52	< 10	20
H589630	299	229	< 0.01	18	680	< 2	4	13	26	< 0.01	< 10	< 10	69	< 10	14
H589631	299	229	0.01	13	1070	< 2	8	10	27	< 0.01	< 10	< 10	61	< 10	8
H589632	299	229	0.01	17	550	2	8	7	21	< 0.01	< 10	< 10	40	< 10	12
H589633	299	229	0.01	9	810	2	4	9	41	0.03	< 10	< 10	63	< 10	12
H589634	299	229	0.01	9	790	4	6	10	38	0.06	< 10	< 10	79	< 10	18
H589635	299	229	< 0.01	14	740	2	4	9	25	0.03	< 10	< 10	61	< 10	10
H589636	299	229	0.01	11	1100	16	4	10	30	0.04	< 10	10	76	< 10	26
H589637	299	229	< 0.01	9	1230	24	8	9	29	< 0.01	< 10	< 10	58	< 10	26
H589638	299	229	< 0.01	10	1100	12	16	11	21	< 0.01	< 10	10	68	< 10	16
H589639	299	229	< 0.01	9	690	12	10	11	19	< 0.01	< 10	< 10	58	< 10	10
H589640	299	229	0.01	11	1520	4	34	9	21	< 0.01	< 10	20	57	< 10	26
H589641	299	229	0.01	9	810	4	16	9	21	< 0.01	< 10	< 10	59	< 10	14
H589642	299	229	0.01	9	1260	8	8	15	54	0.05	< 10	< 10	92	< 10	22
H589643	299	229	0.02	13	870	8	< 2	8	126	0.07	< 10	< 10	58	< 10	22
H589644	299	229	0.01	12	830	16	6	9	56	0.06	< 10	< 10	54	< 10	24
H589645	299	229	< 0.01	6	880	10	16	10	22	< 0.01	< 10	10	53	< 10	16
H589646	299	229	0.01	7	680	8	30	8	16	< 0.01	< 10	10	37	< 10	22
H589647	299	229	0.01	6	1020	4	22	10	19	< 0.01	< 10	10	58	< 10	10
H589648	299	229	0.01	11	950	28	40	12	27	< 0.01	< 10	10	58	< 10	44
H589649	299	229	0.01	12	760	14	16	10	20	< 0.01	< 10	< 10	59	< 10	14
H589650	299	229	0.02	9	1400	2	8	15	106	0.13	< 10	< 10	102	< 10	34
H589651	299	229	0.01	9	1110	8	16	19	25	0.14	< 10	< 10	123	< 10	24
H589652	299	229	0.01	6	740	10	26	12	34	0.05	< 10	< 10	88	< 10	20
H589653	299	229	0.02	6	930	14	10	13	73	0.14	< 10	< 10	114	< 10	20
H589654	299	229	0.02	9	540	6	4	9	79	0.05	< 10	< 10	61	< 10	24
H589655	299	229	0.04	4	810	4	4	11	109	0.09	< 10	< 10	85	< 10	18
H589656	299	229	0.03	7	1100	< 2	4	14	118	0.13	< 10	< 10	108	< 10	24
H589657	299	229	0.02	2	830	12	2	8	116	0.06	< 10	< 10	54	< 10	20
H589658	299	229	0.01	5	610	18	6	11	44	0.07	< 10	< 10	75	< 10	30
H589659	299	229	0.02	9	1080	16	6	15	84	0.13	< 10	< 10	113	< 10	24

CERTIFICATION: Ian Bichler

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H589660	299	229	0.8	2.49	2	400	< 0.5	< 2	2.42	< 0.5	7	50	2070	2.37	10	< 1	1.06	30	1.69	165	749
H589661	299	229	1.2	1.10	20	100	< 0.5	< 2	2.02	< 0.5	6	85	1555	1.76	< 10	< 1	0.43	30	0.60	130	486
H589662	299	229	1.4	0.73	28	40	< 0.5	< 2	1.68	< 0.5	4	64	1720	2.33	< 10	< 1	0.25	30	0.43	125	385
H589663	299	229	2.0	0.82	16	70	< 0.5	< 2	2.36	< 0.5	9	48	2570	1.89	< 10	< 1	0.31	40	0.77	265	865
H589664	299	229	1.2	0.92	26	30	< 0.5	< 2	1.85	< 0.5	8	43	1925	3.61	< 10	< 1	0.14	30	0.61	200	459
H589665	299	229	1.2	0.75	6	120	< 0.5	< 2	2.22	< 0.5	7	46	1770	1.87	< 10	< 1	0.21	40	0.67	170	898
H589666	299	229	0.8	0.76	8	340	< 0.5	< 2	1.81	< 0.5	3	41	1480	1.53	< 10	< 1	0.13	40	0.60	115	1055
H589667	299	229	1.2	1.00	< 2	210	< 0.5	< 2	1.85	< 0.5	9	32	2980	1.93	< 10	< 1	0.16	30	0.69	125	588
H589668	299	229	1.6	1.26	2	120	< 0.5	< 2	2.47	< 0.5	6	57	3240	1.57	< 10	< 1	0.46	40	0.78	150	585
H589669	299	229	1.8	1.06	20	70	< 0.5	< 2	2.85	< 0.5	5	70	2320	1.68	< 10	< 1	0.42	20	0.55	125	356
H589670	299	229	1.0	1.02	6	30	< 0.5	< 2	2.65	< 0.5	3	69	1225	1.40	< 10	< 1	0.20	30	0.64	185	1095
H589671	299	229	1.8	0.70	52	70	< 0.5	< 2	1.73	< 0.5	7	77	2170	3.93	< 10	< 1	0.26	10	0.58	315	511
H589672	299	229	1.4	1.07	2	400	< 0.5	< 2	1.94	< 0.5	8	65	2790	1.54	< 10	< 1	0.41	20	0.90	140	512
H589673	299	229	2.4	0.85	46	100	< 0.5	< 2	1.99	< 0.5	8	64	1925	2.83	< 10	< 1	0.32	20	0.70	240	249
H589674	299	229	3.8	1.15	42	120	< 0.5	< 2	2.16	2.5	7	77	2470	2.38	< 10	< 1	0.47	20	0.80	290	659
H589675	299	229	2.2	0.97	50	190	< 0.5	< 2	2.74	< 0.5	5	43	1900	2.23	< 10	< 1	0.25	20	0.97	290	586
H589676	299	229	1.2	0.77	14	440	< 0.5	< 2	2.67	< 0.5	2	72	930	1.46	< 10	< 1	0.19	20	0.97	255	746
H589677	299	229	1.2	0.76	42	580	< 0.5	< 2	3.53	< 0.5	3	47	1290	1.37	< 10	< 1	0.10	20	1.34	295	620
H589678	299	229	1.4	0.69	38	410	< 0.5	< 2	2.23	< 0.5	4	52	1585	1.29	< 10	< 1	0.14	20	0.73	235	519
H589679	299	229	1.6	0.75	30	470	< 0.5	< 2	1.81	< 0.5	4	44	2190	1.16	< 10	< 1	0.13	20	0.55	180	540
H589680	299	229	1.8	0.98	30	530	< 0.5	< 2	1.70	< 0.5	5	36	2180	1.30	< 10	< 1	0.12	30	0.66	150	1210
H589681	299	229	1.2	1.10	4	230	< 0.5	< 2	1.43	< 0.5	4	81	1875	1.35	< 10	< 1	0.23	30	0.64	145	766
H589682	299	229	1.4	0.93	4	80	< 0.5	< 2	2.84	< 0.5	2	113	1160	0.99	< 10	< 1	0.34	30	0.41	135	529
H589683	299	229	1.4	2.39	< 2	150	< 0.5	< 2	1.71	< 0.5	8	66	1775	2.13	< 10	< 1	0.74	20	1.17	110	141
H589684	299	229	2.6	2.30	6	260	< 0.5	< 2	3.53	< 0.5	10	61	2800	2.75	< 10	< 1	0.97	30	1.32	265	374
H589685	299	229	3.0	1.54	4	70	< 0.5	< 2	2.17	< 0.5	15	49	3870	2.40	< 10	< 1	0.47	20	0.84	230	585
H589686	299	229	1.4	0.70	18	200	< 0.5	< 2	2.38	< 0.5	5	58	1760	1.60	< 10	< 1	0.15	20	0.20	180	286
H589687	299	229	0.8	2.28	< 2	600	< 0.5	< 2	2.62	< 0.5	11	55	1755	2.56	< 10	< 1	0.78	20	1.14	160	244
H589688	299	229	0.6	1.18	10	120	< 0.5	< 2	2.16	< 0.5	2	54	1265	0.99	< 10	< 1	0.50	30	0.79	110	208
H589689	299	229	0.8	1.81	< 2	260	< 0.5	< 2	1.70	< 0.5	5	58	1915	1.68	< 10	< 1	0.84	30	1.23	130	139
H589690	299	229	0.6	0.64	2	210	< 0.5	< 2	2.21	0.5	3	78	744	0.65	< 10	< 1	0.31	30	0.38	85	70
H589691	299	229	0.6	0.83	< 2	190	< 0.5	< 2	2.45	< 0.5	2	101	1140	0.82	10	< 1	0.27	30	0.79	110	726
H589692	299	229	0.8	1.05	6	750	< 0.5	< 2	1.76	< 0.5	3	103	1490	0.95	10	< 1	0.41	20	0.70	90	162
H589693	299	229	1.2	0.90	4	140	< 0.5	< 2	2.48	< 0.5	4	174	1030	1.04	< 10	< 1	0.40	30	0.64	140	358
H589694	299	229	1.2	1.52	4	160	< 0.5	< 2	2.66	< 0.5	5	127	1245	1.52	< 10	< 1	0.63	20	1.29	170	173
H589695	299	229	0.6	2.22	6	380	< 0.5	< 2	2.16	< 0.5	9	136	1165	2.38	10	< 1	0.95	20	1.40	155	190
H589696	299	229	0.8	2.29	< 2	650	< 0.5	< 2	1.75	0.5	9	92	2550	1.96	20	< 1	1.16	20	1.48	145	289
H589697	299	229	1.0	2.38	2	680	< 0.5	< 2	1.85	< 0.5	9	96	2880	2.17	10	< 1	1.17	30	1.57	140	182
H589698	299	229	2.4	1.19	2	220	< 0.5	< 2	1.80	0.5	3	211	983	1.38	10	< 1	0.47	20	0.62	140	319
H589699	299	229	2.2	1.60	16	150	< 0.5	< 2	2.63	0.5	6	181	1585	2.94	10	< 1	0.72	20	1.21	190	124

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 214
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Account :FC

CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589660	299	229	0.03	5	1090	6	12	13	82	0.11	< 10	10	103	< 10	22
H589661	299	229	0.01	5	470	16	12	5	33	0.01	< 10	< 10	34	< 10	18
H589662	299	229	0.01	3	560	12	8	4	20	< 0.01	< 10	< 10	24	< 10	14
H589663	299	229	0.01	4	880	14	16	5	24	< 0.01	< 10	< 10	29	< 10	22
H589664	299	229	< 0.01	3	810	36	6	8	18	< 0.01	< 10	10	46	< 10	16
H589665	299	229	0.01	3	610	8	10	12	21	0.01	< 10	10	58	< 10	12
H589666	299	229	< 0.01	3	820	8	10	10	22	< 0.01	< 10	< 10	57	< 10	18
H589667	299	229	< 0.01	3	810	10	6	13	22	0.01	< 10	< 10	68	< 10	16
H589668	299	229	0.01	4	680	8	4	10	32	0.04	< 10	10	65	< 10	10
H589669	299	229	0.01	3	390	6	8	6	36	0.01	< 10	< 10	39	< 10	14
H589670	299	229	< 0.01	3	490	12	12	9	26	< 0.01	< 10	< 10	50	< 10	18
H589671	299	229	< 0.01	4	360	22	12	3	20	< 0.01	< 10	10	18	< 10	42
H589672	299	229	0.01	4	610	< 2	6	10	28	0.03	< 10	< 10	57	< 10	18
H589673	299	229	0.01	4	760	20	6	7	26	< 0.01	< 10	10	37	< 10	44
H589674	299	229	0.01	3	610	100	16	7	28	0.02	< 10	< 10	48	< 10	164
H589675	299	229	0.01	1	750	14	14	9	27	0.01	< 10	< 10	45	< 10	36
H589676	299	229	0.01	2	450	18	14	6	25	< 0.01	< 10	10	29	< 10	30
H589677	299	229	0.01	2	480	10	14	8	32	< 0.01	< 10	< 10	34	< 10	26
H589678	299	229	< 0.01	3	410	14	28	4	19	< 0.01	< 10	< 10	25	< 10	30
H589679	299	229	< 0.01	2	600	12	22	6	17	< 0.01	< 10	10	29	< 10	24
H589680	299	229	< 0.01	2	940	16	32	9	22	< 0.01	< 10	< 10	44	< 10	30
H589681	299	229	0.01	< 1	590	16	14	9	19	0.01	< 10	10	60	< 10	28
H589682	299	229	0.01	2	430	14	12	3	29	< 0.01	< 10	10	24	< 10	26
H589683	299	229	0.02	7	870	8	6	12	74	0.06	< 10	< 10	75	< 10	40
H589684	299	229	0.01	7	940	8	10	16	48	0.12	< 10	< 10	116	< 10	50
H589685	299	229	0.01	4	1020	10	12	14	26	0.04	< 10	< 10	81	< 10	48
H589686	299	229	< 0.01	4	480	10	8	9	25	< 0.01	< 10	< 10	31	< 10	34
H589687	299	229	0.02	5	1150	12	< 2	15	64	0.11	< 10	< 10	96	< 10	40
H589688	299	229	0.02	3	420	14	2	7	50	0.03	< 10	20	48	< 10	32
H589689	299	229	0.04	3	520	8	4	11	49	0.10	< 10	< 10	88	< 10	34
H589690	299	229	0.03	1	280	6	< 2	3	43	0.01	< 10	< 10	21	< 10	36
H589691	299	229	0.02	2	230	10	6	4	88	< 0.01	< 10	< 10	25	< 10	30
H589692	299	229	0.02	5	380	12	< 2	6	109	0.02	< 10	< 10	36	< 10	22
H589693	299	229	0.01	4	300	12	6	3	33	0.01	< 10	< 10	28	< 10	26
H589694	299	229	0.02	4	590	14	4	9	61	0.06	< 10	< 10	62	< 10	40
H589695	299	229	0.05	4	690	4	2	13	60	0.11	< 10	< 10	97	< 10	30
H589696	299	229	0.06	6	580	12	4	16	2710	0.13	< 10	< 10	120	< 10	40
H589697	299	229	0.04	5	890	12	4	15	196	0.14	< 10	< 10	126	< 10	26
H589698	299	229	0.01	2	290	24	4	3	43	< 0.01	< 10	< 10	23	< 10	40
H589699	299	229	0.01	6	560	32	4	7	41	0.07	< 10	< 10	48	< 10	58

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589700	299	229	0.6	1.14	2	260	< 0.5	< 2	1.82	< 0.5	4	130	1275	0.96	10	< 1	0.15	20	0.53	95	527
H589701	299	229	1.2	0.70	26	530	< 0.5	< 2	1.13	< 0.5	6	70	2020	1.06	< 10	< 1	0.08	20	0.33	80	528
H589702	299	229	0.6	1.34	10	480	< 0.5	< 2	2.46	< 0.5	3	111	863	1.07	10	< 1	0.30	20	0.72	95	483
H589703	299	229	0.6	1.31	< 2	260	< 0.5	< 2	2.06	< 0.5	4	52	1120	1.46	10	< 1	0.63	20	0.87	115	423
H589704	299	229	0.6	0.55	< 2	100	< 0.5	< 2	1.85	< 0.5	3	99	849	0.84	< 10	< 1	0.18	20	0.15	65	326
H589705	299	229	1.2	1.60	< 2	210	< 0.5	< 2	2.21	< 0.5	5	131	1720	1.25	10	< 1	0.54	20	0.63	145	404
H589706	299	229	0.4	0.60	< 2	240	< 0.5	< 2	1.64	< 0.5	1	64	398	0.49	< 10	< 1	0.19	20	0.31	70	581
H589707	299	229	1.0	0.65	2	180	< 0.5	< 2	1.63	< 0.5	1	175	485	1.37	< 10	< 1	0.24	20	0.22	120	585
H589708	299	229	0.8	0.70	4	440	< 0.5	< 2	1.57	< 0.5	3	70	953	1.08	10	< 1	0.26	20	0.40	120	843
H589709	299	229	1.2	1.37	4	630	< 0.5	< 2	1.80	< 0.5	5	94	2290	1.31	10	< 1	0.36	30	0.53	120	696
H589710	299	229	1.0	0.80	10	240	< 0.5	< 2	0.65	< 0.5	6	46	1955	1.41	10	< 1	0.09	30	0.24	115	333
H589711	299	229	0.8	1.23	24	310	< 0.5	< 2	0.68	< 0.5	6	120	1950	1.44	10	< 1	0.13	30	0.21	150	420
H589712	299	229	0.2	0.47	14	980	< 0.5	< 2	0.56	< 0.5	2	67	653	0.51	< 10	< 1	0.08	20	0.14	75	235
H589713	299	229	0.4	1.11	18	890	< 0.5	< 2	0.94	< 0.5	6	129	1015	1.78	< 10	< 1	0.11	20	0.33	180	419
H589714	299	229	0.2	0.49	12	730	< 0.5	< 2	0.52	< 0.5	< 1	107	403	0.42	< 10	< 1	0.11	20	0.14	70	315
H589715	299	229	< 0.2	1.21	8	1370	< 0.5	< 2	0.40	< 0.5	1	185	215	0.45	10	< 1	0.13	20	0.12	65	390
H589716	299	229	0.8	0.63	32	750	< 0.5	< 2	0.54	< 0.5	4	85	1565	0.70	10	< 1	0.08	30	0.14	60	593
H589717	299	229	0.6	1.25	20	1060	< 0.5	< 2	0.53	< 0.5	2	140	836	0.76	10	< 1	0.12	40	0.16	75	532
H589718	299	229	0.8	0.58	44	440	< 0.5	< 2	0.91	< 0.5	3	76	1210	0.71	10	< 1	0.08	30	0.26	100	789
H589719	299	229	0.4	0.69	24	480	< 0.5	< 2	0.65	< 0.5	< 1	176	247	0.59	< 10	< 1	0.22	30	0.24	105	325
H589720	299	229	0.4	0.43	22	860	< 0.5	< 2	0.86	< 0.5	2	78	616	0.59	10	< 1	0.10	40	0.28	95	524
H589721	299	229	0.4	1.22	36	810	< 0.5	< 2	0.90	< 0.5	7	57	833	2.17	10	< 1	0.06	30	0.36	205	964
H589722	299	229	0.8	0.50	32	890	< 0.5	< 2	0.98	< 0.5	2	52	817	0.64	10	< 1	0.10	40	0.30	100	481
H589723	299	229	0.8	0.97	28	300	< 0.5	< 2	1.85	< 0.5	3	114	698	1.42	< 10	< 1	0.20	20	0.42	225	468
H589724	299	229	13.0	0.50	110	100	< 0.5	< 2	2.00	2.0	3	65	1125	2.29	< 10	< 1	0.16	20	0.44	385	500
H589725	299	229	1.4	1.42	18	390	< 0.5	< 2	1.83	< 0.5	9	126	883	2.53	10	< 1	0.34	20	0.75	185	2280
H589726	299	229	0.2	1.49	2	230	< 0.5	< 2	2.01	< 0.5	7	139	745	2.17	10	< 1	0.80	20	1.15	120	409
H589727	299	229	0.6	1.08	6	170	< 0.5	< 2	1.64	< 0.5	4	84	1375	1.22	10	< 1	0.59	20	0.85	90	189
H589728	299	229	0.4	1.31	< 2	200	< 0.5	< 2	1.72	< 0.5	6	130	1595	1.43	10	< 1	0.65	20	0.81	90	162
H589729	299	229	0.2	0.66	< 2	130	< 0.5	< 2	1.76	< 0.5	1	83	492	0.62	< 10	< 1	0.20	20	0.40	70	147
H589730	299	229	0.6	1.20	< 2	190	< 0.5	< 2	2.27	< 0.5	2	162	778	1.18	10	< 1	0.57	20	0.83	105	164
H589731	299	229	0.2	0.82	< 2	180	< 0.5	< 2	1.39	< 0.5	2	63	547	0.78	< 10	< 1	0.44	20	0.69	70	337
H589732	299	229	0.4	2.03	2	520	< 0.5	< 2	2.39	< 0.5	7	99	1045	2.18	10	< 1	1.07	10	1.44	155	93
H589733	299	229	0.4	1.07	< 2	220	< 0.5	< 2	2.02	< 0.5	5	51	679	1.21	< 10	< 1	0.58	10	0.93	90	189
H589734	299	229	0.6	0.90	< 2	180	< 0.5	< 2	2.18	0.5	3	110	667	0.98	< 10	< 1	0.50	10	0.64	90	197
H589735	299	229	0.4	1.16	< 2	280	< 0.5	< 2	1.42	< 0.5	6	67	922	1.84	10	< 1	0.71	10	1.01	105	73
H589736	299	229	0.6	1.64	2	370	< 0.5	< 2	1.53	< 0.5	10	141	1315	3.45	10	< 1	0.92	10	1.38	125	55
H589737	299	229	1.6	1.54	6	320	< 0.5	< 2	1.75	< 0.5	10	104	894	3.25	10	< 1	0.86	10	1.41	140	63
H589738	299	229	0.4	1.80	< 2	340	< 0.5	< 2	1.58	< 0.5	9	159	721	3.35	10	< 1	0.93	10	1.46	120	120
H589739	299	229	0.2	0.89	< 2	180	< 0.5	< 2	2.11	< 0.5	3	74	519	1.17	10	< 1	0.41	20	0.65	65	187

CERTIFICATION:

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H589700	299	229	0.01	3	410	20	10	7	27	< 0.01	< 10	< 10	31	< 10	30
H589701	299	229	< 0.01	7	540	14	26	6	28	< 0.01	< 10	< 10	23	< 10	34
H589702	299	229	0.02	4	490	16	8	7	57	0.01	< 10	< 10	37	< 10	36
H589703	299	229	0.02	4	640	4	4	9	42	0.07	< 10	< 10	62	< 10	22
H589704	299	229	0.01	1	360	10	4	3	26	< 0.01	< 10	< 10	12	< 10	20
H589705	299	229	0.02	5	540	26	8	7	60	0.03	< 10	< 10	44	< 10	40
H589706	299	229	0.03	1	220	42	6	3	221	< 0.01	< 10	< 10	18	< 10	32
H589707	299	229	0.01	2	270	20	8	2	43	< 0.01	< 10	< 10	11	< 10	38
H589708	299	229	0.01	2	550	14	12	6	53	0.02	< 10	< 10	36	< 10	34
H589709	299	229	0.01	3	880	22	8	12	53	0.02	< 10	< 10	60	< 10	32
H589710	299	229	< 0.01	4	670	18	8	9	16	< 0.01	< 10	< 10	33	< 10	28
H589711	299	229	0.01	7	760	10	14	8	17	< 0.01	< 10	< 10	35	< 10	26
H589712	299	229	< 0.01	2	350	18	30	4	21	< 0.01	< 10	< 10	10	< 10	22
H589713	299	229	0.01	6	640	12	8	10	30	< 0.01	< 10	< 10	37	< 10	22
H589714	299	229	< 0.01	< 1	120	14	28	1	22	< 0.01	< 10	< 10	7	< 10	20
H589715	299	229	0.01	2	210	22	16	4	34	< 0.01	< 10	< 10	12	< 10	16
H589716	299	229	< 0.01	3	600	14	54	6	24	< 0.01	< 10	< 10	19	< 10	20
H589717	299	229	0.01	3	440	18	44	6	26	< 0.01	< 10	< 10	20	< 10	18
H589718	299	229	< 0.01	2	790	18	104	6	19	< 0.01	< 10	< 10	24	< 10	24
H589719	299	229	0.01	1	120	18	44	1	19	< 0.01	< 10	< 10	6	< 10	22
H589720	299	229	0.01	2	280	16	60	4	23	< 0.01	< 10	< 10	17	< 10	20
H589721	299	229	< 0.01	7	1160	18	48	13	27	< 0.01	< 10	< 10	42	< 10	24
H589722	299	229	0.01	2	510	16	102	5	29	< 0.01	< 10	< 10	16	< 10	26
H589723	299	229	0.01	2	530	20	34	7	30	< 0.01	< 10	< 10	21	< 10	24
H589724	299	229	0.01	3	650	414	76	5	23	< 0.01	< 10	< 10	17	< 10	102
H589725	299	229	0.02	9	830	18	30	9	138	0.03	< 10	< 10	57	< 10	30
H589726	299	229	0.08	8	600	4	2	9	135	0.11	< 10	< 10	72	< 10	28
H589727	299	229	0.05	3	470	12	2	8	118	0.07	< 10	< 10	64	< 10	20
H589728	299	229	0.09	3	620	12	2	8	193	0.08	< 10	< 10	64	< 10	18
H589729	299	229	0.04	1	190	8	4	3	180	0.01	< 10	< 10	23	< 10	16
H589730	299	229	0.07	4	310	14	2	9	150	0.06	< 10	< 10	59	< 10	26
H589731	299	229	0.06	1	230	6	4	6	83	0.06	< 10	< 10	48	< 10	20
H589732	299	229	0.12	4	740	8	4	13	221	0.18	< 10	< 10	102	< 10	30
H589733	299	229	0.05	3	460	16	6	9	187	0.09	< 10	< 10	63	< 10	24
H589734	299	229	0.06	2	380	22	< 2	7	189	0.06	< 10	< 10	44	< 10	86
H589735	299	229	0.06	4	630	10	4	10	144	0.13	< 10	< 10	69	< 10	34
H589736	299	229	0.08	15	820	12	4	8	357	0.16	< 10	< 10	72	< 10	46
H589737	299	229	0.06	14	750	14	2	8	260	0.14	< 10	< 10	72	< 10	60
H589738	299	229	0.10	15	810	12	4	8	239	0.15	< 10	< 10	73	< 10	40
H589739	299	229	0.06	3	400	12	4	5	201	0.05	< 10	< 10	37	< 10	20

CERTIFICATION: Ian H Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 214
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :6
Certificate Date: 21-OCT-93
Invoice No. :I9322989
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589740	299	229	0.4	0.92	2	140	< 0.5	< 2	2.54	< 0.5	4	79	599	0.77	< 10	< 1	0.36	20	0.69	85	124
H589741	299	229	0.2	1.54	< 2	310	< 0.5	< 2	1.31	< 0.5	11	145	536	3.14	10	< 1	0.82	10	1.62	145	46
H589742	299	229	0.4	1.60	< 2	340	< 0.5	< 2	1.55	< 0.5	7	122	927	3.18	10	< 1	0.88	20	1.50	110	146
H589743	299	229	0.2	2.02	< 2	350	< 0.5	< 2	1.44	< 0.5	8	130	857	3.04	10	< 1	0.87	20	1.40	100	152
H589744	299	229	0.4	1.31	< 2	210	< 0.5	< 2	2.46	< 0.5	6	137	859	1.08	10	< 1	0.55	20	0.83	70	250
H589745	299	229	0.2	1.10	< 2	280	< 0.5	< 2	1.89	< 0.5	3	89	358	0.93	< 10	< 1	0.33	10	0.53	65	162
H589746	299	229	0.2	1.00	< 2	210	< 0.5	< 2	2.40	< 0.5	2	101	490	0.99	< 10	< 1	0.41	20	0.62	70	188
H589747	299	229	0.4	1.65	< 2	220	< 0.5	< 2	2.60	< 0.5	6	82	870	1.82	10	< 1	0.92	30	1.30	105	143
H589748	299	229	0.2	1.22	< 2	210	< 0.5	< 2	2.68	< 0.5	4	111	1000	1.30	< 10	< 1	0.46	30	0.72	100	256
H589749	299	229	0.6	1.12	4	150	< 0.5	< 2	2.39	< 0.5	3	106	1030	1.08	10	< 1	0.55	30	0.76	65	556
H589750	299	229	2.2	1.23	< 2	100	< 0.5	< 2	3.95	2.0	3	119	1300	1.13	10	< 1	0.61	30	0.86	75	365
H589751	299	229	0.6	1.19	2	170	< 0.5	< 2	2.37	< 0.5	4	119	809	1.07	< 10	< 1	0.54	20	0.77	75	317
H589752	299	229	0.4	1.22	< 2	180	< 0.5	< 2	3.72	< 0.5	3	118	917	0.99	10	< 1	0.59	30	0.87	70	181
H589753	299	229	0.6	1.10	< 2	130	< 0.5	< 2	3.57	< 0.5	3	126	729	0.77	< 10	< 1	0.47	20	0.70	65	559
H589754	299	229	0.6	1.28	< 2	180	< 0.5	< 2	2.72	< 0.5	3	139	735	1.00	< 10	< 1	0.56	20	0.87	70	774
H589755	299	229	0.8	1.38	< 2	160	< 0.5	< 2	2.67	< 0.5	6	111	978	1.49	10	< 1	0.68	20	1.01	90	262
H589756	299	229	0.8	1.52	< 2	310	< 0.5	< 2	2.01	< 0.5	4	114	1320	1.29	10	< 1	0.61	30	0.88	80	895
H589757	299	229	0.6	1.35	2	150	< 0.5	< 2	2.76	< 0.5	6	118	1240	1.60	10	< 1	0.70	20	0.97	90	805
H589758	299	229	0.6	1.52	< 2	240	< 0.5	< 2	3.21	< 0.5	6	102	1105	1.37	< 10	< 1	0.71	20	0.95	90	796
H589759	299	229	0.2	0.69	8	220	< 0.5	< 2	2.54	< 0.5	2	92	479	0.60	< 10	< 1	0.29	20	0.33	70	145
H589760	299	229	0.2	0.41	2	250	< 0.5	< 2	3.19	< 0.5	2	103	463	0.46	< 10	< 1	0.17	20	0.22	70	444
H589761	299	229	1.2	1.48	8	230	< 0.5	< 2	2.59	< 0.5	7	84	3240	1.72	10	< 1	0.71	20	1.05	100	500
H589762	299	229	0.4	1.15	< 2	240	< 0.5	< 2	2.69	< 0.5	4	115	988	1.23	< 10	< 1	0.51	20	0.75	85	229
H589763	299	229	0.4	1.27	4	180	< 0.5	< 2	2.82	< 0.5	4	109	1275	1.22	< 10	< 1	0.52	20	0.71	80	585
H589764	299	229	0.6	1.71	4	370	< 0.5	< 2	2.69	< 0.5	6	148	2060	2.02	10	< 1	0.79	20	1.18	110	241
H589765	299	229	0.4	0.98	< 2	150	< 0.5	< 2	2.54	< 0.5	3	144	963	0.84	< 10	< 1	0.48	20	0.60	70	449
H589766	299	229	1.6	1.76	< 2	110	< 0.5	< 2	3.61	< 0.5	10	110	2400	2.63	< 10	< 1	0.90	20	1.24	115	234
H589767	299	229	0.6	1.19	4	200	< 0.5	< 2	2.51	< 0.5	4	109	1670	1.12	< 10	< 1	0.65	20	0.76	75	196
H589768	299	229	0.8	1.04	< 2	190	< 0.5	< 2	1.95	< 0.5	2	115	492	0.67	< 10	< 1	0.46	30	0.54	70	1335
H589769	299	229	1.4	1.42	< 2	210	< 0.5	< 2	2.07	< 0.5	5	103	2460	1.61	10	< 1	0.92	20	1.17	90	1595
H589770	299	229	0.2	1.23	2	180	< 0.5	< 2	2.82	< 0.5	5	125	692	1.47	< 10	< 1	0.73	20	0.91	85	530
H589771	299	229	2.0	1.40	< 2	260	< 0.5	< 2	2.81	< 0.5	4	143	1445	1.50	< 10	< 1	0.49	20	0.57	100	281
H589772	299	229	0.6	1.24	2	220	< 0.5	< 2	2.37	< 0.5	6	127	1090	1.84	< 10	< 1	0.84	20	1.08	105	674
H589773	299	229	0.6	1.25	4	170	< 0.5	< 2	2.52	< 0.5	4	102	943	1.71	< 10	< 1	0.81	20	1.03	115	981
H589774	299	229	0.4	1.25	< 2	240	< 0.5	< 2	2.20	< 0.5	6	161	911	1.76	10	< 1	0.83	20	1.00	100	875
H589775	299	229	0.8	1.09	2	190	< 0.5	< 2	1.69	< 0.5	3	168	1200	1.12	< 10	< 1	0.66	20	0.81	75	961
H589776	299	229	0.6	1.24	2	150	< 0.5	< 2	2.35	< 0.5	6	115	1345	1.41	< 10	< 1	0.73	20	0.97	85	1230
H589777	299	229	1.0	1.16	< 2	180	< 0.5	< 2	2.31	< 0.5	4	169	1685	1.37	< 10	< 1	0.75	20	0.96	90	1105
H589778	299	229	0.6	0.93	< 2	140	< 0.5	< 2	3.05	< 0.5	3	146	654	0.94	< 10	< 1	0.54	20	0.75	75	1085
H589779	299	229	1.6	1.19	< 2	180	< 0.5	< 2	2.15	0.5	8	139	2510	1.79	< 10	< 1	0.74	20	1.06	100	565

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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Y1A 3S9

Project : CASINO 214
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Page Number :5-B
Total Pages :6
Certificate Date: 21-OCT-93
Invoice No. :19322989
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589740	299	229	0.08	17	270	8	< 2	4	163	0.02	< 10	< 10	27	< 10	16
H589741	299	229	0.11	35	750	2	< 2	8	108	0.14	< 10	< 10	69	< 10	26
H589742	299	229	0.08	14	730	8	4	8	149	0.14	< 10	< 10	75	< 10	22
H589743	299	229	0.08	16	840	8	2	9	183	0.14	< 10	< 10	77	< 10	22
H589744	299	229	0.09	6	400	8	4	8	212	0.07	< 10	< 10	52	< 10	16
H589745	299	229	0.12	1	250	6	4	5	165	0.04	< 10	< 10	30	< 10	16
H589746	299	229	0.07	2	370	4	4	7	189	0.05	< 10	< 10	38	< 10	16
H589747	299	229	0.09	4	800	6	4	11	152	0.15	< 10	< 10	88	< 10	22
H589748	299	229	0.08	2	580	6	< 2	6	170	0.06	< 10	< 10	50	< 10	16
H589749	299	229	0.07	2	480	28	4	7	155	0.06	< 10	< 10	51	< 10	106
H589750	299	229	0.06	3	550	38	4	8	225	0.08	< 10	< 10	62	< 10	284
H589751	299	229	0.10	2	480	18	4	7	157	0.06	< 10	< 10	54	< 10	32
H589752	299	229	0.08	3	410	6	2	8	215	0.08	< 10	< 10	63	< 10	18
H589753	299	229	0.09	1	310	8	6	7	213	0.04	< 10	< 10	51	< 10	22
H589754	299	229	0.10	2	370	10	6	10	158	0.08	< 10	< 10	66	< 10	22
H589755	299	229	0.09	3	550	18	4	10	194	0.12	< 10	< 10	83	< 10	44
H589756	299	229	0.06	2	520	12	8	9	156	0.08	< 10	< 10	79	< 10	20
H589757	299	229	0.09	2	540	2	8	9	190	0.12	< 10	< 10	101	< 10	16
H589758	299	229	0.09	3	530	12	8	10	216	0.10	< 10	< 10	92	< 10	18
H589759	299	229	0.04	1	280	12	2	4	228	0.01	< 10	< 10	22	< 10	16
H589760	299	229	0.02	1	350	12	4	2	247	< 0.01	< 10	20	12	< 10	14
H589761	299	229	0.08	6	520	6	4	12	264	0.11	< 10	< 10	83	< 10	14
H589762	299	229	0.06	2	280	14	< 2	9	222	0.07	< 10	< 10	56	< 10	16
H589763	299	229	0.07	3	290	12	6	8	278	0.07	< 10	< 10	59	< 10	16
H589764	299	229	0.06	4	550	6	2	13	248	0.12	< 10	< 10	85	< 10	18
H589765	299	229	0.07	2	320	14	2	7	169	0.05	< 10	< 10	49	< 10	18
H589766	299	229	0.08	5	730	6	2	11	296	0.12	< 10	< 10	90	< 10	32
H589767	299	229	0.07	3	450	4	2	7	205	0.07	< 10	< 10	59	< 10	14
H589768	299	229	0.08	1	290	16	12	6	117	0.03	< 10	< 10	42	< 10	18
H589769	299	229	0.07	3	520	12	12	12	128	0.14	< 10	< 10	93	< 10	16
H589770	299	229	0.07	3	340	2	6	10	176	0.11	< 10	< 10	77	< 10	20
H589771	299	229	0.04	3	420	8	4	8	285	0.05	< 10	< 10	53	< 10	22
H589772	299	229	0.07	4	430	12	6	13	131	0.15	< 10	< 10	89	< 10	20
H589773	299	229	0.09	1	520	4	12	10	132	0.14	< 10	< 10	91	< 10	20
H589774	299	229	0.09	3	450	< 2	10	11	138	0.15	< 10	< 10	88	< 10	18
H589775	299	229	0.10	3	300	14	8	9	91	0.09	< 10	< 10	67	< 10	18
H589776	299	229	0.09	1	340	12	12	11	136	0.12	< 10	< 10	95	< 10	20
H589777	299	229	0.09	2	430	6	8	9	130	0.12	< 10	< 10	83	< 10	24
H589778	299	229	0.06	2	220	16	12	8	173	0.06	< 10	< 10	65	< 10	28
H589779	299	229	0.07	2	470	14	6	12	183	0.12	< 10	< 10	90	< 10	80

CERTIFICATION: Stewart Buchler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 214
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Certificate Date: 21-OCT-93
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CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589780	299	229	1.2	0.90	< 2	140	< 0.5	< 2	2.67	< 0.5	3	81	1700	0.99	< 10	< 1	0.62	20	0.85	70	1885
H589781	299	229	0.8	1.28	< 2	140	< 0.5	< 2	2.70	< 0.5	4	157	2110	1.42	10	< 1	0.80	20	1.05	90	994
H589782	299	229	1.2	1.29	< 2	150	< 0.5	< 2	1.79	< 0.5	9	69	2670	1.71	10	< 1	0.88	20	1.15	95	606
H589783	299	229	0.6	1.35	< 2	210	< 0.5	< 2	2.20	< 0.5	4	224	1550	1.57	10	< 1	0.69	30	0.84	90	535
H589784	299	229	0.6	1.15	< 2	200	< 0.5	< 2	1.67	< 0.5	7	110	2140	1.47	< 10	< 1	0.67	20	0.89	85	615
H589785	299	229	0.4	1.21	< 2	150	< 0.5	< 2	2.03	< 0.5	4	185	942	1.18	10	< 1	0.56	20	0.68	80	458
H589786	299	229	1.8	0.95	< 2	160	< 0.5	< 2	2.39	< 0.5	6	110	1360	1.23	< 10	< 1	0.51	20	0.68	105	1530
H589787	299	229	2.0	1.18	< 2	240	< 0.5	< 2	2.50	< 0.5	6	188	2920	1.52	< 10	< 1	0.54	30	0.74	115	606
H589788	299	229	0.8	0.79	< 2	210	< 0.5	< 2	2.17	< 0.5	4	86	1555	1.04	< 10	< 1	0.43	30	0.77	90	672
H589789	299	229	0.8	1.04	4	180	< 0.5	< 2	2.47	< 0.5	4	180	884	0.97	< 10	< 1	0.42	20	0.50	70	646
H589790	299	229	0.6	1.11	2	210	< 0.5	< 2	1.87	< 0.5	4	70	1630	1.12	10	< 1	0.57	30	0.78	85	754
H589791	299	229	1.4	1.25	< 2	160	< 0.5	< 2	1.84	< 0.5	5	166	1760	1.23	10	< 1	0.60	40	0.78	85	1800
H589792	299	229	0.8	0.76	< 2	160	< 0.5	< 2	2.39	< 0.5	3	94	1160	0.84	10	< 1	0.39	30	0.63	75	1720

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9322989

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589780	299	229	0.04	< 1	190	8	16	8	145	0.09	< 10	< 10	86	< 10	22
H589781	299	229	0.09	3	340	8	10	10	140	0.11	< 10	< 10	99	< 10	26
H589782	299	229	0.05	4	430	6	6	12	95	0.14	< 10	< 10	98	< 10	24
H589783	299	229	0.06	4	340	16	6	11	106	0.09	< 10	< 10	72	< 10	20
H589784	299	229	0.05	3	400	8	4	10	77	0.10	< 10	< 10	79	< 10	16
H589785	299	229	0.07	3	280	4	4	8	156	0.07	< 10	< 10	55	< 10	16
H589786	299	229	0.03	1	360	16	16	8	121	0.07	< 10	< 10	58	< 10	24
H589787	299	229	0.04	4	450	10	4	9	129	0.05	< 10	< 10	52	< 10	24
H589788	299	229	0.03	2	360	8	6	8	86	0.05	< 10	< 10	47	< 10	18
H589789	299	229	0.03	2	320	16	10	6	105	0.03	< 10	< 10	38	< 10	16
H589790	299	229	0.04	3	490	10	12	10	146	0.07	< 10	< 10	62	< 10	16
H589791	299	229	0.06	2	580	6	14	9	70	0.07	< 10	< 10	70	< 10	16
H589792	299	229	0.04	< 1	350	6	12	7	80	0.05	< 10	< 10	52	< 10	14

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Total Pages :4
Certificate Date: 21-OCT-93
Invoice No. :19322990
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Account :FC

CERTIFICATE OF ANALYSIS A9322990

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H587857	208	276	0.03	0.036	0.14	8440
H587858	208	276	0.04	0.053	0.21	8760
H587859	208	274	0.04	0.059	0.14	3740
H587860	208	274	0.04	0.100	0.27	2460
H587861	208	274	0.01	0.222	0.10	4200
H587862	208	274	0.51	0.049	0.34	5760
H587863	208	274	0.36	0.061	0.41	4080
H587864	208	276	0.53	0.076	0.27	8840
H587865	208	276	0.46	0.032	0.45	7940
H587866	208	274	0.26	0.162	0.17	6880
H587867	208	274	0.35	0.214	0.34	7120
H587868	208	274	0.41	0.034	0.41	6740
H587869	208	276	0.27	0.046	0.31	9540
H587870	208	274	0.26	0.015	0.24	6940
H587871	208	276	0.32	0.189	0.24	7740
H587872	208	276	0.33	0.030	0.27	8400
H587873	208	276	0.22	0.030	0.27	10300
H587874	208	276	0.39	0.056	0.48	7880
H587875	208	274	0.07	0.108	0.10	6300
H587876	208	274	0.24	0.047	0.27	7260
H587877	208	276	0.35	0.017	0.24	10000
H587878	208	274	0.31	0.012	0.24	7020
H587879	208	274	0.34	0.026	0.31	7060
H587880	208	274	0.24	0.088	0.27	7060
H587881	208	276	0.23	0.193	0.24	9780
H587882	208	274	0.09	0.159	0.10	5600
H587883	208	273	0.22	0.053	0.10	11920
H587884	208	276	0.24	0.120	0.24	9860
H587885	208	273	0.33	0.061	0.34	11920
H587886	208	273	0.36	0.074	0.14	12340
H587887	208	276	0.10	0.093	0.10	11060
H587888	208	273	0.11	0.116	0.10	12060
H587889	208	273	0.15	0.142	0.21	12240
H587890	208	273	0.23	0.092	0.31	12500
H587891	208	276	0.17	0.252	0.17	9680
H587892	208	276	0.15	0.097	0.10	10700
H587893	208	276	0.23	0.108	0.17	10560
H587894	208	276	0.25	0.040	0.14	9940
H587895	208	276	0.22	0.056	0.27	9960
H587896	208	273	0.48	0.237	0.62	12020

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 215
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. :19322990
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322990

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H587897	208	273	0.12	0.135	0.17	11940						
H587898	208	276	0.19	0.077	0.24	11000						
H587899	208	276	0.47	0.044	0.38	7440						
H587900	208	276	0.22	0.065	0.31	10140						
H587901	208	273	0.22	0.105	0.24	12580						
H587902	208	276	0.13	0.081	0.17	11780						
H587903	208	276	0.22	0.074	0.24	11160						
H587904	208	276	0.19	0.133	0.21	11180						
H587905	208	276	0.20	0.047	0.24	11080						
H587906	208	276	0.17	0.059	0.24	11760						
H587907	208	273	0.21	0.069	0.21	12040						
H587908	208	276	0.18	0.116	0.17	10520						
H587909	208	273	0.13	0.048	0.14	13180						
H587910	208	273	0.33	0.042	0.24	12180						
H587911	208	273	0.23	0.053	0.24	12380						
H587912	208	273	0.20	0.047	0.27	12240						
H587913	208	273	0.25	0.037	0.34	13080						
H587914	208	273	0.20	0.065	0.17	12600						
H587915	208	273	0.16	0.130	0.14	12760						
H587916	208	273	0.20	0.054	0.24	11940						
H587917	208	273	0.29	0.060	0.34	12240						
H587918	208	273	0.23	0.046	0.31	13680						
H587919	208	273	0.21	0.095	0.34	13100						
H587920	208	273	0.17	0.112	0.24	13640						
H587921	208	273	0.13	0.054	0.21	13200						
H587922	208	273	0.11	0.081	0.14	13140						
H587923	208	273	0.12	0.088	0.21	12900						
H587924	208	273	0.15	0.119	0.14	13080						
H587925	208	273	0.18	0.070	0.27	13720						
H587926	208	273	0.21	0.197	0.24	12700						
H587927	208	273	0.12	0.085	0.17	12760						
H587928	208	273	0.19	0.075	0.27	13640						
H587929	208	273	0.23	0.109	0.34	12360						
H587930	208	273	0.16	0.035	0.45	13680						
H587931	208	273	0.04	0.008	0.10	12380						
H587932	208	273	0.05	0.005	0.10	12540						
H587933	208	273	0.15	0.044	0.21	12760						
H587934	208	273	0.18	0.029	0.24	12980						
H587935	208	273	0.11	0.058	0.17	12620						
H587936	208	273	0.12	0.098	0.24	12900						

CERTIFICATION: _____

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H587937	208 273	0.15	0.099	0.27	12960
H587938	208 273	0.22	0.068	0.24	13280
H587939	208 273	0.38	0.169	0.45	13540
H587940	208 273	0.24	0.180	0.27	13300
H587941	208 273	0.26	0.039	0.31	13900
H587942	208 273	0.26	0.087	0.34	13900
H587943	208 273	0.33	0.077	0.31	13180
H587944	208 273	0.23	0.110	0.31	12720
H587945	208 273	0.18	0.080	0.41	13720
H587946	208 273	0.12	0.088	0.17	12580
H587947	208 273	0.14	0.171	0.17	12060
H587948	208 273	0.24	0.078	0.34	12620
H587949	208 273	0.12	0.112	0.17	12980
H587950	208 273	0.21	0.069	0.51	12300
H587951	208 276	0.15	0.075	0.21	11480
H587952	208 276	0.36	0.197	0.51	11640
H587953	208 276	0.19	0.071	0.34	11140
H587954	208 273	0.17	0.098	0.24	13400
H587955	208 276	0.23	0.109	0.31	11750
H587956	208 273	0.12	0.097	0.21	12820
H587957	208 273	0.17	0.134	0.21	11940
H587958	208 273	0.18	0.084	0.24	12740
H587959	208 273	0.15	0.067	0.21	12600
H587960	208 273	0.15	0.179	0.17	13620
H587961	208 273	0.09	0.100	0.10	11840
H587962	208 273	0.12	0.099	0.14	11860
H587963	208 276	0.16	0.137	0.21	10920
H587964	208 273	0.13	0.068	0.21	12660
H587965	208 273	0.15	0.029	0.21	13780
H587966	208 276	0.08	0.114	0.14	11380
H587967	208 276	0.13	0.081	0.17	11560
H587968	208 273	0.11	0.057	0.17	11880
H587969	208 273	0.23	0.063	0.34	12240
H587970	208 273	0.09	0.081	0.14	12240
H587971	208 273	0.10	0.094	0.34	11840
H587972	208 273	0.12	0.055	0.21	13120
H587973	208 273	0.10	0.053	0.21	12220
H587974	208 276	0.12	0.094	0.21	11040
H587975	208 273	0.14	0.064	0.27	11840
H587976	208 273	0.11	0.080	0.21	12780

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CERTIFICATE OF ANALYSIS A9322990

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H587977	208	276	0.08	0.063	0.24	11100
H587978	208	276	0.07	0.036	0.14	10620
H587979	208	276	0.06	0.102	0.10	10940
H587980	208	273	0.09	0.135	0.17	12880
H587981	208	273	0.05	0.135	0.10	12360
H587982	208	273	0.13	0.107	0.17	13140
H587983	208	273	0.06	0.099	0.10	12520
H587984	208	273	0.07	0.088	0.10	12220
H587985	208	273	0.07	0.042	0.10	12180
H587986	208	273	0.08	0.060	0.10	11980
H587987	208	276	0.08	0.030	0.10	11520
H587988	208	273	0.04	0.040	0.07	12300
H587989	208	276	0.10	0.098	0.17	11680
H587990	208	273	0.06	0.209	0.10	12440
H587991	208	273	0.08	0.116	0.07	12680
H587992	208	273	0.07	0.058	0.07	12760
H587993	208	273	0.05	0.036	0.07	11840
H587994	208	276	0.06	0.029	0.07	11740
H587995	208	276	0.03	0.034	0.03	11600
H587996	208	276	0.07	0.065	0.07	11440
H587997	208	273	0.10	0.023	0.10	12640
H587998	208	273	0.07	0.035	0.10	13380
H587999	208	273	0.10	0.018	0.10	13500
H588000	208	276	0.10	0.007	0.07	11400
H588001	208	273	0.09	0.008	0.14	11920
H588002	208	276	0.07	0.060	0.10	11680

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CERTIFICATE OF ANALYSIS A9322991

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H587857	299	229	0.4	0.82	2	160	< 0.5	< 2	0.05	< 0.5	< 1	108	310	1.52	10	< 1	0.42	60	0.16	20	234
H587858	299	229	1.6	1.19	2	240	< 0.5	< 2	0.08	< 0.5	4	135	360	2.71	10	< 1	0.67	50	0.34	35	349
H587859	299	229	1.4	1.67	4	270	< 0.5	< 2	0.08	< 0.5	4	40	394	3.08	10	< 1	1.01	30	0.92	45	370
H587860	299	229	1.8	1.63	6	380	< 0.5	< 2	0.10	< 0.5	5	67	408	3.30	10	< 1	0.64	30	0.59	50	609
H587861	299	229	1.6	0.62	24	110	< 0.5	< 2	0.03	< 0.5	1	77	122	1.31	10	< 1	0.32	60	0.09	15	1395
H587862	299	229	1.6	2.88	2	240	< 0.5	< 2	0.18	< 0.5	20	92	4870	3.82	10	< 1	0.88	30	1.55	100	298
H587863	299	229	2.2	2.35	6	170	0.5	< 2	0.15	< 0.5	13	67	3610	2.27	10	< 1	0.70	40	0.86	70	408
H587864	299	229	1.4	3.73	< 2	270	0.5	< 2	0.56	0.5	27	101	5000	3.57	10	< 1	1.43	30	2.10	245	442
H587865	299	229	1.4	3.11	4	170	1.0	< 2	0.89	0.5	48	53	4510	4.61	10	< 1	1.06	40	1.78	405	191
H587866	299	229	1.2	2.44	12	220	0.5	< 2	1.18	< 0.5	16	92	2480	1.94	10	< 1	0.74	40	1.28	225	970
H587867	299	229	3.2	0.81	24	50	< 0.5	< 2	1.10	< 0.5	41	78	3630	5.09	< 10	< 1	0.40	30	0.61	225	1250
H587868	299	229	1.6	3.66	14	180	1.0	< 2	1.40	0.5	31	255	3840	4.61	10	< 1	1.67	30	2.70	230	179
H587869	299	229	1.6	3.46	< 2	460	0.5	< 2	2.28	< 0.5	25	31	2580	4.60	10	< 1	0.88	20	2.28	320	267
H587870	299	229	1.4	4.14	4	90	0.5	< 2	1.95	< 0.5	26	54	2750	4.99	10	< 1	1.03	10	2.40	225	87
H587871	299	229	2.0	1.52	< 2	120	0.5	< 2	1.26	0.5	14	48	3100	3.27	10	< 1	0.63	30	0.99	150	1015
H587872	299	229	1.4	2.85	4	390	1.0	< 2	1.46	< 0.5	16	68	3080	3.00	10	< 1	0.99	30	1.83	190	167
H587873	299	229	1.4	1.69	4	280	0.5	< 2	2.15	0.5	12	35	2070	2.15	10	< 1	0.68	40	1.34	240	174
H587874	299	229	2.0	1.95	< 2	230	0.5	< 2	0.92	0.5	14	85	3810	2.28	10	< 1	0.44	30	0.62	165	350
H587875	299	229	0.4	0.31	10	40	< 0.5	< 2	0.22	< 0.5	4	100	770	0.97	< 10	< 1	0.14	40	0.10	40	744
H587876	299	229	1.2	1.29	12	150	0.5	< 2	0.67	< 0.5	16	119	2270	1.71	< 10	< 1	0.40	20	0.58	120	286
H587877	299	229	1.8	0.51	306	100	< 0.5	< 2	0.66	0.5	18	90	3570	2.45	< 10	< 1	0.24	20	0.36	205	101
H587878	299	229	3.0	0.94	462	160	0.5	< 2	0.53	1.5	19	134	3240	1.85	< 10	< 1	0.49	20	0.27	725	70
H587879	299	229	1.6	1.13	116	110	< 0.5	< 2	1.36	0.5	22	99	3390	2.61	< 10	< 1	0.58	10	0.94	510	152
H587880	299	229	1.6	0.33	108	40	< 0.5	< 2	1.49	< 0.5	9	73	2370	1.43	< 10	< 1	0.13	20	0.69	860	552
H587881	299	229	1.4	0.99	48	70	< 0.5	< 2	1.80	< 0.5	10	154	2150	1.43	< 10	< 1	0.32	30	0.56	625	1100
H587882	299	229	0.8	0.36	86	40	< 0.5	< 2	1.40	< 0.5	8	94	883	1.28	< 10	< 1	0.17	20	0.56	710	995
H587883	299	229	43.6	0.99	320	80	< 0.5	< 2	1.29	42.5	18	114	2260	2.99	< 10	< 1	0.52	10	0.38	1135	317
H587884	299	229	3.4	0.88	164	80	< 0.5	< 2	2.31	< 0.5	11	43	2290	1.76	< 10	< 1	0.46	10	1.02	2250	730
H587885	299	229	2.2	1.85	48	140	0.5	< 2	2.99	< 0.5	13	62	3190	2.43	< 10	< 1	0.62	10	1.34	1135	361
H587886	299	229	1.2	0.57	56	40	< 0.5	< 2	1.83	< 0.5	19	51	3690	3.83	< 10	< 1	0.35	10	0.91	500	433
H587887	299	229	0.8	1.23	16	130	0.5	< 2	1.78	0.5	7	124	985	1.93	< 10	< 1	0.52	20	0.88	515	557
H587888	299	229	9.0	0.35	82	40	< 0.5	< 2	1.89	0.5	5	55	1090	1.58	< 10	< 1	0.21	20	0.58	875	723
H587889	299	229	3.0	1.04	58	190	< 0.5	< 2	2.37	< 0.5	11	46	1445	1.71	< 10	< 1	0.58	30	1.24	1005	895
H587890	299	229	7.2	1.05	84	100	< 0.5	< 2	2.64	0.5	10	89	2210	2.50	< 10	< 1	0.50	30	1.08	1645	554
H587891	299	229	15.8	0.37	208	50	< 0.5	< 2	2.94	29.0	9	42	1645	1.99	< 10	< 1	0.17	50	0.97	2440	1450
H587892	299	229	7.0	0.21	312	20	< 0.5	< 2	2.10	40.0	7	36	1475	3.98	< 10	< 1	0.14	10	0.59	1155	517
H587893	299	229	7.0	0.47	280	70	0.5	< 2	3.73	33.0	8	46	2300	3.71	< 10	< 1	0.19	20	1.24	1600	602
H587894	299	229	27.2	0.25	574	60	< 0.5	< 2	2.28	>100.0	7	52	2610	2.42	< 10	< 1	0.18	10	0.62	2070	235
H587895	299	229	2.4	0.88	56	220	0.5	< 2	2.68	3.0	10	53	2290	2.26	< 10	< 1	0.39	40	0.75	730	359
H587896	299	229	2.0	2.61	< 2	360	1.0	< 2	2.91	< 0.5	16	86	4700	2.54	10	< 1	0.91	20	1.23	225	1310

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H587857	299	229	0.01	3	370	6	4	3	16	< 0.01	< 10	< 10	17	< 10	20
H587858	299	229	0.01	7	790	8	4	8	22	0.01	< 10	< 10	41	< 10	34
H587859	299	229	0.01	7	1160	4	4	13	17	0.08	< 10	< 10	97	< 10	34
H587860	299	229	0.01	7	1850	16	6	11	21	0.02	< 10	< 10	60	< 10	52
H587861	299	229	0.01	< 1	590	8	16	6	13	< 0.01	< 10	< 10	20	< 10	8
H587862	299	229	0.03	8	900	4	< 2	13	55	0.08	< 10	< 10	113	< 10	36
H587863	299	229	0.01	6	1090	10	10	12	10	0.03	< 10	< 10	76	< 10	30
H587864	299	229	0.02	14	1210	16	6	22	11	0.14	< 10	< 10	155	< 10	88
H587865	299	229	0.02	18	1470	6	2	16	12	0.08	< 10	< 10	120	< 10	122
H587866	299	229	0.01	8	950	14	14	10	18	0.03	< 10	< 10	69	< 10	80
H587867	299	229	0.01	13	820	< 2	14	8	14	0.01	< 10	< 10	42	< 10	54
H587868	299	229	0.02	28	2480	12	4	26	17	0.17	< 10	< 10	175	10	78
H587869	299	229	0.02	11	1190	4	4	13	25	0.09	< 10	< 10	126	10	84
H587870	299	229	0.07	10	1210	4	< 2	13	38	0.10	< 10	< 10	123	10	66
H587871	299	229	0.01	8	970	14	12	11	15	0.03	< 10	< 10	63	< 10	62
H587872	299	229	0.06	10	940	6	2	15	40	0.11	< 10	< 10	127	< 10	64
H587873	299	229	0.01	8	1410	6	6	11	29	0.05	< 10	< 10	71	< 10	62
H587874	299	229	0.01	10	800	16	2	7	26	< 0.01	< 10	10	50	< 10	50
H587875	299	229	0.01	1	260	6	8	< 1	10	< 0.01	< 10	< 10	6	< 10	10
H587876	299	229	0.02	7	450	6	4	3	17	< 0.01	< 10	< 10	28	< 10	30
H587877	299	229	0.01	6	330	32	30	1	18	< 0.01	< 10	< 10	11	< 10	48
H587878	299	229	0.01	4	290	26	160	1	24	< 0.01	< 10	< 10	9	< 10	124
H587879	299	229	0.01	10	720	6	22	7	19	0.02	< 10	< 10	49	< 10	50
H587880	299	229	0.01	3	450	4	36	2	16	< 0.01	< 10	< 10	12	< 10	34
H587881	299	229	0.01	3	440	6	22	3	21	< 0.01	< 10	< 10	18	< 10	20
H587882	299	229	0.01	3	280	4	26	1	20	< 0.01	< 10	< 10	12	< 10	18
H587883	299	229	0.01	8	440	1910	404	2	27	< 0.01	< 10	10	15	10	2670
H587884	299	229	0.01	6	1090	86	74	7	26	< 0.01	< 10	10	38	< 10	80
H587885	299	229	0.01	7	1210	24	26	13	40	0.02	< 10	< 10	82	< 10	34
H587886	299	229	0.01	8	750	10	24	4	30	< 0.01	< 10	< 10	23	< 10	8
H587887	299	229	0.01	7	540	10	20	6	30	0.01	< 10	< 10	32	< 10	60
H587888	299	229	< 0.01	5	510	48	64	3	23	< 0.01	< 10	< 10	16	< 10	54
H587889	299	229	0.01	3	980	18	30	9	28	0.03	< 10	< 10	59	< 10	30
H587890	299	229	0.01	6	1320	186	74	6	33	< 0.01	< 10	10	33	< 10	66
H587891	299	229	0.01	1	940	2560	558	6	31	< 0.01	< 10	< 10	28	10	1465
H587892	299	229	0.01	4	500	958	184	1	21	< 0.01	< 10	< 10	7	10	2510
H587893	299	229	0.01	5	910	1490	124	8	36	< 0.01	< 10	< 10	35	10	1950
H587894	299	229	0.01	7	400	8200	1330	2	22	< 0.01	< 10	< 10	9	20	8580
H587895	299	229	0.02	7	1060	172	52	5	51	0.02	< 10	< 10	33	< 10	200
H587896	299	229	0.03	3	1140	24	20	11	77	0.08	< 10	< 10	100	< 10	22

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 215
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :4
Certificate Date: 21-OCT-93
Invoice No. :I9322991
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322991

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H587897	299	229	0.4	1.53	4	180	0.5	< 2	2.72	< 0.5	9	164	1140	1.32	10	< 1	0.72	60	0.53	165	734
H587898	299	229	0.8	1.21	6	130	0.5	< 2	2.49	< 0.5	8	129	1995	1.90	< 10	< 1	0.65	30	0.54	155	452
H587899	299	229	1.6	2.02	6	220	0.5	< 2	3.08	< 0.5	10	123	4830	2.40	< 10	< 1	1.00	30	1.31	225	245
H587900	299	229	0.6	2.21	< 2	300	0.5	< 2	2.28	< 0.5	7	113	2130	1.79	10	< 1	1.03	60	1.32	160	350
H587901	299	229	0.8	2.05	6	170	0.5	< 2	2.27	< 0.5	9	153	2080	2.63	< 10	< 1	0.99	40	1.20	150	535
H587902	299	229	0.4	2.23	< 2	250	0.5	< 2	2.44	< 0.5	6	105	1385	1.73	< 10	< 1	1.00	30	1.38	125	468
H587903	299	229	0.6	2.15	< 2	190	0.5	< 2	1.63	< 0.5	7	98	2220	1.81	< 10	< 1	0.99	40	1.43	100	401
H587904	299	229	0.6	2.24	4	220	0.5	< 2	2.34	< 0.5	6	116	1825	1.77	10	< 1	1.00	40	1.43	125	692
H587905	299	229	0.6	2.33	12	230	0.5	< 2	2.01	< 0.5	6	72	1940	1.80	< 10	< 1	1.13	40	1.44	125	248
H587906	299	229	0.6	2.17	4	220	0.5	< 2	2.17	< 0.5	6	62	1630	1.72	10	< 1	1.10	40	1.41	125	311
H587907	299	229	0.4	1.20	2	140	0.5	< 2	1.93	< 0.5	20	103	2150	1.53	< 10	< 1	0.59	20	0.70	90	356
H587908	299	229	0.6	1.06	2	80	0.5	< 2	2.23	< 0.5	8	94	1870	2.48	< 10	< 1	0.59	20	0.83	125	628
H587909	299	229	0.4	1.15	4	70	0.5	< 2	1.78	< 0.5	6	197	1405	2.61	< 10	< 1	0.53	30	0.62	100	273
H587910	299	229	0.8	1.73	< 2	250	0.5	< 2	2.79	< 0.5	9	109	3400	1.92	< 10	< 1	0.72	30	1.03	230	223
H587911	299	229	0.6	1.44	2	240	0.5	< 2	1.98	< 0.5	6	156	2470	1.67	10	< 1	0.73	40	1.01	105	312
H587912	299	229	0.6	1.05	4	130	< 0.5	< 2	1.92	< 0.5	8	187	2080	1.99	< 10	< 1	0.51	20	0.57	80	259
H587913	299	229	0.8	1.39	2	170	< 0.5	< 2	1.98	< 0.5	9	81	2440	2.26	< 10	< 1	0.54	20	1.07	110	202
H587914	299	229	0.4	0.97	< 2	230	< 0.5	< 2	2.21	< 0.5	4	120	2020	1.00	< 10	< 1	0.47	30	0.65	75	344
H587915	299	229	0.4	1.55	2	170	0.5	< 2	2.02	< 0.5	9	104	1580	1.95	< 10	< 1	0.75	30	0.98	90	689
H587916	299	229	0.6	1.79	2	270	0.5	< 2	2.22	< 0.5	7	93	2000	1.86	< 10	< 1	0.79	30	1.05	90	283
H587917	299	229	1.4	1.78	< 2	150	< 0.5	< 2	2.55	< 0.5	8	103	2780	1.76	10	< 1	0.89	20	1.39	95	335
H587918	299	229	0.8	2.20	< 2	180	< 0.5	< 2	2.97	< 0.5	10	125	2210	2.35	< 10	< 1	0.93	20	1.49	105	263
H587919	299	229	0.8	1.20	4	130	< 0.5	< 2	3.82	< 0.5	7	100	1975	1.42	< 10	< 1	0.63	20	1.08	75	508
H587920	299	229	1.0	1.25	< 2	130	< 0.5	< 2	3.29	< 0.5	7	106	1615	1.72	< 10	< 1	0.58	20	1.11	95	624
H587921	299	229	0.6	1.41	6	150	< 0.5	< 2	3.43	< 0.5	5	94	1290	1.60	< 10	< 1	0.63	30	1.21	105	317
H587922	299	229	0.8	1.21	4	150	< 0.5	< 2	3.97	< 0.5	6	93	1105	1.31	< 10	< 1	0.62	30	1.04	105	477
H587923	299	229	0.4	1.44	< 2	180	< 0.5	< 2	3.00	< 0.5	6	116	1110	1.27	< 10	< 1	0.71	30	1.02	85	480
H587924	299	229	0.8	1.32	< 2	210	< 0.5	< 2	2.84	< 0.5	4	106	1415	1.26	< 10	< 1	0.68	30	1.00	105	694
H587925	299	229	0.8	1.43	< 2	200	< 0.5	< 2	2.59	< 0.5	6	116	1665	1.43	< 10	< 1	0.64	30	1.05	125	383
H587926	299	229	1.0	2.68	12	150	0.5	< 2	2.75	< 0.5	13	76	1905	2.96	< 10	< 1	1.45	10	2.24	170	1020
H587927	299	229	0.4	2.17	< 2	240	< 0.5	< 2	2.29	< 0.5	10	145	1055	2.60	< 10	< 1	1.21	10	1.68	130	451
H587928	299	229	1.0	1.08	< 2	180	< 0.5	< 2	2.87	< 0.5	7	122	1810	1.29	< 10	< 1	0.47	30	0.84	80	444
H587929	299	229	1.2	1.27	< 2	170	< 0.5	< 2	2.36	< 0.5	7	97	2140	1.60	< 10	< 1	0.51	20	1.04	95	609
H587930	299	229	0.6	1.48	10	150	< 0.5	< 2	3.46	< 0.5	8	116	1575	2.11	< 10	< 1	0.77	20	1.32	135	194
H587931	299	229	0.4	1.57	< 2	330	< 0.5	< 2	1.32	< 0.5	10	118	381	2.95	< 10	< 1	0.67	10	1.41	195	40
H587932	299	229	0.6	1.58	4	170	< 0.5	< 2	1.71	< 0.5	10	99	516	3.47	< 10	< 1	0.37	10	1.41	225	30
H587933	299	229	0.8	1.58	< 2	210	< 0.5	< 2	2.27	< 0.5	9	89	1420	2.86	< 10	< 1	0.73	20	1.35	135	246
H587934	299	229	0.6	1.77	< 2	290	< 0.5	< 2	2.09	< 0.5	9	61	1645	2.53	< 10	< 1	1.07	10	1.53	125	159
H587935	299	229	0.6	1.67	< 2	160	< 0.5	< 2	3.53	< 0.5	7	78	1010	2.22	< 10	< 1	0.94	20	1.42	110	324
H587936	299	229	0.6	0.97	< 2	180	< 0.5	< 2	2.38	< 0.5	5	113	1185	1.37	< 10	< 1	0.53	30	0.87	80	578

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9322991

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H587897	299	229	0.02	6	740	2	4	6	43	0.02	< 10	< 10	36	< 10	18
H587898	299	229	0.02	7	840	2	4	6	41	0.02	< 10	< 10	37	< 10	20
H587899	299	229	0.02	16	720	2	2	11	60	0.08	< 10	< 10	79	< 10	28
H587900	299	229	0.03	11	760	< 2	4	11	91	0.10	< 10	< 10	81	< 10	24
H587901	299	229	0.03	10	620	2	2	11	74	0.08	< 10	< 10	90	< 10	22
H587902	299	229	0.05	10	1150	< 2	2	10	63	0.09	< 10	< 10	73	< 10	20
H587903	299	229	0.05	10	910	< 2	4	12	80	0.10	< 10	< 10	91	< 10	20
H587904	299	229	0.04	9	760	< 2	4	12	84	0.08	< 10	< 10	81	< 10	18
H587905	299	229	0.06	8	1090	2	4	13	72	0.11	< 10	< 10	109	< 10	20
H587906	299	229	0.04	7	1140	< 2	4	13	73	0.11	< 10	< 10	102	< 10	18
H587907	299	229	0.02	7	800	2	2	5	48	0.01	< 10	< 10	30	< 10	20
H587908	299	229	0.03	6	790	2	2	6	71	0.02	< 10	< 10	33	< 10	22
H587909	299	229	0.06	5	550	2	2	4	118	0.01	< 10	< 10	26	< 10	20
H587910	299	229	0.04	6	650	4	< 2	9	168	0.05	< 10	< 10	58	< 10	24
H587911	299	229	0.07	7	750	< 2	2	10	170	0.06	< 10	< 10	55	< 10	20
H587912	299	229	0.06	4	400	4	2	4	187	< 0.01	< 10	< 10	26	10	18
H587913	299	229	0.07	4	760	< 2	2	8	165	0.04	< 10	< 10	57	< 10	22
H587914	299	229	0.05	4	430	2	2	5	73	0.01	< 10	< 10	26	< 10	14
H587915	299	229	0.06	6	780	< 2	4	9	85	0.06	< 10	< 10	56	< 10	16
H587916	299	229	0.08	6	660	2	2	9	137	0.08	< 10	< 10	73	< 10	18
H587917	299	229	0.04	7	770	6	4	11	99	0.11	< 10	< 10	93	< 10	10
H587918	299	229	0.15	6	990	8	4	12	149	0.15	< 10	< 10	111	< 10	12
H587919	299	229	0.04	4	640	2	4	8	226	0.07	< 10	< 10	71	< 10	6
H587920	299	229	0.05	6	680	8	6	9	197	0.07	< 10	< 10	73	< 10	12
H587921	299	229	0.06	6	870	4	4	9	243	0.07	< 10	< 10	76	< 10	12
H587922	299	229	0.05	3	570	8	8	8	221	0.06	< 10	< 10	64	< 10	26
H587923	299	229	0.06	3	540	2	4	9	175	0.07	< 10	< 10	67	< 10	8
H587924	299	229	0.06	4	770	4	8	8	174	0.07	< 10	< 10	68	< 10	10
H587925	299	229	0.08	4	850	< 2	4	8	134	0.07	< 10	< 10	73	< 10	10
H587926	299	229	0.14	6	870	< 2	12	16	137	0.23	< 10	< 10	149	10	24
H587927	299	229	0.14	2	860	8	2	16	116	0.24	< 10	< 10	143	< 10	20
H587928	299	229	0.06	4	620	2	6	7	191	0.05	< 10	< 10	51	< 10	8
H587929	299	229	0.06	4	490	4	4	8	138	0.06	< 10	< 10	68	< 10	8
H587930	299	229	0.07	8	770	8	4	10	186	0.14	< 10	10	82	< 10	14
H587931	299	229	0.08	15	820	< 2	< 2	6	118	0.14	< 10	< 10	66	< 10	24
H587932	299	229	0.05	19	800	22	2	4	124	0.04	< 10	< 10	54	10	34
H587933	299	229	0.06	9	830	2	4	8	147	0.11	< 10	< 10	77	< 10	14
H587934	299	229	0.08	4	1320	< 2	2	12	122	0.18	< 10	< 10	99	< 10	16
H587935	299	229	0.08	5	720	6	4	12	188	0.15	< 10	< 10	110	< 10	14
H587936	299	229	0.06	4	420	8	6	7	149	0.07	< 10	< 10	56	< 10	12

CERTIFICATION: _____

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9322991

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#587937	299	229	0.6	1.33	< 2	190	< 0.5	< 2	2.60	< 0.5	5	166	1490	1.56	< 10	< 1	0.74	30	1.05	85	568
#587938	299	229	1.2	1.20	2	150	< 0.5	< 2	2.46	< 0.5	8	68	2140	1.71	< 10	< 1	0.62	20	1.03	105	402
#587939	299	229	1.6	1.71	< 2	190	< 0.5	< 2	2.84	< 0.5	8	89	3610	2.19	10	< 1	1.07	30	1.61	125	956
#587940	299	229	1.0	0.88	2	150	< 0.5	< 2	2.56	< 0.5	5	90	2150	1.19	< 10	< 1	0.51	30	0.71	70	995
#587941	299	229	1.0	1.40	8	180	< 0.5	< 2	2.49	< 0.5	8	109	2500	2.26	< 10	< 1	0.69	20	0.98	125	226
#587942	299	229	1.0	1.55	< 2	150	< 0.5	< 2	3.96	< 0.5	7	91	2450	1.91	< 10	< 1	1.05	20	1.34	100	496
#587943	299	229	1.4	1.32	< 2	160	< 0.5	< 2	2.09	< 0.5	8	74	3230	2.41	< 10	< 1	0.80	10	1.02	105	452
#587944	299	229	1.2	1.31	< 2	120	< 0.5	< 2	3.71	< 0.5	6	150	2170	1.50	< 10	< 1	0.78	20	1.11	80	614
#587945	299	229	1.0	1.11	2	110	< 0.5	< 2	2.85	< 0.5	7	115	1675	2.10	< 10	< 1	0.61	30	0.95	90	437
#587946	299	229	0.6	0.58	4	130	< 0.5	< 2	2.36	< 0.5	3	149	1155	0.90	< 10	< 1	0.36	40	0.56	65	508
#587947	299	229	1.4	1.13	14	170	< 0.5	< 2	3.16	< 0.5	6	127	1450	1.35	< 10	< 1	0.45	40	0.86	230	1035
#587948	299	229	0.8	1.41	< 2	160	< 0.5	< 2	2.28	< 0.5	9	220	2230	2.11	< 10	< 1	0.86	30	1.23	95	430
#587949	299	229	0.8	1.57	2	370	< 0.5	< 2	2.34	< 0.5	7	105	1130	2.12	10	< 1	0.70	60	1.13	125	648
#587950	299	229	1.0	1.98	< 2	300	0.5	< 2	2.59	< 0.5	8	91	1990	2.32	10	< 1	0.82	40	1.29	205	401
#587951	299	229	3.8	0.83	20	280	< 0.5	< 2	1.45	1.5	3	141	1450	1.19	< 10	< 1	0.27	30	0.53	265	451
#587952	299	229	1.8	1.17	16	320	< 0.5	< 2	1.60	< 0.5	6	180	3360	1.83	10	< 1	0.21	90	0.56	240	1155
#587953	299	229	2.4	1.62	28	90	0.5	< 2	1.81	< 0.5	8	107	2050	3.63	< 10	< 1	0.19	40	0.63	185	441
#587954	299	229	1.0	1.20	14	170	< 0.5	< 2	1.82	< 0.5	8	109	1610	2.35	< 10	< 1	0.30	40	0.82	155	564
#587955	299	229	1.4	1.16	< 2	260	< 0.5	< 2	1.38	< 0.5	5	120	2260	1.29	10	< 1	0.36	40	0.61	80	658
#587956	299	229	0.6	0.80	4	70	< 0.5	< 2	1.47	< 0.5	4	108	1120	1.15	< 10	< 1	0.18	40	0.59	80	573
#587957	299	229	1.0	0.72	42	220	< 0.5	< 2	1.36	< 0.5	9	61	1730	2.04	10	< 1	0.09	80	0.48	145	882
#587958	299	229	0.8	1.10	16	30	< 0.5	< 2	2.23	< 0.5	6	36	1710	1.69	< 10	< 1	0.12	40	0.74	130	469
#587959	299	229	1.6	1.06	18	90	< 0.5	< 2	2.25	< 0.5	8	39	1500	3.00	< 10	< 1	0.31	20	0.83	220	391
#587960	299	229	1.0	1.54	18	490	0.5	< 2	1.58	< 0.5	8	42	1465	2.30	10	< 1	0.10	50	0.52	155	1045
#587961	299	229	0.6	0.86	8	180	< 0.5	< 2	1.71	< 0.5	3	61	885	1.10	< 10	< 1	0.29	40	0.51	150	611
#587962	299	229	1.0	1.05	16	500	< 0.5	< 2	1.25	< 0.5	5	83	1220	1.19	< 10	< 1	0.16	40	0.41	125	598
#587963	299	229	1.0	1.48	14	820	0.5	< 2	1.16	< 0.5	7	72	1560	1.54	10	< 1	0.15	40	0.38	120	818
#587964	299	229	0.8	1.91	8	400	0.5	< 2	1.86	< 0.5	5	96	1345	1.63	10	< 1	0.51	60	0.90	150	410
#587965	299	229	0.4	2.19	10	300	0.5	< 2	1.31	< 0.5	9	86	1445	2.03	10	< 1	1.02	30	1.17	110	166
#587966	299	229	0.6	1.20	12	90	< 0.5	< 2	2.43	< 0.5	2	106	891	1.00	10	< 1	0.24	70	0.54	150	733
#587967	299	229	0.8	1.10	< 2	90	< 0.5	< 2	1.82	< 0.5	3	119	1295	0.96	< 10	< 1	0.35	40	0.42	100	468
#587968	299	229	0.6	1.38	2	360	< 0.5	< 2	1.41	< 0.5	4	86	1080	0.99	< 10	< 1	0.52	30	0.67	75	333
#587969	299	229	0.8	1.72	< 2	250	< 0.5	< 2	1.57	< 0.5	8	80	2140	1.94	10	< 1	0.92	30	1.21	110	350
#587970	299	229	0.6	1.06	< 2	190	< 0.5	< 2	2.43	< 0.5	4	130	875	1.12	< 10	< 1	0.56	30	0.74	85	440
#587971	299	229	0.6	1.22	2	160	< 0.5	< 2	2.56	< 0.5	3	125	961	1.20	10	< 1	0.66	40	0.84	85	530
#587972	299	229	0.4	1.96	< 2	270	< 0.5	< 2	2.73	< 0.5	7	118	1135	2.16	10	< 1	1.07	30	1.33	110	317
#587973	299	229	0.4	2.67	4	300	< 0.5	< 2	2.85	< 0.5	12	71	943	3.53	10	< 1	1.46	20	1.98	165	278
#587974	299	229	0.6	1.77	< 2	230	< 0.5	< 2	2.90	< 0.5	8	122	1085	2.26	< 10	< 1	1.09	20	1.39	120	508
#587975	299	229	0.4	1.83	< 2	300	< 0.5	< 2	2.55	< 0.5	7	94	1310	2.26	10	< 1	1.09	30	1.37	120	350
#587976	299	229	0.4	2.06	6	820	< 0.5	< 2	2.22	< 0.5	7	83	1055	1.65	10	< 1	0.77	30	1.10	135	463

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 215
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. :I9322991
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322991

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H587937	299	229	0.07	5	470	2	4	9	172	0.09	< 10	< 10	78	< 10	12
H587938	299	229	0.04	5	540	8	4	9	141	0.09	< 10	< 10	76	< 10	12
H587939	299	229	0.07	8	980	6	12	13	140	0.18	< 10	< 10	115	< 10	12
H587940	299	229	0.04	3	410	4	8	6	137	0.07	< 10	< 10	52	< 10	6
H587941	299	229	0.05	6	760	2	4	9	221	0.09	< 10	< 10	72	< 10	12
H587942	299	229	0.08	6	710	2	6	13	211	0.18	< 10	< 10	111	< 10	14
H587943	299	229	0.06	3	770	10	6	10	98	0.16	< 10	< 10	94	< 10	14
H587944	299	229	0.06	4	600	10	6	9	231	0.12	< 10	< 10	79	< 10	8
H587945	299	229	0.05	4	730	8	6	7	159	0.08	< 10	< 10	68	< 10	10
H587946	299	229	0.04	4	260	2	8	4	173	0.03	< 10	< 10	35	< 10	12
H587947	299	229	0.02	6	520	6	14	7	119	0.04	< 10	< 10	50	< 10	16
H587948	299	229	0.08	15	450	2	4	9	155	0.13	< 10	< 10	75	< 10	12
H587949	299	229	0.06	6	640	8	6	10	107	0.11	< 10	< 10	84	< 10	14
H587950	299	229	0.02	8	890	< 2	6	12	104	0.11	< 10	< 10	87	< 10	12
H587951	299	229	0.01	2	310	78	50	4	28	< 0.01	< 10	< 10	23	< 10	78
H587952	299	229	0.01	6	430	14	46	7	22	< 0.01	< 10	< 10	39	< 10	18
H587953	299	229	0.01	6	930	20	46	12	22	< 0.01	< 10	< 10	61	< 10	22
H587954	299	229	0.01	6	550	6	22	10	25	0.02	< 10	< 10	50	< 10	12
H587955	299	229	0.02	2	450	4	10	6	44	0.02	< 10	< 10	43	< 10	6
H587956	299	229	0.01	3	420	8	8	8	21	0.01	< 10	< 10	45	< 10	14
H587957	299	229	< 0.01	4	910	12	46	12	22	< 0.01	< 10	< 10	54	< 10	24
H587958	299	229	0.01	4	810	10	16	12	25	< 0.01	< 10	< 10	71	< 10	16
H587959	299	229	0.01	4	700	26	22	8	24	< 0.01	< 10	< 10	39	< 10	30
H587960	299	229	0.01	6	930	8	12	15	25	< 0.01	< 10	< 10	71	< 10	26
H587961	299	229	0.01	1	770	4	26	5	18	< 0.01	< 10	< 10	26	< 10	16
H587962	299	229	0.01	4	380	12	22	8	19	< 0.01	< 10	< 10	32	< 10	20
H587963	299	229	0.01	6	620	14	14	9	23	< 0.01	< 10	< 10	42	< 10	16
H587964	299	229	0.01	4	600	8	8	11	34	0.05	< 10	< 10	70	< 10	24
H587965	299	229	0.07	2	760	4	4	13	56	0.16	< 10	< 10	103	< 10	18
H587966	299	229	0.01	3	480	10	8	8	24	< 0.01	< 10	< 10	53	< 10	22
H587967	299	229	0.01	2	350	2	10	7	27	0.02	< 10	< 10	36	< 10	16
H587968	299	229	0.02	2	390	4	4	7	64	0.04	< 10	< 10	48	< 10	14
H587969	299	229	0.05	6	600	8	< 2	11	85	0.14	< 10	< 10	83	< 10	18
H587970	299	229	0.05	2	320	6	6	8	182	0.08	< 10	< 10	53	< 10	18
H587971	299	229	0.06	3	400	8	10	9	145	0.09	< 10	< 10	65	< 10	18
H587972	299	229	0.11	4	760	6	2	14	199	0.20	< 10	< 10	110	10	20
H587973	299	229	0.11	6	1070	6	4	19	154	0.28	< 10	< 10	158	10	28
H587974	299	229	0.10	6	660	10	6	14	167	0.21	< 10	< 10	113	10	20
H587975	299	229	0.09	4	850	4	2	14	167	0.21	< 10	< 10	111	< 10	18
H587976	299	229	0.03	4	680	6	6	12	136	0.12	< 10	< 10	92	< 10	20

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 215
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-A
Total Pages :4
Certificate Date: 21-OCT-93
Invoice No. :I9322991
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322991

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H587977	299	229	0.4	0.99	10	40	< 0.5	< 2	3.48	< 0.5	4	75	843	1.04	< 10	< 1	0.15	20	0.30	190	380
H587978	299	229	0.6	1.15	8	140	< 0.5	< 2	1.48	< 0.5	4	97	694	1.34	< 10	< 1	0.24	20	0.39	135	221
H587979	299	229	0.4	1.25	8	90	< 0.5	< 2	1.84	< 0.5	3	47	604	1.33	< 10	< 1	0.15	20	0.41	160	600
H587980	299	229	0.6	1.77	12	290	< 0.5	< 2	1.92	< 0.5	7	67	903	2.07	< 10	< 1	0.81	20	1.12	125	783
H587981	299	229	0.6	2.02	2	970	< 0.5	< 2	2.24	< 0.5	7	68	523	1.65	10	< 1	0.81	20	1.14	105	770
H587982	299	229	0.8	2.34	6	350	< 0.5	< 2	2.37	< 0.5	9	69	1255	2.39	10	< 1	1.13	20	1.66	130	650
H587983	299	229	0.6	1.19	2	200	< 0.5	< 2	2.95	< 0.5	3	95	613	1.13	< 10	< 1	0.50	20	0.76	85	563
H587984	299	229	0.6	1.34	< 2	190	< 0.5	< 2	2.92	< 0.5	4	72	648	1.21	< 10	< 1	0.66	10	0.90	85	487
H587985	299	229	0.4	0.81	8	170	< 0.5	< 2	2.09	< 0.5	1	64	639	0.64	< 10	< 1	0.33	10	0.42	60	243
H587986	299	229	0.8	0.95	6	180	< 0.5	< 2	1.47	< 0.5	3	76	742	1.12	< 10	< 1	0.41	20	0.57	85	341
H587987	299	229	0.2	1.83	6	460	< 0.5	< 2	1.83	< 0.5	7	66	781	1.63	< 10	< 1	1.03	20	1.42	115	164
H587988	299	229	0.2	1.43	< 2	580	< 0.5	< 2	2.32	< 0.5	4	108	380	1.21	< 10	< 1	0.60	20	0.83	105	221
H587989	299	229	0.8	1.70	< 2	1090	< 0.5	< 2	2.36	< 0.5	5	86	1005	1.46	10	< 1	0.74	30	1.03	140	587
H587990	299	229	0.6	2.00	< 2	600	< 0.5	< 2	1.78	< 0.5	8	97	591	1.96	10	< 1	0.92	30	1.25	125	1155
H587991	299	229	0.6	2.41	10	310	< 0.5	< 2	2.46	< 0.5	7	63	813	2.18	10	< 1	0.81	30	1.43	205	641
H587992	299	229	0.6	2.10	< 2	760	< 0.5	< 2	2.43	< 0.5	7	96	716	2.50	10	< 1	1.05	20	1.42	165	324
H587993	299	229	0.4	1.41	2	420	< 0.5	< 2	3.68	< 0.5	4	83	534	1.07	< 10	< 1	0.56	20	0.75	110	199
H587994	299	229	0.4	1.36	< 2	150	< 0.5	< 2	2.80	< 0.5	3	138	551	1.04	< 10	< 1	0.63	20	0.78	80	171
H587995	299	229	0.4	0.56	2	60	< 0.5	< 2	1.49	< 0.5	< 1	130	291	0.29	< 10	< 1	0.22	< 10	0.12	50	204
H587996	299	229	0.4	1.59	10	290	< 0.5	< 2	2.88	< 0.5	4	86	675	1.24	< 10	< 1	0.61	20	0.79	115	371
H587997	299	229	0.4	1.87	4	280	< 0.5	< 2	2.92	< 0.5	6	65	1040	1.72	< 10	< 1	0.74	20	0.94	125	143
H587998	299	229	0.4	1.68	8	180	< 0.5	< 2	2.43	< 0.5	8	65	683	2.95	< 10	< 1	0.57	20	0.64	145	194
H587999	299	229	0.6	1.38	20	350	< 0.5	< 2	3.10	< 0.5	8	58	966	3.16	< 10	< 1	0.58	10	1.28	250	99
H588000	299	229	0.4	1.25	4	300	< 0.5	< 2	1.62	< 0.5	9	106	897	2.97	< 10	< 1	0.74	10	1.08	115	39
H588001	299	229	0.6	1.34	< 2	330	< 0.5	< 2	1.55	0.5	8	94	832	2.95	< 10	< 1	0.88	10	1.24	130	45
H588002	299	229	0.6	0.85	16	300	< 0.5	< 2	2.52	< 0.5	2	115	669	1.29	< 10	< 1	0.35	10	0.84	190	343

CERTIFICATION: _____

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 215
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. :19322991
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322991

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H587977	299	229	0.01	2	430	14	18	7	32	< 0.01	< 10	< 10	48	< 10	20
H587978	299	229	0.01	3	340	8	12	4	18	< 0.01	< 10	< 10	28	< 10	26
H587979	299	229	0.01	3	520	8	20	9	17	< 0.01	< 10	< 10	39	< 10	28
H587980	299	229	0.03	2	570	14	12	11	56	0.12	< 10	< 10	90	< 10	22
H587981	299	229	0.03	2	730	6	8	10	174	0.12	< 10	< 10	76	10	22
H587982	299	229	0.06	7	1120	12	8	14	111	0.19	< 10	< 10	106	< 10	24
H587983	299	229	0.05	2	700	8	4	7	169	0.07	< 10	< 10	46	< 10	22
H587984	299	229	0.08	2	480	16	6	9	162	0.11	< 10	< 10	62	< 10	20
H587985	299	229	0.05	1	220	8	4	6	151	0.01	< 10	< 10	25	< 10	16
H587986	299	229	0.01	3	350	4	4	7	42	0.02	< 10	< 10	36	< 10	16
H587987	299	229	0.03	6	430	4	4	15	130	0.14	< 10	< 10	96	< 10	22
H587988	299	229	0.03	4	330	10	2	9	167	0.06	< 10	< 10	57	< 10	18
H587989	299	229	0.02	2	560	2	4	13	63	0.11	< 10	< 10	80	< 10	18
H587990	299	229	0.03	2	680	10	12	13	53	0.15	< 10	< 10	93	< 10	22
H587991	299	229	0.02	3	1170	6	6	15	37	0.13	< 10	< 10	109	10	32
H587992	299	229	0.03	5	770	8	4	13	153	0.16	< 10	< 10	98	10	32
H587993	299	229	0.02	3	530	4	2	8	165	0.08	< 10	< 10	53	< 10	18
H587994	299	229	0.06	2	420	8	2	9	191	0.08	< 10	< 10	57	< 10	20
H587995	299	229	0.01	1	70	14	2	< 1	32	< 0.01	< 10	< 10	4	< 10	18
H587996	299	229	0.03	4	560	14	6	9	107	0.07	< 10	< 10	64	< 10	24
H587997	299	229	0.04	3	630	12	2	11	137	0.11	< 10	< 10	78	< 10	26
H587998	299	229	0.02	6	760	18	4	10	98	0.05	< 10	< 10	63	10	32
H587999	299	229	0.04	11	860	8	4	10	143	0.08	< 10	< 10	72	10	40
H588000	299	229	0.07	16	730	4	2	7	268	0.11	< 10	< 10	55	< 10	36
H588001	299	229	0.08	14	830	4	< 2	8	191	0.15	< 10	< 10	62	< 10	34
H588002	299	229	0.03	5	320	8	6	4	149	0.02	< 10	< 10	29	< 10	22

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 216
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 13-OCT-93
Invoice No. :19322435
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322435

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
566809	208	273	0.14	0.037	0.41	12420						
566810	208	276	0.27	0.048	0.27	8340						
566811	208	276	0.09	0.028	0.34	9740						
566812	208	273	0.03	0.025	0.14	11840						
566813	208	276	0.03	0.033	< 0.03	9660						
566814	208	276	0.06	0.055	0.07	8580						
566815	208	276	0.02	0.028	0.14	8320						
566816	208	274	0.02	0.057	0.14	7220						
566817	208	274	0.03	0.067	0.10	3760						
566818	208	276	0.04	0.039	0.07	8620						
566819	208	276	0.05	0.036	0.14	9800						
566820	208	276	0.03	0.015	0.41	11220						
566821	208	274	0.07	0.017	0.27	5400						
566822	208	274	0.04	0.028	0.31	4580						
566823	208	276	0.04	0.013	0.41	7960						
566824	208	276	0.14	0.021	0.24	9840						
566825	208	276	0.33	0.038	0.38	9660						
566826	208	276	0.36	0.014	0.31	7420						
566827	208	276	0.21	0.029	0.21	9360						
566828	208	276	0.27	0.049	0.27	10900						
566829	208	274	0.16	0.020	0.69	5960						
566830	208	273	0.29	0.030	0.38	12580						
566831	208	276	0.47	0.009	0.27	10660						
566832	208	274	0.84	0.012	0.34	4900						

CERTIFICATION: Signature

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Project : CASINO 216
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 1-A
Total Pages : 1
Certificate Date: 18-OCT-93
Invoice No. : I9322437
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9322437

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566809	299	229	2.0	1.54	20	170	< 0.5	2	0.08	< 0.5	9	73	1390	2.19	< 10	< 1	0.62	20	0.60	95	245
566810	299	229	1.4	2.11	44	460	< 0.5	< 2	0.17	< 0.5	9	77	2900	3.09	< 10	< 1	0.54	10	0.62	75	336
566811	299	229	1.4	1.47	14	180	< 0.5	< 2	0.17	< 0.5	< 1	50	896	1.83	< 10	< 1	0.69	30	0.74	60	180
566812	299	229	0.6	1.05	36	210	< 0.5	2	0.07	< 0.5	< 1	161	351	1.72	< 10	< 1	0.48	30	0.32	40	175
566813	299	229	0.4	0.63	18	150	< 0.5	< 2	0.04	< 0.5	1	110	284	1.07	< 10	< 1	0.28	40	0.09	15	238
566814	299	229	1.0	0.94	76	190	< 0.5	12	0.10	< 0.5	3	150	601	2.66	10	< 1	0.36	60	0.16	15	392
566815	299	229	0.6	1.34	14	340	< 0.5	< 2	0.08	< 0.5	2	88	217	1.27	< 10	< 1	0.54	30	0.55	30	188
566816	299	229	0.8	2.17	18	170	< 0.5	6	0.07	< 0.5	1	87	198	1.26	< 10	< 1	0.57	30	0.61	35	367
566817	299	229	1.2	2.10	88	320	< 0.5	4	0.08	< 0.5	2	55	274	1.78	< 10	< 1	0.54	30	0.56	25	440
566818	299	229	1.2	1.32	28	390	< 0.5	4	0.03	< 0.5	2	110	435	2.49	10	< 1	0.53	40	0.42	30	265
566819	299	229	1.2	0.61	138	990	< 0.5	8	0.01	< 0.5	2	96	511	2.72	< 10	< 1	0.28	20	0.03	10	255
566820	299	229	2.2	0.65	18	390	< 0.5	6	0.01	< 0.5	1	138	357	2.37	< 10	< 1	0.39	20	0.05	10	108
566821	299	229	2.6	0.90	500	540	< 0.5	20	0.03	< 0.5	4	69	831	4.73	< 10	< 1	0.46	30	0.08	15	124
566822	299	229	1.6	0.88	28	230	< 0.5	2	0.05	< 0.5	2	128	423	2.11	< 10	< 1	0.42	20	0.16	15	194
566823	299	229	1.6	0.71	20	170	< 0.5	6	0.03	< 0.5	2	78	404	2.21	< 10	< 1	0.34	20	0.07	10	89
566824	299	229	1.2	0.83	16	440	< 0.5	2	0.03	< 0.5	10	125	1550	2.53	< 10	< 1	0.34	20	0.09	10	148
566825	299	229	2.6	0.77	268	290	< 0.5	2	0.04	< 0.5	12	83	3650	3.21	< 10	< 1	0.34	30	0.07	10	276
566826	299	229	1.6	1.01	20	330	< 0.5	< 2	0.17	0.5	14	46	3720	2.02	< 10	< 1	0.19	20	0.03	15	99
566827	299	229	1.8	0.83	70	160	< 0.5	16	0.13	< 0.5	15	48	2290	3.97	< 10	< 1	0.33	20	0.06	10	201
566828	299	229	1.8	1.06	32	240	< 0.5	2	0.11	< 0.5	13	60	2860	2.74	< 10	< 1	0.22	20	0.03	10	341
566829	299	229	2.4	0.92	90	290	< 0.5	22	0.03	< 0.5	11	26	1635	3.32	< 10	< 1	0.30	10	0.06	15	131
566830	299	229	1.6	0.97	50	200	< 0.5	< 2	0.08	< 0.5	19	58	3030	2.47	< 10	< 1	0.24	20	0.06	15	196
566831	299	229	1.2	1.40	34	70	< 0.5	< 2	0.22	< 0.5	25	52	5070	3.96	10	< 1	0.32	20	0.31	175	63
566832	299	229	2.2	2.05	140	190	< 0.5	< 2	0.24	1.5	26	69	8880	4.28	10	< 1	0.31	40	0.20	130	83

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 216
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :1
Certificate Date: 18-OCT-93
Invoice No. :I9322437
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322437

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566809	299	229	0.01	7	620	12	4	9	22	0.03	< 10	< 10	58	< 10	62
566810	299	229	0.01	10	850	4	6	9	17	0.02	< 10	< 10	54	< 10	52
566811	299	229	0.04	2	840	10	2	7	24	0.04	< 10	< 10	53	< 10	22
566812	299	229	0.03	3	390	16	2	3	31	0.01	< 10	< 10	25	< 10	18
566813	299	229	0.01	1	310	14	2	1	54	< 0.01	< 10	< 10	11	< 10	14
566814	299	229	0.01	3	900	16	6	3	66	< 0.01	< 10	< 10	19	< 10	28
566815	299	229	0.01	2	600	10	2	6	16	0.02	< 10	< 10	36	< 10	14
566816	299	229	0.02	3	480	4	2	7	12	0.02	< 10	< 10	45	< 10	14
566817	299	229	0.01	4	840	6	8	7	16	0.02	< 10	10	43	< 10	20
566818	299	229	0.01	4	680	6	4	7	15	0.01	< 10	< 10	45	< 10	24
566819	299	229	< 0.01	2	320	12	6	1	20	< 0.01	< 10	< 10	6	< 10	30
566820	299	229	0.01	2	330	8	2	1	15	< 0.01	< 10	< 10	9	< 10	16
566821	299	229	0.01	4	860	12	46	4	17	< 0.01	< 10	< 10	16	< 10	54
566822	299	229	0.01	4	440	6	4	3	16	< 0.01	< 10	< 10	17	< 10	30
566823	299	229	0.01	3	550	4	2	2	12	< 0.01	< 10	< 10	15	< 10	26
566824	299	229	0.01	5	410	12	< 2	2	23	< 0.01	< 10	< 10	14	< 10	22
566825	299	229	< 0.01	4	560	22	64	2	12	< 0.01	< 10	< 10	12	< 10	38
566826	299	229	< 0.01	5	1380	8	< 2	9	7	< 0.01	< 10	< 10	37	< 10	46
566827	299	229	< 0.01	3	1320	18	18	3	44	< 0.01	< 10	< 10	15	< 10	18
566828	299	229	< 0.01	4	1480	8	16	4	17	< 0.01	< 10	< 10	21	< 10	44
566829	299	229	< 0.01	4	1190	14	18	6	9	< 0.01	< 10	< 10	25	< 10	88
566830	299	229	< 0.01	3	580	6	16	3	10	< 0.01	< 10	< 10	18	< 10	20
566831	299	229	0.01	7	630	12	6	5	47	< 0.01	< 10	< 10	30	< 10	92
566832	299	229	< 0.01	12	970	12	22	8	13	< 0.01	< 10	< 10	41	< 10	118

CERTIFICATION: Stewart Bradshaw

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 20-OCT-93
Invoice No. :I9322811
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322811

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H588652	208 274	0.31	0.020	0.17	3880
H588653	208 276	0.48	0.007	0.07	9500
H588654	208 276	0.10	0.001	0.17	11420
H588655	208 276	0.07	0.001	0.10	9660
H588656	208 276	0.08	0.002	0.10	9260
H588657	208 276	0.13	0.002	0.21	8080
H588658	208 274	0.13	0.002	0.10	6940
H588659	208 276	0.10	0.002	0.10	9720
H588660	208 273	0.05	0.002	0.07	12140
H588661	208 274	0.02	0.001	< 0.03	6940
H588662	208 273	0.07	0.003	0.03	11960
H588663	208 276	0.12	0.003	0.10	11260
H588664	208 274	0.11	0.002	0.14	4940
H588665	208 276	0.43	0.005	0.41	9140
H588666	208 273	0.19	0.002	0.27	12840
H588667	208 276	0.08	0.003	0.14	10360
H588668	208 276	0.08	0.003	0.10	11260
H588669	208 276	0.10	0.002	0.07	9500
H588670	208 273	0.11	0.002	0.14	12400
H588671	208 273	0.24	0.004	0.24	13300
H588672	208 273	0.14	0.003	0.10	12360
H588673	208 276	0.31	0.004	0.34	11640
H588674	208 276	0.11	0.002	0.14	9420
H588675	208 274	0.25	0.006	0.31	6300
H588676	208 273	0.27	0.008	0.27	12300
H588677	208 276	0.23	0.007	0.24	11400
H588678	208 276	0.39	0.008	0.31	9080
H588679	208 273	0.30	0.008	0.31	12740
H588680	208 276	0.29	0.005	0.24	11340
H588681	208 276	0.32	0.008	0.27	11700
H588682	208 276	0.21	0.007	0.17	10860
H588683	208 273	0.25	0.006	0.24	12000
H588684	208 273	0.14	0.004	0.14	12920
H588685	208 273	0.26	0.041	0.24	12020
H588686	208 276	0.20	0.008	0.21	11560
H588687	208 276	0.20	0.005	0.21	11800
H588688	208 276	0.14	0.045	0.14	11140
H588689	208 273	0.15	0.004	0.17	12160
H588690	208 273	0.41	0.009	0.34	12700
H588691	208 273	0.15	0.019	0.17	12640

CERTIFICATION:

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Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-OCT-93
Invoice No. :I9322811
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322811

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588692	208	273	0.56	0.006	0.65	11900						
H588693	208	276	0.21	0.005	0.21	11360						
H588694	208	273	0.25	0.005	0.48	12120						
H588695	208	276	0.25	0.003	0.31	11500						
H588696	208	276	0.21	0.005	0.31	11720						
H588697	208	273	0.20	0.007	0.27	12280						
H588698	208	276	0.24	0.008	0.34	11620						
H588699	208	273	0.24	0.012	0.24	12180						
H588700	208	273	0.20	0.009	0.17	13160						
H588701	208	276	0.32	0.006	0.31	10800						
H588702	208	273	0.27	0.007	0.27	12580						
H588703	208	273	0.20	0.007	0.17	12400						
H588704	208	273	0.17	0.005	0.24	11960						
H588705	208	276	0.14	0.006	0.10	7640						
H588706	208	273	0.27	0.006	0.24	14160						
H588707	208	276	0.21	0.004	0.17	9120						
H588708	208	273	0.46	0.004	0.27	12220						
H588709	208	273	0.46	0.006	0.34	12960						
H588710	208	273	0.20	0.005	0.31	13940						
H588711	208	273	0.30	0.008	0.24	12340						
H588712	208	273	0.57	0.037	0.31	14080						
H588713	208	273	1.24	0.071	1.02	13460						
H588714	208	273	0.53	0.022	0.42	11880						
H588715	208	276	0.38	0.054	0.34	11560						
H588716	208	276	0.51	0.032	0.24	11740						
H588717	208	273	0.15	0.005	0.07	13040						
H588718	208	273	0.17	0.005	0.14	11940						
H588719	208	276	0.13	0.007	0.10	10540						
H588720	208	273	0.15	0.006	0.10	12080						
H588721	208	273	0.22	0.012	0.24	12960						
H588722	208	276	0.18	0.009	0.17	7980						
H588723	208	273	0.18	0.009	0.21	15100						
H588724	208	273	0.19	0.011	0.21	12420						
H588725	208	273	0.14	0.008	0.10	12720						
H588726	208	273	0.20	0.007	0.24	12900						
H588727	208	273	0.22	0.004	0.31	14100						
H588728	208	276	0.21	0.064	0.48	9620						
H588729	208	273	0.33	0.005	0.51	14380						
H588730	208	273	0.21	0.027	0.17	12480						
H588731	208	273	0.23	0.007	0.17	13840						

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Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9322811

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588732	208	273	0.20	0.005	0.21	13130						
H588733	208	273	0.14	0.003	0.21	12720						
H588734	208	273	0.14	0.003	0.14	12700						
H588735	208	273	0.16	0.004	0.17	12600						
H588736	208	273	0.20	0.008	0.34	12480						
H588737	208	273	0.09	0.002	0.07	13380						
H588738	208	273	0.13	0.007	0.10	12380						
H588739	208	273	0.12	0.003	0.10	12880						
H588740	208	276	0.16	0.002	0.07	10000						
H588741	208	273	0.13	0.003	0.10	12100						
H588742	208	276	0.27	0.013	0.62	11500						
H588743	208	273	0.14	0.017	0.27	12760						
H588744	208	273	0.13	0.002	0.10	11960						
H588745	208	276	0.17	0.019	0.21	11600						
H588746	208	273	0.09	0.006	0.07	11860						
H588747	208	273	0.17	0.004	0.10	12300						
H588748	208	276	0.27	0.005	0.14	11100						
H588749	208	276	0.12	0.001	0.10	9380						
H588750	208	273	0.42	0.007	0.27	13160						
H588751	208	276	0.18	0.012	0.27	11600						
H588752	208	273	0.08	0.004	0.07	12120						
H588753	208	273	0.12	0.008	0.07	11900						
H588754	208	273	0.19	0.008	0.17	12120						
H588755	208	273	0.20	0.014	0.14	11940						
H588756	208	273	0.22	0.004	0.14	12480						
H588757	208	273	0.17	0.001	0.17	12440						
H588758	208	273	0.21	0.003	0.14	13080						
H588759	208	273	0.11	0.007	0.10	12480						
H588760	208	270	0.11	0.003	0.07	18960						
H588761	208	274	0.19	0.015	0.24	6340						
H588762	208	273	0.09	0.002	0.10	12100						
H588763	208	273	0.09	0.003	0.07	12120						
H588764	208	276	0.12	0.003	0.10	11720						
H588765	208	276	0.16	0.010	0.14	11640						
H588766	208	273	0.10	0.004	0.07	12260						
H588767	208	273	0.08	0.003	< 0.03	12540						
H588768	208	273	0.20	0.009	0.07	12260						
H588769	208	273	0.26	0.006	0.21	12960						
H588770	208	273	0.26	0.004	0.17	13500						
H588771	208	273	0.23	0.058	0.14	12960						

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :5
Certificate Date: 20-OCT-93
Invoice No. :19322811
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322811

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588772	208	276	0.19	0.003	0.17	11640						
H588773	208	276	0.13	0.008	0.21	10420						
H588774	208	276	0.13	0.017	0.14	11620						
H588775	208	273	0.12	0.003	0.10	12480						
H588776	208	273	0.12	0.001	0.14	13100						
H588777	208	273	0.09	0.001	0.10	12900						
H588778	208	273	0.12	0.003	0.10	12260						
H588779	208	273	0.24	0.007	0.17	12200						
H588780	208	273	0.16	0.028	0.17	13000						
H588781	208	273	0.12	0.003	0.14	11900						
H588782	208	273	0.16	0.004	0.14	12880						
H588783	208	273	0.17	0.007	0.14	12800						
H588784	208	273	0.11	0.002	0.10	12020						
H588785	208	273	0.08	0.003	0.07	12580						
H588786	208	273	0.08	0.004	0.03	12280						
H588787	208	273	0.15	0.005	0.07	13020						
H588788	208	273	0.18	0.009	0.10	12600						
H588789	208	273	0.12	0.007	0.07	12660						
H588790	208	273	0.17	0.003	0.07	13080						
H588791	208	273	0.12	0.011	0.10	12660						
H588792	208	273	0.19	0.006	0.10	12780						
H588793	208	273	0.17	0.038	0.14	12840						
H588794	208	273	0.13	0.020	0.24	13320						
H588795	208	276	0.15	0.010	0.14	11780						
H588796	208	276	0.21	0.014	0.17	11720						
H588797	208	273	0.18	0.012	0.10	12200						
H588798	208	273	0.12	0.010	0.07	12420						
H588799	208	273	0.17	0.009	0.10	12660						
H588800	208	273	0.28	0.012	0.31	12380						
H588801	208	273	0.14	0.013	0.10	13260						
H588802	208	273	0.10	0.008	0.10	11960						
H588803	208	273	0.12	0.015	0.17	12100						
H588804	208	273	0.15	0.010	0.14	12420						
H588805	208	273	0.19	0.011	0.27	13300						
H588806	208	276	0.13	0.022	0.38	11740						
H588807	208	273	0.11	0.003	0.07	11860						
H588808	208	273	0.10	0.012	0.03	12560						
H588809	208	273	0.10	0.022	0.10	13280						
H588810	208	273	0.12	0.027	0.10	12400						
H588811	208	276	0.08	0.009	0.07	11760						

CERTIFICATION:

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Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :5
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Invoice No. :I9322811
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Account :FC

CERTIFICATE OF ANALYSIS A9322811

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H588812	208	276	0.13	0.007	0.10	11180
H588813	208	273	0.08	0.005	0.07	12640
H588814	208	273	0.14	0.024	0.07	11880
H588815	208	276	0.28	0.008	0.14	10260
H588816	208	273	0.15	0.005	0.17	12800
H588817	208	273	0.11	0.027	0.10	13040
H588818	208	273	0.19	0.022	0.91	11840
H588819	208	273	0.20	0.085	0.25	13160
H588820	208	273	0.16	0.009	0.17	12760
H588821	208	273	0.20	0.012	0.14	12620
H588822	208	273	0.15	0.004	0.07	12420
H588823	208	273	0.18	0.009	0.14	12940
H588824	208	273	0.19	0.013	0.14	12980
H588825	208	273	0.10	0.007	0.10	13280
H588826	208	273	0.14	0.013	0.14	12300
H588827	208	273	0.06	0.005	0.03	13580
H588828	208	273	0.10	0.002	0.10	12380
H588829	208	273	0.12	0.012	0.10	13080
H588830	208	273	0.20	0.014	0.21	12400
H588831	208	273	0.17	0.011	0.17	12480
H588832	208	273	0.15	0.005	0.10	13260
H588833	208	273	0.11	0.006	0.03	12480
H588834	208	273	0.09	0.016	0.03	12500
H588835	208	273	0.06	0.010	< 0.03	13020
H588836	208	273	0.06	0.002	< 0.03	12520
H588837	208	273	0.11	0.010	0.10	12200
H588838	208	274	0.07	0.005	0.03	2720

CERTIFICATION:

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Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :5
Certificate Date: 20-OCT-93
Invoice No. :19322812
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588652	299	229	0.6	4.00	100	1740	0.5	10	0.36	1.0	40	74	3040	7.06	10	< 1	0.70	20	0.80	1255	118
H588653	299	229	1.2	3.27	34	70	< 0.5	14	0.44	0.5	62	65	4770	5.87	10	< 1	0.68	20	1.09	635	37
H588654	299	229	0.8	1.14	212	40	< 0.5	6	1.91	3.5	47	34	1170	5.69	< 10	< 1	0.34	20	0.92	1500	1
H588655	299	229	1.6	2.34	126	30	< 0.5	< 2	2.69	1.0	42	28	681	6.31	< 10	< 1	0.73	10	1.45	1770	1
H588656	299	229	0.6	1.99	28	210	< 0.5	< 2	3.66	1.5	32	36	791	4.37	< 10	< 1	0.83	20	1.47	1125	10
H588657	299	229	3.6	1.44	122	30	< 0.5	< 2	3.44	14.0	38	49	1335	5.58	< 10	< 1	0.49	10	1.23	1085	7
H588658	299	229	0.8	1.81	6	100	< 0.5	< 2	3.17	< 0.5	29	26	1295	4.17	< 10	< 1	0.85	10	1.41	695	9
H588659	299	229	0.8	4.17	14	30	< 0.5	4	3.00	< 0.5	28	58	958	6.11	< 10	< 1	1.10	< 10	2.35	350	6
H588660	299	229	0.2	4.48	6	30	< 0.5	4	1.87	< 0.5	21	80	463	6.15	10	< 1	1.06	< 10	2.57	200	6
H588661	299	229	< 0.2	2.64	12	40	< 0.5	4	1.02	< 0.5	19	60	210	5.60	< 10	< 1	0.72	< 10	2.12	160	< 1
H588662	299	229	< 0.2	3.64	28	40	< 0.5	< 2	1.80	< 0.5	33	93	691	5.60	< 10	< 1	1.09	< 10	2.29	295	9
H588663	299	229	0.2	2.75	< 2	90	< 0.5	4	2.27	< 0.5	24	70	1195	3.97	< 10	< 1	0.86	10	1.59	215	10
H588664	299	229	0.2	1.13	< 2	120	< 0.5	< 2	1.26	< 0.5	15	289	1065	1.85	< 10	< 1	0.45	20	0.18	165	10
H588665	299	229	1.6	2.19	6	60	< 0.5	6	2.50	0.5	31	159	4350	3.96	< 10	< 1	0.62	10	0.66	345	23
H588666	299	229	0.6	3.18	10	30	< 0.5	4	2.56	< 0.5	42	57	1820	5.35	< 10	< 1	1.09	10	1.72	310	5
H588667	299	229	0.4	1.06	2	100	< 0.5	< 2	1.13	0.5	23	205	882	2.75	< 10	< 1	0.33	10	0.42	375	11
H588668	299	229	1.2	0.87	< 2	60	< 0.5	< 2	1.68	5.0	23	122	830	3.28	< 10	< 1	0.27	10	0.41	550	9
H588669	299	229	0.4	1.49	6	100	< 0.5	< 2	1.80	< 0.5	28	133	970	2.96	< 10	< 1	0.36	10	0.45	405	5
H588670	299	229	0.4	0.79	2	100	< 0.5	2	1.37	< 0.5	24	136	1045	2.43	< 10	< 1	0.27	20	0.44	190	11
H588671	299	229	0.8	1.03	8	80	< 0.5	2	1.09	0.5	23	146	2340	2.59	< 10	< 1	0.37	10	0.42	165	17
H588672	299	229	0.4	0.54	14	90	< 0.5	< 2	1.33	< 0.5	23	149	1445	2.39	< 10	< 1	0.24	< 10	0.50	135	14
H588673	299	229	1.2	1.16	6	110	< 0.5	4	1.45	< 0.5	24	185	3100	2.46	< 10	< 1	0.40	10	0.47	130	21
H588674	299	229	0.2	1.52	< 2	110	< 0.5	< 2	2.27	0.5	17	111	1025	2.90	< 10	< 1	0.38	10	0.92	135	7
H588675	299	229	0.4	2.35	< 2	110	< 0.5	< 2	2.75	0.5	21	162	2390	2.98	< 10	< 1	0.63	10	1.03	150	27
H588676	299	229	1.4	0.81	< 2	130	< 0.5	4	1.98	0.5	23	171	2710	2.57	< 10	< 1	0.36	10	0.71	290	51
H588677	299	229	0.6	1.55	< 2	150	< 0.5	< 2	2.32	0.5	19	186	2230	2.38	< 10	< 1	0.48	10	0.65	195	38
H588678	299	229	1.0	1.16	22	80	< 0.5	6	1.95	< 0.5	33	117	3690	2.55	< 10	< 1	0.45	< 10	0.65	185	40
H588679	299	229	5.4	0.54	44	60	< 0.5	2	1.82	2.5	24	75	3020	2.46	< 10	< 1	0.20	< 10	0.63	250	44
H588680	299	229	1.4	1.18	8	90	< 0.5	2	2.20	0.5	27	173	2830	2.42	< 10	< 1	0.41	< 10	0.70	120	24
H588681	299	229	1.4	0.52	4	60	< 0.5	2	1.97	1.5	31	155	3250	2.20	< 10	< 1	0.23	< 10	0.57	110	42
H588682	299	229	0.6	0.86	2	80	< 0.5	< 2	0.90	< 0.5	23	152	2220	2.05	< 10	< 1	0.40	10	0.31	125	41
H588683	299	229	0.6	0.93	6	70	< 0.5	4	0.92	< 0.5	32	122	2480	2.13	< 10	< 1	0.45	10	0.37	130	32
H588684	299	229	0.2	0.48	14	100	< 0.5	< 2	1.41	< 0.5	23	119	1385	1.94	< 10	< 1	0.19	10	0.41	120	16
H588685	299	229	1.4	1.03	6	90	< 0.5	4	1.98	< 0.5	21	148	2500	1.88	< 10	< 1	0.31	10	0.65	225	233
H588686	299	229	0.8	0.43	10	140	< 0.5	< 2	2.05	< 0.5	14	102	2020	1.44	< 10	< 1	0.17	20	0.59	130	37
H588687	299	229	0.6	1.77	4	200	< 0.5	2	1.75	< 0.5	15	72	1830	2.63	< 10	< 1	0.65	10	1.35	110	19
H588688	299	229	1.4	0.69	16	120	< 0.5	< 2	0.92	0.5	16	194	1400	1.54	< 10	< 1	0.28	10	0.32	170	241
H588689	299	229	0.6	1.78	6	130	< 0.5	< 2	1.65	< 0.5	20	124	1510	2.24	< 10	< 1	0.46	30	0.65	250	18
H588690	299	229	3.6	1.47	8	110	< 0.5	2	2.03	0.5	21	148	4070	2.48	< 10	< 1	0.40	10	0.72	835	47
H588691	299	229	0.6	1.21	18	190	< 0.5	< 2	1.95	< 0.5	17	215	1585	1.55	< 10	< 1	0.39	20	0.46	250	98

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :5
Certificate Date: 20-OCT-93
Invoice No. :I9322812
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588652	299	229	0.04	8	1300	18	4	10	88	0.07	< 10	10	97	< 10	122
H588653	299	229	0.02	10	1230	20	4	12	26	0.09	< 10	< 10	98	< 10	86
H588654	299	229	< 0.01	6	1380	16	6	12	26	0.01	< 10	< 10	71	< 10	230
H588655	299	229	0.01	6	1460	40	6	16	35	0.04	< 10	< 10	112	< 10	240
H588656	299	229	0.02	4	1140	38	12	15	45	0.12	< 10	< 10	101	< 10	164
H588657	299	229	0.01	6	1090	386	46	7	42	0.02	< 10	< 10	50	< 10	872
H588658	299	229	0.02	4	1340	8	< 2	12	45	0.09	< 10	< 10	92	< 10	86
H588659	299	229	0.14	6	1370	2	< 2	17	70	0.13	< 10	< 10	145	< 10	32
H588660	299	229	0.26	6	1540	2	< 2	17	85	0.14	< 10	< 10	146	< 10	18
H588661	299	229	0.10	4	1330	< 2	< 2	12	32	0.16	< 10	< 10	120	< 10	18
H588662	299	229	0.15	6	1190	8	< 2	15	52	0.16	< 10	< 10	136	< 10	28
H588663	299	229	0.09	3	1120	< 2	< 2	13	49	0.11	< 10	< 10	107	< 10	18
H588664	299	229	0.01	5	210	10	< 2	1	20	< 0.01	< 10	< 10	8	< 10	10
H588665	299	229	0.02	8	660	8	2	6	33	0.01	< 10	< 10	44	< 10	24
H588666	299	229	0.06	7	1190	4	2	16	48	0.11	< 10	< 10	130	< 10	22
H588667	299	229	0.01	4	400	14	2	1	16	< 0.01	< 10	< 10	12	< 10	32
H588668	299	229	0.01	4	670	270	4	3	28	< 0.01	< 10	< 10	21	< 10	538
H588669	299	229	0.01	5	810	12	< 2	8	25	< 0.01	< 10	10	41	< 10	36
H588670	299	229	< 0.01	11	330	8	2	2	23	< 0.01	< 10	< 10	16	< 10	14
H588671	299	229	0.01	9	330	4	14	1	18	< 0.01	< 10	< 10	12	< 10	8
H588672	299	229	< 0.01	7	420	4	2	1	21	< 0.01	< 10	< 10	8	< 10	12
H588673	299	229	0.01	9	380	4	< 2	2	33	< 0.01	< 10	< 10	17	< 10	10
H588674	299	229	0.01	6	590	8	4	5	51	0.01	< 10	< 10	38	< 10	52
H588675	299	229	0.02	10	810	2	2	8	75	0.02	< 10	< 10	56	< 10	12
H588676	299	229	0.01	13	330	10	8	2	29	< 0.01	< 10	< 10	15	< 10	18
H588677	299	229	0.01	7	660	8	4	7	36	< 0.01	< 10	< 10	35	< 10	20
H588678	299	229	0.01	6	500	8	24	3	22	< 0.01	< 10	< 10	21	< 10	8
H588679	299	229	< 0.01	7	690	128	22	4	25	< 0.01	< 10	< 10	19	< 10	192
H588680	299	229	0.01	7	520	18	6	3	30	< 0.01	< 10	< 10	18	< 10	14
H588681	299	229	< 0.01	6	690	106	4	1	36	< 0.01	< 10	< 10	7	< 10	62
H588682	299	229	0.01	4	370	14	2	1	18	< 0.01	< 10	< 10	7	< 10	18
H588683	299	229	0.01	5	180	6	8	< 1	16	< 0.01	< 10	< 10	7	< 10	24
H588684	299	229	0.01	13	480	14	2	2	37	< 0.01	< 10	10	10	< 10	26
H588685	299	229	0.01	13	420	8	4	4	31	< 0.01	< 10	< 10	21	< 10	20
H588686	299	229	0.01	10	330	< 2	4	1	44	< 0.01	< 10	< 10	10	< 10	16
H588687	299	229	0.02	3	980	2	2	8	51	0.07	< 10	< 10	75	< 10	18
H588688	299	229	< 0.01	6	330	14	16	1	18	< 0.01	< 10	< 10	7	< 10	72
H588689	299	229	0.01	11	430	12	6	4	53	0.01	< 10	< 10	32	< 10	18
H588690	299	229	0.02	10	420	16	2	4	81	< 0.01	< 10	< 10	31	< 10	28
H588691	299	229	0.03	4	330	2	4	1	85	< 0.01	< 10	< 10	12	< 10	18

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :5
Certificate Date: 20-OCT-93
Invoice No. :I9322812
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Account :FC

CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588692	299	229	9.8	2.06	68	70	< 0.5	8	1.47	1.5	15	157	5840	2.56	< 10	< 1	0.59	10	0.55	555	31
H588693	299	229	1.0	1.44	56	170	< 0.5	< 2	2.39	< 0.5	16	84	2220	2.66	< 10	< 1	0.26	10	0.81	790	28
H588694	299	229	1.4	1.88	38	140	< 0.5	< 2	1.78	< 0.5	19	146	2520	2.25	< 10	< 1	0.40	10	0.66	385	27
H588695	299	229	2.0	1.12	36	150	< 0.5	< 2	1.81	4.0	13	137	2540	1.64	< 10	< 1	0.38	10	0.42	445	17
H588696	299	229	1.0	1.26	10	200	< 0.5	< 2	1.70	0.5	15	145	2080	1.59	< 10	< 1	0.41	20	0.45	235	27
H588697	299	229	1.2	1.10	30	170	< 0.5	< 2	1.56	< 0.5	19	171	2040	1.79	< 10	< 1	0.35	10	0.48	270	41
H588698	299	229	1.0	1.17	2	240	< 0.5	< 2	1.73	0.5	12	173	2400	1.48	< 10	< 1	0.34	20	0.58	350	41
H588699	299	229	0.8	1.08	20	200	< 0.5	< 2	2.28	< 0.5	13	119	2450	1.37	< 10	< 1	0.36	20	0.47	360	71
H588700	299	229	1.6	1.25	8	150	< 0.5	< 2	1.62	1.5	12	166	2030	1.38	< 10	< 1	0.47	10	0.50	265	54
H588701	299	229	1.6	2.32	14	190	< 0.5	< 2	2.85	0.5	16	74	3170	2.27	< 10	< 1	0.66	10	1.14	290	39
H588702	299	229	1.0	2.46	< 2	230	< 0.5	< 2	2.70	0.5	17	103	2660	2.26	< 10	< 1	0.70	10	1.10	190	36
H588703	299	229	0.6	1.88	10	200	< 0.5	< 2	1.90	< 0.5	13	66	1865	1.79	< 10	< 1	0.74	10	1.04	110	38
H588704	299	229	0.4	1.11	8	190	< 0.5	< 2	1.31	< 0.5	14	181	1645	1.45	< 10	< 1	0.47	20	0.54	90	29
H588705	299	229	0.6	0.80	14	190	< 0.5	< 2	1.29	< 0.5	10	145	1470	1.23	< 10	< 1	0.40	20	0.39	85	34
H588706	299	229	1.4	1.32	38	190	< 0.5	< 2	1.56	< 0.5	17	130	2630	1.47	< 10	< 1	0.52	30	0.47	235	32
H588707	299	229	1.4	1.16	34	220	< 0.5	< 2	2.16	< 0.5	16	146	2090	1.74	< 10	< 1	0.40	20	0.70	300	22
H588708	299	229	5.4	1.31	30	130	< 0.5	< 2	2.11	1.0	23	152	4570	2.22	< 10	< 1	0.49	20	0.63	235	28
H588709	299	229	5.6	0.97	16	90	< 0.5	4	1.82	1.0	38	97	4880	2.89	< 10	< 1	0.42	20	0.65	395	39
H588710	299	229	3.6	1.38	112	10	< 0.5	8	1.21	0.5	34	117	2080	6.81	< 10	< 1	0.62	10	0.60	480	30
H588711	299	229	8.4	1.01	688	20	< 0.5	< 2	1.60	4.0	29	78	3140	4.37	< 10	< 1	0.53	10	0.61	2530	46
H588712	299	229	12.4	2.14	1110	70	< 0.5	10	2.76	4.5	17	111	5800	2.57	< 10	< 1	0.58	20	1.03	3030	217
H588713	299	229	4.8	2.29	270	100	< 0.5	< 2	3.00	1.0	18	47	>10000	2.74	< 10	< 1	0.38	20	1.05	825	385
H588714	299	229	2.6	2.09	230	80	< 0.5	< 2	2.18	1.0	12	110	5390	2.30	< 10	< 1	0.42	10	0.77	1110	125
H588715	299	229	2.0	1.05	160	140	< 0.5	< 2	2.07	0.5	11	107	3790	1.92	< 10	< 1	0.33	20	0.75	635	342
H588716	299	229	4.0	1.10	74	140	< 0.5	8	1.27	0.5	14	137	5350	2.02	< 10	< 1	0.44	20	0.50	405	200
H588717	299	229	1.4	1.25	22	200	< 0.5	< 2	1.42	< 0.5	14	175	1495	1.71	< 10	< 1	0.46	20	0.54	290	27
H588718	299	229	1.8	1.59	32	120	< 0.5	< 2	1.52	0.5	12	203	1660	2.14	< 10	< 1	0.58	20	0.67	380	25
H588719	299	229	1.2	1.27	14	80	< 0.5	< 2	1.65	< 0.5	13	123	1275	1.38	< 10	< 1	0.41	20	0.64	340	38
H588720	299	229	1.4	1.65	34	330	< 0.5	< 2	1.30	< 0.5	12	154	1505	1.31	10	< 1	0.54	30	0.54	255	34
H588721	299	229	1.8	1.26	180	80	< 0.5	< 2	1.88	0.5	17	180	2270	3.08	< 10	< 1	0.38	10	0.58	875	68
H588722	299	229	0.8	1.03	16	210	< 0.5	< 2	1.84	< 0.5	16	165	1750	1.45	< 10	< 1	0.29	20	0.65	285	47
H588723	299	229	1.0	1.16	20	210	< 0.5	< 2	1.94	< 0.5	16	175	1850	1.52	< 10	< 1	0.31	20	0.69	300	48
H588724	299	229	1.0	1.55	24	180	< 0.5	< 2	1.86	< 0.5	18	152	1985	1.66	< 10	< 1	0.40	40	0.81	195	69
H588725	299	229	1.0	1.26	12	220	< 0.5	< 2	2.29	< 0.5	17	52	1390	2.68	< 10	< 1	0.38	20	1.04	230	43
H588726	299	229	1.2	2.45	196	250	< 0.5	< 2	2.21	0.5	14	91	1865	2.82	< 10	< 1	0.52	20	0.87	670	37
H588727	299	229	4.4	1.11	200	100	< 0.5	< 2	2.91	1.0	14	139	2100	2.51	< 10	< 1	0.22	10	0.97	1175	23
H588728	299	229	4.4	0.87	682	50	< 0.5	< 2	2.94	1.5	9	188	2010	2.32	< 10	< 1	0.25	10	0.85	1905	408
H588729	299	229	10.2	1.00	1125	90	< 0.5	48	3.29	3.5	11	153	3240	2.96	< 10	< 1	0.41	10	1.26	2270	26
H588730	299	229	1.6	1.63	22	140	< 0.5	< 2	2.54	< 0.5	18	179	2070	2.89	< 10	< 1	0.49	20	1.11	665	165
H588731	299	229	1.4	2.22	14	170	< 0.5	< 2	2.56	< 0.5	16	148	2220	3.08	< 10	< 1	0.89	10	1.59	160	36

CERTIFICATION: Stewart Bridle

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588692	299	229	0.01	7	640	90	42	5	30	< 0.01	< 10	< 10	27	< 10	74
H588693	299	229	< 0.01	5	950	18	48	8	39	< 0.01	< 10	10	46	< 10	36
H588694	299	229	0.01	8	580	16	16	4	37	< 0.01	< 10	< 10	29	< 10	44
H588695	299	229	< 0.01	8	480	100	16	2	45	< 0.01	< 10	< 10	14	< 10	342
H588696	299	229	0.01	13	320	14	6	2	58	< 0.01	< 10	< 10	15	< 10	50
H588697	299	229	0.01	18	310	4	6	3	58	< 0.01	< 10	< 10	18	< 10	26
H588698	299	229	0.01	10	340	14	10	2	47	< 0.01	< 10	< 10	14	< 10	14
H588699	299	229	0.01	8	590	10	6	2	73	< 0.01	< 10	< 10	13	< 10	18
H588700	299	229	0.02	4	490	60	2	2	66	< 0.01	< 10	< 10	14	< 10	160
H588701	299	229	0.01	7	1040	6	2	11	123	0.03	< 10	< 10	69	< 10	26
H588702	299	229	0.03	6	1170	8	2	10	137	0.04	< 10	< 10	71	< 10	12
H588703	299	229	0.02	4	1040	4	2	8	76	0.03	< 10	< 10	57	< 10	12
H588704	299	229	0.04	12	250	14	< 2	2	70	< 0.01	< 10	< 10	14	< 10	8
H588705	299	229	0.03	10	190	6	2	1	51	< 0.01	< 10	< 10	8	< 10	8
H588706	299	229	0.01	14	290	6	4	2	34	< 0.01	< 10	< 10	15	< 10	16
H588707	299	229	0.01	20	330	18	4	2	50	< 0.01	< 10	< 10	13	< 10	32
H588708	299	229	0.01	20	400	28	10	3	47	< 0.01	< 10	< 10	18	< 10	58
H588709	299	229	0.01	21	430	32	2	4	36	< 0.01	< 10	< 10	19	< 10	96
H588710	299	229	0.01	19	420	64	22	4	27	< 0.01	< 10	< 10	23	< 10	46
H588711	299	229	< 0.01	6	890	80	194	3	26	< 0.01	< 10	< 10	18	< 10	188
H588712	299	229	0.01	28	1000	90	346	7	37	< 0.01	< 10	10	40	< 10	274
H588713	299	229	0.01	16	1170	6	168	8	32	< 0.01	< 10	10	45	< 10	16
H588714	299	229	0.01	13	880	20	58	6	33	< 0.01	< 10	< 10	33	< 10	40
H588715	299	229	0.01	11	330	52	90	2	28	< 0.01	< 10	< 10	12	< 10	70
H588716	299	229	0.01	12	250	18	22	2	21	< 0.01	< 10	< 10	11	< 10	22
H588717	299	229	0.01	13	310	10	10	2	27	< 0.01	< 10	< 10	13	< 10	30
H588718	299	229	0.01	14	320	16	6	2	24	< 0.01	< 10	< 10	12	< 10	38
H588719	299	229	0.01	15	340	4	6	2	20	< 0.01	< 10	< 10	12	< 10	20
H588720	299	229	0.01	15	300	10	6	3	25	< 0.01	< 10	< 10	15	< 10	24
H588721	299	229	0.01	29	750	14	22	3	20	< 0.01	< 10	< 10	26	< 10	34
H588722	299	229	0.01	12	320	2	< 2	3	21	< 0.01	< 10	< 10	22	< 10	22
H588723	299	229	0.01	13	330	6	2	4	22	< 0.01	< 10	< 10	24	< 10	24
H588724	299	229	0.01	14	290	12	2	7	30	< 0.01	< 10	< 10	32	< 10	20
H588725	299	229	0.02	4	920	14	2	8	469	0.03	< 10	< 10	59	< 10	22
H588726	299	229	0.01	4	1020	10	24	9	67	0.02	< 10	< 10	62	< 10	44
H588727	299	229	0.01	10	410	12	64	4	42	< 0.01	< 10	< 10	31	10	60
H588728	299	229	< 0.01	6	310	10	106	3	51	< 0.01	< 10	< 10	20	10	94
H588729	299	229	0.01	4	410	32	256	4	42	0.01	< 10	< 10	29	10	250
H588730	299	229	0.02	11	460	28	2	6	94	0.03	< 10	< 10	51	10	30
H588731	299	229	0.05	16	580	< 2	2	12	407	0.13	< 10	< 10	98	10	20

CERTIFICATION: Bruce Buchan

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P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Account :FC

CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588732	299	229	1.6	2.82	6	190	< 0.5	< 2	2.72	< 0.5	28	172	1965	3.36	< 10	< 1	0.81	10	1.96	165	30
H588733	299	229	0.8	2.40	< 2	90	< 0.5	< 2	1.87	0.5	24	250	1290	3.40	< 10	< 1	0.84	10	1.79	130	16
H588734	299	229	0.6	1.63	< 2	140	< 0.5	< 2	1.45	0.5	19	194	1305	2.81	< 10	< 1	0.55	< 10	1.15	95	18
H588735	299	229	1.2	1.83	8	120	< 0.5	2	1.65	< 0.5	20	112	1500	3.45	< 10	< 1	0.51	10	1.42	140	21
H588736	299	229	1.0	1.62	18	170	< 0.5	< 2	2.15	< 0.5	20	127	1890	2.70	< 10	< 1	0.44	10	0.94	125	44
H588737	299	229	0.4	1.46	< 2	160	< 0.5	< 2	1.53	< 0.5	19	134	868	2.79	< 10	< 1	0.35	< 10	1.08	80	8
H588738	299	229	0.8	1.16	< 2	130	< 0.5	< 2	2.25	< 0.5	22	111	1290	1.93	< 10	< 1	0.26	20	0.62	175	43
H588739	299	229	1.6	0.97	66	140	< 0.5	< 2	2.03	0.5	14	85	1230	2.22	< 10	< 1	0.24	10	0.46	575	16
H588740	299	229	1.2	1.44	4	280	< 0.5	< 2	1.78	< 0.5	12	123	1565	2.04	< 10	< 1	0.33	10	0.86	115	12
H588741	299	229	1.2	1.75	8	230	< 0.5	< 2	1.67	< 0.5	22	137	1245	2.69	< 10	< 1	0.38	10	1.09	135	15
H588742	299	229	51.0	1.34	468	40	< 0.5	40	2.36	37.5	15	80	2670	4.59	< 10	< 1	0.47	10	1.01	1005	64
H588743	299	229	2.0	0.66	200	40	< 0.5	4	1.21	1.0	17	136	1345	4.94	< 10	< 1	0.27	10	0.38	560	94
H588744	299	229	1.0	0.91	< 2	190	< 0.5	< 2	1.66	< 0.5	13	141	1275	1.72	< 10	< 1	0.28	20	0.48	140	11
H588745	299	229	4.2	0.38	130	50	< 0.5	< 2	2.10	0.5	12	85	1700	2.71	< 10	< 1	0.16	10	0.52	390	114
H588746	299	229	0.6	0.78	< 2	180	< 0.5	< 2	2.06	< 0.5	15	128	917	1.58	< 10	< 1	0.27	20	0.35	155	32
H588747	299	229	6.2	0.45	76	130	< 0.5	< 2	2.07	0.5	16	114	1720	1.71	< 10	< 1	0.20	10	0.33	425	24
H588748	299	229	1.6	1.06	2	270	< 0.5	< 2	2.10	< 0.5	13	143	2600	1.49	< 10	< 1	0.28	20	0.39	150	28
H588749	299	229	0.8	1.20	< 2	100	< 0.5	< 2	1.33	< 0.5	11	102	1170	1.96	< 10	< 1	0.14	20	0.76	130	3
H588750	299	229	5.2	1.21	12	90	< 0.5	18	2.57	< 0.5	16	120	4100	2.63	< 10	< 1	0.27	10	0.48	340	42
H588751	299	229	1.2	0.94	10	240	< 0.5	< 2	2.45	< 0.5	10	106	1755	1.49	< 10	< 1	0.19	30	0.41	210	68
H588752	299	229	0.6	1.12	< 2	220	< 0.5	< 2	1.64	< 0.5	10	134	800	1.60	< 10	< 1	0.21	20	0.45	105	21
H588753	299	229	0.6	0.85	12	190	< 0.5	< 2	1.77	< 0.5	16	153	1180	1.47	< 10	< 1	0.15	20	0.36	95	45
H588754	299	229	1.0	1.60	< 2	160	< 0.5	< 2	2.55	0.5	20	131	1850	2.59	< 10	< 1	0.31	20	0.78	155	42
H588755	299	229	0.6	1.78	< 2	170	< 0.5	< 2	2.48	< 0.5	15	120	1925	2.53	< 10	< 1	0.57	20	1.15	125	77
H588756	299	229	1.0	2.75	< 2	120	< 0.5	< 2	2.04	< 0.5	18	120	2010	3.42	< 10	< 1	1.03	10	1.80	155	20
H588757	299	229	0.8	2.99	< 2	110	< 0.5	< 2	1.89	< 0.5	21	107	1545	3.85	< 10	< 1	0.98	10	2.12	215	4
H588758	299	229	1.2	2.02	< 2	280	< 0.5	2	1.68	< 0.5	21	104	1970	2.20	< 10	< 1	0.57	10	1.03	165	16
H588759	299	229	0.6	1.25	< 2	230	< 0.5	< 2	1.55	< 0.5	12	155	1025	1.63	< 10	< 1	0.25	20	0.43	120	43
H588760	299	229	1.0	2.07	6	150	< 0.5	< 2	2.46	< 0.5	17	67	1065	3.15	< 10	< 1	0.66	10	1.35	200	8
H588761	299	229	2.8	2.39	28	250	< 0.5	16	2.47	0.5	14	84	1915	3.17	< 10	< 1	0.45	20	0.99	240	74
H588762	299	229	0.4	1.18	< 2	170	< 0.5	< 2	2.13	< 0.5	20	77	917	2.30	< 10	< 1	0.30	20	0.57	130	14
H588763	299	229	0.8	1.07	44	80	< 0.5	< 2	2.18	< 0.5	14	69	889	1.70	< 10	< 1	0.17	20	0.55	195	11
H588764	299	229	0.2	0.43	18	110	< 0.5	< 2	2.07	< 0.5	21	66	1200	2.10	< 10	< 1	0.08	20	0.58	175	10
H588765	299	229	0.6	0.46	20	210	< 0.5	< 2	1.21	< 0.5	19	40	1560	1.82	< 10	< 1	0.08	20	0.36	140	60
H588766	299	229	0.4	0.98	12	240	< 0.5	< 2	2.57	< 0.5	14	60	991	1.37	< 10	< 1	0.25	10	0.35	105	14
H588767	299	229	0.2	0.65	18	60	< 0.5	< 2	1.19	< 0.5	13	85	805	1.05	< 10	< 1	0.18	10	0.36	120	22
H588768	299	229	1.8	0.38	50	90	< 0.5	< 2	1.29	< 0.5	17	39	1975	1.80	< 10	< 1	0.11	10	0.42	215	54
H588769	299	229	0.8	1.53	20	90	< 0.5	< 2	1.52	0.5	24	44	2550	2.71	< 10	< 1	0.09	20	0.49	240	31
H588770	299	229	0.6	0.74	34	150	< 0.5	< 2	1.89	0.5	21	38	2610	2.87	< 10	< 1	0.06	20	0.64	270	25
H588771	299	229	0.6	0.69	50	140	< 0.5	< 2	1.69	< 0.5	19	51	2410	1.96	< 10	< 1	0.09	20	0.61	225	377

CERTIFICATION: Brian Bradley

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CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588732	299	229	0.07	23	470	< 2	4	12	197	0.10	< 10	< 10	97	< 10	28
H588733	299	229	0.09	24	470	8	2	9	77	0.14	< 10	< 10	82	< 10	32
H588734	299	229	0.06	10	430	2	< 2	6	68	0.09	< 10	< 10	63	< 10	14
H588735	299	229	0.04	7	550	2	< 2	9	101	0.11	< 10	< 10	88	< 10	20
H588736	299	229	0.04	3	520	8	6	8	219	0.04	< 10	< 10	62	< 10	20
H588737	299	229	0.05	3	440	12	4	7	130	0.09	< 10	< 10	59	< 10	14
H588738	299	229	0.04	3	290	4	< 2	4	158	< 0.01	< 10	< 10	26	< 10	8
H588739	299	229	0.03	2	330	18	20	2	233	< 0.01	< 10	< 10	11	< 10	46
H588740	299	229	0.07	3	390	14	2	6	113	0.01	< 10	< 10	42	< 10	18
H588741	299	229	0.04	4	460	2	< 2	8	105	0.02	< 10	< 10	58	< 10	24
H588742	299	229	0.02	2	930	1240	696	7	113	< 0.01	< 10	< 10	46	10	1835
H588743	299	229	0.01	2	380	26	34	1	27	< 0.01	< 10	< 10	13	10	46
H588744	299	229	0.05	3	460	14	4	2	87	< 0.01	< 10	< 10	21	< 10	22
H588745	299	229	0.01	2	480	30	44	1	37	< 0.01	< 10	10	8	< 10	58
H588746	299	229	0.03	3	480	6	4	1	56	< 0.01	< 10	< 10	11	< 10	8
H588747	299	229	0.01	2	530	56	36	1	48	< 0.01	< 10	10	6	< 10	60
H588748	299	229	0.04	2	560	8	2	2	73	< 0.01	< 10	< 10	19	< 10	18
H588749	299	229	0.03	3	580	< 2	< 2	3	54	< 0.01	< 10	< 10	34	< 10	18
H588750	299	229	0.02	3	590	28	< 2	3	71	< 0.01	< 10	< 10	22	< 10	24
H588751	299	229	0.01	4	540	8	2	3	63	< 0.01	< 10	< 10	20	< 10	32
H588752	299	229	0.05	2	350	6	< 2	3	166	< 0.01	< 10	< 10	25	< 10	14
H588753	299	229	0.03	6	350	4	2	2	197	< 0.01	< 10	< 10	17	< 10	10
H588754	299	229	0.04	3	680	4	< 2	6	357	0.02	< 10	< 10	45	< 10	16
H588755	299	229	0.04	3	750	4	< 2	8	199	0.06	< 10	< 10	65	< 10	10
H588756	299	229	0.14	6	870	< 2	2	14	122	0.18	< 10	< 10	129	< 10	16
H588757	299	229	0.14	4	910	2	< 2	15	101	0.22	< 10	< 10	150	< 10	24
H588758	299	229	0.05	3	650	6	2	7	83	0.04	< 10	< 10	62	< 10	14
H588759	299	229	0.04	4	360	4	< 2	2	81	< 0.01	< 10	< 10	19	< 10	8
H588760	299	229	0.07	3	800	4	4	10	207	0.10	< 10	< 10	81	< 10	20
H588761	299	229	0.02	< 1	710	26	18	10	97	0.03	< 10	< 10	63	< 10	82
H588762	299	229	0.03	1	390	2	2	8	192	0.02	< 10	< 10	34	< 10	10
H588763	299	229	< 0.01	2	390	30	10	6	27	< 0.01	< 10	10	22	< 10	36
H588764	299	229	< 0.01	4	480	18	2	11	25	< 0.01	< 10	< 10	35	< 10	12
H588765	299	229	< 0.01	3	470	16	< 2	8	22	< 0.01	< 10	< 10	26	< 10	10
H588766	299	229	0.04	2	310	8	2	2	103	< 0.01	< 10	< 10	13	< 10	6
H588767	299	229	< 0.01	2	230	10	8	1	16	< 0.01	< 10	10	8	< 10	8
H588768	299	229	< 0.01	1	410	18	12	4	21	< 0.01	< 10	< 10	13	< 10	20
H588769	299	229	< 0.01	2	1270	4	8	14	22	< 0.01	< 10	< 10	57	< 10	8
H588770	299	229	< 0.01	3	1100	14	4	13	26	< 0.01	< 10	< 10	61	< 10	16
H588771	299	229	< 0.01	2	880	14	12	7	24	< 0.01	< 10	10	31	< 10	12

CERTIFICATION: Ian H Bachan

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CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588772	299	229	0.6	1.05	26	310	< 0.5	< 2	1.79	< 0.5	14	104	1890	1.28	< 10	< 1	0.19	20	0.36	120	28
H588773	299	229	0.6	0.30	70	270	< 0.5	< 2	0.81	< 0.5	9	71	1370	0.80	< 10	< 1	0.13	10	0.26	95	61
H588774	299	229	0.6	0.72	124	260	< 0.5	< 2	0.79	< 0.5	11	127	1380	0.95	< 10	< 1	0.24	20	0.29	115	118
H588775	299	229	0.8	0.32	110	210	< 0.5	< 2	0.71	0.5	12	61	1215	0.91	< 10	< 1	0.12	10	0.27	90	26
H588776	299	229	0.4	0.75	40	210	< 0.5	< 2	1.09	1.0	11	103	1190	0.98	< 10	< 1	0.24	10	0.20	55	13
H588777	299	229	0.2	0.32	20	170	< 0.5	< 2	1.27	< 0.5	11	81	973	1.02	< 10	< 1	0.15	20	0.22	60	16
H588778	299	229	0.6	0.81	2	170	< 0.5	< 2	1.48	0.5	13	112	1165	1.30	< 10	< 1	0.31	10	0.51	115	16
H588779	299	229	2.2	0.85	4	110	< 0.5	< 2	1.66	0.5	15	51	2410	1.96	< 10	< 1	0.33	10	0.75	210	42
H588780	299	229	0.8	1.09	8	150	< 0.5	< 2	1.90	< 0.5	13	109	1615	1.47	< 10	< 1	0.38	20	0.58	100	170
H588781	299	229	0.2	0.84	< 2	100	< 0.5	< 2	1.28	0.5	11	59	1230	1.39	< 10	< 1	0.23	20	0.55	65	19
H588782	299	229	0.4	1.70	< 2	170	< 0.5	< 2	1.39	< 0.5	21	148	1515	2.65	< 10	< 1	0.65	20	1.06	110	28
H588783	299	229	0.6	1.56	2	190	< 0.5	< 2	1.23	< 0.5	23	80	1740	2.46	< 10	< 1	0.68	10	1.13	110	44
H588784	299	229	0.6	1.69	< 2	150	< 0.5	< 2	1.59	< 0.5	14	160	1070	2.06	< 10	< 1	0.41	10	0.91	145	14
H588785	299	229	0.2	1.69	< 2	190	< 0.5	< 2	1.47	< 0.5	14	83	770	2.34	< 10	< 1	0.65	10	1.01	125	18
H588786	299	229	< 0.2	2.02	< 2	220	< 0.5	< 2	1.15	< 0.5	19	142	736	3.12	< 10	< 1	0.64	10	1.19	165	20
H588787	299	229	0.4	1.73	2	120	< 0.5	< 2	1.39	< 0.5	22	58	1470	3.03	< 10	< 1	0.63	10	1.31	135	31
H588788	299	229	0.4	1.73	8	120	< 0.5	< 2	1.91	< 0.5	14	150	1745	2.75	< 10	< 1	0.76	10	1.19	135	50
H588789	299	229	0.4	2.02	< 2	110	< 0.5	< 2	1.34	< 0.5	16	63	1205	3.51	< 10	< 1	0.79	10	1.56	145	39
H588790	299	229	0.8	2.20	< 2	60	< 0.5	< 2	2.13	0.5	27	122	1625	4.59	< 10	< 1	0.93	10	1.48	210	15
H588791	299	229	0.8	1.74	4	100	< 0.5	< 2	1.97	< 0.5	16	71	1195	3.06	< 10	< 1	0.63	10	1.24	185	67
H588792	299	229	0.6	1.99	10	140	< 0.5	10	1.47	< 0.5	24	145	1915	3.26	< 10	< 1	1.02	< 10	1.58	150	37
H588793	299	229	0.6	1.66	2	160	< 0.5	< 2	1.40	< 0.5	15	73	1680	2.77	< 10	< 1	0.79	< 10	1.36	120	214
H588794	299	229	0.8	1.79	4	190	< 0.5	< 2	1.31	< 0.5	17	156	1320	3.05	< 10	< 1	0.82	< 10	1.40	165	119
H588795	299	229	0.2	1.51	2	210	< 0.5	< 2	1.36	< 0.5	15	79	1455	2.27	< 10	< 1	0.63	10	1.23	105	57
H588796	299	229	4.8	1.99	14	220	< 0.5	< 2	2.09	1.0	17	101	2100	2.60	< 10	< 1	0.81	10	1.18	130	84
H588797	299	229	0.8	1.08	4	220	< 0.5	< 2	1.72	0.5	16	54	1740	1.69	< 10	< 1	0.50	20	0.67	85	76
H588798	299	229	0.4	1.04	< 2	170	< 0.5	< 2	1.65	< 0.5	10	107	1250	1.45	< 10	< 1	0.35	30	0.54	80	62
H588799	299	229	1.2	1.53	2	300	< 0.5	< 2	2.21	< 0.5	15	76	1695	2.14	< 10	< 1	0.78	10	1.11	115	55
H588800	299	229	1.2	2.11	< 2	230	< 0.5	< 2	2.54	0.5	12	116	2710	2.37	< 10	< 1	1.03	20	1.32	110	64
H588801	299	229	0.6	2.16	4	120	< 0.5	< 2	1.86	< 0.5	17	130	1385	3.15	< 10	< 1	1.32	10	1.71	165	65
H588802	299	229	0.2	2.88	2	150	< 0.5	< 2	2.02	< 0.5	16	106	970	4.05	< 10	< 1	1.41	10	2.10	305	36
H588803	299	229	0.2	3.09	2	150	< 0.5	< 2	3.01	< 0.5	15	31	1160	3.84	< 10	< 1	1.57	10	2.19	260	76
H588804	299	229	2.6	3.08	< 2	300	< 0.5	< 2	2.39	0.5	14	73	1485	3.78	< 10	< 1	1.31	10	1.90	250	51
H588805	299	229	0.8	1.90	8	220	< 0.5	< 2	1.72	< 0.5	15	44	1840	2.94	< 10	< 1	0.91	20	1.35	185	63
H588806	299	229	0.6	2.64	< 2	200	< 0.5	< 2	3.11	< 0.5	14	69	1275	3.41	< 10	< 1	1.20	10	1.70	245	125
H588807	299	229	0.4	2.52	< 2	300	< 0.5	< 2	3.88	< 0.5	20	52	1010	3.90	< 10	< 1	1.21	20	1.61	325	8
H588808	299	229	0.2	2.57	2	520	< 0.5	< 2	3.31	< 0.5	12	89	950	3.50	< 10	< 1	1.15	20	1.66	300	67
H588809	299	229	0.6	1.42	4	340	< 0.5	< 2	2.60	< 0.5	15	52	1195	2.58	< 10	< 1	0.71	20	0.99	165	163
H588810	299	229	0.4	2.23	4	390	< 0.5	< 2	1.91	< 0.5	11	102	976	3.44	< 10	< 1	0.96	20	1.34	225	120
H588811	299	229	0.2	0.46	12	160	< 0.5	< 2	1.36	< 0.5	6	218	825	0.81	< 10	< 1	0.18	20	0.11	45	48

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-B
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Certificate Date: 20-OCT-93
Invoice No. :I9322812
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588772	299	229	0.01	3	300	10	< 2	5	43	< 0.01	< 10	< 10	14	< 10	12
H588773	299	229	< 0.01	< 1	180	14	8	< 1	13	< 0.01	< 10	10	2	< 10	6
H588774	299	229	< 0.01	< 1	200	18	18	< 1	16	< 0.01	< 10	10	4	< 10	18
H588775	299	229	< 0.01	1	240	26	34	< 1	12	< 0.01	< 10	10	2	< 10	32
H588776	299	229	0.01	1	280	46	6	1	19	< 0.01	< 10	< 10	4	< 10	100
H588777	299	229	0.01	3	280	16	2	1	33	< 0.01	< 10	10	4	< 10	22
H588778	299	229	0.02	3	310	16	2	2	169	< 0.01	< 10	10	18	< 10	20
H588779	299	229	0.02	1	360	28	2	5	127	0.01	< 10	< 10	35	< 10	50
H588780	299	229	0.03	1	360	4	2	6	40	0.01	< 10	< 10	39	< 10	14
H588781	299	229	0.03	2	310	6	2	4	52	0.01	< 10	< 10	31	< 10	12
H588782	299	229	0.07	5	500	< 2	< 2	10	85	0.09	< 10	< 10	75	< 10	14
H588783	299	229	0.05	6	410	4	2	10	91	0.10	< 10	< 10	76	< 10	14
H588784	299	229	0.06	8	410	20	< 2	5	63	0.02	< 10	< 10	49	< 10	34
H588785	299	229	0.05	5	470	6	< 2	10	44	0.08	< 10	< 10	66	< 10	14
H588786	299	229	0.11	4	610	6	< 2	11	56	0.10	< 10	< 10	86	< 10	22
H588787	299	229	0.06	2	800	6	2	10	65	0.10	< 10	< 10	90	< 10	16
H588788	299	229	0.10	2	740	< 2	2	10	86	0.13	< 10	< 10	94	< 10	12
H588789	299	229	0.09	2	940	2	4	12	62	0.21	< 10	< 10	121	< 10	18
H588790	299	229	0.10	3	830	2	< 2	12	89	0.14	< 10	< 10	108	< 10	26
H588791	299	229	0.07	6	630	14	2	10	84	0.10	< 10	< 10	85	< 10	24
H588792	299	229	0.09	8	800	12	< 2	14	48	0.20	< 10	< 10	115	< 10	18
H588793	299	229	0.06	3	640	4	2	10	46	0.17	< 10	< 10	98	< 10	16
H588794	299	229	0.10	4	560	6	2	13	43	0.18	< 10	< 10	103	< 10	38
H588795	299	229	0.06	4	480	12	4	16	48	0.12	< 10	10	83	< 10	12
H588796	299	229	0.08	6	550	212	12	19	69	0.12	< 10	< 10	88	< 10	72
H588797	299	229	0.04	4	430	18	< 2	10	68	0.06	< 10	< 10	55	< 10	24
H588798	299	229	0.06	2	390	6	4	5	78	0.03	< 10	< 10	43	< 10	20
H588799	299	229	0.06	5	530	8	4	13	68	0.13	< 10	< 10	83	< 10	22
H588800	299	229	0.08	5	640	2	< 2	18	113	0.16	< 10	< 10	102	< 10	12
H588801	299	229	0.11	4	530	2	4	20	89	0.22	< 10	< 10	133	< 10	18
H588802	299	229	0.16	6	900	< 2	< 2	23	106	0.27	< 10	< 10	170	< 10	30
H588803	299	229	0.15	3	1250	4	4	19	216	0.28	< 10	< 10	178	< 10	22
H588804	299	229	0.20	4	1180	6	2	16	156	0.27	< 10	< 10	154	< 10	38
H588805	299	229	0.09	2	920	< 2	< 2	12	97	0.19	< 10	< 10	113	< 10	16
H588806	299	229	0.12	3	1000	14	< 2	16	148	0.21	< 10	< 10	139	< 10	24
H588807	299	229	0.09	4	1210	4	2	16	291	0.19	< 10	< 10	118	< 10	26
H588808	299	229	0.11	3	1280	< 2	< 2	13	162	0.19	< 10	< 10	119	< 10	22
H588809	299	229	0.06	3	840	6	4	12	89	0.12	< 10	< 10	87	< 10	16
H588810	299	229	0.12	3	1200	18	4	12	152	0.17	< 10	< 10	100	< 10	38
H588811	299	229	0.06	3	110	14	4	1	87	< 0.01	< 10	10	6	< 10	6

CERTIFICATION: David Bradley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 217
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Page Number :5-A
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Certificate Date: 20-OCT-93
Invoice No. :I9322812
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CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588812	299	229	0.4	0.70	6	210	< 0.5	< 2	2.77	< 0.5	6	209	1375	1.00	< 10	< 1	0.25	20	0.15	70	39
H588813	299	229	0.2	0.69	12	230	< 0.5	< 2	2.16	< 0.5	7	300	820	0.99	< 10	< 1	0.25	20	0.14	70	32
H588814	299	229	1.0	1.48	6	270	< 0.5	8	2.19	< 0.5	9	150	1440	1.94	< 10	< 1	0.64	20	0.70	110	151
H588815	299	229	1.8	2.44	10	280	< 0.5	2	2.84	< 0.5	17	122	2880	3.15	< 10	< 1	1.10	20	1.31	175	42
H588816	299	229	0.2	2.74	< 2	220	< 0.5	< 2	2.05	< 0.5	13	93	1500	3.60	< 10	< 1	1.40	10	1.80	185	23
H588817	299	229	0.4	2.55	< 2	340	< 0.5	< 2	1.51	< 0.5	13	197	1065	3.24	< 10	< 1	1.26	20	1.57	160	158
H588818	299	229	41.4	1.75	1735	30	< 0.5	12	2.49	>100.0	7	110	1995	6.93	< 10	< 1	0.61	10	0.55	610	128
H588819	299	229	11.2	2.39	364	80	< 0.5	16	2.52	18.0	11	141	2020	3.64	< 10	< 1	1.02	10	0.92	455	457
H588820	299	229	1.0	2.80	< 2	380	< 0.5	< 2	1.86	0.5	12	89	1640	3.72	< 10	< 1	1.29	20	1.70	215	54
H588821	299	229	0.6	3.21	< 2	170	< 0.5	< 2	2.02	0.5	16	135	1985	4.06	< 10	< 1	1.40	10	1.97	245	63
H588822	299	229	0.4	3.64	< 2	190	< 0.5	< 2	2.18	0.5	21	90	1455	4.61	< 10	< 1	1.32	< 10	2.20	315	17
H588823	299	229	1.2	3.40	< 2	110	< 0.5	< 2	2.15	0.5	22	39	1750	4.48	< 10	< 1	1.69	< 10	2.78	300	47
H588824	299	229	0.8	2.95	< 2	300	< 0.5	< 2	1.71	0.5	19	84	1910	3.96	< 10	< 1	1.33	10	2.03	205	67
H588825	299	229	0.4	2.40	< 2	510	< 0.5	< 2	1.16	< 0.5	15	140	938	3.07	< 10	< 1	1.16	10	1.98	185	34
H588826	299	229	0.4	3.05	< 2	450	< 0.5	< 2	1.36	< 0.5	19	252	1390	3.21	< 10	< 1	1.50	< 10	2.69	190	83
H588827	299	229	< 0.2	2.37	4	150	< 0.5	8	1.73	< 0.5	16	156	573	2.96	< 10	< 1	1.12	< 10	2.02	190	32
H588828	299	229	0.2	2.71	4	260	< 0.5	< 2	2.10	< 0.5	15	226	942	3.07	< 10	< 1	1.26	10	2.22	225	16
H588829	299	229	0.2	1.86	< 2	150	< 0.5	< 2	1.73	< 0.5	11	97	1150	2.93	< 10	< 1	1.07	10	1.62	155	73
H588830	299	229	1.4	3.07	8	170	< 0.5	< 2	3.45	< 0.5	15	153	1925	3.09	< 10	< 1	0.98	10	1.98	180	82
H588831	299	229	0.6	2.46	< 2	270	< 0.5	2	1.89	< 0.5	16	162	1705	3.03	< 10	< 1	0.92	10	1.42	165	61
H588832	299	229	0.6	2.87	6	320	< 0.5	2	1.91	1.0	17	103	1470	3.60	< 10	< 1	1.08	10	2.08	260	31
H588833	299	229	0.2	2.97	4	220	< 0.5	< 2	2.09	< 0.5	16	111	1090	3.67	< 10	< 1	0.92	20	1.81	225	35
H588834	299	229	0.2	2.83	4	270	< 0.5	< 2	2.60	0.5	19	90	868	3.52	< 10	< 1	0.68	10	1.76	200	92
H588835	299	229	< 0.2	2.70	4	330	< 0.5	< 2	2.15	< 0.5	17	119	527	3.17	< 10	< 1	0.82	< 10	1.72	240	55
H588836	299	229	< 0.2	2.27	4	320	< 0.5	< 2	1.63	< 0.5	17	133	555	3.17	< 10	< 1	0.77	10	1.53	210	11
H588837	299	229	0.4	2.73	2	170	< 0.5	< 2	1.98	< 0.5	17	184	1120	3.62	< 10	< 1	1.40	10	2.15	200	57
H588838	299	229	< 0.2	2.61	2	210	< 0.5	< 2	1.73	< 0.5	15	119	668	3.35	< 10	< 1	1.22	20	2.05	210	28

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 217
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Pay Number :5-B
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CERTIFICATE OF ANALYSIS A9322812

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588812	299	229	0.05	5	140	24	2	1	122	< 0.01	< 10	< 10	8	< 10	16
H588813	299	229	0.07	4	140	12	2	1	92	< 0.01	< 10	< 10	8	< 10	8
H588814	299	229	0.10	3	550	6	4	7	96	0.08	< 10	< 10	52	< 10	14
H588815	299	229	0.11	7	920	8	< 2	13	123	0.14	< 10	< 10	102	< 10	20
H588816	299	229	0.16	5	1050	< 2	4	15	109	0.24	< 10	< 10	127	< 10	16
H588817	299	229	0.14	18	490	2	< 2	14	72	0.23	< 10	< 10	104	< 10	18
H588818	299	229	0.04	10	350	3050	166	7	50	0.04	< 10	< 10	43	< 10	4970
H588819	299	229	0.12	6	1100	384	24	11	85	0.12	< 10	< 10	80	< 10	762
H588820	299	229	0.15	4	1700	14	2	14	96	0.22	< 10	< 10	109	< 10	38
H588821	299	229	0.23	6	1420	12	4	17	116	0.28	< 10	< 10	143	< 10	28
H588822	299	229	0.27	8	1340	< 2	< 2	13	132	0.29	< 10	< 10	157	< 10	34
H588823	299	229	0.17	5	1330	< 2	4	15	110	0.32	< 10	< 10	170	< 10	34
H588824	299	229	0.17	5	1280	8	2	15	131	0.27	< 10	< 10	141	< 10	24
H588825	299	229	0.12	18	930	< 2	2	13	65	0.23	< 10	10	113	< 10	22
H588826	299	229	0.18	31	730	< 2	2	18	220	0.24	< 10	< 10	136	< 10	24
H588827	299	229	0.12	27	800	4	< 2	13	89	0.27	< 10	< 10	115	< 10	28
H588828	299	229	0.22	28	780	< 2	< 2	15	96	0.26	< 10	< 10	122	< 10	28
H588829	299	229	0.10	8	630	8	< 2	16	90	0.26	< 10	< 10	128	< 10	18
H588830	299	229	0.13	11	710	4	4	20	121	0.26	< 10	< 10	134	< 10	26
H588831	299	229	0.17	6	1000	4	< 2	13	121	0.18	< 10	< 10	117	< 10	20
H588832	299	229	0.16	13	1030	10	< 2	16	127	0.26	< 10	< 10	144	< 10	92
H588833	299	229	0.20	7	1290	8	2	13	120	0.23	< 10	< 10	118	< 10	28
H588834	299	229	0.17	16	870	14	< 2	13	122	0.21	< 10	< 10	112	< 10	44
H588835	299	229	0.24	16	960	4	< 2	10	142	0.23	< 10	< 10	111	< 10	26
H588836	299	229	0.21	12	650	2	< 2	10	89	0.22	< 10	< 10	99	< 10	24
H588837	299	229	0.20	12	860	< 2	2	17	96	0.27	< 10	< 10	151	< 10	26
H588838	299	229	0.16	11	880	< 2	< 2	17	198	0.24	< 10	< 10	133	< 10	26

CERTIFICATION:

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Page Number :1
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CERTIFICATE OF ANALYSIS A9322838

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
589032	208 274	0.05	0.013	0.24	6460
589033	208 274	0.03	0.013	0.24	6700
589034	208 274	0.05	0.013	0.21	7160
589035	208 274	0.05	0.019	0.31	5880
589036	208 274	0.04	0.011	0.24	3720
589037	208 276	0.11	0.013	0.24	8080
589038	208 276	0.17	0.023	0.27	7660
589039	208 276	0.33	0.027	0.31	8060
589040	208 276	0.70	0.018	0.34	11060
589041	208 276	0.66	0.022	0.34	8620
589042	208 276	0.34	0.009	0.14	8480
589043	208 276	0.24	0.014	0.24	9780
589044	208 274	0.15	0.011	0.14	7260
589045	208 276	0.38	0.006	0.41	11400
589046	208 276	0.57	0.003	0.55	9640
589047	208 276	0.44	0.014	0.41	9700
589048	208 276	0.35	0.009	0.31	8460
589049	208 276	0.27	0.010	0.31	10600
589050	208 276	0.32	0.008	0.62	10640
589051	208 276	0.19	0.015	0.24	8460
589052	208 276	0.25	0.014	0.27	11620
589053	208 276	0.20	0.028	0.45	11580
589054	208 273	0.32	0.021	0.45	12340
589055	208 276	0.36	0.013	0.38	10000
589056	208 276	0.20	0.018	0.24	11320
589057	208 276	0.50	0.024	0.62	11520
589058	208 273	0.29	0.009	0.31	12740
589059	208 276	0.39	0.029	0.48	9060
589060	208 276	0.19	0.008	0.24	11680
589061	208 276	0.17	0.020	0.17	9740
589062	208 276	0.52	0.026	0.62	11420
589063	208 273	0.62	0.035	0.69	13000
589064	208 273	0.55	0.006	0.62	14160
589065	208 273	0.30	0.031	0.41	13700
589066	208 273	0.52	0.005	0.65	13920
589067	208 273	0.27	0.006	0.24	13300
589068	208 273	0.42	0.009	0.45	14240
589069	208 273	0.26	0.009	0.24	13900
589070	208 273	0.12	0.003	0.14	14580
589071	208 273	0.24	0.017	0.31	14220

CERTIFICATION: _____

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589072	208	273	0.17	0.018	0.17	13380
589073	208	273	0.18	0.019	0.17	14080
589074	208	273	0.15	0.015	0.14	14080
589075	208	273	0.11	0.019	0.10	13000
589076	208	273	0.18	0.024	0.21	12820
589077	208	273	0.15	0.010	0.17	15440
589078	208	273	0.32	0.018	0.38	14620
589079	208	273	0.22	0.038	0.31	13540
589080	208	273	0.14	0.012	0.21	12880
589081	208	273	0.11	0.011	0.10	13580
589082	208	273	0.23	0.009	0.21	14220
589083	208	273	0.38	0.017	0.41	13780
589084	208	273	0.18	0.009	0.14	14000
589085	208	273	0.12	0.012	0.10	12400
589086	208	273	0.09	0.015	0.10	12160
589087	208	273	0.16	0.007	0.17	12360
589088	208	273	0.21	0.017	0.38	14060
589089	208	273	0.09	0.028	0.10	13900
589090	208	273	0.12	0.059	0.14	12920
589091	208	276	0.11	0.028	0.14	11400
589092	208	273	0.13	0.012	0.17	12500
589093	208	273	0.10	0.014	0.10	12520
589094	208	273	0.15	0.033	0.17	13260
589095	208	273	0.16	0.034	0.17	12900
589096	208	273	0.10	0.075	0.17	13600
589097	208	276	0.15	0.019	0.17	10180
589098	208	276	0.21	0.020	0.31	9180
589099	208	276	0.23	0.012	0.21	8900
589100	208	273	0.21	0.023	0.24	12720
589101	208	273	0.22	0.013	0.24	13000
589102	208	276	0.34	0.028	0.31	11600
589103	208	273	0.17	0.045	0.14	13840
589104	208	273	0.14	0.023	0.14	13200
589105	208	273	0.13	0.016	0.10	12860
589106	208	273	0.10	0.035	0.10	12580
589107	208	273	0.13	0.015	0.14	13160
589108	208	273	0.15	0.009	0.21	11880
589109	208	273	0.13	0.008	0.10	12540
589110	208	273	0.09	0.032	0.07	12680
589111	208	273	0.09	0.017	0.10	13900

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 218
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
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Invoice No. :19322838
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Account :FC

CERTIFICATE OF ANALYSIS A9322838

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
589112	208	273	0.17	0.025	0.24	13800
589113	208	273	0.12	0.029	0.10	12020
589114	208	273	0.12	0.074	0.14	13260
589115	208	273	0.15	0.091	0.10	12820
589116	208	273	0.15	0.027	0.10	13180
589117	208	273	0.09	0.009	0.07	14200
589118	208	273	0.14	0.026	0.14	12200
589119	208	273	0.14	0.009	0.10	12080
589120	208	273	0.13	0.110	0.10	12000
589121	208	273	0.22	0.014	0.24	12820
589122	208	276	0.10	0.022	0.10	10740
589123	208	276	0.06	0.035	0.07	11500
589124	208	273	0.06	0.158	0.07	12160
589125	208	276	0.06	0.013	0.03	11360
589126	208	273	0.13	0.029	0.14	13100
589127	208	273	0.18	0.043	0.21	13480
589128	208	273	0.15	0.027	0.17	12400
589129	208	273	0.12	0.028	0.10	12960
589130	208	273	0.25	0.032	0.21	13120
589131	208	273	0.08	0.040	0.07	11980
589132	208	273	0.12	0.037	0.10	12200
589133	208	273	0.09	0.021	0.07	11920
589134	208	273	0.03	0.087	0.03	12260
589135	208	276	0.05	0.136	0.03	11740
589136	208	276	0.06	0.022	0.07	10500
589137	208	276	0.05	0.070	0.07	11600
589138	208	276	0.05	0.029	0.07	11000
589139	208	276	0.06	0.063	0.03	10800
589140	208	273	0.06	0.049	0.07	12640
589141	208	276	0.05	0.078	0.03	11680
589142	208	273	0.05	0.028	0.03	11860
589143	208	273	0.06	0.027	0.10	12340
589144	208	276	0.05	0.051	0.07	11400
589145	208	273	0.06	0.029	0.03	12160
589146	208	273	0.06	0.052	0.07	12120
589147	208	273	0.08	0.025	0.07	12600
589148	208	273	0.14	0.031	0.10	12600
589149	208	276	0.07	0.060	0.07	11800
589150	208	276	0.08	0.060	0.07	11620
589151	208	276	0.10	0.039	0.03	11400

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CERTIFICATE OF ANALYSIS A9322838

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
589152	208	276	0.08	0.049	0.10	8100
589153	208	273	0.07	0.074	0.07	11860
589154	208	273	0.07	0.065	0.10	12420
589155	208	273	0.08	0.052	0.10	12140
589156	208	276	0.14	0.025	0.10	11500
589157	208	270	0.09	0.017	0.07	18760
589158	208	276	0.12	0.012	0.10	8400
589159	208	276	0.07	0.008	0.07	7840
589160	208	273	0.07	0.040	0.10	11940
589161	208	276	0.10	0.016	0.07	11340
589162	208	273	0.16	0.199	0.07	12120
589163	208	276	0.09	0.080	0.03	10600
589164	208	276	0.09	0.019	0.10	11360
589165	208	273	0.09	0.028	0.07	11920
589166	208	273	0.08	0.098	0.07	12060
589167	208	273	0.08	0.020	0.07	12580
589168	208	276	0.06	0.039	0.03	10980

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Certificate Date: 21-OCT-93
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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322839

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589032	299	229	2.8	2.66	72	470	< 0.5	< 2	0.17	0.5	23	110	476	4.03	< 10	< 1	0.31	20	0.54	430	79
589033	299	229	0.4	4.19	12	250	< 0.5	< 2	0.10	< 0.5	9	97	315	2.60	10	< 1	0.53	30	1.12	185	77
589034	299	229	0.4	5.80	12	760	0.5	< 2	0.14	< 0.5	8	85	499	3.57	10	< 1	0.63	40	1.55	195	81
589035	299	229	1.2	3.81	8	1250	0.5	< 2	0.15	< 0.5	7	108	506	3.34	10	< 1	0.58	30	1.02	150	117
589036	299	229	0.8	3.10	20	630	0.5	< 2	0.18	< 0.5	3	97	360	2.09	< 10	< 1	0.41	20	0.73	70	76
589037	299	229	2.4	2.76	4	150	0.5	< 2	0.28	< 0.5	7	64	1215	2.36	10	< 1	0.40	40	0.93	85	87
589038	299	229	2.0	2.70	16	1170	1.0	< 2	0.30	< 0.5	9	173	1890	2.41	< 10	< 1	0.35	30	0.60	110	153
589039	299	229	1.2	1.44	8	400	1.0	< 2	0.24	1.5	9	128	3680	1.53	< 10	< 1	0.33	30	0.32	40	179
589040	299	229	1.0	1.68	12	190	1.0	< 2	0.32	3.0	16	156	7790	1.45	10	< 1	0.36	50	0.49	50	112
589041	299	229	0.8	1.72	8	140	1.0	< 2	0.23	2.0	20	131	7740	1.86	< 10	< 1	0.56	40	0.73	60	144
589042	299	229	0.6	1.78	6	160	0.5	< 2	0.26	1.5	14	168	3460	1.92	< 10	< 1	0.63	30	0.89	70	55
589043	299	229	0.8	2.03	4	300	0.5	< 2	0.46	0.5	14	93	2440	2.04	< 10	< 1	0.74	20	1.10	85	92
589044	299	229	0.6	4.15	12	490	0.5	< 2	1.51	0.5	19	57	1460	3.94	< 10	< 1	1.58	20	2.77	190	56
589045	299	229	1.2	4.86	< 2	150	1.0	< 2	1.10	3.0	32	44	3650	4.60	< 10	< 1	1.46	20	2.85	220	23
589046	299	229	1.2	6.02	8	180	0.5	< 2	1.88	4.0	30	36	5940	5.11	< 10	< 1	1.55	10	2.97	225	11
589047	299	229	1.6	2.50	< 2	130	< 0.5	< 2	0.57	1.5	20	80	4360	3.05	< 10	< 1	0.86	20	1.62	140	71
589048	299	229	1.2	2.91	6	210	< 0.5	< 2	0.57	1.0	28	60	3610	4.06	< 10	< 1	1.25	20	2.23	155	36
589049	299	229	1.0	3.07	< 2	320	< 0.5	< 2	0.52	1.0	19	126	2640	4.65	< 10	< 1	1.64	20	2.30	170	45
589050	299	229	3.4	2.23	48	110	< 0.5	22	2.54	< 0.5	22	76	3220	3.54	< 10	< 1	0.82	20	1.42	310	38
589051	299	229	2.2	1.09	12	80	< 0.5	2	0.90	0.5	12	113	1965	2.39	< 10	< 1	0.32	30	0.57	295	77
589052	299	229	2.2	1.85	10	240	< 0.5	< 2	1.53	< 0.5	17	132	2480	2.50	< 10	< 1	0.58	30	1.11	255	78
589053	299	229	3.0	1.23	48	100	< 0.5	< 2	1.53	< 0.5	12	84	2080	2.58	< 10	< 1	0.53	20	0.61	180	159
589054	299	229	5.6	3.31	18	120	< 0.5	< 2	2.93	3.0	20	32	3230	4.47	< 10	< 1	1.38	20	2.20	430	132
589055	299	229	4.4	1.83	30	320	< 0.5	< 2	3.85	0.5	14	67	4030	2.66	< 10	< 1	0.58	30	0.86	285	70
589056	299	229	2.8	1.49	26	180	< 0.5	< 2	5.20	< 0.5	16	78	2070	2.27	< 10	< 1	0.38	10	0.42	350	100
589057	299	229	2.6	3.22	18	240	< 0.5	< 2	2.82	< 0.5	32	36	5480	4.81	10	< 1	1.30	20	2.09	315	119
589058	299	229	2.4	3.47	18	190	< 0.5	4	1.90	< 0.5	17	50	3130	4.36	< 10	< 1	1.63	20	2.27	225	42
589059	299	229	2.4	1.75	8	160	< 0.5	< 2	1.66	< 0.5	16	106	4220	2.77	< 10	< 1	0.38	20	0.95	180	166
589060	299	229	1.2	1.68	10	150	< 0.5	< 2	1.14	< 0.5	15	153	1880	2.40	10	< 1	0.43	40	0.96	130	40
589061	299	229	1.0	1.53	6	130	< 0.5	< 2	1.17	< 0.5	13	110	1675	1.95	< 10	< 1	0.42	30	0.99	140	109
589062	299	229	5.2	2.00	16	210	< 0.5	< 2	1.66	< 0.5	14	148	5350	2.55	10	< 1	0.58	30	1.06	225	140
589063	299	229	6.0	2.41	56	40	< 0.5	4	2.51	< 0.5	24	80	6630	5.16	10	< 1	0.98	20	1.47	285	183
589064	299	229	3.0	3.46	2	120	< 0.5	< 2	2.92	< 0.5	23	82	5650	4.16	10	< 1	1.52	10	2.30	215	24
589065	299	229	1.8	2.55	14	160	< 0.5	< 2	1.55	< 0.5	26	101	2980	4.39	10	< 1	1.47	20	1.92	200	167
589066	299	229	4.4	3.21	12	80	< 0.5	< 2	2.73	< 0.5	29	119	5460	5.18	10	< 1	1.32	10	2.14	275	27
589067	299	229	1.8	3.62	12	120	< 0.5	< 2	3.07	< 0.5	21	165	2590	4.17	10	< 1	1.70	10	2.26	230	31
589068	299	229	4.4	2.83	36	240	< 0.5	< 2	3.52	< 0.5	19	63	4170	4.08	10	< 1	0.69	10	1.24	415	43
589069	299	229	1.6	3.23	18	170	< 0.5	< 2	3.19	< 0.5	20	85	2500	4.10	10	< 1	0.95	10	2.06	350	46
589070	299	229	1.2	4.31	4	130	< 0.5	< 2	3.18	< 0.5	23	91	1210	5.14	10	< 1	0.85	10	2.28	440	12
589071	299	229	1.6	3.46	6	160	< 0.5	< 2	2.61	< 0.5	21	61	2340	4.40	10	< 1	1.32	10	2.33	270	86

CERTIFICATION:

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 218
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
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CERTIFICATE OF ANALYSIS A9322839

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589032	299	229	0.03	6	490	84	38	7	35	0.04	< 10	< 10	57	< 10	76
589033	299	229	0.06	6	390	8	< 2	12	14	0.08	< 10	< 10	82	< 10	44
589034	299	229	0.02	8	450	14	4	18	19	0.13	< 10	< 10	115	< 10	58
589035	299	229	0.01	4	580	12	< 2	15	28	0.07	< 10	< 10	94	< 10	42
589036	299	229	0.03	2	510	6	2	8	23	0.02	< 10	< 10	63	< 10	32
589037	299	229	0.02	4	570	8	2	8	15	0.02	< 10	< 10	62	< 10	40
589038	299	229	0.01	4	420	14	6	8	33	0.01	< 10	< 10	51	< 10	48
589039	299	229	0.01	3	160	16	2	4	26	< 0.01	< 10	< 10	26	< 10	64
589040	299	229	0.02	6	140	8	< 2	7	23	0.01	< 10	< 10	38	< 10	86
589041	299	229	0.03	10	400	4	< 2	8	21	0.03	< 10	< 10	48	< 10	76
589042	299	229	0.04	12	380	22	< 2	8	21	0.05	< 10	< 10	51	< 10	100
589043	299	229	0.04	6	520	8	< 2	9	25	0.08	< 10	< 10	72	< 10	90
589044	299	229	0.13	11	410	< 2	4	28	48	0.21	< 10	< 10	191	< 10	112
589045	299	229	0.19	17	840	12	< 2	21	81	0.22	< 10	< 10	176	< 10	224
589046	299	229	0.40	17	1050	< 2	6	24	156	0.30	< 10	< 10	205	< 10	126
589047	299	229	0.14	8	920	2	< 2	13	34	0.17	< 10	< 10	111	< 10	80
589048	299	229	0.10	10	1080	< 2	< 2	20	30	0.29	< 10	< 10	159	< 10	86
589049	299	229	0.12	10	980	< 2	< 2	23	30	0.34	< 10	< 10	166	< 10	76
589050	299	229	0.04	9	640	24	2	12	33	0.11	< 10	< 10	93	< 10	90
589051	299	229	0.03	6	350	28	2	3	23	0.01	< 10	< 10	28	< 10	76
589052	299	229	0.06	6	620	8	2	8	35	0.06	< 10	< 10	66	< 10	74
589053	299	229	0.02	4	440	30	4	6	24	0.04	< 10	< 10	44	< 10	64
589054	299	229	0.10	6	1300	150	< 2	20	61	0.21	< 10	< 10	172	< 10	366
589055	299	229	0.02	4	730	32	4	9	51	0.07	< 10	< 10	64	< 10	86
589056	299	229	0.01	6	800	22	4	11	50	0.02	< 10	< 10	60	< 10	82
589057	299	229	0.05	9	1260	< 2	2	19	46	0.18	< 10	< 10	167	< 10	76
589058	299	229	0.12	7	1240	< 2	4	21	55	0.24	< 10	< 10	175	< 10	80
589059	299	229	0.03	4	490	4	4	4	42	0.01	< 10	< 10	51	< 10	42
589060	299	229	0.07	5	340	2	2	6	33	0.02	< 10	< 10	55	< 10	32
589061	299	229	0.05	4	420	4	2	8	31	0.03	< 10	< 10	61	< 10	36
589062	299	229	0.04	7	580	12	4	7	44	0.03	< 10	< 10	64	< 10	86
589063	299	229	0.04	8	1000	12	4	13	54	0.12	< 10	< 10	110	10	74
589064	299	229	0.19	7	1370	< 2	4	20	97	0.26	< 10	< 10	194	10	66
589065	299	229	0.10	9	990	4	2	22	45	0.25	< 10	< 10	168	< 10	52
589066	299	229	0.15	9	1280	2	2	18	87	0.24	< 10	< 10	173	10	76
589067	299	229	0.26	8	1340	< 2	2	22	109	0.31	< 10	< 10	188	10	92
589068	299	229	0.09	7	1140	6	4	15	95	0.07	< 10	< 10	117	< 10	74
589069	299	229	0.20	8	1050	< 2	4	17	110	0.17	< 10	< 10	153	10	70
589070	299	229	0.33	7	1450	4	4	18	150	0.27	< 10	< 10	192	10	94
589071	299	229	0.21	6	1320	< 2	< 2	22	96	0.29	< 10	< 10	190	10	68

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589072	299	229	1.0	2.98	2	160	< 0.5	< 2	2.22	< 0.5	15	40	1630	4.00	< 10	< 1	1.37	10	2.16	230	95
589073	299	229	1.2	3.42	2	90	< 0.5	< 2	2.75	< 0.5	16	77	1795	4.03	< 10	< 1	1.54	10	2.25	235	102
589074	299	229	0.8	2.23	2	150	< 0.5	< 2	1.74	< 0.5	15	36	1385	3.42	< 10	< 1	1.25	10	1.77	170	72
589075	299	229	0.6	2.34	2	240	< 0.5	< 2	1.72	< 0.5	13	99	1050	3.54	< 10	< 1	1.14	10	1.74	180	48
589076	299	229	1.8	2.72	2	140	< 0.5	< 2	2.42	< 0.5	14	57	1740	4.08	< 10	< 1	1.14	10	1.90	320	120
589077	299	229	0.8	4.78	2	180	< 0.5	< 2	3.27	< 0.5	16	42	1430	4.32	< 10	< 1	1.54	< 10	2.26	220	47
589078	299	229	1.6	4.17	2	230	< 0.5	< 2	2.93	< 0.5	16	43	3160	4.07	20	< 1	1.85	10	2.49	210	83
589079	299	229	2.4	4.45	2	360	< 0.5	< 2	3.72	< 0.5	15	43	2010	4.01	20	< 1	1.52	10	2.35	265	194
589080	299	229	1.4	1.91	2	290	< 0.5	< 2	1.60	< 0.5	12	86	1395	2.61	10	< 1	0.74	10	1.45	250	62
589081	299	229	0.8	2.11	2	500	< 0.5	< 2	1.62	< 0.5	12	95	1035	2.65	10	< 1	0.70	30	1.14	155	50
589082	299	229	1.2	3.61	2	190	< 0.5	< 2	2.37	< 0.5	19	60	2210	4.13	20	< 1	1.32	10	2.16	215	39
589083	299	229	2.8	4.25	2	260	< 0.5	< 2	3.22	< 0.5	19	78	3810	4.18	20	< 1	1.49	10	2.38	255	82
589084	299	229	6.2	1.84	2	240	< 0.5	8	2.57	2.5	10	126	1945	2.56	10	< 1	0.46	10	0.85	240	54
589085	299	229	3.4	0.65	34	60	< 0.5	6	0.64	1.0	4	185	1275	2.64	< 10	< 1	0.34	20	0.07	70	76
589086	299	229	1.8	0.48	4	250	< 0.5	2	1.29	< 0.5	4	135	968	0.98	< 10	< 1	0.20	20	0.09	120	98
589087	299	229	1.6	2.06	2	230	< 0.5	2	2.00	< 0.5	11	89	1690	3.24	10	< 1	0.76	20	1.06	205	39
589088	299	229	1.0	2.82	2	510	< 0.5	< 2	2.13	< 0.5	11	95	2120	2.88	10	< 1	1.07	20	1.61	195	96
589089	299	229	0.6	2.16	2	280	< 0.5	< 2	1.30	< 0.5	11	114	950	2.51	10	< 1	0.82	30	1.34	170	162
589090	299	229	1.6	1.14	4	50	< 0.5	< 2	1.22	1.0	7	146	1265	1.56	10	< 1	0.23	40	0.81	175	331
589091	299	229	0.8	1.60	2	100	< 0.5	< 2	1.18	< 0.5	9	154	1120	1.87	10	< 1	0.54	40	1.02	135	176
589092	299	229	1.0	2.19	2	430	< 0.5	< 2	0.89	< 0.5	10	99	1225	2.63	10	< 1	0.91	10	1.43	165	67
589093	299	229	0.8	1.08	4	240	< 0.5	< 2	0.67	< 0.5	6	118	1070	1.43	10	< 1	0.45	20	0.68	90	77
589094	299	229	0.8	1.64	2	380	< 0.5	< 2	0.65	< 0.5	7	95	1595	2.10	10	< 1	0.84	10	1.26	125	199
589095	299	229	1.4	2.17	2	430	< 0.5	< 2	1.06	< 0.5	11	133	1740	2.95	20	< 1	0.98	20	1.50	190	199
589096	299	229	0.6	1.93	2	420	< 0.5	< 2	0.86	< 0.5	10	117	1035	2.83	20	< 1	0.92	20	1.46	180	388
589097	299	229	1.0	2.19	2	420	< 0.5	< 2	1.13	< 0.5	9	99	1470	2.79	20	< 1	0.87	20	1.48	230	104
589098	299	229	4.6	2.46	50	150	< 0.5	4	1.56	< 0.5	9	48	2070	3.75	10	< 1	0.56	20	1.66	505	105
589099	299	229	2.6	2.65	4	250	< 0.5	< 2	1.76	2.0	11	66	2450	3.04	20	< 1	0.79	20	1.62	240	63
589100	299	229	2.0	1.79	2	270	< 0.5	< 2	1.65	< 0.5	9	83	2220	2.52	10	< 1	0.71	10	1.44	210	123
589101	299	229	1.2	2.18	2	270	< 0.5	< 2	1.88	< 0.5	9	119	2330	2.73	10	< 1	1.02	20	1.42	150	63
589102	299	229	1.6	2.21	2	350	0.5	< 2	2.47	< 0.5	12	66	3510	2.94	10	< 1	1.03	20	1.30	180	144
589103	299	229	1.0	1.67	2	250	< 0.5	< 2	1.75	< 0.5	9	142	1715	2.31	10	< 1	0.88	20	1.21	130	252
589104	299	229	1.2	1.38	4	170	< 0.5	< 2	2.53	1.0	8	141	1460	1.94	10	< 1	0.53	40	0.75	160	118
589105	299	229	1.0	1.56	2	200	< 0.5	< 2	1.72	< 0.5	9	157	1330	2.22	10	< 1	0.62	30	1.06	155	83
589106	299	229	0.8	1.34	2	100	< 0.5	< 2	1.04	< 0.5	10	140	976	2.35	10	< 1	0.48	20	1.00	140	202
589107	299	229	0.8	1.75	2	100	< 0.5	< 2	2.16	< 0.5	9	169	1290	1.84	10	< 1	0.33	30	0.81	150	85
589108	299	229	0.8	1.80	2	220	< 0.5	< 2	1.24	< 0.5	11	106	1540	2.75	10	< 1	1.05	10	1.55	150	53
589109	299	229	1.0	2.51	2	370	< 0.5	< 2	2.17	< 0.5	13	123	1305	3.35	20	< 1	1.07	10	1.64	190	43
589110	299	229	0.4	2.70	2	250	< 0.5	< 2	2.16	< 0.5	13	40	912	3.86	20	< 1	1.23	20	1.75	235	175
589111	299	229	0.4	3.51	2	420	< 0.5	< 2	2.68	< 0.5	16	112	999	3.88	20	< 1	1.31	10	1.90	225	99

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 218
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. :I9322839
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322839

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589072	299	229	0.13	6	1180	< 2	2	19	88	0.28	< 10	< 10	159	< 10	38
589073	299	229	0.21	7	1260	78	4	19	110	0.31	< 10	< 10	178	10	48
589074	299	229	0.11	6	770	< 2	< 2	16	63	0.26	< 10	< 10	140	< 10	36
589075	299	229	0.12	5	990	2	2	15	63	0.27	< 10	< 10	129	< 10	32
589076	299	229	0.11	4	1200	4	4	13	82	0.23	< 10	< 10	124	< 10	56
589077	299	229	0.43	5	1450	4	2	18	255	0.35	< 10	< 10	203	10	36
589078	299	229	0.29	8	1280	< 2	2	23	164	0.35	< 10	< 10	202	10	48
589079	299	229	0.31	8	1240	< 2	2	20	193	0.27	< 10	< 10	183	10	56
589080	299	229	0.08	7	750	2	2	10	80	0.14	< 10	< 10	96	< 10	50
589081	299	229	0.17	6	720	2	< 2	8	265	0.14	< 10	< 10	93	< 10	28
589082	299	229	0.22	7	1150	< 2	< 2	16	128	0.28	< 10	< 10	178	10	46
589083	299	229	0.27	9	1070	2	4	20	183	0.29	< 10	< 10	194	10	58
589084	299	229	0.10	4	460	50	4	7	88	0.08	< 10	< 10	70	< 10	308
589085	299	229	0.01	3	110	32	2	< 1	19	< 0.01	< 10	< 10	3	< 10	146
589086	299	229	0.02	3	210	8	2	< 1	33	< 0.01	< 10	< 10	5	< 10	26
589087	299	229	0.12	4	1060	4	4	9	65	0.11	< 10	< 10	72	< 10	54
589088	299	229	0.14	5	880	12	2	14	85	0.16	< 10	< 10	123	10	38
589089	299	229	0.11	16	570	8	2	11	63	0.13	< 10	< 10	87	< 10	34
589090	299	229	0.03	14	320	54	2	3	20	< 0.01	< 10	< 10	23	< 10	94
589091	299	229	0.06	17	410	14	2	7	23	0.07	< 10	< 10	48	< 10	50
589092	299	229	0.12	10	670	2	< 2	12	86	0.19	< 10	< 10	98	< 10	42
589093	299	229	0.10	7	310	6	< 2	8	91	0.09	< 10	< 10	46	< 10	24
589094	299	229	0.09	7	500	2	2	14	258	0.19	< 10	< 10	93	< 10	30
589095	299	229	0.12	10	640	10	2	13	236	0.24	< 10	< 10	117	< 10	48
589096	299	229	0.08	11	610	4	4	13	134	0.22	< 10	< 10	107	< 10	34
589097	299	229	0.10	8	570	2	2	13	180	0.21	< 10	< 10	110	< 10	40
589098	299	229	0.07	3	940	28	< 2	10	83	0.10	< 10	< 10	101	< 10	90
589099	299	229	0.13	5	1060	78	2	14	308	0.18	< 10	< 10	117	< 10	202
589100	299	229	0.07	8	630	8	2	12	73	0.15	< 10	< 10	109	< 10	56
589101	299	229	0.11	9	700	12	2	15	61	0.23	< 10	< 10	119	< 10	34
589102	299	229	0.06	9	770	4	< 2	15	69	0.17	< 10	< 10	113	< 10	30
589103	299	229	0.09	10	640	2	2	12	44	0.15	< 10	< 10	88	< 10	24
589104	299	229	0.04	17	500	30	4	11	67	0.08	< 10	< 10	67	< 10	124
589105	299	229	0.07	17	370	2	2	9	56	0.10	< 10	< 10	66	< 10	32
589106	299	229	0.03	20	320	4	< 2	8	25	0.09	< 10	< 10	57	< 10	26
589107	299	229	0.08	19	440	2	2	5	63	0.04	< 10	< 10	45	< 10	30
589108	299	229	0.07	18	540	2	< 2	14	36	0.22	< 10	< 10	100	< 10	28
589109	299	229	0.17	7	830	< 2	2	17	257	0.25	< 10	< 10	143	< 10	38
589110	299	229	0.18	3	1030	2	< 2	16	196	0.26	< 10	< 10	157	< 10	36
589111	299	229	0.25	20	1150	4	4	13	212	0.35	< 10	< 10	142	10	36

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 218
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. :I9322839
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322839

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589112	299	229	1.4	2.40	8	270	< 0.5	< 2	2.24	0.5	14	249	1850	3.17	10	< 1	0.72	10	1.77	245	143
589113	299	229	1.2	2.11	8	160	0.5	< 2	2.33	< 0.5	8	213	1260	2.38	10	< 1	0.56	20	1.25	320	174
589114	299	229	0.8	2.56	4	340	0.5	2	2.24	< 0.5	8	180	1315	2.12	10	< 1	0.73	40	1.36	280	435
589115	299	229	0.8	2.85	22	380	0.5	2	2.46	< 0.5	7	170	1655	1.52	10	< 1	0.70	60	0.87	150	540
589116	299	229	0.8	2.00	14	100	< 0.5	2	1.87	< 0.5	11	209	1645	2.29	10	< 1	0.84	20	1.28	140	169
589117	299	229	0.2	2.37	4	310	< 0.5	< 2	2.05	< 0.5	11	172	952	2.74	10	< 1	0.90	20	1.63	175	50
589118	299	229	0.2	3.09	8	250	< 0.5	< 2	2.78	< 0.5	12	77	1470	3.64	10	< 1	1.53	10	2.02	215	147
589119	299	229	0.8	2.21	12	210	< 0.5	< 2	1.84	< 0.5	11	131	1500	2.85	10	< 1	0.91	20	1.62	245	50
589120	299	229	0.8	1.46	12	150	< 0.5	< 2	2.64	< 0.5	6	107	1355	1.63	< 10	< 1	0.63	20	1.11	115	632
589121	299	229	0.8	1.82	14	220	0.5	< 2	2.23	< 0.5	9	134	2330	2.35	10	< 1	0.77	20	1.07	185	78
589122	299	229	0.4	0.69	16	140	< 0.5	< 2	1.78	< 0.5	8	99	1010	0.89	< 10	< 1	0.22	20	0.26	110	139
589123	299	229	0.6	0.65	22	290	< 0.5	< 2	1.68	< 0.5	3	148	713	0.73	< 10	< 1	0.25	20	0.08	95	226
589124	299	229	0.8	0.47	36	260	< 0.5	< 2	1.13	< 0.5	3	137	698	0.84	< 10	< 1	0.27	30	0.07	90	1040
589125	299	229	0.6	0.69	30	430	< 0.5	< 2	0.62	< 0.5	3	130	630	0.67	< 10	< 1	0.30	30	0.10	95	80
589126	299	229	1.2	0.80	42	120	0.5	4	1.09	< 0.5	11	58	1480	2.26	< 10	< 1	0.19	20	0.27	245	183
589127	299	229	1.4	1.15	18	120	0.5	4	1.66	< 0.5	10	70	2010	2.09	< 10	< 1	0.30	20	0.41	195	259
589128	299	229	0.6	0.66	30	310	< 0.5	2	1.48	< 0.5	8	78	1565	0.94	< 10	< 1	0.24	30	0.28	180	170
589129	299	229	0.4	1.20	14	260	0.5	6	1.91	< 0.5	9	51	1280	1.59	10	< 1	0.48	20	0.71	215	164
589130	299	229	0.4	1.50	8	140	0.5	2	2.40	< 0.5	13	76	2640	2.19	10	< 1	1.08	20	1.14	145	190
589131	299	229	< 0.2	0.85	12	170	0.5	2	1.59	< 0.5	4	126	914	0.57	< 10	< 1	0.29	30	0.28	80	255
589132	299	229	0.4	0.89	12	170	< 0.5	< 2	2.21	1.0	3	133	1135	0.72	< 10	< 1	0.34	20	0.37	150	217
589133	299	229	0.4	0.49	22	100	< 0.5	< 2	1.63	< 0.5	3	52	924	0.61	< 10	< 1	0.17	20	0.20	115	121
589134	299	229	0.2	0.51	20	360	< 0.5	< 2	0.54	< 0.5	1	96	281	0.25	< 10	< 1	0.19	20	0.04	55	547
589135	299	229	0.2	0.31	22	30	< 0.5	< 2	1.23	< 0.5	2	55	503	0.38	< 10	< 1	0.10	20	0.10	90	907
589136	299	229	< 0.2	1.74	4	650	1.0	< 2	3.14	< 0.5	6	60	547	1.43	10	< 1	0.72	20	1.00	180	118
589137	299	229	0.2	0.31	22	40	< 0.5	< 2	1.80	< 0.5	2	67	453	0.44	< 10	< 1	0.09	20	0.13	120	398
589138	299	229	0.2	0.54	36	120	< 0.5	< 2	1.06	< 0.5	2	94	500	0.46	< 10	< 1	0.15	20	0.14	70	164
589139	299	229	0.2	0.57	50	440	< 0.5	< 2	1.30	< 0.5	3	95	621	0.58	< 10	< 1	0.17	20	0.21	120	381
589140	299	229	0.4	0.62	44	360	< 0.5	< 2	2.11	< 0.5	3	105	631	0.67	< 10	< 1	0.20	20	0.33	175	300
589141	299	229	0.4	0.68	44	260	< 0.5	< 2	1.48	< 0.5	2	127	538	0.62	< 10	< 1	0.24	20	0.21	115	464
589142	299	229	0.2	0.81	38	300	< 0.5	< 2	1.11	< 0.5	3	136	542	0.59	< 10	< 1	0.23	30	0.19	90	158
589143	299	229	0.6	0.90	46	280	< 0.5	< 2	0.84	< 0.5	4	168	633	1.04	< 10	< 1	0.30	20	0.19	100	173
589144	299	229	0.2	0.35	44	450	< 0.5	< 2	0.86	< 0.5	3	59	533	0.58	< 10	< 1	0.10	30	0.19	70	316
589145	299	229	0.4	1.00	22	700	< 0.5	< 2	1.14	< 0.5	3	170	642	0.67	< 10	< 1	0.21	30	0.18	90	168
589146	299	229	0.2	0.89	8	80	< 0.5	< 2	1.82	< 0.5	3	127	579	0.61	< 10	< 1	0.15	30	0.10	95	319
589147	299	229	0.2	1.34	16	450	0.5	< 2	1.47	< 0.5	7	140	758	1.25	10	< 1	0.37	30	0.49	80	136
589148	299	229	0.4	1.14	12	340	0.5	< 2	1.40	< 0.5	7	56	1325	1.50	10	< 1	0.52	20	0.82	110	159
589149	299	229	1.2	1.12	14	310	0.5	< 2	2.82	< 0.5	4	114	728	1.40	< 10	< 1	0.30	20	0.44	180	336
589150	299	229	0.6	1.55	8	550	0.5	< 2	1.43	< 0.5	7	110	786	1.73	10	< 1	0.63	30	0.94	145	344
589151	299	229	2.2	1.29	30	180	0.5	< 2	1.97	< 0.5	9	94	994	2.48	10	< 1	0.25	30	0.53	180	220

CERTIFICATION: Hart Bechler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 218
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :4
Certificate Date: 21-OCT-93
Invoice No. :19322839
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322839

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589112	299	229	0.15	20	620	50	4	14	125	0.20	< 10	< 10	113	10	108
589113	299	229	0.08	14	610	10	4	9	71	0.06	< 10	< 10	68	< 10	62
589114	299	229	0.07	18	360	< 2	4	9	70	0.08	< 10	< 10	56	< 10	52
589115	299	229	0.08	15	400	10	8	9	89	0.06	< 10	< 10	58	< 10	34
589116	299	229	0.09	23	390	8	2	11	44	0.14	< 10	< 10	72	< 10	34
589117	299	229	0.17	13	650	4	2	13	70	0.22	< 10	< 10	102	< 10	32
589118	299	229	0.17	3	1280	2	4	19	116	0.28	< 10	< 10	159	< 10	40
589119	299	229	0.10	10	870	12	4	14	79	0.19	< 10	< 10	101	< 10	52
589120	299	229	0.05	6	600	8	4	9	122	0.11	< 10	< 10	65	< 10	24
589121	299	229	0.07	8	610	4	< 2	13	149	0.11	< 10	< 10	81	< 10	32
589122	299	229	0.01	2	470	16	2	3	27	< 0.01	< 10	< 10	17	< 10	26
589123	299	229	0.01	2	110	14	2	< 1	38	< 0.01	< 10	< 10	< 1	< 10	26
589124	299	229	0.01	1	120	12	8	< 1	30	< 0.01	< 10	< 10	< 1	< 10	18
589125	299	229	0.01	2	120	14	18	< 1	17	< 0.01	< 10	< 10	2	< 10	16
589126	299	229	< 0.01	3	770	10	12	9	15	< 0.01	< 10	< 10	39	< 10	28
589127	299	229	0.01	5	720	10	12	8	17	< 0.01	< 10	< 10	37	< 10	30
589128	299	229	< 0.01	3	360	12	12	2	23	< 0.01	< 10	< 10	10	< 10	30
589129	299	229	0.07	2	660	12	2	7	70	0.07	< 10	< 10	55	< 10	34
589130	299	229	0.06	5	890	2	2	14	125	0.17	< 10	< 10	105	10	22
589131	299	229	0.04	2	360	6	4	4	62	< 0.01	< 10	< 10	20	< 10	14
589132	299	229	0.01	3	200	92	4	4	32	0.01	< 10	< 10	28	< 10	182
589133	299	229	< 0.01	2	250	18	28	3	25	< 0.01	< 10	< 10	14	< 10	60
589134	299	229	0.01	1	80	8	24	< 1	14	< 0.01	< 10	< 10	< 1	< 10	12
589135	299	229	< 0.01	1	110	10	18	< 1	21	< 0.01	< 10	< 10	< 1	< 10	14
589136	299	229	0.03	4	430	8	4	11	469	0.08	< 10	< 10	62	< 10	22
589137	299	229	< 0.01	2	120	16	10	1	35	< 0.01	< 10	< 10	1	< 10	22
589138	299	229	0.02	2	110	16	8	1	41	< 0.01	< 10	< 10	3	< 10	18
589139	299	229	0.01	2	130	22	12	1	32	< 0.01	< 10	< 10	2	< 10	26
589140	299	229	0.01	2	160	20	6	1	28	< 0.01	< 10	< 10	2	< 10	26
589141	299	229	0.01	2	120	16	6	< 1	29	< 0.01	< 10	< 10	2	< 10	24
589142	299	229	0.01	3	150	12	12	< 1	22	< 0.01	< 10	< 10	3	< 10	18
589143	299	229	0.01	3	160	10	12	1	18	< 0.01	< 10	< 10	3	< 10	12
589144	299	229	< 0.01	2	160	14	8	1	18	< 0.01	< 10	< 10	1	< 10	28
589145	299	229	0.01	4	190	20	8	1	26	< 0.01	< 10	< 10	4	< 10	28
589146	299	229	0.01	4	190	14	2	2	20	< 0.01	< 10	< 10	5	< 10	18
589147	299	229	0.03	6	320	6	2	5	231	0.02	< 10	< 10	30	< 10	16
589148	299	229	0.03	5	400	4	2	8	252	0.08	< 10	< 10	56	< 10	22
589149	299	229	0.02	4	340	8	4	5	88	0.01	< 10	< 10	26	< 10	32
589150	299	229	0.07	4	440	4	4	10	78	0.10	< 10	< 10	64	< 10	28
589151	299	229	0.01	6	510	10	6	11	60	0.01	< 10	< 10	46	< 10	38

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 218
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. :I9322839
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322839

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589152	299	229	1.4	0.85	12	180	0.5	4	1.32	< 0.5	8	52	840	2.32	< 10	< 1	0.25	30	0.48	175	315
589153	299	229	0.6	1.07	22	250	< 0.5	< 2	1.44	< 0.5	6	103	719	1.38	< 10	< 1	0.15	40	0.35	150	420
589154	299	229	0.8	0.93	22	100	0.5	4	2.12	< 0.5	5	49	691	2.54	< 10	< 1	0.40	20	0.65	155	398
589155	299	229	0.2	1.50	6	240	< 0.5	2	1.67	< 0.5	5	166	800	1.62	10	< 1	0.75	20	1.02	100	310
589156	299	229	1.4	0.78	14	230	< 0.5	4	1.55	< 0.5	4	165	1355	1.00	< 10	< 1	0.31	20	0.32	80	155
589157	299	229	0.4	0.76	18	140	0.5	2	1.51	< 0.5	3	166	855	0.62	< 10	< 1	0.20	30	0.19	55	106
589158	299	229	0.6	0.88	16	80	0.5	< 2	1.17	< 0.5	3	117	1175	0.62	< 10	< 1	0.24	30	0.16	45	70
589159	299	229	0.2	0.94	2	510	0.5	< 2	1.37	< 0.5	4	164	710	0.99	10	< 1	0.26	30	0.32	60	48
589160	299	229	0.4	0.80	46	200	< 0.5	2	1.32	< 0.5	2	127	801	0.63	< 10	< 1	0.21	30	0.39	80	261
589161	299	229	0.8	0.93	26	120	< 0.5	2	1.27	< 0.5	3	124	1020	0.71	< 10	< 1	0.19	30	0.26	80	91
589162	299	229	3.6	0.43	106	30	< 0.5	24	1.63	0.5	4	59	1755	4.22	< 10	< 1	0.13	20	0.29	170	1130
589163	299	229	0.4	1.11	18	60	0.5	2	1.33	< 0.5	2	113	881	0.84	< 10	< 1	0.18	30	0.33	110	505
589164	299	229	0.2	1.17	8	610	0.5	2	0.94	< 0.5	3	106	931	0.90	< 10	< 1	0.19	30	0.29	60	112
589165	299	229	0.2	0.98	12	310	0.5	2	1.43	< 0.5	2	133	875	0.73	< 10	< 1	0.24	30	0.30	65	152
589166	299	229	0.4	0.74	30	190	< 0.5	2	1.70	< 0.5	3	114	798	0.64	< 10	< 1	0.21	40	0.36	90	589
589167	299	229	0.2	0.91	26	60	0.5	2	2.30	< 0.5	26	141	792	2.77	< 10	< 1	0.27	20	0.40	130	103
589168	299	229	0.2	0.58	6	130	< 0.5	2	1.41	< 0.5	3	151	592	0.48	< 10	< 1	0.22	30	0.19	65	239

CERTIFICATION: Ian Bucklen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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Project : CASINO 218
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :4
Certificate Date: 21-OCT-93
Invoice No. :19322839
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322839

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589152	299	229	0.01	4	460	6	2	7	79	0.01	< 10	< 10	31	< 10	30
589153	299	229	< 0.01	5	450	12	2	9	27	< 0.01	< 10	< 10	31	< 10	30
589154	299	229	0.02	4	440	12	4	8	94	0.05	< 10	< 10	43	< 10	36
589155	299	229	0.06	4	430	4	2	10	178	0.11	< 10	< 10	70	< 10	20
589156	299	229	0.04	3	260	10	2	2	136	< 0.01	< 10	< 10	16	< 10	22
589157	299	229	0.02	3	280	8	2	1	34	< 0.01	< 10	< 10	6	< 10	14
589158	299	229	0.01	3	320	8	4	2	28	< 0.01	< 10	< 10	9	< 10	18
589159	299	229	0.06	4	380	6	2	3	267	0.01	< 10	< 10	17	< 10	12
589160	299	229	0.01	3	270	10	8	2	16	< 0.01	< 10	< 10	8	< 10	22
589161	299	229	0.01	3	360	12	6	2	21	< 0.01	< 10	< 10	10	< 10	30
589162	299	229	< 0.01	3	310	34	22	1	14	< 0.01	< 10	< 10	2	< 10	72
589163	299	229	0.01	2	340	10	8	3	18	< 0.01	< 10	< 10	11	< 10	20
589164	299	229	0.02	3	330	6	2	2	70	< 0.01	< 10	< 10	13	< 10	14
589165	299	229	0.02	3	330	4	4	2	59	< 0.01	< 10	< 10	12	< 10	14
589166	299	229	0.01	3	290	6	6	2	27	< 0.01	< 10	< 10	9	< 10	18
589167	299	229	0.02	6	490	12	6	2	51	< 0.01	< 10	< 10	15	< 10	30
589168	299	229	0.04	3	180	6	2	1	144	< 0.01	< 10	< 10	6	< 10	16

CERTIFICATION:

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Project : CASINO 219
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-OCT-93
Invoice No. :I9323088
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323088

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
565763	208	274	0.07	0.021	0.14	1280
565764	208	274	0.08	0.015	0.17	1720
565765	208	274	0.08	0.028	0.10	1620
565766	208	276	0.02	0.032	0.10	8280
565767	208	274	0.03	0.032	0.14	6340
565768	208	276	0.04	0.037	0.07	8920
565769	208	276	0.10	0.076	0.10	8560
565770	208	274	0.13	0.071	0.17	6900
565771	208	276	0.13	0.117	0.21	8440
565772	208	273	0.11	0.021	0.14	12100
565773	208	276	0.15	0.039	0.07	10460
565774	208	276	0.19	0.024	0.14	11600
565775	208	276	0.20	0.039	0.17	11740
565776	208	273	0.13	0.071	0.07	12140
565777	208	273	0.14	0.111	0.14	11840
565778	208	273	0.21	0.054	0.14	12260
565779	208	273	0.15	0.036	0.10	12270
565780	208	276	0.14	0.075	0.14	10380
565781	208	276	0.10	0.070	0.07	10720
565782	208	273	0.10	0.089	0.07	12040
565783	208	274	0.18	0.038	0.07	5860
565784	208	276	0.12	0.031	0.10	7640
565785	208	276	0.13	0.035	0.10	7960
565786	208	276	0.12	0.028	0.14	11660
565787	208	276	0.13	0.036	0.17	7340
565788	208	273	0.21	0.043	0.31	12440
565789	208	276	0.10	0.033	0.10	11700
565790	208	273	0.16	0.044	0.24	14320
565791	208	273	0.14	0.079	0.21	12620
565792	208	273	0.30	0.039	1.26	14180
565793	208	276	0.19	0.075	0.21	10700
565794	208	276	0.22	0.153	0.31	11060
565795	208	273	0.25	0.159	0.21	12300
565796	208	273	0.31	0.082	0.31	11860
565797	208	276	0.30	0.035	0.48	10220
565798	208	276	0.19	0.047	0.21	11060
565799	208	273	0.14	0.030	0.17	12160
565800	208	273	0.15	0.031	0.21	12100
565801	208	276	0.16	0.049	0.21	10820
565802	208	273	0.11	0.067	0.14	12200

CERTIFICATION: Sid Teinab

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Project : CASINO 219
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-OCT-93
Invoice No. : I9323088
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323088

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
565803	208	276	0.16	0.050	0.14	10220
565804	208	276	0.24	0.156	0.24	9800
565805	208	273	0.16	0.032	0.17	12240
565806	208	276	0.19	0.048	0.21	10660
565807	208	276	0.11	0.064	0.10	7360
565808	208	273	0.13	0.018	0.14	13780
565809	208	273	0.11	0.064	0.14	12020
565810	208	276	0.06	0.035	0.10	9680
565811	208	276	0.10	0.041	0.14	10320
565812	208	276	0.14	0.031	0.17	10260
565813	208	276	0.11	0.019	0.14	11500
565814	208	276	0.04	0.014	0.07	10380
565815	208	273	0.09	0.033	0.27	11900
565816	208	274	0.04	0.017	0.03	6880
565817	208	276	0.06	0.040	0.10	9300
565818	208	273	0.06	0.028	0.07	12180
565819	208	274	0.26	0.023	0.17	5260
565820	208	273	0.08	0.024	0.10	12200
565821	208	273	0.09	0.073	0.21	12660
565822	208	273	0.11	0.038	0.10	12480
565823	208	276	0.13	0.103	0.14	10300
565824	208	273	0.09	0.042	0.17	12700
565825	208	273	0.13	0.100	0.21	12420
565826	208	276	0.15	0.102	0.17	11740
565827	208	273	0.11	0.067	0.14	12380
565828	208	273	0.09	0.030	0.17	11940
565829	208	276	0.05	0.032	0.07	10620
565830	208	276	0.07	0.043	0.10	11200
565831	208	273	0.08	0.069	0.10	13640
565832	208	276	0.08	0.057	0.10	11680
565833	208	273	0.09	0.085	0.14	11860
565834	208	273	0.06	0.040	0.10	12240
565835	208	276	0.12	0.045	0.14	11160
565836	208	273	0.10	0.026	0.17	12160
565837	208	273	0.04	0.034	0.10	12440
565838	208	273	0.14	0.009	0.17	13180
565839	208	273	0.10	0.049	0.21	12260
565840	208	273	0.10	0.027	0.14	12920
565841	208	273	0.09	0.019	0.14	12080
565842	208	273	0.05	0.046	0.10	12140

CERTIFICATION: Saeid Teinab

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Certificate Date: 24-OCT-93
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P.O. Number :
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CERTIFICATE OF ANALYSIS A9323088

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
565843	208 273	0.06	0.057	0.07	12260
565844	208 276	0.14	0.052	0.21	11700
565845	208 276	0.10	0.022	0.10	11000
565846	208 274	0.09	0.063	0.14	5240
565847	208 274	0.16	0.017	0.17	3240
565848	208 276	0.07	0.021	0.10	7420
565849	208 274	0.09	0.044	0.10	7180
565850	208 274	0.08	0.052	0.14	6000
565851	208 274	0.07	0.055	0.07	6400
565852	208 274	0.08	0.063	0.10	6800
565853	208 274	0.16	0.113	0.31	5500
565854	208 274	0.05	0.043	0.10	6180
565855	208 274	0.04	0.038	0.07	6560
565856	208 274	0.06	0.145	0.10	6280
565857	208 274	0.02	0.025	0.03	5780
565858	208 274	0.05	0.169	0.10	6140
565859	208 274	0.03	0.025	0.07	6400
565860	208 274	0.05	0.039	0.10	6200
565861	208 274	0.04	0.014	0.10	6360
565862	208 274	0.04	0.040	0.07	6620
565863	208 274	0.04	0.032	0.03	6240
565864	208 274	0.03	0.020	0.07	6420
565865	208 274	0.03	0.035	0.03	6260
565866	208 276	0.04	0.035	0.10	7300
565867	208 274	0.04	0.057	0.07	6060
565868	208 274	0.04	0.046	0.03	6460
565869	208 274	0.05	0.082	0.14	7020
565870	208 274	0.04	0.035	0.07	6280
565871	208 274	0.04	0.264	0.03	6700
565872	208 274	0.06	0.113	0.07	6180
565873	208 274	0.04	0.038	< 0.03	6940
565874	208 274	0.04	0.041	0.03	7080
565875	208 274	0.04	0.036	0.03	6740
565876	208 276	0.07	0.049	0.14	7500
565877	208 274	0.05	0.049	0.10	6540
565878	208 274	0.03	0.034	0.03	6460
565879	208 274	0.04	0.097	0.03	6380
565880	208 274	0.15	0.015	0.31	6520
565881	208 274	0.03	0.033	0.07	6320
565882	208 274	0.03	0.093	0.03	6260

CERTIFICATION: Saad Zeinab

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Project : CASINO 219
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Certificate Date: 24-OCT-93
Invoice No. : I9323088
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Account : FC

CERTIFICATE OF ANALYSIS A9323088

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
565883	208	274	0.03	0.050	0.03	5820
565884	208	274	0.06	0.022	0.07	6020
565885	208	276	0.13	0.040	0.21	8000

CERTIFICATION: Said Zeinab

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Project : CASINO 219
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. : 19323089
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323089

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565763	299	229	0.4	3.47	14	820	< 0.5	< 2	0.58	0.5	7	53	760	3.68	10	< 1	0.69	20	1.32	170	129
565764	299	229	0.4	4.24	12	1010	< 0.5	< 2	0.66	< 0.5	12	66	793	3.81	10	< 1	0.77	30	1.53	300	90
565765	299	229	0.6	3.47	20	590	< 0.5	< 2	0.63	< 0.5	7	43	839	3.48	10	< 1	0.55	30	1.41	185	178
565766	299	229	0.4	1.14	6	310	< 0.5	2	0.18	< 0.5	1	182	223	0.93	< 10	< 1	0.44	30	0.16	25	236
565767	299	229	0.6	0.65	14	130	< 0.5	2	0.16	< 0.5	1	108	269	1.11	< 10	< 1	0.28	30	0.11	15	256
565768	299	229	0.4	0.78	54	240	< 0.5	2	0.12	< 0.5	1	149	409	0.77	< 10	< 1	0.36	30	0.09	10	266
565769	299	229	0.6	0.61	34	230	< 0.5	2	0.09	< 0.5	2	122	1025	0.95	< 10	< 1	0.30	30	0.07	10	536
565770	299	229	0.6	0.75	12	240	< 0.5	2	0.04	< 0.5	3	135	1350	1.31	< 10	< 1	0.37	30	0.06	10	530
565771	299	229	0.8	0.92	6	240	< 0.5	2	0.15	< 0.5	5	93	1440	1.80	< 10	< 1	0.29	30	0.13	15	853
565772	299	229	0.6	1.35	2	450	< 0.5	4	0.16	< 0.5	3	112	1070	1.37	< 10	< 1	0.38	20	0.33	35	140
565773	299	229	0.2	0.74	4	230	< 0.5	2	0.44	0.5	4	126	1660	0.92	< 10	< 1	0.32	30	0.08	25	266
565774	299	229	0.4	0.81	12	170	< 0.5	2	0.40	< 0.5	5	203	2090	1.61	< 10	< 1	0.44	30	0.07	30	175
565775	299	229	0.6	0.73	12	120	< 0.5	4	0.08	< 0.5	5	133	2040	2.44	< 10	< 1	0.39	20	0.08	15	227
565776	299	229	< 0.2	0.91	2	160	< 0.5	2	0.17	< 0.5	4	182	1465	0.88	< 10	< 1	0.46	30	0.09	15	511
565777	299	229	0.2	0.47	< 2	110	< 0.5	2	0.42	0.5	3	119	1445	0.57	< 10	< 1	0.24	30	0.05	25	767
565778	299	229	0.2	0.69	< 2	120	< 0.5	2	0.18	0.5	4	163	2340	0.87	< 10	< 1	0.36	30	0.06	20	394
565779	299	229	0.2	0.51	2	120	< 0.5	2	0.54	0.5	4	174	1580	0.77	< 10	< 1	0.29	30	0.05	35	267
565780	299	229	0.2	0.62	< 2	200	< 0.5	2	0.42	< 0.5	3	158	1510	0.55	< 10	< 1	0.31	30	0.06	35	528
565781	299	229	0.2	0.50	2	100	< 0.5	< 2	0.60	< 0.5	2	129	1085	0.45	< 10	< 1	0.25	30	0.06	35	488
565782	299	229	0.2	0.51	< 2	180	< 0.5	< 2	0.47	0.5	2	156	962	0.45	< 10	< 1	0.26	30	0.06	35	599
565783	299	229	< 0.2	0.66	2	140	< 0.5	2	0.11	0.5	2	181	1930	0.63	< 10	< 1	0.33	30	0.06	25	273
565784	299	229	0.2	0.70	2	150	< 0.5	2	0.41	0.5	3	175	1290	0.56	< 10	< 1	0.35	30	0.07	45	224
565785	299	229	0.4	0.63	< 2	150	< 0.5	2	0.56	0.5	4	160	1430	0.68	< 10	< 1	0.32	30	0.06	100	242
565786	299	229	0.4	0.91	4	260	< 0.5	4	0.81	< 0.5	4	155	1385	1.48	< 10	< 1	0.39	20	0.21	75	187
565787	299	229	0.4	2.20	6	380	< 0.5	< 2	0.92	< 0.5	11	131	1385	2.62	< 10	< 1	0.76	20	1.36	145	236
565788	299	229	0.4	1.62	< 2	240	< 0.5	2	1.46	< 0.5	9	128	2150	1.78	< 10	< 1	0.55	30	0.68	85	276
565789	299	229	0.2	1.37	< 2	270	< 0.5	2	1.37	< 0.5	5	152	1005	2.03	< 10	< 1	0.57	20	0.51	85	208
565790	299	229	0.4	2.52	6	460	< 0.5	< 2	1.74	< 0.5	10	84	1740	2.80	< 10	< 1	1.00	20	1.65	160	273
565791	299	229	0.4	2.43	2	390	< 0.5	< 2	1.40	< 0.5	11	71	1545	3.21	< 10	< 1	1.07	10	1.74	160	506
565792	299	229	0.6	2.09	< 2	180	< 0.5	< 2	1.28	0.5	12	69	3170	3.00	< 10	< 1	0.56	10	1.44	140	285
565793	299	229	0.4	1.77	4	180	< 0.5	< 2	1.12	< 0.5	9	100	1850	2.84	< 10	< 1	0.48	30	1.20	120	466
565794	299	229	0.4	1.21	< 2	110	< 0.5	2	1.99	< 0.5	6	139	2260	2.42	< 10	< 1	0.44	40	0.56	100	902
565795	299	229	0.8	1.27	6	90	0.5	4	0.74	< 0.5	7	132	2750	1.93	10	< 1	0.36	60	0.64	65	1025
565796	299	229	0.8	0.98	2	110	< 0.5	4	1.35	< 0.5	6	140	3350	1.59	< 10	< 1	0.33	40	0.48	80	541
565797	299	229	0.8	0.97	6	130	< 0.5	2	1.32	< 0.5	6	121	3160	1.46	< 10	< 1	0.28	30	0.59	100	194
565798	299	229	0.4	1.18	< 2	190	< 0.5	2	0.84	0.5	9	127	1930	1.65	< 10	< 1	0.36	30	0.83	125	282
565799	299	229	0.4	1.14	< 2	130	< 0.5	2	1.27	< 0.5	9	87	1495	2.07	< 10	< 1	0.36	20	0.80	120	189
565800	299	229	0.4	1.79	2	250	< 0.5	< 2	1.33	< 0.5	9	81	1515	2.63	< 10	< 1	0.74	20	1.18	150	188
565801	299	229	0.4	1.57	2	180	< 0.5	< 2	1.01	0.5	9	75	1600	2.82	< 10	< 1	0.72	20	1.17	125	290
565802	299	229	0.2	1.37	< 2	370	< 0.5	< 2	1.05	< 0.5	6	128	1115	2.02	< 10	< 1	0.63	30	0.74	115	445

CERTIFICATION: Stewart Buchler

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Project : CASINO 219
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page No. :1-B
Total Pages :4
Certificate Date: 21-OCT-93
Invoice No. :I9323089
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323089

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565763	299	229	0.02	5	970	2	2	14	33	0.10	< 10	< 10	101	< 10	72
565764	299	229	0.02	7	1070	< 2	4	15	42	0.12	< 10	< 10	99	< 10	74
565765	299	229	0.02	4	1070	< 2	4	16	35	0.09	< 10	< 10	96	< 10	56
565766	299	229	0.03	3	160	4	4	< 1	22	< 0.01	< 10	< 10	3	< 10	14
565767	299	229	0.01	3	180	8	6	< 1	21	< 0.01	< 10	< 10	2	< 10	18
565768	299	229	0.03	3	100	6	2	< 1	20	< 0.01	< 10	< 10	< 1	< 10	14
565769	299	229	0.02	3	100	6	2	< 1	16	< 0.01	< 10	< 10	< 1	< 10	14
565770	299	229	0.02	3	170	10	2	< 1	15	< 0.01	< 10	< 10	1	< 10	16
565771	299	229	0.05	5	750	4	2	2	27	< 0.01	< 10	< 10	11	< 10	46
565772	299	229	0.09	4	500	4	< 2	3	23	< 0.01	< 10	< 10	24	< 10	34
565773	299	229	0.03	4	170	6	2	< 1	19	< 0.01	< 10	< 10	3	< 10	28
565774	299	229	0.06	4	190	8	2	1	15	< 0.01	< 10	< 10	4	< 10	28
565775	299	229	0.02	3	200	8	2	1	10	< 0.01	< 10	< 10	5	< 10	20
565776	299	229	0.04	4	80	4	2	< 1	17	< 0.01	< 10	< 10	1	< 10	20
565777	299	229	0.05	3	80	4	2	< 1	14	< 0.01	< 10	< 10	< 1	< 10	24
565778	299	229	0.07	4	110	4	4	< 1	13	< 0.01	< 10	< 10	1	< 10	26
565779	299	229	0.07	4	90	6	2	< 1	14	< 0.01	< 10	< 10	1	< 10	26
565780	299	229	0.07	3	100	8	2	< 1	17	< 0.01	< 10	< 10	1	< 10	26
565781	299	229	0.02	2	80	6	2	< 1	13	< 0.01	< 10	< 10	< 1	< 10	22
565782	299	229	0.06	3	60	8	2	< 1	17	< 0.01	< 10	< 10	< 1	< 10	28
565783	299	229	0.07	5	90	8	2	< 1	14	< 0.01	< 10	< 10	2	< 10	30
565784	299	229	0.08	4	110	6	2	< 1	17	< 0.01	< 10	< 10	3	< 10	30
565785	299	229	0.06	4	110	6	2	1	16	< 0.01	< 10	< 10	3	< 10	52
565786	299	229	0.04	4	180	12	2	1	21	< 0.01	< 10	< 10	12	< 10	28
565787	299	229	0.11	7	600	< 2	4	12	30	0.10	< 10	< 10	84	< 10	36
565788	299	229	0.06	6	450	2	< 2	6	26	0.01	< 10	< 10	37	< 10	26
565789	299	229	0.06	4	300	< 2	4	4	25	0.03	< 10	< 10	33	< 10	22
565790	299	229	0.09	6	670	< 2	2	16	32	0.23	< 10	< 10	113	< 10	30
565791	299	229	0.08	6	750	< 2	2	17	26	0.25	< 10	< 10	125	< 10	38
565792	299	229	0.06	7	900	< 2	2	12	23	0.16	< 10	< 10	105	< 10	40
565793	299	229	0.06	6	700	2	4	9	25	0.07	< 10	< 10	77	< 10	40
565794	299	229	0.04	5	290	2	2	3	26	0.01	< 10	< 10	23	< 10	26
565795	299	229	0.02	10	360	4	4	3	24	< 0.01	< 10	< 10	23	< 10	28
565796	299	229	0.03	6	340	4	2	2	23	< 0.01	< 10	< 10	17	< 10	28
565797	299	229	0.06	6	420	4	2	3	25	< 0.01	< 10	< 10	36	< 10	32
565798	299	229	0.06	6	380	2	2	3	24	< 0.01	< 10	< 10	29	< 10	46
565799	299	229	0.04	4	510	< 2	2	3	23	0.01	< 10	< 10	27	< 10	30
565800	299	229	0.07	4	850	2	< 2	9	26	0.11	< 10	< 10	78	< 10	40
565801	299	229	0.07	6	680	2	2	9	22	0.13	< 10	< 10	72	< 10	38
565802	299	229	0.10	3	790	2	2	6	33	0.10	< 10	< 10	42	< 10	36

CERTIFICATION: Ian Bachlet

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 219
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 21-OCT-93
Invoice No. : I9323089
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323089

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565803	299	229	0.4	0.64	2	270	< 0.5	< 2	1.06	< 0.5	4	133	1740	0.81	< 10	< 1	0.36	30	0.18	65	334
565804	299	229	0.4	0.52	< 2	270	< 0.5	2	0.83	1.0	4	125	2480	0.82	< 10	< 1	0.32	30	0.07	65	927
565805	299	229	0.4	0.52	< 2	290	< 0.5	< 2	1.08	< 0.5	4	125	1645	0.87	< 10	< 1	0.29	30	0.10	75	196
565806	299	229	0.6	0.45	< 2	230	< 0.5	2	0.94	< 0.5	4	129	2180	1.01	< 10	< 1	0.30	30	0.04	65	317
565807	299	229	0.2	0.44	< 2	200	< 0.5	2	0.84	< 0.5	4	115	1155	0.90	< 10	< 1	0.29	20	0.03	80	421
565808	299	229	0.4	0.41	2	240	< 0.5	< 2	1.00	< 0.5	4	98	1455	0.73	< 10	< 1	0.27	20	0.03	70	113
565809	299	229	0.4	0.53	2	260	< 0.5	< 2	1.45	< 0.5	5	119	1235	0.77	< 10	< 1	0.28	30	0.07	75	378
565810	299	229	0.2	1.27	4	180	< 0.5	< 2	1.00	< 0.5	6	78	582	2.43	< 10	< 1	0.42	30	0.79	110	215
565811	299	229	0.2	1.26	< 2	220	< 0.5	< 2	1.05	< 0.5	9	90	1060	1.67	< 10	< 1	0.40	20	0.85	125	239
565812	299	229	0.6	1.44	16	120	< 0.5	2	0.67	< 0.5	8	91	1600	3.26	< 10	< 1	0.52	20	0.80	70	190
565813	299	229	0.4	2.04	< 2	330	< 0.5	< 2	0.93	< 0.5	8	64	1090	2.75	< 10	< 1	0.73	20	1.38	140	107
565814	299	229	0.2	2.18	< 2	360	< 0.5	< 2	0.95	< 0.5	9	80	411	3.58	< 10	< 1	0.95	20	1.56	200	70
565815	299	229	1.6	1.38	12	80	< 0.5	4	0.67	< 0.5	8	103	871	4.62	< 10	< 1	0.50	20	0.60	85	185
565816	299	229	0.2	1.47	2	190	< 0.5	< 2	0.60	< 0.5	6	100	371	2.23	< 10	< 1	0.64	20	1.02	120	98
565817	299	229	0.8	3.26	18	770	< 0.5	< 2	1.36	< 0.5	13	68	601	5.44	< 10	< 1	1.19	20	1.97	275	226
565818	299	229	< 0.2	2.68	< 2	360	< 0.5	< 2	1.89	< 0.5	12	61	565	4.77	< 10	< 1	1.06	10	1.68	285	156
565819	299	229	4.0	3.04	32	140	0.5	58	1.78	< 0.5	14	42	2690	5.18	10	< 1	1.35	20	1.84	275	128
565820	299	229	0.4	2.21	16	430	< 0.5	< 2	1.74	< 0.5	13	37	810	3.93	10	< 1	0.98	20	1.62	245	139
565821	299	229	0.4	1.74	6	320	0.5	< 2	1.51	< 0.5	8	99	916	2.84	10	< 1	0.79	30	1.06	155	467
565822	299	229	0.8	0.39	6	220	< 0.5	< 2	1.53	< 0.5	6	62	1095	0.91	< 10	< 1	0.17	30	0.09	95	264
565823	299	229	0.8	0.64	4	230	< 0.5	2	1.75	< 0.5	5	118	1260	1.04	< 10	< 1	0.25	30	0.10	120	604
565824	299	229	0.4	0.63	20	170	0.5	2	1.63	< 0.5	6	73	877	1.28	< 10	< 1	0.20	30	0.25	230	238
565825	299	229	0.6	0.61	12	170	< 0.5	< 2	1.27	< 0.5	4	57	1440	1.62	< 10	< 1	0.27	40	0.19	85	626
565826	299	229	0.6	0.71	8	210	0.5	< 2	1.80	< 0.5	4	141	1440	1.11	< 10	< 1	0.28	40	0.22	110	575
565827	299	229	0.6	0.45	4	160	< 0.5	2	1.42	< 0.5	5	92	1085	1.38	< 10	< 1	0.22	30	0.12	90	396
565828	299	229	0.4	1.00	8	250	< 0.5	< 2	1.63	< 0.5	5	147	880	1.63	< 10	< 1	0.31	30	0.37	125	184
565829	299	229	0.2	0.83	60	150	< 0.5	2	2.71	< 0.5	6	83	531	2.01	< 10	< 1	0.27	30	0.41	290	191
565830	299	229	0.4	0.85	4	260	< 0.5	< 2	1.42	< 0.5	5	142	691	1.67	< 10	< 1	0.32	30	0.43	140	247
565831	299	229	0.2	1.75	6	460	0.5	< 2	2.13	< 0.5	8	41	755	2.17	10	< 1	0.82	30	1.20	235	324
565832	299	229	1.6	1.16	48	200	0.5	6	1.93	< 0.5	6	160	787	1.49	< 10	< 1	0.51	30	0.53	1020	346
565833	299	229	0.4	0.88	12	260	< 0.5	< 2	1.81	< 0.5	5	82	892	1.11	< 10	< 1	0.39	30	0.60	520	474
565834	299	229	0.4	1.02	14	120	0.5	< 2	1.55	< 0.5	7	155	579	1.67	10	< 1	0.42	30	0.60	605	239
565835	299	229	0.8	0.81	80	160	0.5	< 2	2.08	< 0.5	9	45	1060	1.66	< 10	< 1	0.32	20	0.74	1730	226
565836	299	229	28.2	0.60	188	280	< 0.5	2	1.61	4.0	4	167	1055	1.11	< 10	< 1	0.30	30	0.41	2420	159
565837	299	229	0.6	0.42	20	250	< 0.5	2	1.48	< 0.5	3	81	355	0.84	< 10	< 1	0.20	30	0.37	670	189
565838	299	229	2.8	1.78	48	260	< 0.5	< 2	1.76	0.5	11	59	1330	2.92	10	< 1	0.93	20	1.37	810	50
565839	299	229	0.4	1.92	14	410	0.5	< 2	4.30	< 0.5	11	36	991	2.79	10	< 1	0.94	10	1.30	450	269
565840	299	229	0.6	2.29	12	140	< 0.5	< 2	2.25	< 0.5	11	79	898	3.38	10	< 1	1.28	10	1.76	200	135
565841	299	229	0.6	2.30	12	200	< 0.5	< 2	2.06	< 0.5	12	46	817	4.10	10	< 1	1.17	10	1.72	240	109
565842	299	229	0.2	2.32	< 2	230	< 0.5	< 2	2.30	< 0.5	11	106	491	3.60	10	< 1	1.40	20	1.74	175	237

CERTIFICATION: Stuart Buchler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565803	299	229	0.06	3	170	4	2	1	25	< 0.01	< 10	< 10	8	< 10	26
565804	299	229	0.06	3	130	4	2	< 1	22	< 0.01	< 10	< 10	1	< 10	36
565805	299	229	0.08	2	190	4	2	1	25	< 0.01	< 10	< 10	4	< 10	24
565806	299	229	0.07	3	140	4	2	< 1	22	< 0.01	< 10	< 10	1	< 10	20
565807	299	229	0.06	3	120	4	2	< 1	19	< 0.01	< 10	< 10	< 1	< 10	32
565808	299	229	0.07	2	110	8	< 2	< 1	21	< 0.01	< 10	< 10	2	< 10	26
565809	299	229	0.07	2	230	4	2	1	29	< 0.01	< 10	< 10	7	< 10	22
565810	299	229	0.08	3	500	2	< 2	7	26	0.04	< 10	< 10	46	< 10	24
565811	299	229	0.08	5	430	2	2	5	30	0.03	< 10	< 10	40	< 10	34
565812	299	229	0.08	6	490	2	2	5	20	0.03	< 10	< 10	37	< 10	22
565813	299	229	0.20	6	920	2	< 2	12	46	0.22	< 10	< 10	90	< 10	28
565814	299	229	0.19	5	760	< 2	2	16	52	0.26	< 10	< 10	121	< 10	34
565815	299	229	0.06	3	490	4	4	4	17	0.04	< 10	< 10	34	< 10	22
565816	299	229	0.12	6	520	4	2	10	28	0.18	< 10	< 10	70	< 10	32
565817	299	229	0.25	4	1340	2	4	18	96	0.28	< 10	< 10	147	10	62
565818	299	229	0.18	3	1150	< 2	2	16	85	0.25	< 10	< 10	131	10	42
565819	299	229	0.06	4	1340	6	2	18	56	0.18	< 10	< 10	137	10	52
565820	299	229	0.09	3	1110	< 2	2	14	56	0.19	< 10	< 10	116	< 10	50
565821	299	229	0.09	3	800	< 2	< 2	10	43	0.13	< 10	< 10	75	< 10	28
565822	299	229	0.02	3	290	8	2	1	35	< 0.01	< 10	< 10	6	< 10	18
565823	299	229	0.02	3	240	4	2	1	31	< 0.01	< 10	< 10	5	< 10	18
565824	299	229	0.02	2	340	8	6	1	30	< 0.01	< 10	< 10	8	< 10	22
565825	299	229	0.03	2	430	6	2	2	24	< 0.01	< 10	< 10	12	< 10	16
565826	299	229	0.03	2	350	2	2	1	33	< 0.01	< 10	< 10	8	< 10	14
565827	299	229	0.02	2	320	4	2	1	26	< 0.01	< 10	< 10	5	< 10	18
565828	299	229	0.06	3	400	2	2	2	43	< 0.01	< 10	< 10	20	< 10	18
565829	299	229	0.02	3	550	4	6	2	39	< 0.01	< 10	< 10	20	< 10	28
565830	299	229	0.04	3	370	4	2	2	52	< 0.01	< 10	< 10	17	20	12
565831	299	229	0.03	4	850	< 2	2	12	95	0.11	< 10	< 10	76	< 10	20
565832	299	229	0.04	5	450	6	14	5	45	0.01	< 10	< 10	27	10	22
565833	299	229	0.03	4	430	4	2	6	52	0.03	< 10	< 10	33	< 10	22
565834	299	229	0.03	4	430	6	4	6	178	0.01	< 10	< 10	27	10	18
565835	299	229	0.01	4	730	6	10	9	50	0.01	< 10	< 10	39	< 10	24
565836	299	229	0.01	4	230	88	192	1	27	< 0.01	< 10	< 10	4	< 10	132
565837	299	229	< 0.01	3	260	4	8	2	31	< 0.01	< 10	< 10	9	< 10	14
565838	299	229	0.03	4	830	4	22	14	91	0.15	< 10	< 10	100	< 10	44
565839	299	229	0.03	4	1030	2	4	17	233	0.14	< 10	< 10	101	< 10	24
565840	299	229	0.10	4	950	< 2	4	17	85	0.24	< 10	< 10	136	< 10	28
565841	299	229	0.14	5	930	< 2	2	15	101	0.25	< 10	< 10	142	< 10	34
565842	299	229	0.15	6	870	< 2	< 2	17	115	0.23	< 10	< 10	132	< 10	30

CERTIFICATION: Scott Bartlett

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CERTIFICATE OF ANALYSIS A9323089

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565843	299	229	0.2	2.27	8	380	< 0.5	< 2	1.81	< 0.5	17	86	594	4.75	10	< 1	1.28	20	1.78	245	324
565844	299	229	0.8	2.02	4	110	< 0.5	2	2.30	< 0.5	12	90	1240	3.50	10	< 1	0.92	20	1.36	185	280
565845	299	229	0.6	2.35	4	260	< 0.5	< 2	2.28	< 0.5	12	78	912	4.00	10	< 1	1.35	20	1.82	225	113
565846	299	229	0.4	1.68	6	270	< 0.5	< 2	2.12	< 0.5	9	106	851	2.58	10	< 1	0.98	20	1.27	155	339
565847	299	229	0.2	2.37	2	200	< 0.5	< 2	2.03	< 0.5	13	144	1465	3.56	10	< 1	1.32	10	1.75	195	84
565848	299	229	0.2	1.71	4	250	< 0.5	< 2	1.85	< 0.5	8	110	620	2.62	10	< 1	0.92	20	1.42	130	108
565849	299	229	0.4	1.84	4	200	< 0.5	< 2	1.99	< 0.5	9	207	798	2.62	10	< 1	1.02	20	1.32	135	230
565850	299	229	0.4	1.68	8	240	< 0.5	< 2	1.88	< 0.5	8	90	690	2.33	10	< 1	0.90	20	1.30	130	286
565851	299	229	0.4	1.80	2	150	< 0.5	< 2	3.14	< 0.5	8	180	620	2.44	10	< 1	0.92	20	1.15	135	291
565852	299	229	0.2	1.09	8	190	< 0.5	2	2.59	< 0.5	4	113	742	1.18	< 10	< 1	0.39	20	0.62	110	369
565853	299	229	1.2	1.92	28	170	0.5	< 2	2.46	< 0.5	7	139	1565	1.96	10	< 1	0.41	30	0.57	235	641
565854	299	229	0.2	1.64	8	270	< 0.5	< 2	2.55	< 0.5	7	137	451	1.92	10	< 1	0.99	20	1.18	175	230
565855	299	229	0.2	1.55	4	290	< 0.5	< 2	1.85	< 0.5	5	214	371	1.47	10	< 1	0.66	20	0.83	115	209
565856	299	229	0.4	0.91	12	360	< 0.5	2	1.63	< 0.5	4	179	590	0.89	< 10	< 1	0.31	30	0.39	105	897
565857	299	229	0.2	0.43	4	260	< 0.5	< 2	1.70	3.0	1	200	204	0.41	< 10	< 1	0.22	30	0.13	60	165
565858	299	229	0.6	0.67	6	250	< 0.5	< 2	1.42	0.5	2	297	513	0.62	< 10	< 1	0.34	30	0.15	65	1020
565859	299	229	0.2	1.08	4	180	< 0.5	< 2	1.63	< 0.5	3	259	327	0.89	10	< 1	0.48	30	0.59	85	156
565860	299	229	0.2	0.73	4	160	< 0.5	2	2.96	< 0.5	2	202	447	0.64	10	< 1	0.37	30	0.44	60	232
565861	299	229	0.2	1.11	6	240	< 0.5	< 2	1.70	< 0.5	4	262	329	1.05	< 10	< 1	0.65	30	0.82	90	81
565862	299	229	0.4	0.71	6	120	< 0.5	2	1.87	< 0.5	2	248	345	0.74	< 10	< 1	0.35	20	0.40	75	235
565863	299	229	0.2	0.72	< 2	140	< 0.5	2	1.55	< 0.5	3	325	367	0.79	< 10	< 1	0.33	20	0.34	75	199
565864	299	229	0.2	0.73	4	110	< 0.5	2	1.43	< 0.5	3	212	280	1.00	< 10	< 1	0.28	20	0.42	80	121
565865	299	229	0.2	0.82	8	140	< 0.5	2	1.90	< 0.5	3	297	253	0.87	< 10	< 1	0.34	20	0.36	75	213
565866	299	229	0.4	0.65	14	110	< 0.5	< 2	2.14	< 0.5	3	191	420	0.70	< 10	< 1	0.25	20	0.32	80	218
565867	299	229	0.2	0.86	4	150	< 0.5	2	2.24	< 0.5	2	386	334	0.67	< 10	< 1	0.39	20	0.31	75	334
565868	299	229	0.2	0.54	6	120	< 0.5	< 2	2.18	< 0.5	2	201	418	0.52	< 10	< 1	0.25	30	0.26	55	270
565869	299	229	0.4	1.44	< 2	150	< 0.5	< 2	3.15	< 0.5	4	182	509	1.27	10	< 1	0.73	20	0.94	100	439
565870	299	229	0.2	1.41	10	240	< 0.5	< 2	2.35	< 0.5	4	115	338	1.23	10	< 1	0.97	20	1.21	100	191
565871	299	229	0.4	1.14	< 2	120	< 0.5	< 2	4.38	< 0.5	3	216	393	1.10	10	< 1	0.49	20	0.52	100	1425
565872	299	229	0.6	1.08	6	170	< 0.5	4	1.61	< 0.5	3	195	584	1.18	< 10	< 1	0.42	30	0.59	90	649
565873	299	229	0.2	1.00	4	170	< 0.5	2	2.53	< 0.5	3	228	372	0.84	10	< 1	0.57	30	0.69	75	216
565874	299	229	0.2	1.34	6	260	< 0.5	< 2	2.52	< 0.5	4	173	440	1.29	10	< 1	0.83	30	1.11	95	237
565875	299	229	0.2	1.07	2	160	< 0.5	2	1.89	< 0.5	3	240	358	0.95	10	< 1	0.61	30	0.81	85	215
565876	299	229	0.4	1.94	6	250	< 0.5	< 2	2.19	< 0.5	9	105	655	2.83	10	< 1	1.38	20	1.60	150	247
565877	299	229	0.8	1.83	10	280	< 0.5	< 2	2.32	< 0.5	7	177	491	1.98	10	< 1	0.82	20	1.05	135	283
565878	299	229	0.2	1.13	8	350	< 0.5	2	1.85	< 0.5	3	160	272	1.02	< 10	< 1	0.51	30	0.72	110	193
565879	299	229	0.6	1.28	22	140	< 0.5	2	2.05	< 0.5	3	155	342	1.50	< 10	< 1	0.35	20	0.42	150	531
565880	299	229	0.8	1.82	8	780	0.5	< 2	1.29	< 0.5	8	110	1395	2.10	10	< 1	0.70	30	0.95	150	85
565881	299	229	1.2	1.02	34	320	< 0.5	2	1.42	0.5	3	199	251	1.03	< 10	< 1	0.41	30	0.39	385	189
565882	299	229	0.6	1.06	14	420	< 0.5	2	1.78	0.5	4	146	329	1.24	< 10	< 1	0.29	20	0.45	240	500

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565843	299	229	0.14	11	920	< 2	2	15	99	0.24	< 10	< 10	142	10	38
565844	299	229	0.07	4	890	< 2	2	12	100	0.15	< 10	< 10	108	< 10	28
565845	299	229	0.10	4	1150	< 2	2	15	109	0.24	< 10	< 10	144	10	40
565846	299	229	0.09	4	880	< 2	2	11	128	0.18	< 10	< 10	88	< 10	28
565847	299	229	0.17	7	940	2	< 2	17	99	0.26	< 10	< 10	139	10	36
565848	299	229	0.10	6	750	< 2	< 2	13	71	0.17	< 10	< 10	95	< 10	26
565849	299	229	0.12	8	740	< 2	2	14	84	0.17	< 10	< 10	99	< 10	28
565850	299	229	0.07	4	830	< 2	2	15	81	0.15	< 10	< 10	103	< 10	24
565851	299	229	0.07	6	740	2	2	14	193	0.13	< 10	< 10	89	< 10	24
565852	299	229	0.04	4	770	6	2	10	117	0.03	< 10	< 10	54	< 10	20
565853	299	229	0.02	6	980	6	14	14	85	0.01	< 10	< 10	57	< 10	28
565854	299	229	0.07	4	860	2	2	14	109	0.15	< 10	< 10	90	< 10	30
565855	299	229	0.07	5	440	4	2	10	106	0.09	< 10	< 10	55	< 10	32
565856	299	229	0.05	4	290	8	6	2	86	< 0.01	< 10	< 10	13	< 10	32
565857	299	229	0.05	3	120	12	< 2	< 1	80	< 0.01	< 10	< 10	3	< 10	328
565858	299	229	0.07	5	130	12	4	1	61	< 0.01	< 10	< 10	2	< 10	70
565859	299	229	0.10	5	350	8	2	6	171	0.03	< 10	< 10	29	< 10	30
565860	299	229	0.06	4	170	6	2	4	230	0.02	< 10	< 10	19	< 10	18
565861	299	229	0.11	5	520	6	2	7	81	0.09	< 10	< 10	42	< 10	24
565862	299	229	0.07	5	290	8	2	3	86	0.02	< 10	< 10	19	< 10	22
565863	299	229	0.11	5	200	8	2	3	76	0.01	< 10	< 10	18	< 10	20
565864	299	229	0.08	4	280	4	2	3	65	0.01	< 10	< 10	20	< 10	18
565865	299	229	0.10	5	260	6	2	2	142	< 0.01	< 10	< 10	15	< 10	18
565866	299	229	0.06	3	210	6	2	2	98	< 0.01	< 10	< 10	12	< 10	22
565867	299	229	0.11	6	200	6	2	2	120	< 0.01	< 10	< 10	12	< 10	16
565868	299	229	0.06	4	150	8	2	1	137	< 0.01	< 10	< 10	9	< 10	14
565869	299	229	0.10	6	490	4	2	11	182	0.10	< 10	< 10	52	< 10	24
565870	299	229	0.10	5	590	2	2	13	151	0.16	< 10	< 10	68	< 10	22
565871	299	229	0.05	4	260	4	4	5	225	0.03	< 10	< 10	25	< 10	20
565872	299	229	0.05	4	330	4	2	5	59	0.02	< 10	< 10	29	< 10	24
565873	299	229	0.07	6	350	6	2	7	146	0.06	< 10	< 10	36	< 10	20
565874	299	229	0.08	6	740	4	2	13	129	0.13	< 10	< 10	60	< 10	20
565875	299	229	0.09	6	350	6	< 2	8	99	0.07	< 10	< 10	40	< 10	20
565876	299	229	0.13	6	840	< 2	2	17	112	0.23	< 10	< 10	126	< 10	32
565877	299	229	0.12	6	750	8	4	12	128	0.12	< 10	< 10	78	< 10	32
565878	299	229	0.04	6	460	6	2	8	93	0.06	< 10	< 10	37	< 10	20
565879	299	229	0.01	4	360	6	26	5	23	< 0.01	< 10	< 10	23	< 10	28
565880	299	229	0.03	5	580	8	16	9	201	0.09	< 10	< 10	53	< 10	36
565881	299	229	0.01	4	240	14	18	2	42	< 0.01	< 10	< 10	9	< 10	40
565882	299	229	0.01	4	430	20	24	6	29	< 0.01	< 10	< 10	16	< 10	68

CERTIFICATION: Ian A. Bachlen

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CERTIFICATE OF ANALYSIS A9323089

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565883	299	229	0.2	1.14	16	150	< 0.5	< 2	0.70	< 0.5	2	219	258	0.69	< 10	< 1	0.41	20	0.25	120	311
565884	299	229	0.2	0.88	8	300	< 0.5	< 2	1.65	< 0.5	3	192	565	0.89	< 10	< 1	0.27	20	0.42	150	133
565885	299	229	0.6	1.97	6	690	0.5	< 2	2.13	< 0.5	5	215	1275	1.20	< 10	< 1	0.49	30	0.60	145	228

CERTIFICATION: Stuart Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565883	299	229	0.02	3	140	8	22	1	16	< 0.01	< 10	< 10	5	< 10	26
565884	299	229	0.02	4	290	8	10	3	35	< 0.01	< 10	< 10	15	< 10	24
565885	299	229	0.03	4	640	8	4	8	65	0.01	< 10	< 10	40	< 10	36

CERTIFICATION: Stuart Bradshaw

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
566833	208	274	0.05	0.013	0.07	6040						
566834	208	276	0.07	0.013	0.07	10460						
566835	208	276	0.18	0.022	0.10	8180						
566836	208	274	0.12	0.015	0.10	5760						
566837	208	274	0.03	0.016	0.07	2740						
566838	208	274	0.18	0.028	0.17	4900						
566839	208	274	0.13	0.030	0.10	6180						
566840	208	276	0.06	0.010	0.10	7400						
566841	208	273	0.11	0.015	0.14	12980						
566842	208	276	0.05	0.006	0.14	8240						
566843	208	274	0.05	0.004	0.17	5480						
566844	208	276	0.06	0.005	0.14	7960						
566845	208	274	0.04	0.003	0.10	6180						
566846	208	276	0.12	0.011	0.10	7880						
566847	208	274	0.14	0.007	0.21	6320						
566848	208	276	0.32	0.006	0.24	10320						
566849	208	274	0.17	0.005	0.17	5120						
566850	208	276	0.25	0.008	0.21	7340						
566851	208	276	0.45	0.015	0.27	10160						
566852	208	274	0.39	0.176	0.14	6980						
566853	208	276	0.28	0.006	0.03	9280						
566854	208	274	0.43	0.017	0.27	4020						
566855	208	274	0.23	0.009	0.14	3180						
566856	208	274	0.16	0.006	0.07	3840						
566857	208	274	0.17	0.007	0.07	6120						
566858	208	276	0.24	0.010	0.14	8520						
566859	208	276	0.41	0.047	0.72	10200						
566860	208	276	0.29	0.049	0.27	7540						
566861	208	274	0.40	0.002	0.45	3280						
566862	208	274	0.12	0.004	0.14	740						
566863	208	274	0.16	0.013	0.17	3380						
566864	208	276	0.17	0.008	0.10	8440						
566865	208	276	0.16	0.023	0.14	8920						
566866	208	276	0.10	0.012	0.27	9340						
566867	208	274	0.15	0.004	0.24	5420						
566868	208	273	0.16	0.012	0.14	13600						
566869	208	276	0.17	0.072	0.21	11320						
566870	208	276	0.28	0.010	0.27	11220						
566871	208	273	0.55	0.008	1.17	13060						
566872	208	273	0.26	0.023	0.24	14780						

CERTIFICATION: David Tenab

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323183

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566873	208 273	0.28	0.039	0.24	12960
566874	208 273	0.19	0.060	0.17	11880
566875	208 273	0.21	0.048	0.17	12540
566876	208 276	0.16	0.041	0.14	11000
566877	208 273	0.20	0.044	0.17	12200
566878	208 274	0.20	0.158	0.14	6340
566879	208 273	0.18	0.067	0.17	15040
566880	208 276	0.14	0.025	0.10	11760
566881	208 273	0.16	0.096	0.14	12500
566882	208 276	0.23	0.124	0.21	11480
566883	208 273	0.24	0.023	0.24	13100
566884	208 276	0.14	0.072	0.14	11560
566885	208 276	0.07	0.120	0.07	11600
566886	208 276	0.10	0.072	0.07	10620
566887	208 276	0.11	0.102	0.14	11180
566888	208 273	0.11	0.073	0.17	12800
566889	208 273	0.17	0.034	0.14	14120
566890	208 273	0.14	0.120	0.10	12100
566891	208 276	0.20	0.054	0.21	10760
566892	208 276	0.10	0.106	0.10	11720
566893	208 276	0.09	0.114	0.03	10900
566894	208 276	0.13	0.034	0.07	11460
566895	208 273	0.20	0.054	0.17	13080
566896	208 276	0.09	0.110	0.10	11780
566897	208 273	0.07	0.048	0.07	12700
566898	208 273	0.06	0.045	0.03	12280
566899	208 273	0.07	0.084	0.10	12460
566900	208 273	0.07	0.031	0.07	13300
566901	208 273	0.05	0.025	< 0.03	13020
566902	208 273	0.09	0.032	0.03	12480
566903	208 273	0.22	0.032	0.14	13880
566904	208 273	0.10	0.118	0.03	13480
566905	208 273	0.16	0.059	0.10	12700
566906	208 273	0.11	0.041	0.10	13280
566907	208 273	0.14	0.104	0.07	12740
566908	208 273	0.09	0.038	0.07	13440
566909	208 273	0.09	0.020	0.10	12480
566910	208 273	0.08	0.048	0.07	12880
566911	208 273	0.11	0.097	0.07	12900
566912	208 273	0.11	0.073	0.10	12700

CERTIFICATION: Sivert Teinp

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 220
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9323183

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
566913	208 273	0.33	0.045	0.34	14260
566914	208 273	0.11	0.056	0.14	13780
566915	208 273	0.13	0.026	0.14	14040
566916	208 273	0.27	0.021	0.24	14320
566917	208 273	0.21	0.025	0.27	14820
566918	208 273	0.19	0.016	0.14	12520
566919	208 273	0.17	0.054	0.17	13000
566920	208 273	0.10	0.036	0.07	13460
566921	208 273	0.23	0.037	0.17	12760
566922	208 273	0.59	0.055	0.51	12960
566923	208 273	0.11	0.064	0.10	12340
566924	208 273	0.13	0.059	0.10	12660
566925	208 273	0.13	0.178	0.14	11980
566926	208 273	0.09	0.077	0.07	12180
566927	208 273	0.05	0.089	0.03	12840
566928	208 273	0.05	0.044	0.07	12240
566929	208 273	0.06	0.062	0.07	12200
566930	208 273	0.08	0.027	0.10	13020
566931	208 273	0.07	0.058	0.07	12780
566932	208 273	0.07	0.079	0.14	12360
566933	208 273	0.13	0.039	0.17	12460
566934	208 273	0.15	0.042	0.24	12760
566935	208 273	0.16	0.026	0.17	12040
566936	208 273	0.09	0.034	0.10	11820
566937	208 273	0.10	0.068	0.14	12300
566938	208 273	0.06	0.025	0.07	13180
566939	208 273	0.06	0.085	0.10	13380
566940	208 273	0.12	0.034	0.14	13900
566941	208 273	0.08	0.047	0.07	13380
566942	208 274	0.09	0.078	0.07	6300
566943	208 273	0.05	0.117	0.03	12980
566944	208 273	0.08	0.032	0.10	11920
566945	208 273	0.06	0.305	0.07	12180
566946	208 273	0.04	0.033	0.07	12580
566947	208 273	0.04	0.066	0.07	12920
566948	208 276	0.07	0.043	0.10	11760
566949	208 273	0.04	0.046	< 0.03	14080
566950	208 273	0.05	0.020	0.03	13040
566951	208 273	0.05	0.042	< 0.03	12420
566952	208 273	0.06	0.084	0.03	12240

CERTIFICATION: David Tetrault

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9323183

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
566953	208	273	0.10	0.066	0.07	12080
566954	208	276	0.04	0.129	0.03	11680
566955	208	276	0.04	0.040	< 0.03	11660
566956	208	276	0.05	0.038	0.07	11560
566957	208	273	0.05	0.118	0.03	12820
566958	208	273	0.06	0.111	0.07	12740

CERTIFICATION: Saul Terziotti

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Total Pages :4
Certificate Date: 23-OCT-93
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CERTIFICATE OF ANALYSIS A9323184

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566833	299	229	0.8	0.93	6	380	< 0.5	< 2	0.09	< 0.5	3	134	463	0.96	< 10	< 1	0.45	20	0.09	20	76
566834	299	229	0.6	1.08	6	450	< 0.5	< 2	0.06	< 0.5	3	166	663	1.08	< 10	< 1	0.54	30	0.08	15	81
566835	299	229	0.6	1.00	6	510	< 0.5	2	0.13	< 0.5	6	153	1835	0.99	< 10	< 1	0.49	40	0.08	15	136
566836	299	229	0.8	0.99	14	620	< 0.5	< 2	0.10	< 0.5	6	147	1230	1.09	< 10	< 1	0.38	30	0.08	15	86
566837	299	229	0.6	1.37	12	500	< 0.5	< 2	0.13	< 0.5	2	128	307	1.13	< 10	< 1	0.52	40	0.33	35	99
566838	299	229	1.2	1.96	12	270	< 0.5	4	0.20	< 0.5	6	76	1835	1.63	< 10	< 1	0.53	40	0.34	30	166
566839	299	229	1.6	0.86	12	530	< 0.5	2	0.10	< 0.5	4	101	1265	1.02	< 10	< 1	0.35	30	0.06	15	181
566840	299	229	1.2	0.74	6	540	< 0.5	2	0.06	< 0.5	3	121	581	0.80	< 10	< 1	0.35	40	0.04	10	67
566841	299	229	1.6	0.73	22	380	< 0.5	6	0.06	< 0.5	4	98	1070	1.22	< 10	< 1	0.34	30	0.06	15	92
566842	299	229	2.0	3.63	22	280	< 0.5	< 2	0.28	< 0.5	6	75	449	2.91	10	< 1	1.06	20	1.77	135	36
566843	299	229	1.6	2.96	8	190	< 0.5	< 2	0.28	< 0.5	4	69	427	2.46	10	< 1	0.86	10	1.44	135	22
566844	299	229	2.2	3.21	14	210	< 0.5	< 2	0.34	< 0.5	7	73	563	3.47	10	< 1	1.07	20	1.79	165	32
566845	299	229	1.6	3.02	12	200	< 0.5	< 2	0.29	< 0.5	7	90	343	3.20	10	< 1	0.81	10	1.63	165	21
566846	299	229	1.4	3.43	12	360	< 0.5	< 2	0.28	< 0.5	10	59	1110	3.23	10	< 1	1.10	20	1.92	200	63
566847	299	229	1.6	2.71	16	310	< 0.5	2	0.30	< 0.5	13	84	1215	3.16	10	< 1	1.02	20	1.48	160	38
566848	299	229	1.2	3.90	30	350	< 0.5	< 2	0.49	< 0.5	17	53	3070	4.54	10	1	1.08	20	2.17	210	36
566849	299	229	1.2	2.51	20	240	< 0.5	< 2	0.29	< 0.5	10	96	1615	2.70	10	< 1	0.81	20	1.36	150	36
566850	299	229	0.6	2.07	8	260	< 0.5	< 2	0.18	< 0.5	11	131	2470	2.81	10	< 1	0.70	20	1.13	145	51
566851	299	229	1.2	3.00	14	340	< 0.5	< 2	0.45	1.0	15	79	4490	3.33	10	< 1	1.07	20	1.68	225	90
566852	299	229	0.2	4.58	14	600	< 0.5	< 2	0.83	< 0.5	18	73	3740	4.28	10	< 1	1.49	20	2.32	205	991
566853	299	229	< 0.2	4.70	6	780	< 0.5	< 2	1.11	0.5	20	46	2570	4.85	10	< 1	1.76	20	2.46	235	26
566854	299	229	0.8	4.13	18	590	0.5	< 2	0.76	< 0.5	17	45	4310	3.89	10	< 1	1.53	20	2.50	220	87
566855	299	229	1.6	3.08	10	350	< 0.5	< 2	0.71	< 0.5	14	74	2300	3.99	10	< 1	1.12	20	1.87	240	51
566856	299	229	0.8	2.68	12	650	< 0.5	< 2	0.53	< 0.5	13	90	1515	3.26	10	< 1	1.17	10	1.87	220	41
566857	299	229	1.0	2.68	14	680	< 0.5	< 2	0.68	0.5	14	88	1550	3.71	< 10	< 1	1.15	10	1.74	190	38
566858	299	229	0.6	4.02	14	790	< 0.5	< 2	1.26	0.5	19	56	2270	4.53	10	< 1	1.41	20	2.27	250	49
566859	299	229	1.2	4.73	12	850	< 0.5	< 2	1.41	1.0	20	64	4130	4.50	10	1	2.01	20	2.76	260	256
566860	299	229	1.2	4.73	12	930	< 0.5	< 2	1.54	1.5	21	47	2770	4.91	10	< 1	1.94	20	2.56	255	265
566861	299	229	1.8	4.90	14	570	< 0.5	< 2	1.94	0.5	22	68	4070	5.19	10	< 1	1.33	20	2.39	265	9
566862	299	229	0.6	4.80	10	740	< 0.5	< 2	1.58	< 0.5	17	68	1075	5.00	< 10	< 1	1.90	20	2.72	290	18
566863	299	229	1.2	5.37	16	710	0.5	< 2	2.34	< 0.5	16	43	1470	4.34	< 10	1	2.13	20	2.96	355	59
566864	299	229	0.8	3.21	14	480	< 0.5	< 2	1.39	< 0.5	15	88	1670	3.86	10	< 1	1.21	20	1.74	250	50
566865	299	229	1.0	3.36	132	360	< 0.5	< 2	2.55	< 0.5	15	70	1565	3.71	10	< 1	0.97	30	1.43	285	136
566866	299	229	0.6	4.18	12	590	< 0.5	< 2	2.12	< 0.5	15	58	917	4.76	10	< 1	1.45	20	1.91	290	70
566867	299	229	0.4	3.80	76	610	< 0.5	< 2	2.31	< 0.5	16	50	1440	4.52	10	< 1	1.50	30	2.01	390	17
566868	299	229	0.6	1.15	36	280	< 0.5	2	2.49	< 0.5	16	32	1520	3.80	10	< 1	0.11	30	0.83	610	65
566869	299	229	2.6	1.35	148	120	< 0.5	8	1.44	< 0.5	15	49	1740	3.54	10	< 1	0.21	60	0.60	1340	418
566870	299	229	17.8	1.05	596	100	< 0.5	30	1.41	2.0	17	47	2930	4.50	10	< 1	0.15	60	0.69	1260	60
566871	299	229	28.0	1.53	1070	130	0.5	190	3.57	6.0	19	27	6150	5.22	10	< 1	0.42	30	0.86	1310	47
566872	299	229	2.8	1.49	38	110	0.5	2	3.87	< 0.5	26	16	2800	3.86	10	< 1	0.48	20	1.02	515	135

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 220
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Certificate Date: 23-OCT-93
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CERTIFICATE OF ANALYSIS A9323184

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566833	299	229	0.08	3	170	12	< 2	1	16	< 0.01	< 10	< 10	5	< 10	22
566834	299	229	0.09	3	170	14	< 2	1	17	< 0.01	< 10	< 10	6	< 10	22
566835	299	229	0.08	3	170	10	< 2	1	20	< 0.01	< 10	< 10	4	< 10	20
566836	299	229	0.07	4	170	8	2	< 1	23	< 0.01	< 10	< 10	3	< 10	24
566837	299	229	0.05	2	230	6	2	3	19	0.01	< 10	< 10	22	< 10	26
566838	299	229	0.02	3	220	14	< 2	4	18	< 0.01	< 10	< 10	32	< 10	42
566839	299	229	0.03	2	160	6	< 2	< 1	19	< 0.01	< 10	< 10	3	< 10	16
566840	299	229	0.03	2	150	8	< 2	< 1	16	< 0.01	< 10	< 10	3	< 10	12
566841	299	229	0.04	3	170	10	2	< 1	13	< 0.01	< 10	< 10	4	< 10	16
566842	299	229	0.08	4	810	8	2	15	22	0.16	< 10	< 10	124	< 10	60
566843	299	229	0.09	6	700	8	< 2	14	20	0.14	< 10	< 10	105	< 10	52
566844	299	229	0.08	7	870	8	2	18	20	0.22	< 10	< 10	147	< 10	62
566845	299	229	0.08	6	880	12	2	14	19	0.12	< 10	< 10	118	< 10	64
566846	299	229	0.06	6	910	12	< 2	14	20	0.12	< 10	< 10	125	< 10	64
566847	299	229	0.08	5	690	10	2	14	20	0.19	< 10	< 10	119	< 10	50
566848	299	229	0.07	9	1070	10	< 2	20	27	0.25	< 10	< 10	176	< 10	68
566849	299	229	0.09	8	710	20	2	11	21	0.14	< 10	< 10	100	< 10	52
566850	299	229	0.08	6	530	6	< 2	7	17	0.06	< 10	< 10	80	< 10	44
566851	299	229	0.11	9	940	30	2	13	46	0.22	< 10	< 10	122	< 10	200
566852	299	229	0.20	12	1410	10	2	19	84	0.26	< 10	< 10	176	10	84
566853	299	229	0.25	14	1420	10	< 2	22	113	0.36	< 10	< 10	191	10	142
566854	299	229	0.18	12	1320	10	4	20	53	0.30	< 10	< 10	180	10	92
566855	299	229	0.19	8	1030	12	< 2	16	56	0.24	< 10	< 10	141	10	82
566856	299	229	0.15	9	1040	12	4	15	44	0.27	< 10	< 10	141	10	72
566857	299	229	0.19	7	1070	6	4	12	60	0.31	< 10	< 10	134	10	60
566858	299	229	0.27	9	1440	4	2	18	402	0.35	< 10	< 10	188	10	92
566859	299	229	0.37	12	1410	6	6	25	234	0.39	< 10	< 10	225	10	114
566860	299	229	0.33	8	1360	6	4	22	270	0.38	< 10	< 10	208	10	100
566861	299	229	0.48	9	1340	< 2	4	20	263	0.31	< 10	< 10	207	20	80
566862	299	229	0.33	9	1200	< 2	2	25	110	0.32	< 10	< 10	213	10	70
566863	299	229	0.21	9	1080	< 2	6	26	103	0.30	< 10	< 10	213	10	76
566864	299	229	0.22	6	1340	2	2	14	82	0.21	< 10	< 10	122	10	56
566865	299	229	0.19	4	1270	8	2	12	89	0.13	< 10	< 10	108	10	58
566866	299	229	0.32	6	1060	< 2	4	19	127	0.23	< 10	< 10	163	10	58
566867	299	229	0.25	6	1300	2	2	19	107	0.22	< 10	< 10	151	10	54
566868	299	229	0.01	7	1260	8	12	19	49	< 0.01	< 10	< 10	75	10	58
566869	299	229	0.01	27	640	24	22	12	26	< 0.01	< 10	< 10	43	10	58
566870	299	229	< 0.01	31	1700	28	152	9	47	< 0.01	< 10	< 10	36	10	172
566871	299	229	0.02	17	1530	46	130	8	204	0.02	< 10	< 10	43	10	432
566872	299	229	0.02	5	790	16	4	12	346	0.02	< 10	< 10	60	10	110

CERTIFICATION: Stan H Bradley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566873	299	229	3.6	1.02	28	100	0.5	6	3.58	0.5	21	17	2710	2.56	< 10	< 1	0.25	20	0.87	425	247
566874	299	229	4.4	0.83	28	140	< 0.5	8	1.66	8.0	8	62	1805	1.63	< 10	< 1	0.33	30	0.45	320	393
566875	299	229	2.2	0.74	16	190	< 0.5	4	1.71	0.5	10	77	2050	1.78	< 10	< 1	0.30	20	0.46	265	317
566876	299	229	0.6	1.40	8	490	< 0.5	4	1.19	< 0.5	11	95	1435	1.28	10	< 1	0.35	30	0.34	135	267
566877	299	229	1.0	0.97	24	340	< 0.5	4	1.50	< 0.5	9	100	1895	1.33	< 10	< 1	0.30	30	0.40	220	298
566878	299	229	1.4	1.05	16	110	< 0.5	4	1.41	< 0.5	9	103	1880	1.37	< 10	< 1	0.34	40	0.32	195	970
566879	299	229	0.8	1.11	14	130	< 0.5	2	1.93	< 0.5	8	77	1655	1.65	< 10	< 1	0.24	30	0.38	280	417
566880	299	229	2.6	1.52	30	160	< 0.5	4	1.33	< 0.5	10	71	1270	3.04	10	< 1	0.29	30	0.49	190	159
566881	299	229	3.8	0.94	20	110	< 0.5	6	1.57	0.5	11	84	1615	2.59	< 10	< 1	0.30	20	0.42	260	608
566882	299	229	1.2	1.08	18	110	< 0.5	2	1.22	< 0.5	10	55	2280	1.73	< 10	< 1	0.25	30	0.23	205	816
566883	299	229	1.0	1.06	16	210	< 0.5	2	0.97	< 0.5	11	75	2170	1.44	< 10	< 1	0.21	30	0.18	105	148
566884	299	229	1.8	1.00	20	180	< 0.5	2	0.81	0.5	6	68	1350	1.56	< 10	< 1	0.29	30	0.26	170	468
566885	299	229	0.4	0.98	16	320	< 0.5	2	1.08	< 0.5	7	100	684	1.14	< 10	< 1	0.26	30	0.36	175	771
566886	299	229	0.8	0.85	26	330	< 0.5	< 2	1.10	< 0.5	4	81	953	1.20	< 10	< 1	0.27	30	0.36	220	467
566887	299	229	0.8	1.13	28	340	< 0.5	< 2	0.86	< 0.5	6	52	1125	1.47	< 10	< 1	0.25	30	0.31	195	693
566888	299	229	1.2	1.19	26	360	< 0.5	< 2	1.11	0.5	7	57	1160	1.59	< 10	< 1	0.26	30	0.31	215	519
566889	299	229	2.2	0.86	28	250	< 0.5	4	0.89	1.0	6	68	1650	1.35	< 10	< 1	0.26	20	0.27	140	230
566890	299	229	0.8	0.73	32	350	< 0.5	< 2	1.17	< 0.5	5	54	1285	1.06	< 10	< 1	0.17	30	0.34	155	789
566891	299	229	0.8	0.98	24	420	< 0.5	2	1.51	< 0.5	6	82	1950	1.26	< 10	< 1	0.24	30	0.40	155	348
566892	299	229	2.6	0.88	34	240	< 0.5	< 2	1.18	< 0.5	5	67	960	1.73	< 10	< 1	0.22	30	0.34	330	700
566893	299	229	0.6	0.82	18	230	< 0.5	< 2	1.11	0.5	5	68	892	1.61	< 10	< 1	0.20	30	0.31	275	737
566894	299	229	0.6	0.60	14	310	< 0.5	< 2	1.20	< 0.5	3	65	1240	1.01	< 10	< 1	0.14	30	0.31	180	203
566895	299	229	10.2	0.70	48	200	< 0.5	4	1.60	19.0	3	52	1870	1.38	< 10	< 1	0.25	40	0.48	310	308
566896	299	229	4.0	0.73	24	120	< 0.5	2	1.68	10.0	4	67	879	2.47	< 10	< 1	0.25	30	0.45	395	643
566897	299	229	2.0	1.00	16	280	< 0.5	< 2	1.76	10.0	4	62	622	1.77	< 10	< 1	0.30	30	0.60	335	270
566898	299	229	1.4	0.91	8	250	< 0.5	< 2	1.64	6.0	4	76	564	1.11	< 10	< 1	0.32	30	0.51	190	261
566899	299	229	0.4	1.02	4	190	< 0.5	< 2	2.41	0.5	4	98	691	1.19	10	< 1	0.41	30	0.61	120	474
566900	299	229	0.4	1.08	2	170	< 0.5	< 2	2.23	< 0.5	5	122	713	1.58	10	< 1	0.58	30	0.83	140	189
566901	299	229	0.2	1.17	12	260	< 0.5	< 2	1.82	0.5	6	130	482	1.64	10	< 1	0.58	30	0.77	120	142
566902	299	229	0.2	1.56	4	510	< 0.5	< 2	1.87	< 0.5	9	115	859	2.62	10	< 1	1.04	40	1.25	170	179
566903	299	229	3.4	1.08	12	130	< 0.5	8	3.09	0.5	8	106	2140	2.29	< 10	< 1	0.41	20	0.57	245	170
566904	299	229	1.4	0.67	10	290	< 0.5	6	3.79	< 0.5	3	125	1005	0.87	< 10	< 1	0.21	30	0.45	220	675
566905	299	229	1.8	0.71	18	230	< 0.5	6	3.09	0.5	6	91	1620	1.54	< 10	< 1	0.25	20	0.56	190	333
566906	299	229	0.4	1.04	8	140	0.5	< 2	2.94	< 0.5	3	108	1060	0.95	< 10	< 1	0.22	30	0.59	130	223
566907	299	229	1.2	0.90	8	310	< 0.5	2	2.70	< 0.5	3	131	1395	0.79	< 10	< 1	0.28	30	0.27	145	591
566908	299	229	0.8	1.10	16	210	0.5	4	2.48	< 0.5	6	69	825	1.38	10	< 1	0.38	20	0.40	155	221
566909	299	229	0.8	1.02	6	330	< 0.5	4	2.28	< 0.5	5	106	839	1.24	< 10	< 1	0.33	30	0.28	180	112
566910	299	229	0.6	2.39	8	590	< 0.5	< 2	2.06	< 0.5	9	67	726	3.20	10	< 1	1.09	20	1.44	280	268
566911	299	229	0.4	2.34	< 2	740	< 0.5	< 2	1.84	< 0.5	10	47	1035	3.14	10	< 1	1.23	30	1.50	230	505
566912	299	229	0.8	2.83	< 2	750	< 0.5	< 2	1.73	< 0.5	12	36	1025	3.75	10	< 1	1.42	20	1.85	340	364

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 220
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-OCT-93
Invoice No. :I9323184
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323184

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566873	299	229	0.02	7	750	22	6	8	152	< 0.01	< 10	< 10	24	10	110
566874	299	229	0.01	3	290	112	36	2	32	< 0.01	< 10	< 10	14	< 10	822
566875	299	229	0.01	3	420	12	26	3	32	< 0.01	< 10	< 10	14	< 10	86
566876	299	229	0.01	4	530	12	8	9	43	0.01	< 10	< 10	42	< 10	44
566877	299	229	0.01	4	450	16	18	7	27	< 0.01	< 10	< 10	29	< 10	54
566878	299	229	0.01	4	430	6	12	7	21	< 0.01	< 10	< 10	29	< 10	46
566879	299	229	< 0.01	5	570	12	16	9	23	< 0.01	< 10	< 10	34	< 10	50
566880	299	229	0.01	13	890	18	12	4	50	< 0.01	< 10	< 10	21	< 10	98
566881	299	229	0.01	5	410	18	12	5	26	< 0.01	< 10	< 10	19	< 10	138
566882	299	229	0.01	3	430	12	6	7	17	< 0.01	< 10	< 10	28	< 10	44
566883	299	229	0.01	3	440	16	6	6	27	< 0.01	< 10	< 10	26	< 10	50
566884	299	229	< 0.01	2	410	20	12	4	18	< 0.01	< 10	< 10	16	< 10	88
566885	299	229	0.01	2	340	22	14	2	33	< 0.01	< 10	< 10	10	< 10	30
566886	299	229	0.01	2	410	18	46	2	20	< 0.01	< 10	< 10	12	< 10	52
566887	299	229	0.01	3	550	14	38	5	19	< 0.01	< 10	< 10	19	< 10	42
566888	299	229	0.01	3	630	24	26	6	24	< 0.01	< 10	< 10	21	< 10	98
566889	299	229	0.01	3	430	30	28	2	22	< 0.01	< 10	< 10	10	< 10	154
566890	299	229	0.01	2	560	26	44	6	22	< 0.01	< 10	< 10	17	< 10	40
566891	299	229	0.02	2	540	10	16	4	67	< 0.01	< 10	< 10	18	< 10	44
566892	299	229	0.01	2	610	48	22	6	25	< 0.01	< 10	< 10	20	< 10	70
566893	299	229	< 0.01	3	620	36	18	5	23	< 0.01	< 10	< 10	18	< 10	76
566894	299	229	0.01	3	420	20	8	4	27	< 0.01	< 10	< 10	15	< 10	36
566895	299	229	0.01	3	500	1125	50	2	28	< 0.01	< 10	< 10	13	< 10	1610
566896	299	229	0.01	3	610	548	14	3	33	< 0.01	< 10	< 10	15	10	832
566897	299	229	0.03	3	570	386	4	3	94	< 0.01	< 10	< 10	26	< 10	866
566898	299	229	0.03	2	320	292	4	3	91	0.01	< 10	< 10	25	< 10	522
566899	299	229	0.04	4	380	40	4	8	171	0.04	< 10	< 10	44	< 10	60
566900	299	229	0.07	3	420	12	2	10	113	0.09	< 10	< 10	59	< 10	36
566901	299	229	0.09	3	430	56	2	10	109	0.10	< 10	< 10	57	< 10	100
566902	299	229	0.09	6	640	8	2	17	102	0.20	< 10	< 10	102	10	34
566903	299	229	0.02	4	580	52	4	7	77	0.01	< 10	< 10	34	10	122
566904	299	229	0.01	4	330	54	4	4	119	< 0.01	< 10	< 10	18	< 10	62
566905	299	229	0.01	3	470	26	2	4	86	< 0.01	< 10	< 10	14	< 10	82
566906	299	229	0.03	3	370	14	2	6	119	< 0.01	< 10	< 10	25	< 10	36
566907	299	229	0.03	4	570	14	4	4	161	< 0.01	< 10	< 10	20	< 10	42
566908	299	229	0.07	3	430	16	2	7	109	0.02	< 10	< 10	33	< 10	44
566909	299	229	0.05	3	320	14	2	3	107	< 0.01	< 10	< 10	18	< 10	52
566910	299	229	0.08	4	1050	4	2	15	75	0.19	< 10	< 10	112	10	56
566911	299	229	0.08	2	1180	6	4	16	55	0.24	< 10	< 10	115	20	44
566912	299	229	0.09	4	1090	8	4	20	59	0.27	< 10	< 10	162	20	70

CERTIFICATION: Ian J. Bradley

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 220
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9323184

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566913	299	229	0.8	2.40	4	550	< 0.5	< 2	1.58	< 0.5	12	93	3170	2.91	10	< 1	1.34	20	1.53	195	249
566914	299	229	0.4	2.14	8	270	< 0.5	< 2	2.66	< 0.5	10	72	1010	3.03	10	1	1.27	20	1.50	185	298
566915	299	229	0.8	2.72	12	550	< 0.5	< 2	2.69	< 0.5	13	115	1235	3.66	10	< 1	1.35	20	1.77	270	140
566916	299	229	2.0	2.57	18	90	< 0.5	2	2.85	< 0.5	19	99	2700	4.88	10	1	0.82	20	1.55	320	115
566917	299	229	1.6	2.95	14	390	< 0.5	< 2	3.11	< 0.5	13	65	1975	4.03	10	1	0.94	20	1.77	420	134
566918	299	229	1.2	2.85	14	500	< 0.5	< 2	3.07	< 0.5	14	67	1875	3.45	10	1	1.20	20	1.78	380	90
566919	299	229	2.2	2.09	46	360	0.5	2	5.30	0.5	14	51	1685	3.03	10	< 1	0.61	10	0.90	715	284
566920	299	229	2.6	2.39	60	390	0.5	14	4.13	0.5	12	64	953	3.70	10	< 1	0.69	10	1.03	465	188
566921	299	229	1.2	2.18	18	350	0.5	< 2	4.16	< 0.5	14	45	2340	2.98	10	< 1	0.57	20	0.84	345	205
566922	299	229	1.6	2.07	14	320	0.5	< 2	4.49	< 0.5	15	48	6160	2.41	10	< 1	0.67	20	0.89	360	312
566923	299	229	0.6	2.04	10	570	0.5	< 2	4.49	0.5	12	50	1065	2.58	10	< 1	0.76	20	0.92	340	362
566924	299	229	0.8	2.38	10	590	< 0.5	< 2	3.56	< 0.5	12	78	1305	3.11	10	< 1	1.27	20	1.56	245	338
566925	299	229	0.6	1.92	12	490	< 0.5	< 2	2.14	< 0.5	10	51	1225	2.10	10	< 1	1.04	30	1.21	150	946
566926	299	229	0.6	0.85	12	240	< 0.5	2	2.12	< 0.5	4	150	880	1.11	< 10	< 1	0.38	20	0.39	160	472
566927	299	229	0.2	0.45	20	350	< 0.5	< 2	1.49	< 0.5	2	138	548	0.62	< 10	< 1	0.21	20	0.22	120	565
566928	299	229	0.4	0.61	26	310	< 0.5	< 2	1.52	< 0.5	2	160	559	0.83	< 10	< 1	0.23	20	0.35	165	281
566929	299	229	0.6	0.57	18	450	< 0.5	2	1.63	< 0.5	2	187	617	0.91	< 10	< 1	0.25	20	0.18	145	393
566930	299	229	0.2	0.58	18	570	< 0.5	2	1.33	< 0.5	3	217	743	0.80	< 10	< 1	0.24	30	0.29	105	159
566931	299	229	0.8	0.55	26	250	< 0.5	< 2	1.40	< 0.5	3	177	682	1.10	< 10	< 1	0.22	30	0.27	110	358
566932	299	229	0.8	1.71	22	240	0.5	< 2	2.27	< 0.5	6	100	785	1.96	< 10	1	0.39	30	0.83	300	471
566933	299	229	0.8	1.82	16	790	0.5	< 2	2.44	< 0.5	10	76	1300	2.42	10	1	0.89	20	1.06	200	228
566934	299	229	1.0	1.40	18	480	0.5	< 2	3.11	< 0.5	10	71	1605	2.11	10	< 1	0.58	40	0.79	240	252
566935	299	229	0.8	1.44	22	730	0.5	< 2	3.16	< 0.5	12	61	1615	1.95	10	< 1	0.45	30	0.87	240	148
566936	299	229	0.4	1.78	14	610	0.5	< 2	3.34	< 0.5	9	72	906	2.11	10	< 1	0.69	30	0.93	220	207
566937	299	229	0.4	1.97	12	330	< 0.5	< 2	2.99	< 0.5	9	72	965	2.30	10	< 1	0.61	30	0.94	175	395
566938	299	229	0.2	2.34	12	230	< 0.5	< 2	2.58	< 0.5	13	44	628	3.97	10	< 1	1.20	20	1.55	260	144
566939	299	229	0.4	2.63	12	420	< 0.5	< 2	3.71	< 0.5	12	83	605	3.59	10	< 1	1.10	20	1.68	315	502
566940	299	229	1.4	2.44	16	80	< 0.5	< 2	2.61	< 0.5	18	35	1230	5.76	10	< 1	0.74	30	1.71	420	212
566941	299	229	0.6	2.82	2	320	< 0.5	< 2	2.49	< 0.5	14	92	763	3.92	10	< 1	1.40	20	1.97	335	254
566942	299	229	0.8	2.63	14	240	< 0.5	< 2	3.07	< 0.5	11	134	940	3.63	10	< 1	1.26	20	1.84	340	462
566943	299	229	0.2	2.46	4	550	< 0.5	< 2	2.10	< 0.5	11	107	465	3.16	10	< 1	1.39	20	1.84	225	679
566944	299	229	0.4	2.52	4	670	< 0.5	< 2	2.65	< 0.5	13	92	847	3.57	10	< 1	1.64	20	1.89	255	201
566945	299	229	0.2	2.13	2	110	< 0.5	< 2	5.15	< 0.5	9	111	583	2.52	10	< 1	1.46	20	1.67	180	1680
566946	299	229	< 0.2	2.29	2	320	< 0.5	< 2	3.37	< 0.5	11	93	447	3.39	10	< 1	1.19	20	1.68	250	197
566947	299	229	< 0.2	2.28	2	190	< 0.5	< 2	3.24	< 0.5	11	134	433	3.56	10	< 1	1.15	20	1.57	235	389
566948	299	229	0.2	2.64	20	700	0.5	< 2	3.68	< 0.5	12	80	727	3.24	10	< 1	1.32	20	1.66	230	261
566949	299	229	< 0.2	1.72	10	440	< 0.5	< 2	1.96	< 0.5	10	168	407	2.66	10	< 1	0.98	30	1.20	185	284
566950	299	229	< 0.2	2.51	16	440	< 0.5	< 2	2.17	< 0.5	15	98	513	3.90	10	1	1.22	20	1.78	400	118
566951	299	229	< 0.2	3.16	10	820	0.5	< 2	1.84	< 0.5	15	100	548	4.02	10	< 1	1.54	20	2.19	330	263
566952	299	229	< 0.2	2.46	6	470	< 0.5	< 2	1.87	< 0.5	14	138	611	3.47	10	< 1	1.30	20	1.79	275	485

CERTIFICATION: _____

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566913	299	229	0.09	3	1090	2	< 2	17	57	0.25	< 10	< 10	121	440	32
566914	299	229	0.10	4	1080	< 2	2	16	143	0.24	< 10	< 10	112	10	32
566915	299	229	0.15	4	1120	2	4	18	170	0.26	< 10	< 10	135	20	44
566916	299	229	0.11	6	1160	4	4	13	198	0.14	< 10	< 10	109	30	60
566917	299	229	0.07	4	1190	6	4	14	193	0.16	< 10	< 10	115	20	68
566918	299	229	0.08	5	1060	2	4	16	255	0.20	< 10	< 10	126	10	60
566919	299	229	0.02	4	930	10	28	10	146	0.05	< 10	< 10	64	10	88
566920	299	229	0.02	6	1000	20	22	14	195	0.07	< 10	< 10	85	20	88
566921	299	229	0.02	5	1190	14	6	17	171	0.06	< 10	< 10	92	10	78
566922	299	229	0.02	6	1200	6	4	15	134	0.06	< 10	< 10	86	< 10	48
566923	299	229	0.03	4	1120	8	2	14	183	0.11	< 10	< 10	82	10	76
566924	299	229	0.08	5	1230	2	4	19	387	0.23	< 10	< 10	130	10	42
566925	299	229	0.05	3	1030	6	4	15	246	0.17	< 10	< 10	106	10	28
566926	299	229	0.02	3	530	10	4	3	50	0.01	< 10	< 10	25	< 10	26
566927	299	229	0.02	3	170	8	6	< 1	51	< 0.01	< 10	< 10	1	< 10	18
566928	299	229	0.01	3	180	18	6	< 1	29	< 0.01	< 10	< 10	2	< 10	24
566929	299	229	0.01	2	170	18	6	< 1	55	< 0.01	< 10	< 10	2	< 10	40
566930	299	229	0.04	4	210	6	2	1	198	< 0.01	< 10	< 10	4	< 10	16
566931	299	229	0.02	3	170	16	4	< 1	61	< 0.01	< 10	< 10	2	< 10	22
566932	299	229	0.01	3	770	10	10	6	44	0.01	< 10	< 10	42	10	50
566933	299	229	0.06	5	1010	12	2	14	169	0.15	< 10	< 10	88	10	40
566934	299	229	0.04	4	1060	6	2	10	323	0.07	< 10	< 10	54	10	42
566935	299	229	0.05	5	870	8	2	14	810	0.04	< 10	< 10	69	10	50
566936	299	229	0.05	4	1080	6	2	12	707	0.10	< 10	< 10	76	10	30
566937	299	229	0.06	3	1220	4	4	10	247	0.07	< 10	< 10	64	10	32
566938	299	229	0.11	4	1340	2	2	14	201	0.24	< 10	< 10	134	20	40
566939	299	229	0.10	6	1320	< 2	4	17	446	0.20	< 10	< 10	143	10	48
566940	299	229	0.07	6	1260	< 2	2	12	137	0.14	< 10	< 10	129	20	76
566941	299	229	0.15	4	1270	2	2	17	143	0.28	< 10	< 10	166	10	68
566942	299	229	0.10	6	1280	< 2	4	15	144	0.21	< 10	< 10	141	10	62
566943	299	229	0.09	7	840	< 2	2	17	166	0.24	< 10	< 10	137	10	34
566944	299	229	0.08	9	910	2	2	22	246	0.26	< 10	< 10	154	10	38
566945	299	229	0.10	7	790	< 2	4	18	264	0.26	< 10	< 10	130	10	26
566946	299	229	0.10	6	910	6	2	17	195	0.23	< 10	< 10	132	10	40
566947	299	229	0.14	6	1040	2	2	15	169	0.23	< 10	< 10	123	10	42
566948	299	229	0.08	8	880	4	2	20	199	0.20	< 10	< 10	134	10	38
566949	299	229	0.10	6	790	2	2	14	106	0.17	< 10	< 10	92	10	28
566950	299	229	0.11	8	940	4	4	16	201	0.22	< 10	< 10	143	20	66
566951	299	229	0.10	10	980	< 2	4	20	131	0.25	< 10	< 10	171	20	42
566952	299	229	0.13	8	860	4	4	16	223	0.25	< 10	< 10	150	10	38

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 220
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-OCT-93
Invoice No. : I9323184
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323184

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
566953	299	229	0.4	2.05	18	280	< 0.5	< 2	2.44	< 0.5	15	69	980	3.13	10	1	1.30	20	1.53	240	393
566954	299	229	< 0.2	1.03	4	230	0.5	< 2	1.39	< 0.5	3	90	328	1.00	10	< 1	0.42	30	0.48	85	751
566955	299	229	< 0.2	0.57	4	370	< 0.5	< 2	1.20	< 0.5	3	107	413	0.65	< 10	< 1	0.27	20	0.29	60	232
566956	299	229	< 0.2	0.83	6	80	< 0.5	2	1.16	< 0.5	3	81	419	1.01	< 10	< 1	0.36	20	0.50	80	212
566957	299	229	< 0.2	0.85	6	320	0.5	2	1.61	< 0.5	3	86	395	0.97	< 10	< 1	0.36	30	0.48	80	589
566958	299	229	< 0.2	1.08	< 2	430	0.5	< 2	1.76	< 0.5	4	62	518	1.13	10	< 1	0.39	20	0.49	85	591

CERTIFICATION: [signature]

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CERTIFICATE OF ANALYSIS A9323184

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
566953	299	229	0.09	9	830	< 2	4	17	193	0.23	< 10	< 10	142	10	34
566954	299	229	0.04	4	320	6	2	7	92	0.04	< 10	< 10	35	< 10	16
566955	299	229	0.04	2	200	8	< 2	3	114	0.01	< 10	< 10	20	< 10	12
566956	299	229	0.04	3	280	6	2	5	46	0.03	< 10	< 10	34	< 10	18
566957	299	229	0.03	2	330	4	2	6	102	0.03	< 10	< 10	30	< 10	14
566958	299	229	0.03	3	310	4	2	6	159	0.03	< 10	< 10	31	< 10	16

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 09-NOV-93
Invoice No. :I9323978
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323978

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H588003	208 274	0.06	< 0.001	0.07	1900
H588004	208 274	0.07	0.008	0.17	3820
H588005	208 274	0.17	0.004	0.07	5020
H588006	208 274	0.44	0.006	0.07	6700
H588007	208 276	0.23	0.004	0.07	7580
H588008	208 274	0.21	< 0.001	0.10	2800
H588009	208 274	0.23	0.001	< 0.03	2620
H588010	208 276	0.07	< 0.001	< 0.03	8820
H588011	208 274	0.03	0.001	< 0.03	6360
H588012	208 274	0.04	< 0.001	< 0.03	3100
H588013	208 273	0.04	0.004	< 0.03	13380
H588014	208 276	0.04	< 0.001	< 0.03	9940
H588015	208 276	0.04	< 0.001	0.03	9040
H588016	208 276	0.03	< 0.001	0.07	8540
H588017	208 276	0.03	< 0.001	< 0.03	10660
H588018	208 276	0.03	< 0.001	< 0.03	9200
H588019	208 273	0.02	< 0.001	0.03	12160
H588020	208 276	0.03	0.003	0.34	10060
H588021	208 276	0.03	0.001	0.10	7680
H588022	208 276	0.13	0.001	0.34	9680
H588023	208 276	0.05	0.003	0.03	9060
H588024	208 276	0.08	0.002	0.31	10060
H588025	208 276	0.05	< 0.001	0.10	11060
H588026	208 276	0.03	0.009	0.10	8180
H588027	208 276	0.04	< 0.001	0.14	10280
H588028	208 276	0.05	< 0.001	0.10	10980
H588029	208 276	0.02	< 0.001	0.07	9120
H588030	208 273	0.06	0.001	0.10	12160
H588031	208 276	0.02	0.001	< 0.03	11580
H588032	208 273	0.05	< 0.001	< 0.03	13460
H588033	208 273	0.05	0.002	< 0.03	13300
H588034	208 276	0.08	0.009	< 0.03	11520
H588035	208 276	0.05	< 0.001	< 0.03	7760
H588036	208 276	0.10	0.004	0.07	10060
H588037	208 273	0.09	0.004	0.10	13380
H588038	208 273	0.16	0.004	0.10	13580
H588039	208 273	0.06	0.001	0.03	13320
H588040	208 273	0.05	0.010	0.07	13620
H588041	208 273	0.09	0.001	0.10	13940
H588042	208 273	0.09	0.002	0.10	13280

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Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Number :2
Total Pages :5
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Invoice No. :I9323978
P.O. Number :
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CERTIFICATE OF ANALYSIS A9323978

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H588043	208	273	0.11	0.003	0.10	14400
H588044	208	274	0.15	0.001	0.14	6320
H588045	208	273	0.19	0.002	0.21	12480
H588046	208	276	0.11	0.001	0.14	11720
H588047	208	276	0.13	< 0.001	0.10	11780
H588048	208	273	0.28	0.004	0.24	12520
H588049	208	273	0.07	0.003	0.07	11900
H588050	208	273	0.14	0.003	0.14	12360
H588051	208	276	0.24	0.002	0.17	11340
H588052	208	273	0.65	0.026	0.62	13460
H588053	208	273	0.15	0.001	0.14	12140
H588054	208	276	0.16	0.005	0.17	10640
H588055	208	276	0.18	0.007	0.10	10940
H588056	208	273	0.15	0.036	0.24	14320
H588057	208	273	0.08	0.070	0.69	13460
H588058	208	273	0.18	0.017	0.41	13360
H588059	208	273	0.18	0.007	0.17	11880
H588060	208	273	0.26	0.005	0.14	13900
H588061	208	273	0.21	0.005	0.07	13140
H588062	208	273	0.21	0.004	0.21	12020
H588063	208	276	0.19	0.014	0.17	10100
H588064	208	274	0.04	0.005	0.07	4460
H588065	208	274	0.11	0.005	0.07	4980
H588066	208	276	0.14	0.008	0.07	10220
H588067	208	273	0.07	0.008	0.03	12460
H588068	208	276	0.06	0.003	0.10	10640
H588069	208	273	0.11	0.010	0.14	13440
H588070	208	273	0.14	0.052	0.14	12300
H588071	208	273	0.14	0.077	0.10	13260
H588072	208	276	0.12	0.038	0.07	8760
H588073	208	276	0.08	0.005	0.03	11560
H588074	208	274	0.18	0.014	0.10	4940
H588075	208	276	0.08	0.011	0.10	8880
H588076	208	273	0.13	0.017	0.10	13100
H588077	208	273	0.15	0.006	0.10	12380
H588078	208	273	0.18	0.016	0.17	13320
H588079	208	273	0.23	0.026	0.21	13440
H588080	208	273	0.23	0.031	0.21	12860
H588081	208	273	0.10	0.017	0.07	13460
H588082	208	273	0.19	0.006	0.14	12360

CERTIFICATION: J. G. Smith

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Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H588083	208 273	0.17	0.004	0.17	12040
H588084	208 273	0.25	0.010	0.24	12720
H588085	208 276	0.15	0.009	0.14	11780
H588086	208 273	0.17	0.016	0.24	13740
H588087	208 273	0.17	0.013	0.14	11940
H588088	208 273	0.12	0.002	0.14	13780
H588089	208 273	0.17	0.007	0.17	12880
H588090	208 273	0.28	0.008	0.38	12840
H588091	208 273	0.13	0.004	0.10	14740
H588092	208 273	0.19	0.005	0.27	14940
H588093	208 273	0.40	0.006	0.51	14820
H588094	208 273	0.37	0.013	0.38	12780
H588095	208 273	0.45	0.010	0.48	12460
H588096	208 273	0.25	0.004	0.24	12260
H588097	208 273	0.21	0.005	0.24	12540
H588098	208 273	0.11	0.003	0.07	14100
H588099	208 273	0.18	0.003	0.14	13600
H588100	208 273	0.16	0.002	0.10	13060
H588101	208 273	0.25	0.003	0.17	13240
H588102	208 273	0.21	0.002	0.21	12200
H588103	208 273	0.25	0.003	0.21	12840
H588104	208 276	0.19	0.004	0.34	10200
H588105	208 273	0.16	0.003	0.14	13160
H588106	208 276	0.05	0.016	0.03	10660
H588107	208 273	0.07	0.006	0.07	12420
H588108	208 276	0.07	0.003	0.03	10700
H588109	208 273	0.15	0.007	0.10	16140
H588110	208 274	0.14	0.011	0.10	6460
H588111	208 274	0.13	0.007	0.10	6760
H588112	208 274	0.07	0.005	0.07	6640
H588113	208 274	0.24	0.006	0.21	6380
H588114	208 274	0.21	0.027	0.21	6180
H588115	208 274	0.13	0.002	0.10	7120
H588116	208 276	0.14	0.008	0.10	7400
H588117	208 274	0.14	0.008	0.10	6940
H588118	208 274	0.18	0.007	0.21	7000
H588119	208 274	0.15	0.008	0.21	6000
H588120	208 274	0.27	0.019	0.21	6800
H588121	208 274	0.26	0.036	0.14	6640
H588122	208 274	0.11	0.004	0.07	6780

CERTIFICATION:

Chemex Labs Ltd.

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Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9323978

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H588123	208 276	0.46	0.015	0.24	7320
H588124	208 276	0.22	0.022	0.10	7420
H588125	208 274	0.09	0.004	0.07	6700
H588126	208 274	0.15	0.006	0.14	7140
H588127	208 276	0.10	0.006	0.10	7600
H588128	208 276	0.11	0.011	0.10	7380
H588129	208 276	0.07	0.013	0.03	7320
H588130	208 276	0.10	0.005	0.07	7740
H588131	208 276	0.09	0.007	0.07	7340
H588132	208 274	0.06	0.006	0.07	7200
H588133	208 276	0.15	0.010	0.14	7400
H588134	208 274	0.10	0.006	0.10	6800
H588135	208 274	0.10	0.005	0.07	7100
H588136	208 276	0.11	0.049	0.10	7440
H588137	208 274	0.11	0.008	0.07	6920
H588138	208 274	0.06	0.002	0.07	6640
H588139	208 274	0.08	0.006	0.07	6680
H588140	208 274	0.04	0.002	< 0.03	6900
H588141	208 274	0.10	0.004	0.07	6880
H588142	208 274	0.06	0.004	< 0.03	6960
H588143	208 274	0.03	0.008	0.07	6900
H588144	208 274	0.03	0.001	0.03	6720
H588145	208 276	0.19	0.008	0.24	7500
H588146	208 274	0.18	0.004	0.10	6860
H588147	208 274	0.10	0.015	0.10	7260
H588148	208 276	0.12	0.001	0.07	7580
H588149	208 274	0.10	0.002	0.10	7260
H588150	208 276	0.15	0.022	0.31	7300
H588151	208 276	0.16	0.004	0.14	7900
H588152	208 276	0.14	0.002	0.17	7360
H588153	208 276	0.19	0.002	0.31	7560
H588154	208 274	0.15	0.006	0.21	6740
H588155	208 274	0.09	0.042	0.07	6560
H588156	208 274	0.05	0.004	0.03	7260
H588157	208 274	0.16	0.010	0.21	7200
H588158	208 274	0.12	0.004	0.17	6860
H588159	208 274	0.13	0.003	0.14	6600
H588160	208 276	0.14	0.002	0.21	7420
H588161	208 274	0.10	< 0.001	0.17	5740
H588162	208 276	0.13	0.005	0.10	10080

CERTIFICATION: _____

Chemex Labs Ltd.

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Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :5
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Invoice No. :I9323978
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CERTIFICATE OF ANALYSIS A9323978

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588163	208	276	0.11	0.010	0.10	7320						
H588164	208	274	0.08	0.003	0.24	4660						
H588165	208	276	0.15	0.003	0.14	7300						
H588166	208	274	0.04	0.001	0.07	7080						
H588167	208	274	0.16	0.005	0.38	7240						

CERTIFICATION: [signature]

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

F. Number :1-A
Total Pages :5
Certificate Date: 09-NOV-93
Invoice No. :I9323979
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323979

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588003	299 229	0.4	0.67	6	80	< 0.5	< 2	0.06	< 0.5	18	91	546	2.52	< 10	< 1	0.27	< 10	0.05	20	8
H588004	299 229	0.6	0.81	12	60	< 0.5	2	0.08	< 0.5	30	90	681	4.26	< 10	< 1	0.27	< 10	0.07	30	44
H588005	299 229	0.4	0.91	8	90	< 0.5	2	0.03	< 0.5	17	82	1710	1.93	< 10	< 1	0.22	10	0.03	10	25
H588006	299 229	0.4	1.76	12	100	< 0.5	10	0.10	< 0.5	26	95	4490	2.65	< 10	< 1	0.46	10	0.25	20	36
H588007	299 229	0.4	1.31	12	100	< 0.5	2	0.34	< 0.5	33	100	2360	2.71	< 10	< 1	0.27	10	0.18	65	26
H588008	299 229	1.8	2.48	202	20	< 0.5	90	0.65	1.0	35	29	2060	6.42	10	< 1	0.39	10	0.74	840	6
H588009	299 229	0.2	2.25	8	100	< 0.5	2	0.41	< 0.5	23	28	2240	3.10	< 10	< 1	0.74	10	0.73	70	7
H588010	299 229	< 0.2	2.92	18	40	< 0.5	< 2	1.21	< 0.5	34	36	613	5.91	10	< 1	0.86	10	1.66	420	< 1
H588011	299 229	0.2	2.90	10	70	< 0.5	< 2	0.64	< 0.5	52	60	276	7.06	10	< 1	0.48	10	1.56	1010	4
H588012	299 229	0.2	0.61	6	80	< 0.5	< 2	0.86	1.5	29	137	427	4.19	< 10	< 1	0.22	20	0.37	715	1
H588013	299 229	0.2	0.56	6	50	< 0.5	< 2	1.53	< 0.5	25	95	369	2.95	< 10	< 1	0.24	20	0.53	410	21
H588014	299 229	< 0.2	1.04	4	80	< 0.5	< 2	1.45	< 0.5	20	92	388	3.63	< 10	< 1	0.24	20	0.58	130	3
H588015	299 229	< 0.2	1.72	12	40	< 0.5	< 2	1.27	< 0.5	35	75	346	3.99	10	< 1	0.30	10	0.97	175	1
H588016	299 229	0.2	1.91	< 2	70	< 0.5	< 2	0.56	< 0.5	27	80	286	4.48	< 10	< 1	0.57	10	1.09	235	2
H588017	299 229	< 0.2	3.40	8	110	< 0.5	< 2	1.07	< 0.5	17	55	314	4.89	10	< 1	0.80	10	2.05	265	< 1
H588018	299 229	< 0.2	2.49	< 2	60	< 0.5	< 2	1.76	< 0.5	22	47	251	5.22	10	< 1	0.62	10	1.69	340	2
H588019	299 229	0.4	2.72	34	40	< 0.5	< 2	2.22	< 0.5	25	51	187	5.25	10	< 1	0.67	10	1.75	850	< 1
H588020	299 229	3.8	0.70	268	20	< 0.5	< 2	2.18	6.5	19	66	253	4.65	< 10	< 1	0.31	< 10	0.68	4690	10
H588021	299 229	1.2	0.59	176	60	< 0.5	< 2	1.92	4.0	16	109	274	3.50	< 10	< 1	0.27	10	0.53	2250	11
H588022	299 229	27.8	0.65	574	30	< 0.5	< 2	2.93	26.5	21	58	1310	4.02	< 10	< 1	0.29	10	0.72	9980	9
H588023	299 229	0.4	0.91	24	60	< 0.5	4	2.09	< 0.5	26	57	431	4.18	< 10	< 1	0.34	10	0.64	655	14
H588024	299 229	3.6	0.63	144	20	< 0.5	< 2	2.08	7.5	19	48	775	5.63	< 10	< 1	0.24	10	0.59	725	7
H588025	299 229	0.4	0.77	2	50	< 0.5	2	2.18	< 0.5	15	51	483	2.56	< 10	< 1	0.17	20	0.51	135	1
H588026	299 229	0.2	0.39	16	20	< 0.5	2	1.36	< 0.5	40	78	319	4.65	< 10	< 1	0.21	10	0.30	165	46
H588027	299 229	0.4	0.52	4	50	< 0.5	2	1.77	< 0.5	19	82	346	2.58	< 10	< 1	0.23	10	0.33	165	3
H588028	299 229	0.4	0.49	4	50	< 0.5	2	1.88	< 0.5	15	91	455	2.41	< 10	< 1	0.22	10	0.36	125	2
H588029	299 229	0.2	0.71	4	50	< 0.5	< 2	2.38	< 0.5	12	97	145	2.18	< 10	< 1	0.21	20	0.26	110	1
H588030	299 229	0.6	0.82	22	50	< 0.5	10	2.00	< 0.5	15	80	570	3.89	< 10	< 1	0.17	20	0.46	105	4
H588031	299 229	0.2	1.53	2	100	< 0.5	< 2	2.30	< 0.5	12	60	219	2.43	< 10	< 1	0.15	20	0.86	120	4
H588032	299 229	0.2	1.85	< 2	70	< 0.5	< 2	1.88	< 0.5	22	46	477	3.43	10	< 1	0.23	20	1.11	145	2
H588033	299 229	0.2	2.25	8	150	< 0.5	< 2	2.03	< 0.5	15	36	435	3.25	10	< 1	0.28	10	1.49	205	11
H588034	299 229	0.4	0.46	16	80	< 0.5	4	1.63	< 0.5	26	84	721	2.07	< 10	< 1	0.20	10	0.14	85	53
H588035	299 229	0.2	0.43	6	70	< 0.5	< 2	0.80	< 0.5	19	94	535	1.25	< 10	< 1	0.19	20	0.07	45	5
H588036	299 229	0.4	0.39	4	70	< 0.5	4	1.52	< 0.5	12	105	944	1.44	< 10	< 1	0.18	20	0.21	70	18
H588037	299 229	0.2	1.01	8	100	< 0.5	2	1.66	< 0.5	17	51	857	2.13	< 10	< 1	0.28	20	0.59	90	20
H588038	299 229	0.2	1.45	20	30	< 0.5	< 2	2.89	< 0.5	47	50	1520	5.55	10	< 1	0.40	10	0.82	160	16
H588039	299 229	0.2	1.59	< 2	40	< 0.5	< 2	3.64	< 0.5	39	45	572	4.13	10	< 1	0.40	10	0.76	220	8
H588040	299 229	0.2	1.12	18	40	< 0.5	2	3.60	< 0.5	27	64	489	3.76	10	< 1	0.28	10	0.58	370	55
H588041	299 229	0.4	1.74	6	70	< 0.5	4	3.27	< 0.5	20	42	836	3.27	10	< 1	0.31	20	1.14	190	9
H588042	299 229	0.2	2.35	2	70	< 0.5	< 2	2.51	< 0.5	22	35	826	3.74	10	< 1	0.42	10	1.64	215	10

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Y1A 3S9

Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9323979

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588003	299	229	0.01	8	250	< 2	< 2	< 1	4	< 0.01	< 10	< 10	6	< 10	16
H588004	299	229	0.01	13	310	8	< 2	1	4	< 0.01	< 10	< 10	11	< 10	48
H588005	299	229	0.01	12	260	2	< 2	1	12	< 0.01	< 10	< 10	5	< 10	14
H588006	299	229	0.01	21	470	2	< 2	2	9	0.01	< 10	10	16	< 10	20
H588007	299	229	0.01	18	460	< 2	< 2	2	11	< 0.01	< 10	< 10	13	< 10	38
H588008	299	229	0.01	11	1410	36	64	7	15	< 0.01	< 10	10	54	< 10	160
H588009	299	229	0.01	6	1490	8	< 2	11	11	0.07	< 10	< 10	85	< 10	40
H588010	299	229	0.03	4	1220	8	< 2	16	26	0.08	< 10	< 10	121	< 10	74
H588011	299	229	0.01	4	1130	10	2	11	23	0.02	< 10	< 10	92	< 10	186
H588012	299	229	0.01	4	290	6	2	1	12	< 0.01	< 10	< 10	10	< 10	134
H588013	299	229	0.01	4	410	4	4	1	20	< 0.01	< 10	< 10	8	< 10	30
H588014	299	229	0.01	4	480	2	2	2	28	< 0.01	< 10	< 10	16	< 10	26
H588015	299	229	0.01	4	530	6	2	4	40	< 0.01	< 10	< 10	34	< 10	34
H588016	299	229	0.02	4	700	2	< 2	5	36	0.03	< 10	< 10	42	< 10	40
H588017	299	229	0.11	2	1380	6	2	11	60	0.12	< 10	< 10	105	< 10	28
H588018	299	229	0.03	2	1230	4	2	8	54	0.04	< 10	< 10	80	< 10	24
H588019	299	229	0.09	1	1100	2	2	10	104	0.09	< 10	< 10	99	< 10	30
H588020	299	229	0.01	3	840	214	46	3	47	< 0.01	< 10	< 10	18	< 10	436
H588021	299	229	0.01	2	470	64	36	1	55	< 0.01	< 10	< 10	8	< 10	238
H588022	299	229	0.01	2	1110	1025	374	2	59	< 0.01	< 10	20	16	< 10	1590
H588023	299	229	0.01	1	1350	12	18	3	26	< 0.01	< 10	< 10	22	< 10	26
H588024	299	229	0.01	2	1090	220	102	2	34	< 0.01	< 10	< 10	16	< 10	496
H588025	299	229	0.01	2	720	< 2	2	1	38	< 0.01	< 10	< 10	12	< 10	18
H588026	299	229	0.01	4	410	4	2	1	12	< 0.01	< 10	< 10	5	< 10	10
H588027	299	229	0.01	2	330	8	2	1	16	< 0.01	< 10	< 10	6	< 10	12
H588028	299	229	0.01	2	360	8	2	1	18	< 0.01	< 10	< 10	7	< 10	12
H588029	299	229	< 0.01	3	390	< 2	2	2	29	< 0.01	< 10	< 10	13	< 10	6
H588030	299	229	0.01	3	360	8	4	2	34	< 0.01	< 10	< 10	15	< 10	14
H588031	299	229	0.01	2	460	2	< 2	3	66	< 0.01	< 10	< 10	25	< 10	14
H588032	299	229	0.01	1	750	4	2	3	386	< 0.01	< 10	< 10	33	< 10	16
H588033	299	229	0.01	4	750	< 2	< 2	6	597	< 0.01	< 10	< 10	54	< 10	22
H588034	299	229	0.01	3	230	6	8	1	24	< 0.01	< 10	< 10	6	< 10	8
H588035	299	229	0.01	1	280	2	6	< 1	16	< 0.01	< 10	< 10	2	< 10	6
H588036	299	229	0.01	2	310	2	4	< 1	20	< 0.01	< 10	< 10	3	< 10	6
H588037	299	229	0.03	1	580	< 2	< 2	2	129	< 0.01	< 10	< 10	22	< 10	12
H588038	299	229	0.01	4	660	4	4	4	839	0.01	< 10	< 10	40	< 10	8
H588039	299	229	0.01	4	640	< 2	2	7	631	0.01	< 10	< 10	51	< 10	10
H588040	299	229	0.01	2	630	10	2	2	671	< 0.01	< 10	< 10	27	< 10	6
H588041	299	229	0.01	2	650	6	< 2	4	687	< 0.01	< 10	< 10	46	< 10	16
H588042	299	229	0.03	2	830	< 2	< 2	7	866	0.02	< 10	< 10	68	< 10	22

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CERTIFICATE OF ANALYSIS A9323979

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588043	299	229	0.4	2.51	24	80	< 0.5	< 2	2.77	< 0.5	26	69	1125	3.96	10	< 1	0.44	10	1.43	195	18
H588044	299	229	24.8	1.03	176	50	< 0.5	12	2.38	37.0	13	91	1510	3.41	< 10	2	0.42	10	0.27	495	4
H588045	299	229	23.4	1.87	146	70	< 0.5	26	2.98	18.5	26	59	1815	4.10	< 10	2	0.45	10	1.07	860	7
H588046	299	229	0.8	1.43	20	110	< 0.5	< 2	2.56	< 0.5	22	63	1010	2.93	< 10	< 1	0.43	10	0.78	260	4
H588047	299	229	1.4	0.91	30	100	< 0.5	10	2.23	< 0.5	28	56	1340	4.56	< 10	< 1	0.40	10	0.88	335	1
H588048	299	229	1.8	1.19	170	40	< 0.5	4	2.35	< 0.5	19	54	2750	3.78	< 10	< 1	0.49	10	0.79	280	20
H588049	299	229	0.4	0.79	8	90	< 0.5	< 2	1.75	< 0.5	21	124	729	2.37	< 10	< 1	0.33	20	0.57	110	15
H588050	299	229	0.8	0.86	18	120	< 0.5	< 2	1.58	< 0.5	21	115	1335	2.12	< 10	3	0.38	10	0.55	205	15
H588051	299	229	3.0	0.61	480	50	< 0.5	4	1.30	4.5	23	91	2480	2.40	< 10	1	0.36	10	0.44	935	13
H588052	299	229	31.0	0.57	792	30	< 0.5	18	1.62	61.5	22	109	6370	4.06	< 10	< 1	0.32	< 10	0.53	1785	139
H588053	299	229	0.8	0.91	18	110	< 0.5	< 2	1.86	< 0.5	21	92	1435	1.81	< 10	< 1	0.32	20	0.56	410	9
H588054	299	229	1.0	0.99	34	70	< 0.5	< 2	1.61	< 0.5	29	115	1680	2.44	< 10	< 1	0.39	10	0.55	375	29
H588055	299	229	1.8	1.20	264	30	< 0.5	4	1.67	< 0.5	30	153	1940	3.47	< 10	< 1	0.57	10	0.36	885	38
H588056	299	229	6.2	0.64	374	20	< 0.5	< 2	3.50	3.0	20	125	1520	4.11	< 10	< 1	0.34	< 10	1.19	3630	185
H588057	299	229	11.0	0.23	278	20	< 0.5	4	4.39	12.0	17	139	756	5.45	< 10	< 1	0.16	< 10	1.82	6390	338
H588058	299	229	10.4	0.77	434	20	< 0.5	4	2.36	15.5	28	122	1865	4.96	< 10	< 1	0.38	< 10	0.90	6190	88
H588059	299	229	1.2	0.72	24	80	< 0.5	< 2	1.63	< 0.5	26	97	1780	2.00	< 10	< 1	0.23	10	0.48	515	35
H588060	299	229	2.6	0.71	54	110	< 0.5	< 2	1.06	< 0.5	22	91	2610	1.81	< 10	< 1	0.27	10	0.40	315	27
H588061	299	229	2.0	0.89	62	50	< 0.5	4	0.87	< 0.5	32	112	2180	2.91	< 10	< 1	0.46	10	0.35	265	26
H588062	299	229	1.4	1.12	42	110	< 0.5	< 2	1.35	< 0.5	26	59	2160	2.04	< 10	< 1	0.29	10	0.50	405	23
H588063	299	229	1.6	0.80	138	130	< 0.5	6	0.69	< 0.5	14	118	1985	1.54	< 10	< 1	0.33	20	0.28	330	82
H588064	299	229	0.8	0.67	64	60	< 0.5	10	0.31	< 0.5	14	119	390	2.31	< 10	< 1	0.38	10	0.11	190	29
H588065	299	229	1.2	0.79	84	170	< 0.5	< 2	0.50	< 0.5	11	133	1085	1.29	< 10	< 1	0.33	10	0.23	275	26
H588066	299	229	0.8	0.80	46	150	< 0.5	4	0.66	< 0.5	12	114	1350	1.17	< 10	< 1	0.27	10	0.24	260	49
H588067	299	229	0.8	0.68	80	60	< 0.5	4	0.71	< 0.5	18	116	689	2.41	< 10	< 1	0.33	10	0.25	450	44
H588068	299	229	1.8	0.93	138	60	< 0.5	4	0.43	< 0.5	16	137	611	3.63	< 10	< 1	0.50	10	0.20	580	17
H588069	299	229	1.6	0.67	202	60	< 0.5	6	0.91	< 0.5	21	104	1165	2.65	< 10	< 1	0.36	10	0.34	510	56
H588070	299	229	1.8	0.75	102	40	< 0.5	< 2	1.46	< 0.5	18	103	1390	2.55	< 10	< 1	0.34	10	0.47	585	275
H588071	299	229	3.8	0.74	330	90	< 0.5	< 2	1.08	1.0	20	142	1355	1.64	< 10	< 1	0.33	10	0.40	1350	415
H588072	299	229	1.6	0.85	210	140	< 0.5	4	1.40	< 0.5	13	121	1215	1.49	< 10	< 1	0.33	10	0.63	705	211
H588073	299	229	0.6	0.89	40	130	< 0.5	< 2	1.43	< 0.5	16	127	755	1.66	< 10	< 1	0.32	20	0.60	330	26
H588074	299	229	1.6	0.69	162	80	< 0.5	4	1.66	< 0.5	18	106	1745	2.07	< 10	< 1	0.33	10	0.73	380	71
H588075	299	229	1.4	0.78	108	30	< 0.5	10	0.81	< 0.5	10	147	788	3.87	< 10	< 1	0.41	< 10	0.37	505	62
H588076	299	229	1.4	0.58	46	110	< 0.5	< 2	0.67	< 0.5	11	94	1275	1.51	< 10	< 1	0.28	10	0.23	240	92
H588077	299	229	1.2	0.77	38	110	< 0.5	< 2	1.08	< 0.5	10	172	1550	1.40	< 10	< 1	0.34	10	0.20	195	33
H588078	299	229	1.4	0.56	34	160	< 0.5	< 2	1.02	< 0.5	9	127	1855	1.07	< 10	< 1	0.27	10	0.25	135	93
H588079	299	229	1.4	0.19	96	220	< 0.5	2	0.90	< 0.5	9	63	2250	0.89	< 10	< 1	0.11	10	0.40	130	146
H588080	299	229	2.0	0.44	34	120	< 0.5	< 2	1.73	< 0.5	13	111	2270	1.73	< 10	< 1	0.23	10	0.44	190	172
H588081	299	229	0.6	0.57	20	270	< 0.5	4	1.04	< 0.5	9	149	973	0.92	< 10	< 1	0.27	10	0.18	110	92
H588082	299	229	2.0	0.58	28	90	< 0.5	6	1.40	0.5	12	122	1915	2.37	< 10	< 1	0.29	10	0.40	155	35

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H588043	299	229	0.02	2	970	10	< 2	5	424	< 0.01	< 10	< 10	57	< 10	22
H588044	299	229	0.01	2	410	1445	266	1	265	< 0.01	< 10	< 10	13	< 10	2260
H588045	299	229	0.03	2	840	1500	296	5	68	< 0.01	< 10	< 10	47	< 10	1095
H588046	299	229	0.01	2	990	18	2	3	58	< 0.01	< 10	< 10	32	< 10	26
H588047	299	229	0.01	3	1010	24	4	3	36	< 0.01	< 10	< 10	29	< 10	34
H588048	299	229	0.01	3	980	28	8	4	68	< 0.01	< 10	< 10	32	< 10	48
H588049	299	229	0.02	4	440	12	2	1	65	< 0.01	< 10	< 10	10	< 10	12
H588050	299	229	0.02	6	380	12	8	2	65	< 0.01	< 10	< 10	14	< 10	16
H588051	299	229	0.01	4	400	252	110	1	20	< 0.01	< 10	< 10	7	< 10	328
H588052	299	229	0.01	7	270	2460	784	1	14	< 0.01	< 10	< 10	8	< 10	3430
H588053	299	229	0.01	3	410	14	18	2	22	< 0.01	< 10	< 10	14	< 10	22
H588054	299	229	0.01	4	410	20	22	2	21	< 0.01	< 10	< 10	11	< 10	24
H588055	299	229	0.01	4	350	22	36	1	26	< 0.01	< 10	< 10	10	< 10	20
H588056	299	229	0.01	2	270	118	126	2	27	< 0.01	< 10	< 10	10	< 10	170
H588057	299	229	0.01	3	100	154	144	1	62	< 0.01	< 10	10	8	20	708
H588058	299	229	0.01	3	270	438	160	2	37	< 0.01	< 10	< 10	9	< 10	948
H588059	299	229	0.01	4	350	14	14	2	20	< 0.01	< 10	< 10	12	< 10	18
H588060	299	229	0.01	4	330	16	36	2	18	< 0.01	< 10	< 10	11	< 10	26
H588061	299	229	0.01	5	390	16	34	1	17	< 0.01	< 10	< 10	8	< 10	18
H588062	299	229	0.01	3	420	10	28	5	17	< 0.01	< 10	< 10	20	< 10	18
H588063	299	229	0.01	4	250	6	34	2	22	< 0.01	< 10	< 10	9	< 10	14
H588064	299	229	0.01	2	200	14	16	< 1	11	< 0.01	< 10	< 10	3	< 10	12
H588065	299	229	0.01	2	250	6	22	< 1	14	< 0.01	< 10	< 10	3	< 10	10
H588066	299	229	0.01	2	240	10	16	< 1	15	< 0.01	< 10	< 10	3	< 10	8
H588067	299	229	0.01	3	270	12	24	< 1	11	< 0.01	< 10	< 10	3	< 10	18
H588068	299	229	0.01	3	350	30	34	1	14	< 0.01	< 10	< 10	4	< 10	30
H588069	299	229	0.01	4	410	20	46	1	13	< 0.01	< 10	< 10	6	< 10	22
H588070	299	229	0.01	2	310	12	32	1	18	< 0.01	< 10	< 10	7	< 10	18
H588071	299	229	0.01	4	310	12	94	1	19	< 0.01	< 10	< 10	8	< 10	80
H588072	299	229	0.01	2	290	16	44	1	20	< 0.01	< 10	< 10	8	< 10	30
H588073	299	229	0.01	3	290	12	42	2	21	< 0.01	< 10	< 10	14	< 10	14
H588074	299	229	0.01	3	330	12	86	1	21	< 0.01	< 10	< 10	11	< 10	28
H588075	299	229	0.01	2	160	32	28	< 1	11	< 0.01	< 10	< 10	4	< 10	26
H588076	299	229	0.01	1	180	10	10	< 1	12	< 0.01	< 10	< 10	2	< 10	12
H588077	299	229	0.01	3	130	10	2	< 1	28	< 0.01	< 10	< 10	2	< 10	12
H588078	299	229	0.01	3	140	8	6	< 1	14	< 0.01	< 10	< 10	2	< 10	10
H588079	299	229	< 0.01	2	120	10	20	< 1	11	< 0.01	< 10	< 10	1	< 10	12
H588080	299	229	0.01	3	460	14	12	< 1	17	< 0.01	< 10	< 10	3	< 10	10
H588081	299	229	0.01	2	120	10	2	< 1	17	< 0.01	< 10	< 10	2	< 10	4
H588082	299	229	0.01	2	230	20	4	1	17	< 0.01	< 10	< 10	6	< 10	68

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

P. .umber :3-A
Total Pages :5
Certificate Date: 09-NOV-93
Invoice No. :I9323979
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Account :FC

CERTIFICATE OF ANALYSIS A9323979

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588083	299	229	1.2	1.09	16	230	< 0.5	6	1.55	< 0.5	14	102	1650	1.53	< 10	< 1	0.40	20	0.59	130	20
H588084	299	229	1.2	0.74	30	70	< 0.5	8	1.48	< 0.5	26	109	2640	1.71	< 10	< 1	0.26	20	0.37	140	57
H588085	299	229	0.6	0.76	16	60	< 0.5	< 2	1.36	< 0.5	28	106	1435	1.61	< 10	< 1	0.23	10	0.42	150	52
H588086	299	229	0.8	0.59	16	140	< 0.5	< 2	1.43	< 0.5	25	77	1680	1.56	< 10	< 1	0.19	10	0.53	225	90
H588087	299	229	0.8	0.72	12	150	< 0.5	2	2.05	< 0.5	26	109	1705	1.51	< 10	< 1	0.24	10	0.66	220	73
H588088	299	229	0.4	0.93	12	160	< 0.5	< 2	1.54	< 0.5	16	113	1255	1.75	< 10	< 1	0.22	30	0.55	150	8
H588089	299	229	1.2	2.00	4	250	< 0.5	6	1.77	< 0.5	18	53	1690	2.72	< 10	< 1	0.78	10	1.20	160	35
H588090	299	229	1.4	1.99	38	110	< 0.5	4	2.74	< 0.5	49	47	2830	3.32	< 10	< 1	0.55	10	1.24	300	44
H588091	299	229	0.4	2.42	12	70	< 0.5	< 2	1.85	< 0.5	40	61	1285	4.46	< 10	< 1	0.83	10	1.54	185	21
H588092	299	229	0.6	2.93	12	60	< 0.5	4	1.87	< 0.5	46	71	1875	4.52	< 10	< 1	1.17	< 10	2.00	135	24
H588093	299	229	2.0	2.54	14	80	< 0.5	14	1.82	< 0.5	41	92	3820	4.17	< 10	< 1	1.00	10	1.81	140	31
H588094	299	229	3.0	1.65	14	90	< 0.5	6	1.58	< 0.5	38	119	3650	3.33	< 10	< 1	0.60	10	1.25	230	71
H588095	299	229	4.6	2.36	14	80	< 0.5	8	2.44	< 0.5	26	38	4240	3.67	< 10	< 1	0.77	10	1.55	610	48
H588096	299	229	2.4	2.40	20	160	< 0.5	< 2	1.45	< 0.5	30	106	2480	3.67	< 10	< 1	0.81	10	1.53	265	22
H588097	299	229	0.8	2.83	< 2	220	< 0.5	2	1.35	< 0.5	28	77	2040	3.46	< 10	< 1	0.95	< 10	1.83	170	22
H588098	299	229	0.4	3.29	20	130	< 0.5	4	1.10	< 0.5	41	72	997	4.38	< 10	< 1	1.19	10	2.10	195	12
H588099	299	229	0.6	3.56	< 2	100	< 0.5	2	1.24	0.5	29	100	1650	4.37	< 10	< 1	1.21	10	2.26	210	12
H588100	299	229	0.6	3.47	24	80	< 0.5	< 2	1.52	< 0.5	31	91	1510	4.52	< 10	< 1	1.28	10	2.29	220	4
H588101	299	229	1.6	3.24	12	280	< 0.5	4	1.65	< 0.5	17	69	2230	3.29	< 10	< 1	1.34	< 10	2.32	275	14
H588102	299	229	4.4	2.88	28	80	< 0.5	< 2	2.27	0.5	26	51	1875	4.28	< 10	< 1	0.73	10	2.02	580	8
H588103	299	229	3.4	3.05	20	80	< 0.5	< 2	2.79	0.5	27	39	2240	4.27	< 10	< 1	0.91	10	1.95	755	9
H588104	299	229	5.4	3.25	98	70	< 0.5	< 2	3.04	1.0	28	52	1760	4.13	< 10	< 1	1.00	10	1.83	920	17
H588105	299	229	1.4	1.88	16	130	< 0.5	< 2	2.08	< 0.5	26	121	1465	2.73	< 10	< 1	0.64	10	1.06	235	12
H588106	299	229	0.4	0.67	22	440	< 0.5	< 2	1.41	< 0.5	7	156	481	0.82	< 10	< 1	0.30	20	0.13	125	88
H588107	299	229	0.4	0.74	20	300	< 0.5	< 2	1.35	< 0.5	11	150	690	1.05	< 10	< 1	0.32	20	0.18	105	29
H588108	299	229	1.0	0.75	18	230	< 0.5	< 2	1.25	< 0.5	9	147	690	1.13	< 10	< 1	0.29	20	0.15	150	17
H588109	299	229	1.2	0.79	18	150	< 0.5	2	2.03	< 0.5	16	117	1370	1.81	< 10	< 1	0.30	20	0.29	210	34
H588110	299	229	0.8	1.19	12	140	< 0.5	4	2.02	< 0.5	18	115	1335	1.56	< 10	< 1	0.29	20	0.41	215	53
H588111	299	229	2.8	1.13	34	90	< 0.5	2	2.27	< 0.5	19	105	1245	1.62	< 10	< 1	0.36	20	0.41	425	32
H588112	299	229	0.4	2.21	14	170	< 0.5	< 2	1.65	< 0.5	23	92	744	3.17	10	< 1	0.49	10	1.16	155	29
H588113	299	229	1.2	1.65	16	190	< 0.5	6	3.06	< 0.5	30	45	2190	2.89	< 10	< 1	0.65	10	1.20	255	30
H588114	299	229	0.6	2.79	2	680	< 0.5	< 2	3.61	< 0.5	16	30	1955	3.04	< 10	< 1	1.15	20	1.57	200	129
H588115	299	229	0.4	2.84	12	550	< 0.5	< 2	2.33	< 0.5	21	39	1205	3.60	< 10	< 1	1.14	20	1.77	215	10
H588116	299	229	0.2	2.73	< 2	590	< 0.5	< 2	2.86	< 0.5	18	35	1290	3.11	< 10	< 1	1.02	20	1.58	205	41
H588117	299	229	0.8	1.22	4	180	< 0.5	< 2	2.91	< 0.5	15	81	1415	1.47	< 10	< 1	0.42	20	0.52	150	44
H588118	299	229	1.0	1.42	< 2	110	< 0.5	< 2	1.61	0.5	11	105	1740	1.49	< 10	< 1	0.35	20	0.56	140	42
H588119	299	229	1.4	1.53	10	90	< 0.5	< 2	3.11	< 0.5	11	92	1505	1.46	< 10	< 1	0.32	20	0.46	255	42
H588120	299	229	3.4	0.86	16	110	< 0.5	4	2.00	< 0.5	14	95	2530	1.23	< 10	< 1	0.35	30	0.15	200	104
H588121	299	229	1.0	0.76	12	190	< 0.5	2	1.56	< 0.5	12	124	2500	0.87	< 10	< 1	0.32	30	0.07	170	211
H588122	299	229	0.6	1.14	4	230	< 0.5	< 2	1.43	< 0.5	13	103	1075	1.56	< 10	< 1	0.29	20	0.65	260	25

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WHITEHORSE, YT
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588083	299	229	0.02	4	340	6	4	4	94	< 0.01	< 10	< 10	25	< 10	16
H588084	299	229	0.01	4	330	8	4	4	25	< 0.01	< 10	< 10	18	< 10	14
H588085	299	229	0.01	3	300	10	2	3	16	< 0.01	< 10	< 10	16	< 10	18
H588086	299	229	0.01	3	290	6	8	2	14	< 0.01	< 10	< 10	10	< 10	14
H588087	299	229	0.01	3	320	4	6	2	19	< 0.01	< 10	< 10	10	< 10	18
H588088	299	229	0.02	2	400	12	4	3	33	< 0.01	< 10	< 10	16	< 10	16
H588089	299	229	0.04	3	790	12	2	9	47	0.09	< 10	< 10	72	< 10	24
H588090	299	229	0.01	4	1090	12	2	11	46	0.03	< 10	< 10	80	< 10	28
H588091	299	229	0.11	2	1050	20	4	14	98	0.14	< 10	< 10	106	10	26
H588092	299	229	0.14	7	1170	12	< 2	15	92	0.24	< 10	< 10	130	20	26
H588093	299	229	0.08	4	940	22	2	12	99	0.10	< 10	< 10	101	< 10	46
H588094	299	229	0.06	3	700	12	4	8	74	0.07	< 10	< 10	66	< 10	38
H588095	299	229	0.05	4	1030	18	4	12	272	0.08	< 10	< 10	110	< 10	66
H588096	299	229	0.08	3	840	8	< 2	11	51	0.08	< 10	< 10	106	< 10	38
H588097	299	229	0.10	3	860	10	2	17	74	0.15	< 10	< 10	143	< 10	28
H588098	299	229	0.16	4	980	14	< 2	18	201	0.25	< 10	< 10	151	< 10	26
H588099	299	229	0.23	8	910	14	< 2	20	459	0.29	< 10	< 10	170	10	26
H588100	299	229	0.20	8	870	20	2	20	302	0.27	< 10	< 10	168	10	28
H588101	299	229	0.12	6	790	24	< 2	19	453	0.22	< 10	< 10	160	< 10	50
H588102	299	229	0.05	3	1110	34	4	12	63	0.07	< 10	< 10	121	< 10	164
H588103	299	229	0.10	4	1280	24	2	15	82	0.11	< 10	< 10	136	< 10	162
H588104	299	229	0.13	4	1220	62	14	15	106	0.10	< 10	< 10	129	< 10	194
H588105	299	229	0.11	2	710	12	4	9	91	0.07	< 10	< 10	79	< 10	52
H588106	299	229	0.03	2	200	4	4	< 1	46	< 0.01	< 10	< 10	3	< 10	14
H588107	299	229	0.02	3	210	8	2	< 1	32	< 0.01	< 10	< 10	3	< 10	14
H588108	299	229	0.01	2	220	18	6	< 1	36	< 0.01	< 10	< 10	4	< 10	36
H588109	299	229	0.01	4	310	14	4	1	31	< 0.01	< 10	< 10	11	< 10	48
H588110	299	229	0.02	2	330	12	2	2	41	< 0.01	< 10	< 10	19	< 10	24
H588111	299	229	0.01	3	360	16	14	3	39	< 0.01	< 10	10	22	< 10	34
H588112	299	229	0.08	3	720	4	2	8	63	0.03	< 10	< 10	65	< 10	26
H588113	299	229	0.02	4	1020	18	8	11	71	0.06	< 10	< 10	77	< 10	32
H588114	299	229	0.06	3	1190	14	< 2	15	92	0.15	< 10	< 10	116	< 10	22
H588115	299	229	0.09	2	1180	18	< 2	15	191	0.16	< 10	< 10	121	< 10	28
H588116	299	229	0.07	4	1170	14	< 2	15	120	0.15	< 10	< 10	115	< 10	24
H588117	299	229	0.02	3	480	18	4	6	45	0.02	< 10	< 10	34	< 10	24
H588118	299	229	0.04	4	340	12	2	4	44	< 0.01	< 10	< 10	29	< 10	34
H588119	299	229	0.03	3	420	26	4	3	53	< 0.01	< 10	< 10	25	< 10	30
H588120	299	229	0.02	3	350	32	4	2	33	< 0.01	< 10	< 10	9	< 10	50
H588121	299	229	0.01	2	180	18	6	< 1	20	< 0.01	< 10	< 10	5	< 10	14
H588122	299	229	0.06	3	390	16	2	4	44	< 0.01	< 10	< 10	32	< 10	28

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H588123	299	229	2.4	1.36	8	140	< 0.5	8	1.65	1.5	16	75	4660	1.86	< 10	< 1	0.43	20	0.63	130	82
H588124	299	229	1.0	1.96	2	160	< 0.5	< 2	1.52	< 0.5	35	63	2260	2.51	< 10	< 1	0.62	20	0.95	120	116
H588125	299	229	0.4	1.73	< 2	170	< 0.5	< 2	1.09	< 0.5	15	69	960	1.87	< 10	< 1	0.51	20	0.88	130	16
H588126	299	229	0.6	2.65	4	220	< 0.5	< 2	1.48	< 0.5	31	44	1470	3.32	< 10	< 1	1.03	10	1.72	170	25
H588127	299	229	0.4	1.74	4	120	< 0.5	< 2	1.05	< 0.5	20	65	1075	3.07	< 10	< 1	0.61	10	1.15	120	29
H588128	299	229	0.6	0.58	< 2	150	< 0.5	< 2	1.30	0.5	9	102	1215	0.97	< 10	< 1	0.29	20	0.17	90	61
H588129	299	229	0.2	0.66	16	270	< 0.5	< 2	1.61	< 0.5	29	80	775	1.53	< 10	< 1	0.25	20	0.18	95	76
H588130	299	229	0.8	1.25	16	420	< 0.5	< 2	1.93	1.5	14	79	1075	1.74	< 10	< 1	0.58	20	0.58	170	29
H588131	299	229	1.2	0.77	16	310	< 0.5	< 2	1.08	1.0	18	63	973	1.35	< 10	< 1	0.25	20	0.21	150	46
H588132	299	229	0.8	0.73	8	240	< 0.5	< 2	1.45	2.5	11	60	610	1.36	< 10	< 1	0.26	20	0.28	215	38
H588133	299	229	4.2	0.63	20	150	< 0.5	< 2	1.69	2.0	19	83	1555	1.56	< 10	< 1	0.30	20	0.18	300	61
H588134	299	229	5.6	0.57	26	120	< 0.5	< 2	1.91	12.5	19	76	1065	1.78	< 10	< 1	0.32	10	0.46	445	37
H588135	299	229	0.8	0.52	6	160	< 0.5	< 2	1.73	2.0	16	73	1055	1.36	< 10	< 1	0.24	20	0.25	265	27
H588136	299	229	0.6	0.59	8	120	< 0.5	< 2	1.99	< 0.5	19	81	1110	1.56	< 10	< 1	0.23	20	0.31	145	286
H588137	299	229	0.4	1.26	4	140	< 0.5	< 2	1.85	< 0.5	18	83	1185	2.33	< 10	< 1	0.51	10	0.67	180	45
H588138	299	229	0.2	0.77	6	130	< 0.5	< 2	1.66	< 0.5	16	93	645	1.53	< 10	< 1	0.28	10	0.30	120	15
H588139	299	229	0.2	0.61	8	120	< 0.5	< 2	1.75	< 0.5	13	117	789	1.06	< 10	< 1	0.25	20	0.27	110	38
H588140	299	229	0.6	0.56	8	260	< 0.5	< 2	1.43	0.5	13	107	458	1.27	< 10	< 1	0.27	20	0.17	350	11
H588141	299	229	1.0	0.62	22	190	< 0.5	< 2	0.77	< 0.5	16	53	1090	1.15	< 10	< 1	0.20	20	0.11	145	24
H588142	299	229	0.2	0.56	16	290	< 0.5	< 2	0.81	< 0.5	13	63	674	0.80	< 10	< 1	0.15	20	0.11	105	21
H588143	299	229	< 0.2	0.57	10	120	< 0.5	10	0.46	< 0.5	6	105	379	0.51	< 10	< 1	0.21	20	0.08	40	54
H588144	299	229	0.2	0.64	2	150	< 0.5	< 2	1.26	< 0.5	15	106	345	1.04	< 10	< 1	0.22	10	0.25	55	9
H588145	299	229	1.4	1.90	< 2	310	< 0.5	< 2	1.42	< 0.5	21	95	1970	2.54	< 10	< 1	0.77	10	1.14	105	49
H588146	299	229	0.6	1.99	24	250	< 0.5	< 2	1.94	< 0.5	27	84	1900	2.53	< 10	< 1	0.80	10	1.19	110	23
H588147	299	229	0.8	2.43	< 2	250	< 0.5	< 2	1.91	< 0.5	27	120	1055	3.17	< 10	< 1	1.11	10	1.53	160	82
H588148	299	229	0.4	2.35	6	120	< 0.5	< 2	1.73	< 0.5	26	81	1290	3.66	< 10	< 1	1.08	< 10	1.53	175	10
H588149	299	229	0.6	1.96	4	180	< 0.5	< 2	1.92	0.5	16	127	1055	2.76	< 10	< 1	0.83	10	1.17	170	17
H588150	299	229	1.6	2.07	6	380	< 0.5	< 2	1.41	< 0.5	16	135	1585	2.58	10	< 1	0.86	30	1.09	190	131
H588151	299	229	1.8	1.62	10	320	< 0.5	< 2	1.69	0.5	25	157	1725	2.16	< 10	< 1	0.59	20	0.66	220	27
H588152	299	229	0.6	1.64	12	150	< 0.5	< 2	2.05	< 0.5	29	108	1475	2.28	10	< 1	0.55	30	0.77	155	20
H588153	299	229	1.2	1.75	8	220	< 0.5	< 2	2.05	< 0.5	24	130	2010	2.20	< 10	< 1	0.59	20	0.72	125	17
H588154	299	229	2.4	1.67	26	270	< 0.5	< 2	2.70	< 0.5	20	66	1575	2.26	< 10	< 1	0.41	20	0.62	165	33
H588155	299	229	1.0	1.55	4	240	< 0.5	< 2	1.58	< 0.5	17	120	1010	1.97	< 10	< 1	0.51	20	0.86	115	253
H588156	299	229	0.4	1.51	< 2	190	< 0.5	< 2	1.60	< 0.5	24	121	614	2.50	< 10	< 1	0.55	10	0.96	150	25
H588157	299	229	0.8	1.82	8	230	< 0.5	< 2	1.66	< 0.5	26	104	1775	2.37	< 10	< 1	0.45	20	0.67	100	59
H588158	299	229	0.6	1.50	8	210	< 0.5	< 2	1.63	< 0.5	21	109	1285	2.05	< 10	< 1	0.60	10	0.91	95	26
H588159	299	229	0.6	1.34	2	200	< 0.5	< 2	1.21	< 0.5	16	110	1325	1.97	< 10	< 1	0.51	10	0.88	85	19
H588160	299	229	0.6	1.79	< 2	200	< 0.5	< 2	1.46	< 0.5	23	108	1460	2.95	< 10	< 1	0.91	10	1.40	110	12
H588161	299	229	0.4	2.66	< 2	80	< 0.5	< 2	1.84	< 0.5	30	79	1015	4.42	< 10	< 1	1.33	10	1.87	185	1
H588162	299	229	0.4	2.38	14	170	< 0.5	< 2	2.22	< 0.5	26	61	1290	3.93	< 10	< 1	1.17	10	1.52	150	25

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :4-B
Total Pages :5
Certificate Date: 09-NOV-93
Invoice No. :I9323979
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323979

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588123	299	229	0.04	4	390	58	4	4	46	0.01	< 10	< 10	32	< 10	122
H588124	299	229	0.06	7	550	8	2	7	45	0.04	< 10	< 10	52	< 10	16
H588125	299	229	0.08	2	420	10	2	7	43	0.03	< 10	< 10	50	< 10	28
H588126	299	229	0.08	5	890	12	< 2	14	146	0.11	< 10	< 10	121	< 10	34
H588127	299	229	0.08	3	550	12	< 2	8	34	0.06	< 10	< 10	71	< 10	24
H588128	299	229	0.04	3	180	20	< 2	1	29	< 0.01	< 10	< 10	9	< 10	24
H588129	299	229	0.03	4	240	18	4	2	31	< 0.01	< 10	< 10	9	< 10	30
H588130	299	229	0.02	7	290	62	4	5	51	0.04	< 10	< 10	29	< 10	146
H588131	299	229	0.01	2	270	62	30	1	27	< 0.01	< 10	< 10	9	< 10	126
H588132	299	229	0.02	2	310	52	6	2	92	< 0.01	< 10	< 10	12	< 10	250
H588133	299	229	0.01	4	300	96	18	1	51	< 0.01	< 10	< 10	6	< 10	188
H588134	299	229	0.01	1	350	702	34	1	28	< 0.01	< 10	< 10	7	< 10	1060
H588135	299	229	0.02	2	260	26	2	1	76	< 0.01	< 10	< 10	7	< 10	202
H588136	299	229	0.01	6	350	16	4	3	26	< 0.01	< 10	< 10	15	< 10	28
H588137	299	229	0.04	7	560	6	< 2	5	195	0.03	< 10	< 10	39	< 10	30
H588138	299	229	0.04	2	260	12	< 2	1	79	< 0.01	< 10	< 10	10	< 10	22
H588139	299	229	0.04	3	220	12	2	1	200	< 0.01	< 10	< 10	9	< 10	20
H588140	299	229	0.03	2	210	38	2	< 1	84	< 0.01	< 10	< 10	4	< 10	60
H588141	299	229	0.01	2	240	44	16	1	17	< 0.01	< 10	< 10	4	< 10	76
H588142	299	229	0.01	2	200	16	28	1	17	< 0.01	< 10	< 10	3	< 10	12
H588143	299	229	0.01	2	120	12	12	< 1	11	< 0.01	< 10	< 10	2	< 10	6
H588144	299	229	0.04	2	170	12	< 2	1	57	< 0.01	< 10	< 10	11	< 10	8
H588145	299	229	0.08	4	490	8	< 2	10	105	0.09	< 10	< 10	77	< 10	16
H588146	299	229	0.07	3	670	4	4	10	130	0.09	< 10	< 10	79	< 10	18
H588147	299	229	0.11	4	650	14	2	15	155	0.17	< 10	< 10	118	< 10	44
H588148	299	229	0.11	3	680	2	< 2	15	91	0.20	< 10	< 10	128	< 10	22
H588149	299	229	0.12	3	530	22	< 2	11	116	0.11	< 10	< 10	88	< 10	66
H588150	299	229	0.07	14	340	8	4	11	104	0.11	< 10	< 10	68	< 10	32
H588151	299	229	0.06	11	350	24	12	7	84	0.03	< 10	< 10	43	< 10	70
H588152	299	229	0.04	9	360	14	2	7	69	0.03	< 10	< 10	44	< 10	24
H588153	299	229	0.06	3	420	8	< 2	8	76	0.03	< 10	< 10	49	< 10	20
H588154	299	229	0.03	4	500	24	8	10	150	0.02	< 10	< 10	53	< 10	58
H588155	299	229	0.07	4	360	8	2	7	150	0.04	< 10	< 10	53	< 10	26
H588156	299	229	0.08	4	420	12	< 2	9	193	0.08	< 10	< 10	62	< 10	46
H588157	299	229	0.03	6	470	12	< 2	9	164	0.03	< 10	< 10	51	< 10	18
H588158	299	229	0.06	2	370	6	< 2	8	167	0.04	< 10	< 10	56	< 10	20
H588159	299	229	0.07	4	390	8	< 2	7	87	0.06	< 10	< 10	56	< 10	18
H588160	299	229	0.09	5	590	6	< 2	14	72	0.15	< 10	< 10	101	< 10	16
H588161	299	229	0.14	2	1050	18	< 2	15	97	0.21	< 10	< 10	128	< 10	26
H588162	299	229	0.10	2	1070	12	< 2	13	129	0.15	< 10	< 10	108	< 10	16

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. : I9323979
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323979

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588163	299	229	0.4	2.54	14	240	< 0.5	< 2	3.51	< 0.5	36	63	1165	3.46	< 10	< 1	0.98	20	1.15	130	49
H588164	299	229	0.2	2.52	6	80	< 0.5	< 2	2.83	< 0.5	33	94	847	4.37	< 10	< 1	1.15	20	1.40	150	12
H588165	299	229	0.6	1.11	44	180	< 0.5	< 2	1.82	< 0.5	16	82	1610	2.40	< 10	< 1	0.19	30	0.57	165	10
H588166	299	229	< 0.2	1.47	6	400	< 0.5	< 2	1.98	< 0.5	22	100	449	2.38	< 10	< 1	0.44	20	0.70	105	2
H588167	299	229	2.8	1.13	84	60	< 0.5	< 2	1.67	< 0.5	23	85	1695	4.01	10	< 1	0.54	10	0.80	320	25

CERTIFICATION:

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO-221
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 09-NOV-93
Invoice No. :19323979
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323979

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588163	299	229	0.07	< 1	1240	8	< 2	10	281	0.11	< 10	< 10	81	< 10	14
H588164	299	229	0.13	2	1250	16	2	14	133	0.15	< 10	< 10	102	< 10	18
H588165	299	229	0.02	2	600	14	2	8	72	< 0.01	< 10	< 10	35	< 10	20
H588166	299	229	0.06	3	570	12	2	8	191	0.04	< 10	< 10	46	< 10	12
H588167	299	229	0.06	4	430	68	6	7	90	0.06	< 10	< 10	50	< 10	60

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Analytical Chemists * Geochemists * Registered Assayers

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Project : CASINO 222
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page [illegible]er : 1
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Certificate Date: 28-OCT-93
Invoice No. : I9323185
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323185

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589793	208	274	0.05	0.002	0.07	4240						
589794	208	274	0.06	0.006	0.17	2240						
589795	208	274	0.06	0.006	0.21	4920						
589796	208	274	0.11	0.011	0.17	6660						
589797	208	274	0.06	0.007	0.14	5060						
589798	208	274	0.25	0.007	0.24	5680						
589799	208	276	0.38	0.028	0.34	7380						
589800	208	274	0.85	0.017	0.55	4820						
589801	208	276	0.41	0.003	0.14	7960						
589802	208	276	0.19	0.008	0.14	7480						
589803	208	276	0.60	0.035	0.51	8460						
589804	208	274	0.19	0.023	0.10	4060						
589805	208	276	0.21	0.004	0.14	9220						
589806	208	276	0.37	0.007	0.10	7480						
589807	208	274	0.66	0.014	0.27	6540						
589808	208	276	0.20	0.004	0.14	9540						
589809	208	276	0.34	0.020	0.21	9780						
589810	208	276	0.32	0.019	0.07	9700						
589811	208	276	0.35	0.008	0.24	8040						
589812	208	276	0.26	0.007	0.27	10660						
589813	208	274	0.30	0.006	0.17	4980						
589814	208	276	0.23	0.015	0.14	8000						
589815	208	276	0.29	0.004	0.07	8320						
589816	208	276	0.15	0.008	0.03	10060						
589817	208	274	0.09	0.002	0.10	5200						
589818	208	276	0.19	0.005	0.21	8040						
589819	208	276	0.18	0.002	0.14	8740						
589820	208	276	0.14	0.001	0.17	11780						
589821	208	276	0.07	0.001	0.07	11060						
589822	208	276	0.05	0.001	< 0.03	9960						
589823	208	276	0.07	0.001	0.03	11700						
589824	208	276	0.06	0.001	0.03	8740						
589825	208	276	0.06	0.001	< 0.03	7360						
589826	208	273	0.10	0.002	0.07	12340						
589827	208	276	0.12	< 0.001	0.10	10840						
589828	208	273	0.24	0.006	0.24	12420						
589829	208	273	0.29	0.004	0.17	12760						
589830	208	273	0.15	< 0.001	0.14	14100						
589831	208	276	0.14	0.001	0.10	11680						
589832	208	276	0.40	0.002	0.45	11060						

CERTIFICATION: Brad Thomas

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 222
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-OCT-93
Invoice No. : 19323185
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323185

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589833	208	273	0.14	0.006	0.07	12720						
589834	208	273	0.08	0.003	< 0.03	12500						
589835	208	276	0.10	0.005	0.03	10140						
589836	208	276	0.09	0.005	< 0.03	7560						
589837	208	274	0.12	0.003	0.07	6500						
589838	208	274	0.19	0.004	0.24	7060						
589839	208	274	0.33	0.008	0.31	6840						
589840	208	274	0.29	0.011	0.27	5860						
589841	208	276	0.19	0.020	0.27	11220						
589842	208	274	0.22	0.015	0.24	6200						
589843	208	276	0.14	0.006	0.10	10780						
589844	208	276	0.17	0.008	0.17	11700						
589845	208	273	0.27	0.004	0.21	12200						
589846	208	276	0.39	0.007	0.31	11660						
589847	208	273	0.34	0.033	0.31	14000						
589848	208	276	0.28	0.002	0.24	11800						
589849	208	273	0.23	0.004	0.21	12060						
589850	208	273	0.45	0.009	0.62	14800						
589851	208	273	0.47	0.011	0.45	12000						
589852	208	276	0.19	0.005	0.14	9620						
589853	208	276	0.30	0.003	0.24	8960						
589854	208	276	0.38	0.005	0.45	10980						
589855	208	273	0.13	0.006	0.07	12580						
589856	208	273	0.20	0.013	0.17	12160						
589857	208	273	0.18	0.006	0.14	15540						
589858	208	276	0.17	0.014	0.10	11700						
589859	208	276	0.16	0.015	0.03	9680						
589860	208	273	0.25	0.008	0.17	12760						
589861	208	276	0.19	0.026	0.17	7640						
589862	208	276	0.19	0.008	0.14	9320						
589863	208	273	0.18	0.014	0.07	11860						
589864	208	276	0.16	0.006	0.14	10960						
589865	208	273	0.16	0.012	0.10	13120						
589866	208	273	0.22	0.036	0.14	11880						
589867	208	276	0.15	0.022	0.14	11520						
589868	208	273	0.13	0.061	0.10	12840						
589869	208	273	0.22	0.095	0.21	12220						
589870	208	276	0.20	0.033	0.17	10920						
589871	208	273	0.22	0.015	0.17	12700						
589872	208	273	0.26	0.028	0.21	14960						

CERTIFICATION: Said Cranb

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
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Total P[illegible]s :4
Certificate Date: 28-OCT-93
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Account :FC

CERTIFICATE OF ANALYSIS A9323185

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589873	208	276	0.23	0.006	1.17	8940						
589874	208	276	0.39	0.017	0.41	10100						
589875	208	276	0.19	0.044	0.21	10940						
589876	208	276	0.08	0.035	0.03	10760						
589877	208	273	0.02	0.005	< 0.03	13010						
589878	208	273	0.01	0.002	0.03	13980						
589879	208	276	0.01	0.002	< 0.03	10740						
589880	208	273	< 0.01	0.001	< 0.03	13940						
589881	208	273	0.01	0.001	< 0.03	12600						
589882	208	274	0.01	< 0.001	< 0.03	5680						
589883	208	276	< 0.01	0.001	< 0.03	7500						
589884	208	276	< 0.01	< 0.001	< 0.03	8640						
589885	208	276	0.01	0.002	< 0.03	7620						
589886	208	273	0.02	< 0.001	< 0.03	12360						
589887	208	273	0.01	< 0.001	< 0.03	12220						
589888	208	276	0.01	< 0.001	< 0.03	8860						
589889	208	276	0.02	< 0.001	< 0.03	11680						
589890	208	276	0.02	< 0.001	0.17	10460						
589891	208	273	0.01	< 0.001	0.03	12540						
589892	208	276	0.01	< 0.001	< 0.03	10740						
589893	208	273	0.01	< 0.001	< 0.03	13580						
589894	208	273	0.01	< 0.001	< 0.03	13420						
589895	208	273	0.02	< 0.001	< 0.03	14120						
589896	208	273	< 0.01	< 0.001	< 0.03	14020						
589897	208	273	< 0.01	< 0.001	< 0.03	14600						
589898	208	270	0.01	< 0.001	< 0.03	17200						
589899	208	273	0.01	< 0.001	< 0.03	14580						
589900	208	273	0.01	< 0.001	< 0.03	14000						
589901	208	273	0.02	< 0.001	< 0.03	14120						
589902	208	273	0.01	< 0.001	< 0.03	12960						
589903	208	273	< 0.01	< 0.001	< 0.03	12400						
589904	208	273	0.01	< 0.001	< 0.03	14060						
589905	208	273	0.01	< 0.001	< 0.03	13940						
589906	208	273	0.01	< 0.001	< 0.03	14260						
589907	208	273	0.01	< 0.001	< 0.03	13640						
589908	208	276	0.01	< 0.001	< 0.03	11460						
589909	208	273	0.01	< 0.001	< 0.03	13720						
589910	208	273	0.01	< 0.001	< 0.03	14500						
589911	208	276	0.01	< 0.001	< 0.03	11620						
589912	208	273	0.02	< 0.001	< 0.03	13440						

CERTIFICATION: [signature]

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 222
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-OCT-93
Invoice No. :19323185
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323185

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589913	208	273	< 0.01	0.002	< 0.03	11940						
589914	208	273	0.01	0.001	< 0.03	13020						

CERTIFICATION: Brad Grant

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9323186

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589793	299	229	0.8	4.09	34	400	< 0.5	< 2	0.20	< 0.5	3	43	524	4.73	10	< 1	0.84	< 10	1.46	105	11
589794	299	229	0.8	4.69	82	460	< 0.5	< 2	0.24	< 0.5	7	25	587	6.26	10	< 1	1.20	10	1.59	115	33
589795	299	229	1.4	5.11	32	420	< 0.5	< 2	0.21	< 0.5	6	30	617	4.87	10	< 1	1.16	< 10	1.79	115	28
589796	299	229	1.6	3.39	40	60	< 0.5	< 2	0.16	< 0.5	23	31	1095	4.65	< 10	< 1	0.62	< 10	0.68	50	60
589797	299	229	3.4	1.12	28	140	< 0.5	< 2	0.06	< 0.5	31	103	652	2.22	< 10	< 1	0.30	10	0.06	10	40
589798	299	229	3.6	1.99	154	160	< 0.5	< 2	0.13	< 0.5	21	69	2640	3.04	< 10	< 1	0.29	10	0.07	20	41
589799	299	229	9.0	4.31	172	90	0.5	< 2	0.19	< 0.5	30	69	3950	3.30	< 10	< 1	0.29	10	0.07	15	168
589800	299	229	2.2	1.60	64	100	< 0.5	4	0.12	0.5	43	40	8790	2.96	< 10	< 1	0.34	20	0.07	10	103
589801	299	229	2.0	2.30	46	90	< 0.5	< 2	0.27	< 0.5	43	43	4300	3.50	< 10	< 1	0.33	20	0.07	10	15
589802	299	229	0.4	1.78	20	120	< 0.5	< 2	0.20	< 0.5	31	64	2090	2.73	< 10	< 1	0.53	20	0.08	10	50
589803	299	229	2.0	1.25	82	60	< 0.5	< 2	0.11	< 0.5	38	59	6300	3.35	< 10	< 1	0.29	20	0.07	5	220
589804	299	229	1.4	1.87	16	50	< 0.5	< 2	0.16	< 0.5	45	84	2050	4.15	< 10	< 1	0.52	10	0.10	10	145
589805	299	229	1.2	1.84	28	90	< 0.5	< 2	0.17	< 0.5	22	45	2250	2.08	< 10	< 1	0.32	20	0.06	5	22
589806	299	229	1.2	2.31	42	50	0.5	< 2	0.14	< 0.5	29	90	3890	4.51	< 10	< 1	0.55	10	0.10	110	33
589807	299	229	2.4	1.88	70	70	< 0.5	4	0.12	0.5	23	85	7150	4.03	< 10	< 1	0.44	20	0.08	180	79
589808	299	229	0.6	2.09	26	100	< 0.5	< 2	0.16	< 0.5	29	57	2030	1.90	< 10	< 1	0.21	10	0.04	20	21
589809	299	229	1.4	2.25	72	80	< 0.5	< 2	0.13	< 0.5	28	62	3540	2.11	< 10	< 1	0.21	20	0.05	10	116
589810	299	229	0.8	2.04	48	30	< 0.5	< 2	0.15	< 0.5	32	79	3280	2.98	< 10	< 1	0.26	20	0.06	15	106
589811	299	229	1.6	2.14	66	70	< 0.5	< 2	0.25	< 0.5	28	34	3730	2.63	< 10	< 1	0.14	10	0.03	10	41
589812	299	229	0.4	2.31	42	60	< 0.5	< 2	0.27	< 0.5	46	38	2770	4.19	< 10	< 1	0.22	10	0.06	410	40
589813	299	229	2.0	2.24	38	80	< 0.5	< 2	0.27	< 0.5	59	59	3100	3.03	< 10	< 1	0.32	10	0.09	165	29
589814	299	229	1.2	1.87	48	40	< 0.5	< 2	0.26	< 0.5	53	75	2430	4.44	< 10	< 1	0.28	10	0.08	450	87
589815	299	229	6.8	1.96	46	30	< 0.5	< 2	0.24	< 0.5	58	86	3110	4.54	< 10	< 1	0.31	10	0.11	320	17
589816	299	229	0.6	1.73	16	120	< 0.5	< 2	0.27	< 0.5	34	71	1535	3.33	< 10	< 1	0.28	20	0.11	380	40
589817	299	229	1.6	2.15	44	80	< 0.5	< 2	1.32	< 0.5	43	73	870	5.90	10	< 1	0.48	20	0.60	475	9
589818	299	229	1.0	2.63	20	160	< 0.5	< 2	1.75	< 0.5	37	49	1965	4.23	10	< 1	0.59	20	1.03	430	25
589819	299	229	0.8	3.46	< 2	70	< 0.5	< 2	1.65	1.0	29	62	1825	4.22	10	< 1	0.87	20	1.47	410	8
589820	299	229	0.6	3.70	8	210	0.5	< 2	2.46	< 0.5	16	54	1330	4.43	10	< 1	0.92	20	1.62	235	2
589821	299	229	1.8	2.30	12	160	< 0.5	< 2	2.46	< 0.5	16	148	697	2.71	10	< 1	0.43	20	0.71	160	5
589822	299	229	0.4	1.87	20	70	0.5	< 2	1.44	< 0.5	22	129	468	2.29	< 10	< 1	0.25	20	0.68	135	6
589823	299	229	0.6	2.39	16	100	0.5	< 2	1.89	< 0.5	29	122	747	2.74	10	< 1	0.32	20	1.09	160	8
589824	299	229	0.4	2.06	20	110	0.5	< 2	2.00	< 0.5	23	103	567	3.02	< 10	< 1	0.30	20	0.82	115	6
589825	299	229	0.6	2.15	22	60	1.0	< 2	1.85	< 0.5	18	96	585	3.03	< 10	< 1	0.28	10	0.95	110	4
589826	299	229	1.0	1.24	30	60	0.5	< 2	2.68	< 0.5	19	90	987	2.98	< 10	< 1	0.28	20	0.37	135	5
589827	299	229	0.6	3.18	20	110	1.5	< 2	2.74	< 0.5	26	48	1120	5.10	10	< 1	0.65	20	1.28	205	< 1
589828	299	229	1.2	1.75	24	80	< 0.5	< 2	2.23	< 0.5	31	78	2260	3.45	10	< 1	0.38	10	0.28	210	41
589829	299	229	1.6	1.73	24	30	< 0.5	< 2	2.26	< 0.5	30	139	3090	4.41	< 10	< 1	0.47	10	0.38	210	32
589830	299	229	0.6	3.23	24	60	0.5	< 2	3.32	< 0.5	27	65	1405	4.57	10	< 1	0.60	10	1.41	240	2
589831	299	229	0.4	3.48	8	30	0.5	< 2	3.09	< 0.5	31	54	1415	5.38	10	< 1	0.46	20	1.61	310	6
589832	299	229	1.8	2.28	18	110	0.5	2	1.48	< 0.5	30	62	4080	4.31	10	< 1	0.60	20	0.73	465	15

CERTIFICATION: Ken Bushlen

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Page Number :1-B
Total Pages :4
Certificate Date: 28-OCT-93
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CERTIFICATE OF ANALYSIS A9323186

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589793	299	229	0.01	5	1090	6	2	15	96	0.08	< 10	< 10	116	10	26
589794	299	229	0.02	18	1720	< 2	6	17	103	0.12	< 10	< 10	125	20	40
589795	299	229	0.02	4	1150	< 2	< 2	15	46	0.11	< 10	< 10	129	10	38
589796	299	229	0.01	7	1700	< 2	< 2	11	74	0.03	< 10	< 10	78	10	24
589797	299	229	0.01	4	350	< 2	6	2	39	< 0.01	< 10	< 10	10	< 10	10
589798	299	229	0.01	8	990	8	60	7	90	< 0.01	< 10	< 10	20	< 10	30
589799	299	229	0.01	15	2140	< 2	28	14	197	< 0.01	< 10	20	32	< 10	52
589800	299	229	0.01	8	690	4	36	4	138	< 0.01	< 10	< 10	22	< 10	18
589801	299	229	0.01	8	1220	< 2	30	4	76	< 0.01	< 10	< 10	38	< 10	28
589802	299	229	0.01	3	900	< 2	32	3	65	< 0.01	< 10	< 10	21	< 10	16
589803	299	229	0.01	5	430	< 2	58	2	33	< 0.01	< 10	< 10	13	< 10	8
589804	299	229	0.01	6	620	< 2	14	4	23	< 0.01	< 10	< 10	22	< 10	14
589805	299	229	< 0.01	4	680	< 2	28	4	13	< 0.01	< 10	< 10	22	< 10	20
589806	299	229	0.01	8	450	< 2	14	3	54	< 0.01	< 10	< 10	22	< 10	42
589807	299	229	0.01	9	410	< 2	62	3	48	< 0.01	< 10	< 10	17	< 10	46
589808	299	229	< 0.01	6	600	< 2	8	7	12	< 0.01	< 10	< 10	35	< 10	34
589809	299	229	< 0.01	8	500	< 2	40	4	39	< 0.01	< 10	< 10	25	< 10	42
589810	299	229	0.01	9	610	< 2	22	3	95	< 0.01	< 10	< 10	19	< 10	38
589811	299	229	< 0.01	6	1090	6	60	4	89	< 0.01	< 10	< 10	37	< 10	32
589812	299	229	< 0.01	7	1050	< 2	46	12	39	< 0.01	< 10	< 10	72	< 10	102
589813	299	229	0.01	12	1140	< 2	26	11	58	< 0.01	< 10	< 10	64	< 10	52
589814	299	229	0.01	8	940	< 2	22	7	28	< 0.01	< 10	< 10	38	< 10	60
589815	299	229	0.01	9	830	< 2	16	4	19	< 0.01	< 10	< 10	27	< 10	76
589816	299	229	< 0.01	6	750	< 2	8	5	25	< 0.01	< 10	< 10	26	< 10	82
589817	299	229	0.01	1	1120	12	2	7	14	< 0.01	< 10	< 10	52	20	52
589818	299	229	0.01	4	1180	2	6	9	24	0.02	< 10	< 10	69	10	62
589819	299	229	0.02	3	1230	< 2	4	12	63	0.09	< 10	< 10	97	10	80
589820	299	229	0.03	2	960	< 2	2	13	70	0.07	< 10	< 10	111	10	16
589821	299	229	0.01	4	450	< 2	< 2	4	55	< 0.01	< 10	< 10	32	< 10	8
589822	299	229	0.01	2	230	< 2	< 2	2	41	< 0.01	< 10	< 10	19	< 10	6
589823	299	229	0.01	3	360	6	< 2	4	49	< 0.01	< 10	< 10	31	< 10	14
589824	299	229	0.01	3	370	2	2	3	47	< 0.01	< 10	< 10	25	10	8
589825	299	229	0.01	2	420	< 2	< 2	4	50	< 0.01	< 10	< 10	30	10	12
589826	299	229	< 0.01	2	470	2	2	4	35	< 0.01	< 10	< 10	25	< 10	20
589827	299	229	0.01	3	990	2	2	13	49	0.03	< 10	< 10	89	10	24
589828	299	229	0.01	2	1070	< 2	4	8	19	< 0.01	< 10	< 10	50	< 10	18
589829	299	229	0.01	4	660	10	4	6	26	0.01	< 10	< 10	39	< 10	14
589830	299	229	0.01	1	1080	< 2	2	10	48	0.03	< 10	< 10	82	10	20
589831	299	229	0.01	2	1200	< 2	4	9	92	0.01	< 10	< 10	71	10	34
589832	299	229	0.01	2	1630	< 2	4	9	23	0.03	< 10	< 10	55	< 10	56

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589833	299	229	1.0	0.75	16	60	< 0.5	< 2	0.17	< 0.5	23	74	1440	2.68	< 10	< 1	0.24	20	0.09	205	32
589834	299	229	0.4	0.68	8	130	< 0.5	< 2	0.19	< 0.5	20	105	905	2.11	< 10	< 1	0.20	30	0.10	60	17
589835	299	229	0.6	0.70	14	140	< 0.5	< 2	0.12	0.5	21	90	1055	2.04	< 10	< 1	0.21	20	0.09	65	27
589836	299	229	0.2	0.71	6	150	< 0.5	< 2	0.08	< 0.5	17	93	905	1.54	< 10	< 1	0.24	20	0.04	35	29
589837	299	229	0.4	0.88	8	70	< 0.5	< 2	0.24	< 0.5	25	74	1175	2.21	< 10	< 1	0.25	20	0.09	420	15
589838	299	229	0.8	0.77	22	60	< 0.5	< 2	0.28	< 0.5	28	88	1935	2.76	< 10	< 1	0.24	20	0.13	310	19
589839	299	229	1.4	1.03	20	180	< 0.5	< 2	0.58	< 0.5	22	68	3330	1.73	< 10	< 1	0.21	30	0.34	165	44
589840	299	229	1.2	1.39	8	200	0.5	< 2	0.67	< 0.5	17	100	2950	1.95	< 10	< 1	0.23	20	0.51	175	72
589841	299	229	1.0	0.79	8	200	< 0.5	< 2	0.89	< 0.5	21	73	1935	1.87	< 10	< 1	0.29	30	0.39	210	127
589842	299	229	1.2	1.08	24	50	< 0.5	< 2	1.90	< 0.5	17	79	2190	1.97	< 10	< 1	0.27	20	0.77	360	87
589843	299	229	0.8	0.85	16	60	< 0.5	< 2	0.76	< 0.5	26	81	1375	2.30	< 10	< 1	0.28	20	0.36	375	34
589844	299	229	0.8	0.62	12	30	< 0.5	< 2	1.66	< 0.5	23	39	1690	2.23	< 10	< 1	0.16	20	0.42	370	49
589845	299	229	1.4	0.86	12	140	< 0.5	< 2	0.62	0.5	28	66	2840	2.46	< 10	< 1	0.31	30	0.31	240	19
589846	299	229	1.8	1.12	16	120	< 0.5	< 2	0.75	0.5	24	79	3920	2.51	< 10	< 1	0.33	30	0.35	215	37
589847	299	229	1.8	2.76	18	190	0.5	< 2	2.25	< 0.5	26	44	3080	3.41	10	< 1	0.79	20	1.46	535	181
589848	299	229	1.4	2.86	16	160	1.0	< 2	2.01	< 0.5	21	46	2710	3.07	10	< 1	0.56	20	1.44	425	10
589849	299	229	0.8	1.74	16	180	1.0	< 2	1.99	< 0.5	10	34	2040	1.75	< 10	< 1	0.28	20	0.94	370	19
589850	299	229	1.8	1.76	28	80	0.5	< 2	1.98	< 0.5	18	36	4210	2.95	< 10	< 1	0.33	20	1.23	470	107
589851	299	229	2.4	1.09	40	150	0.5	2	0.87	< 0.5	27	32	4820	2.03	< 10	< 1	0.19	30	0.39	325	59
589852	299	229	0.8	1.20	112	150	0.5	< 2	1.34	< 0.5	22	31	1885	2.59	< 10	< 1	0.32	20	0.47	710	26
589853	299	229	1.6	1.20	88	140	0.5	94	1.79	< 0.5	32	17	2830	2.60	< 10	< 1	0.19	10	0.52	650	13
589854	299	229	18.6	0.73	726	30	< 0.5	2	2.12	14.5	35	56	3720	5.52	< 10	< 1	0.33	< 10	0.95	3850	24
589855	299	229	1.2	0.76	324	70	< 0.5	2	0.81	< 0.5	17	41	1310	2.78	< 10	< 1	0.30	10	0.36	1085	41
589856	299	229	1.0	0.89	60	220	< 0.5	< 2	0.86	< 0.5	12	41	2040	1.54	< 10	< 1	0.19	10	0.35	290	79
589857	299	229	0.6	0.79	48	230	< 0.5	< 2	0.80	< 0.5	13	52	1845	1.27	< 10	< 1	0.22	20	0.32	270	42
589858	299	229	0.8	1.05	58	190	< 0.5	< 2	0.61	< 0.5	17	65	1800	1.67	< 10	< 1	0.27	20	0.24	235	93
589859	299	229	0.6	1.13	62	240	< 0.5	< 2	0.55	< 0.5	13	65	1670	1.30	< 10	< 1	0.22	20	0.23	195	95
589860	299	229	1.4	1.34	70	180	< 0.5	< 2	1.57	< 0.5	22	71	2510	1.99	< 10	< 1	0.23	30	0.60	375	47
589861	299	229	1.0	1.15	32	270	< 0.5	< 2	1.25	< 0.5	14	66	1775	1.44	< 10	< 1	0.28	20	0.50	250	148
589862	299	229	0.8	1.33	42	310	0.5	< 2	0.82	< 0.5	11	58	1755	1.12	< 10	< 1	0.25	20	0.35	155	45
589863	299	229	0.8	1.08	46	390	< 0.5	< 2	0.59	< 0.5	8	82	1775	0.91	< 10	< 1	0.25	10	0.22	100	85
589864	299	229	0.6	1.27	32	440	< 0.5	< 2	0.92	< 0.5	9	68	1660	1.06	< 10	< 1	0.29	20	0.29	165	35
589865	299	229	0.6	1.19	48	400	0.5	< 2	0.90	< 0.5	8	46	1570	1.13	< 10	< 1	0.26	20	0.29	160	70
589866	299	229	1.2	1.41	78	540	< 0.5	< 2	0.65	< 0.5	8	51	2140	0.92	< 10	< 1	0.25	20	0.28	115	212
589867	299	229	1.0	1.33	48	370	< 0.5	< 2	0.71	< 0.5	9	47	1525	1.17	< 10	< 1	0.28	20	0.29	120	134
589868	299	229	0.8	1.32	28	430	< 0.5	< 2	0.80	< 0.5	6	86	1245	1.08	< 10	< 1	0.30	20	0.31	240	370
589869	299	229	1.2	1.17	36	170	< 0.5	< 2	1.14	< 0.5	8	78	2140	1.56	< 10	< 1	0.29	20	0.38	275	599
589870	299	229	1.2	1.49	28	390	0.5	< 2	1.15	< 0.5	9	67	1895	1.34	< 10	< 1	0.35	20	0.45	245	194
589871	299	229	0.8	0.98	30	190	< 0.5	< 2	1.30	< 0.5	13	79	2140	1.68	< 10	< 1	0.26	30	0.51	290	86
589872	299	229	1.4	1.28	36	160	< 0.5	< 2	1.72	< 0.5	14	92	2470	1.88	< 10	< 1	0.27	20	0.62	315	160

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 222
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :4
Certificate Date: 28-OCT-93
Invoice No. :19323186
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323186

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589833	299	229	< 0.01	4	280	14	4	1	8	< 0.01	< 10	< 10	5	< 10	48
589834	299	229	< 0.01	1	130	6	2	< 1	9	< 0.01	< 10	< 10	2	< 10	20
589835	299	229	< 0.01	2	130	6	4	< 1	9	< 0.01	< 10	< 10	1	< 10	24
589836	299	229	0.01	1	120	< 2	4	< 1	10	< 0.01	< 10	< 10	2	< 10	14
589837	299	229	0.01	3	390	6	< 2	1	13	< 0.01	< 10	< 10	7	< 10	82
589838	299	229	0.01	5	270	6	6	1	11	< 0.01	< 10	< 10	6	< 10	70
589839	299	229	0.01	3	360	2	12	3	10	< 0.01	< 10	< 10	13	< 10	22
589840	299	229	0.01	4	270	6	8	3	16	< 0.01	< 10	< 10	17	< 10	16
589841	299	229	0.01	3	350	2	8	2	11	< 0.01	< 10	< 10	15	< 10	16
589842	299	229	0.01	1	410	< 2	14	4	10	< 0.01	< 10	< 10	21	< 10	22
589843	299	229	0.01	3	260	10	8	1	9	< 0.01	< 10	< 10	9	< 10	30
589844	299	229	< 0.01	1	320	2	8	2	17	< 0.01	< 10	< 10	11	< 10	10
589845	299	229	0.01	4	380	2	10	2	9	< 0.01	< 10	< 10	12	< 10	22
589846	299	229	0.01	5	560	4	10	2	10	< 0.01	< 10	< 10	12	< 10	26
589847	299	229	0.01	4	1070	2	12	11	24	0.06	< 10	< 10	90	< 10	18
589848	299	229	0.01	4	880	< 2	6	9	29	0.02	< 10	< 10	68	< 10	12
589849	299	229	< 0.01	2	490	2	10	4	31	< 0.01	< 10	< 10	30	< 10	8
589850	299	229	0.01	9	690	< 2	6	7	33	0.01	< 10	< 10	46	< 10	18
589851	299	229	< 0.01	9	1030	6	12	6	9	< 0.01	< 10	< 10	32	< 10	18
589852	299	229	< 0.01	5	1100	8	68	4	12	< 0.01	< 10	< 10	27	< 10	30
589853	299	229	< 0.01	4	1430	2	30	11	13	< 0.01	< 10	< 10	53	< 10	16
589854	299	229	0.01	6	180	64	368	1	18	< 0.01	< 10	10	11	10	754
589855	299	229	0.01	3	170	8	48	< 1	13	< 0.01	< 10	< 10	7	< 10	60
589856	299	229	< 0.01	1	220	4	38	1	12	< 0.01	< 10	< 10	4	< 10	12
589857	299	229	< 0.01	1	260	8	40	1	13	< 0.01	< 10	< 10	4	< 10	6
589858	299	229	0.01	3	180	2	52	< 1	13	< 0.01	< 10	< 10	4	< 10	6
589859	299	229	0.01	2	190	4	62	< 1	14	< 0.01	< 10	< 10	4	< 10	6
589860	299	229	0.01	3	440	6	44	6	18	< 0.01	< 10	< 10	21	< 10	14
589861	299	229	0.01	2	340	2	16	3	15	< 0.01	< 10	< 10	14	< 10	6
589862	299	229	< 0.01	3	220	4	16	1	12	< 0.01	< 10	10	5	< 10	6
589863	299	229	0.01	2	160	6	26	< 1	10	< 0.01	< 10	< 10	4	< 10	12
589864	299	229	0.01	3	230	4	12	1	12	< 0.01	< 10	< 10	4	< 10	4
589865	299	229	0.01	3	340	12	14	1	13	< 0.01	< 10	< 10	4	< 10	6
589866	299	229	< 0.01	1	220	4	24	1	12	< 0.01	< 10	< 10	4	< 10	8
589867	299	229	< 0.01	3	260	14	16	1	13	< 0.01	< 10	< 10	4	< 10	10
589868	299	229	< 0.01	1	160	6	24	1	13	< 0.01	< 10	< 10	6	< 10	8
589869	299	229	0.01	2	200	4	22	1	14	< 0.01	< 10	< 10	7	< 10	10
589870	299	229	0.01	2	240	8	16	1	13	< 0.01	< 10	< 10	7	< 10	6
589871	299	229	< 0.01	4	290	4	18	1	16	< 0.01	< 10	< 10	7	< 10	8
589872	299	229	0.01	3	550	< 2	20	6	17	< 0.01	< 10	< 10	23	< 10	8

CERTIFICATION: Stewart Buchan

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 222
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-OCT-93
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CERTIFICATE OF ANALYSIS A9323186

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589873	299	229	1.6	0.74	242	100	< 0.5	< 2	2.64	< 0.5	26	89	2370	3.56	< 10	< 1	0.25	10	1.00	1020	27
589874	299	229	1.6	1.53	66	220	< 0.5	2	2.23	< 0.5	15	79	3680	1.90	< 10	< 1	0.27	20	0.83	375	91
589875	299	229	1.2	0.72	38	250	< 0.5	< 2	1.88	< 0.5	10	111	1835	1.88	< 10	< 1	0.17	30	0.74	255	266
589876	299	229	0.4	1.14	16	490	< 0.5	< 2	1.40	< 0.5	6	108	762	1.27	< 10	< 1	0.26	30	0.55	225	204
589877	299	229	1.8	1.50	52	60	0.5	< 2	0.97	0.5	13	52	166	4.66	10	< 1	0.22	20	0.54	660	23
589878	299	229	0.2	0.63	40	20	< 0.5	< 2	0.99	< 0.5	21	65	116	6.07	< 10	< 1	0.32	< 10	0.45	500	10
589879	299	229	0.4	1.00	28	40	< 0.5	< 2	0.70	< 0.5	30	98	132	4.99	< 10	< 1	0.50	< 10	0.32	455	10
589880	299	229	< 0.2	0.62	24	20	< 0.5	< 2	0.83	< 0.5	16	49	55	6.31	< 10	< 1	0.26	< 10	0.33	240	2
589881	299	229	< 0.2	0.99	22	20	1.0	< 2	0.43	< 0.5	11	45	88	5.26	< 10	< 1	0.41	< 10	0.19	90	3
589882	299	229	< 0.2	0.70	12	20	< 0.5	< 2	0.30	< 0.5	25	102	82	5.84	< 10	< 1	0.34	< 10	0.13	65	4
589883	299	229	< 0.2	0.95	14	20	0.5	< 2	0.11	< 0.5	11	115	16	4.39	< 10	< 1	0.47	< 10	0.08	10	6
589884	299	229	< 0.2	0.56	6	60	0.5	< 2	0.63	< 0.5	12	101	44	4.53	< 10	< 1	0.23	10	0.25	170	2
589885	299	229	< 0.2	0.99	4	60	0.5	< 2	0.95	< 0.5	12	80	73	4.21	< 10	< 1	0.35	10	0.42	210	2
589886	299	229	0.6	0.75	10	70	0.5	< 2	0.90	1.0	11	110	192	3.73	< 10	< 1	0.27	10	0.40	250	1
589887	299	229	< 0.2	1.21	8	70	0.5	< 2	0.98	< 0.5	6	123	124	2.59	< 10	< 1	0.35	< 10	0.49	150	< 1
589888	299	229	< 0.2	0.61	14	100	0.5	< 2	0.76	< 0.5	7	131	108	3.38	< 10	< 1	0.29	10	0.36	160	1
589889	299	229	< 0.2	0.93	8	70	0.5	< 2	0.47	< 0.5	16	102	170	4.13	< 10	< 1	0.45	< 10	0.25	85	3
589890	299	229	< 0.2	0.70	12	50	< 0.5	< 2	0.54	< 0.5	11	147	243	4.03	< 10	< 1	0.33	10	0.26	100	2
589891	299	229	< 0.2	1.18	6	20	0.5	< 2	0.52	< 0.5	21	96	120	5.26	< 10	< 1	0.52	< 10	0.26	115	7
589892	299	229	< 0.2	0.55	< 2	40	< 0.5	< 2	0.82	< 0.5	19	99	63	4.78	< 10	< 1	0.27	< 10	0.38	140	3
589893	299	229	< 0.2	0.87	8	30	0.5	< 2	0.70	< 0.5	14	110	65	4.99	< 10	< 1	0.40	< 10	0.34	110	3
589894	299	229	< 0.2	0.69	4	40	< 0.5	< 2	1.16	< 0.5	11	141	108	3.84	< 10	< 1	0.25	10	0.55	100	2
589895	299	229	0.2	0.79	10	30	1.0	< 2	1.00	< 0.5	17	84	219	4.28	< 10	< 1	0.30	< 10	0.45	145	5
589896	299	229	< 0.2	0.74	10	20	0.5	< 2	0.76	< 0.5	14	71	50	5.31	< 10	< 1	0.29	10	0.36	125	3
589897	299	229	< 0.2	0.87	16	20	0.5	< 2	0.89	< 0.5	11	60	36	5.06	< 10	< 1	0.39	10	0.42	150	4
589898	299	229	0.2	0.71	18	30	1.0	< 2	0.54	< 0.5	16	72	87	4.10	< 10	< 1	0.37	10	0.26	115	2
589899	299	229	< 0.2	0.97	24	20	0.5	< 2	0.92	< 0.5	26	72	83	5.05	< 10	< 1	0.43	10	0.43	155	3
589900	299	229	< 0.2	0.83	2	20	0.5	< 2	1.18	< 0.5	9	53	53	4.90	< 10	< 1	0.35	10	0.54	150	2
589901	299	229	0.4	0.92	12	40	1.0	4	0.93	< 0.5	9	126	186	4.01	< 10	< 1	0.37	10	0.40	155	1
589902	299	229	0.2	0.80	14	70	0.5	< 2	1.29	< 0.5	11	81	75	3.40	< 10	< 1	0.28	10	0.51	265	2
589903	299	229	< 0.2	0.88	12	30	0.5	< 2	1.01	< 0.5	14	101	44	3.25	< 10	< 1	0.32	10	0.40	175	8
589904	299	229	< 0.2	0.90	6	20	0.5	< 2	1.15	< 0.5	24	73	60	4.02	< 10	< 1	0.27	10	0.42	145	4
589905	299	229	< 0.2	0.98	8	50	1.0	< 2	1.93	< 0.5	13	59	68	3.63	< 10	< 1	0.30	10	0.49	160	2
589906	299	229	< 0.2	0.84	12	40	1.0	< 2	1.91	< 0.5	17	61	84	3.74	< 10	< 1	0.20	10	0.42	165	3
589907	299	229	< 0.2	0.97	2	40	0.5	< 2	1.87	< 0.5	18	60	60	3.95	< 10	< 1	0.22	< 10	0.62	210	4
589908	299	229	0.2	0.91	< 2	60	0.5	< 2	1.51	< 0.5	11	53	99	4.18	< 10	< 1	0.22	10	0.55	145	2
589909	299	229	0.2	0.93	< 2	30	1.0	< 2	1.37	1.0	10	77	80	4.67	< 10	< 1	0.29	10	0.54	280	7
589910	299	229	0.8	0.76	24	30	1.0	10	1.28	< 0.5	15	66	90	5.34	< 10	< 1	0.27	< 10	0.53	285	6
589911	299	229	2.4	1.02	14	10	1.5	170	2.05	< 0.5	14	74	112	4.74	< 10	< 1	0.31	10	0.88	330	5
589912	299	229	0.2	0.97	2	50	0.5	< 2	1.60	< 0.5	14	62	149	4.17	< 10	< 1	0.24	10	0.61	230	6

CERTIFICATION: Ian Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 222
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-OCT-93
Invoice No. :I9323186
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CERTIFICATE OF ANALYSIS A9323186

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589873	299	229	0.01	6	510	14	24	4	24	< 0.01	< 10	< 10	21	< 10	30
589874	299	229	0.01	4	420	8	22	8	20	< 0.01	< 10	< 10	33	< 10	20
589875	299	229	< 0.01	3	470	8	14	3	21	< 0.01	< 10	< 10	13	< 10	16
589876	299	229	0.01	3	190	4	6	4	18	< 0.01	< 10	< 10	16	< 10	10
589877	299	229	< 0.01	13	1130	24	10	6	21	< 0.01	< 10	< 10	30	< 10	86
589878	299	229	0.01	4	450	< 2	16	1	12	< 0.01	< 10	< 10	12	< 10	26
589879	299	229	0.01	3	450	< 2	20	1	10	< 0.01	< 10	< 10	12	< 10	14
589880	299	229	0.01	3	560	< 2	10	1	8	< 0.01	< 10	< 10	11	< 10	4
589881	299	229	0.01	4	480	< 2	14	1	6	< 0.01	< 10	< 10	17	10	6
589882	299	229	0.01	5	460	4	12	1	6	< 0.01	< 10	< 10	12	10	8
589883	299	229	0.01	4	300	4	2	1	12	< 0.01	< 10	< 10	10	< 10	2
589884	299	229	0.01	4	480	2	6	1	9	< 0.01	< 10	< 10	9	< 10	6
589885	299	229	0.01	3	500	6	4	2	10	< 0.01	< 10	< 10	15	< 10	6
589886	299	229	0.01	4	460	24	12	2	10	< 0.01	< 10	< 10	14	< 10	128
589887	299	229	0.01	3	180	6	6	1	12	< 0.01	< 10	< 10	9	< 10	6
589888	299	229	0.01	3	280	< 2	10	< 1	9	< 0.01	< 10	< 10	6	< 10	8
589889	299	229	0.01	4	310	4	6	1	7	< 0.01	< 10	< 10	9	< 10	4
589890	299	229	0.01	4	370	< 2	6	2	8	< 0.01	< 10	< 10	12	< 10	8
589891	299	229	0.02	2	460	< 2	8	2	8	< 0.01	< 10	< 10	17	10	8
589892	299	229	0.01	3	500	< 2	6	1	8	< 0.01	< 10	< 10	9	< 10	4
589893	299	229	0.01	2	490	< 2	4	1	9	< 0.01	< 10	< 10	12	10	4
589894	299	229	0.01	5	520	< 2	4	1	11	< 0.01	< 10	< 10	12	< 10	6
589895	299	229	0.01	2	480	< 2	4	1	11	< 0.01	< 10	< 10	13	< 10	16
589896	299	229	0.01	4	470	8	2	1	9	< 0.01	< 10	< 10	11	10	12
589897	299	229	0.01	3	500	4	2	1	11	< 0.01	< 10	< 10	13	10	16
589898	299	229	0.01	3	340	< 2	4	1	13	< 0.01	< 10	< 10	8	< 10	8
589899	299	229	0.01	3	390	4	6	1	16	< 0.01	< 10	< 10	9	10	12
589900	299	229	0.01	3	500	< 2	2	1	17	< 0.01	< 10	< 10	11	10	12
589901	299	229	0.01	3	420	8	4	1	14	< 0.01	< 10	< 10	11	< 10	12
589902	299	229	0.01	3	370	12	12	1	16	< 0.01	< 10	< 10	11	< 10	20
589903	299	229	0.01	2	330	4	6	1	16	< 0.01	< 10	< 10	10	< 10	6
589904	299	229	0.01	3	410	< 2	6	2	16	< 0.01	< 10	< 10	12	10	8
589905	299	229	0.01	4	370	< 2	6	1	20	< 0.01	< 10	< 10	12	< 10	2
589906	299	229	< 0.01	3	450	2	4	2	20	< 0.01	< 10	< 10	13	< 10	6
589907	299	229	0.01	4	490	4	8	3	21	< 0.01	< 10	< 10	17	10	14
589908	299	229	0.01	4	530	8	4	3	17	< 0.01	< 10	< 10	19	< 10	16
589909	299	229	0.01	3	440	12	4	2	15	< 0.01	< 10	< 10	15	10	78
589910	299	229	0.01	3	470	14	10	2	14	< 0.01	< 10	< 10	15	10	22
589911	299	229	0.01	3	470	118	4	3	25	< 0.01	< 10	< 10	18	10	30
589912	299	229	0.01	3	460	24	2	3	18	< 0.01	< 10	< 10	18	10	36

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589913	299	229	< 0.2	1.17	2	50	1.5	< 2	1.68	< 0.5	14	86	43	4.17	< 10	< 1	0.27	< 10	0.75	155	9
589914	299	229	< 0.2	0.80	< 2	50	1.0	< 2	1.23	< 0.5	14	77	80	3.92	< 10	< 1	0.26	< 10	0.54	140	3

CERTIFICATION: _____

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589913	299	229	0.01	5	470	10	4	3	16	< 0.01	< 10	< 10	18	20	6
589914	299	229	0.01	4	420	8	2	2	15	< 0.01	< 10	< 10	14	20	8

CERTIFICATION: Jan H Bucholz

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :5
Certificate Date: 09-NOV-93
Invoice No. :I9324039
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324039

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H588839	208	274	0.52	0.011	0.31	7100
H588840	208	276	0.33	0.030	0.24	8740
H588841	208	276	0.25	0.009	0.17	8780
H588842	208	274	0.16	0.056	0.14	5960
H588843	208	276	0.36	0.008	0.10	9300
H588844	208	276	0.22	0.008	0.17	10500
H588845	208	276	0.20	0.010	0.17	9320
H588846	208	276	0.22	0.023	0.24	8060
H588847	208	276	0.23	0.010	0.21	9900
H588848	208	274	0.29	0.025	0.31	5880
H588849	208	276	0.39	0.042	0.79	8740
H588850	208	276	0.15	0.016	0.17	8120
H588851	208	276	0.20	0.023	0.17	11420
H588852	208	276	0.26	0.020	0.34	9760
H588853	208	274	0.38	0.024	0.45	6460
H588854	208	276	0.29	0.011	0.31	7400
H588855	208	274	0.31	0.026	0.34	6340
H588856	208	276	0.18	0.012	0.27	9320
H588857	208	276	0.15	0.030	0.14	10540
H588858	208	276	0.14	0.019	0.17	11660
H588859	208	276	0.21	0.052	0.24	10220
H588860	208	276	0.25	0.015	0.38	11340
H588861	208	276	0.88	0.047	1.30	11300
H588862	208	276	0.31	0.011	0.45	11780
H588863	208	276	0.97	0.066	1.89	11600
H588864	208	273	0.60	0.035	0.86	14840
H588865	208	276	0.51	0.028	0.69	10800
H588866	208	273	0.45	0.043	0.65	13280
H588867	208	273	0.17	0.022	0.34	13100
H588868	208	273	0.46	0.051	0.51	13560
H588869	208	276	0.40	0.105	0.55	10540
H588870	208	273	0.54	0.186	0.72	13880
H588871	208	273	0.26	0.036	0.45	13460
H588872	208	273	0.73	0.053	0.75	12560
H588873	208	276	0.69	0.194	1.30	10540
H588874	208	276	0.69	0.107	0.79	11720
H588875	208	273	0.08	0.018	0.17	11960
H588876	208	273	0.34	0.032	0.79	12140
H588877	208	273	0.58	0.040	0.72	11840
H588878	208	273	0.22	0.030	0.31	12200

CERTIFICATION: Brad Grant

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :I9324039
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324039

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H588879	208 276	0.19	0.033	0.21	10700
H588880	208 276	0.17	0.126	0.38	11080
H588881	208 276	0.24	0.046	0.34	10960
H588882	208 273	0.21	0.023	0.21	12120
H588883	208 276	0.18	0.089	0.14	9840
H588884	208 273	0.23	0.110	0.24	12860
H588885	208 273	0.14	0.031	0.21	12800
H588886	208 276	0.15	0.013	0.14	9140
H588887	208 276	0.08	0.011	0.10	10220
H588888	208 273	0.08	0.004	0.07	12480
H588889	208 273	0.23	0.036	0.31	13660
H588890	208 273	0.15	0.048	0.31	13380
H588891	208 273	0.12	0.035	0.17	13100
H588892	208 273	0.11	0.033	0.14	12820
H588893	208 273	0.29	0.059	0.27	12980
H588894	208 273	0.12	0.136	0.14	12000
H588895	208 276	0.28	0.052	0.41	10500
H588896	208 273	0.14	0.060	0.21	12400
H588897	208 273	0.18	0.049	0.27	12380
H588898	208 273	0.03	0.028	0.07	11920
H588899	208 273	0.04	0.014	0.07	12040
H588900	208 273	0.07	0.275	0.14	12720
H588901	208 276	0.05	0.242	0.07	11660
H588902	208 273	0.07	0.130	0.10	12420
H588903	208 273	0.08	0.050	0.10	12640
H588904	208 273	0.05	0.056	0.17	13920
H588905	208 273	0.10	0.067	0.10	12160
H588906	208 273	0.09	0.085	0.31	12260
H588907	208 276	0.19	0.114	0.24	10440
H588908	208 273	0.17	0.056	0.27	12580
H588909	208 273	0.10	0.075	0.14	12140
H588910	208 273	0.09	0.065	0.10	12180
H588911	208 273	0.05	0.034	0.07	12860
H588912	208 276	0.09	0.081	0.14	9020
H588913	208 276	0.32	0.068	0.34	11780
H588914	208 273	0.14	0.019	0.14	13160
H588915	208 274	0.05	0.048	0.10	6160
H588916	208 273	0.05	0.082	0.07	12620
H588917	208 273	0.05	0.074	0.07	12700
H588918	208 273	0.07	0.045	0.10	13600

CERTIFICATION:

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :19324039
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324039

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588919	208	276	0.10	0.051	0.34	10320						
H588920	208	273	0.05	0.016	0.10	12240						
H588921	208	274	0.20	0.039	0.27	5880						
H588922	208	276	0.10	0.062	0.17	10020						
H588923	208	276	0.16	0.018	0.24	10960						
H588924	208	274	0.18	0.012	0.24	6520						
H588925	208	273	0.14	0.020	0.17	12400						
H588926	208	274	0.09	0.003	0.14	6860						
H588927	208	273	0.09	0.095	0.21	13060						
H588928	208	273	0.26	0.024	0.38	12300						
H588929	208	273	0.14	0.021	0.34	12900						
H588930	208	273	0.18	0.033	0.21	12140						
H588931	208	273	0.15	0.037	0.21	12620						
H588932	208	273	0.11	0.150	0.17	12120						
H588933	208	273	0.17	0.023	0.24	12200						
H588934	208	273	0.21	0.040	0.27	13680						
H588935	208	273	0.24	0.063	0.38	12380						
H588936	208	273	0.24	0.034	0.51	12280						
H588937	208	276	0.18	0.121	0.27	8980						
H588938	208	273	0.10	0.089	0.14	12420						
H588939	208	273	0.11	0.040	0.17	11940						
H588940	208	276	0.07	0.044	0.10	11780						
H588941	208	273	0.19	0.052	0.27	12860						
H588942	208	273	0.20	0.053	0.31	13660						
H588943	208	273	0.08	0.007	0.17	12740						
H588944	208	273	0.14	0.017	0.27	13260						
H588945	208	273	0.13	0.016	0.24	13600						
H588946	208	273	0.13	0.024	0.21	13060						
H588947	208	273	0.13	0.030	0.17	14980						
H588948	208	273	0.08	0.016	0.21	11940						
H588949	208	273	0.06	0.016	0.10	13140						
H588950	208	273	0.06	0.013	0.07	12340						
H588951	208	273	0.15	0.047	0.21	12660						
H588952	208	273	0.13	0.009	0.21	12400						
H588953	208	273	0.12	0.012	0.17	13000						
H588954	208	273	0.11	0.007	0.24	14080						
H588955	208	273	0.08	0.039	0.10	12800						
H588956	208	273	0.06	0.043	0.10	13420						
H588957	208	273	0.08	0.040	0.14	14180						
H588958	208	273	0.12	0.044	0.14	12520						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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Page Number :4
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Certificate Date: 09-NOV-93
Invoice No. :I9324039
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CERTIFICATE OF ANALYSIS A9324039

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H588959	208 273	0.39	0.025	0.51	13540
H588960	208 273	0.05	0.060	0.10	12320
H588961	208 273	0.09	0.036	0.07	12380
H588962	208 273	0.15	0.021	0.17	13440
H588963	208 273	0.16	0.020	0.48	12000
H588964	208 273	0.09	0.072	0.17	12020
H588965	208 273	0.08	0.069	0.14	12900
H588966	208 273	0.05	0.055	0.10	12160
H588967	208 276	0.09	0.220	0.14	11420
H588968	208 276	0.07	0.037	0.10	11020
H588969	208 273	0.17	0.052	0.24	12160
H588970	208 273	0.09	0.086	0.17	11920
H588971	208 276	0.05	0.102	0.10	10780
H588972	208 273	0.12	0.057	0.24	11880
H588973	208 276	0.08	0.041	0.31	11700
H588974	208 273	0.11	0.055	0.17	12640
H588975	208 276	0.06	0.066	0.10	11200
H588976	208 273	0.07	0.053	0.10	12340
H588977	208 273	0.09	0.149	0.14	12840
H588978	208 273	0.05	0.144	0.07	12360
H588979	208 273	0.05	0.082	0.10	12100
H588980	208 273	0.05	0.165	0.07	12200
H588981	208 273	0.14	0.084	0.17	12620
H588982	208 273	0.09	0.123	0.21	12500
H588983	208 273	0.09	0.115	0.17	12780
H588984	208 273	0.09	0.136	0.14	12820
H588985	208 273	0.10	0.036	0.21	12080
H588986	208 273	0.07	0.086	0.14	13340
H588987	208 273	0.06	0.046	0.10	13280
H588988	208 276	0.09	0.065	0.07	11160
H588989	208 273	0.09	0.080	0.07	12780
H588990	208 273	0.13	0.125	0.10	13040
H588991	208 276	0.13	0.054	0.10	11380
H588992	208 276	0.06	0.063	0.03	10220
H588993	208 273	0.10	0.052	0.03	11980
H588994	208 276	0.12	0.153	0.31	11440
H588995	208 276	0.16	0.117	0.27	11220
H588996	208 273	0.09	0.091	0.14	12120
H588997	208 273	0.04	0.209	< 0.03	15660
H588998	208 273	0.07	0.089	0.10	13000

CERTIFICATION: _____

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. : I9324039
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324039

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588999	208	276	0.08	0.074	0.10	11640						
H589000	208	276	0.08	0.048	0.10	11800						
H941501	208	276	0.07	0.130	0.07	11220						
H941502	208	273	0.09	0.033	0.07	12780						
H941503	208	276	0.07	0.030	0.07	11480						
H941504	208	273	0.04	0.007	0.03	12320						
H941505	208	273	0.03	0.011	< 0.03	13600						
H941506	208	273	0.04	0.011	< 0.03	12040						
H941507	208	273	0.04	0.035	< 0.03	12160						
H941508	208	273	0.05	0.012	< 0.03	12680						
H941509	208	273	0.04	0.020	< 0.03	13300						
H941510	208	276	0.05	0.024	< 0.03	11760						
H941511	208	273	0.05	0.022	0.03	12620						
H941512	208	273	0.05	0.083	0.07	12000						
H941513	208	273	0.04	0.021	0.03	13660						
H941514	208	273	0.05	0.032	0.07	13900						
H941515	208	273	0.03	0.022	< 0.03	13600						
H941516	208	273	0.02	0.041	< 0.03	12680						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

CERTIFICATE OF ANALYSIS A9324040

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588839	299	229	1.2	4.01	18	260	< 0.5	< 2	0.63	0.5	17	50	5190	4.33	10	< 1	1.16	20	2.22	140	65
H588840	299	229	1.2	1.84	24	180	< 0.5	< 2	0.53	0.5	14	125	3450	2.51	< 10	< 1	0.45	10	0.60	105	181
H588841	299	229	1.2	4.16	< 2	220	< 0.5	< 2	2.03	4.0	23	78	2480	4.43	10	< 1	1.26	20	2.03	260	45
H588842	299	229	0.8	3.95	26	570	< 0.5	< 2	3.66	1.0	16	65	1590	3.66	10	< 1	1.69	30	2.02	395	317
H588843	299	229	0.8	1.99	18	190	< 0.5	< 2	0.47	2.5	12	176	3710	2.00	10	< 1	0.58	40	0.42	70	52
H588844	299	229	0.6	4.25	16	310	< 0.5	< 2	1.45	4.0	27	39	2180	4.78	10	< 1	1.70	20	2.24	240	45
H588845	299	229	0.8	3.16	24	210	< 0.5	< 2	0.79	4.0	16	79	2100	3.89	10	< 1	1.22	20	1.44	150	59
H588846	299	229	0.8	3.72	180	220	< 0.5	< 2	0.66	6.0	24	60	2170	4.59	10	< 1	1.27	30	1.79	160	136
H588847	299	229	1.8	3.12	34	170	< 0.5	< 2	3.50	3.0	30	49	2290	4.42	10	< 1	1.16	20	1.46	650	53
H588848	299	229	2.8	1.84	110	100	< 0.5	< 2	1.81	3.0	21	71	3030	2.86	< 10	< 1	0.72	20	0.64	510	155
H588849	299	229	2.4	3.62	1385	80	< 0.5	< 2	3.41	3.0	20	40	3880	4.71	< 10	< 1	1.69	10	2.09	845	233
H588850	299	229	0.6	6.18	10	810	< 0.5	< 2	2.36	0.5	22	24	1495	5.21	10	< 1	2.37	10	3.94	385	79
H588851	299	229	1.4	4.08	20	360	< 0.5	6	2.30	< 0.5	16	70	2030	3.94	< 10	< 1	1.34	10	2.24	300	124
H588852	299	229	1.8	4.13	8	290	< 0.5	6	2.82	< 0.5	16	60	2620	3.48	< 10	< 1	1.73	10	2.15	360	109
H588853	299	229	2.6	3.86	26	100	< 0.5	< 2	2.98	< 0.5	16	67	3620	4.87	10	< 1	1.84	20	2.43	315	127
H588854	299	229	1.6	4.00	24	260	< 0.5	< 2	1.77	< 0.5	24	61	2810	3.90	10	< 1	1.58	10	2.44	220	58
H588855	299	229	1.8	2.16	18	230	< 0.5	< 2	1.43	< 0.5	12	157	3020	2.14	< 10	< 1	0.91	20	1.12	145	150
H588856	299	229	1.2	3.44	2	260	< 0.5	< 2	4.03	0.5	11	55	1810	2.96	< 10	< 1	1.15	10	1.54	395	66
H588857	299	229	1.0	0.89	12	100	< 0.5	4	1.98	< 0.5	8	301	1550	2.12	< 10	< 1	0.41	10	0.17	140	182
H588858	299	229	0.8	2.08	20	260	< 0.5	< 2	2.34	< 0.5	9	332	1385	2.38	< 10	< 1	0.83	20	1.14	195	112
H588859	299	229	1.4	2.86	14	90	< 0.5	< 2	2.00	< 0.5	13	155	2050	3.22	< 10	< 1	1.02	30	1.24	250	298
H588860	299	229	1.2	4.04	8	450	< 0.5	< 2	3.67	< 0.5	13	52	2450	3.42	< 10	< 1	1.11	20	2.24	415	81
H588861	299	229	5.6	3.13	14	140	< 0.5	< 2	3.02	0.5	12	90	8690	2.96	10	< 1	0.99	40	1.76	280	276
H588862	299	229	1.6	4.18	30	280	< 0.5	< 2	2.43	< 0.5	12	65	3120	3.76	10	< 1	1.47	20	2.59	265	64
H588863	299	229	3.0	3.18	24	210	< 0.5	< 2	1.54	< 0.5	8	119	9550	2.42	10	< 1	0.67	40	1.61	155	387
H588864	299	229	2.0	5.03	20	280	< 0.5	< 2	1.79	0.5	14	85	5850	3.82	10	< 1	1.48	20	2.86	205	198
H588865	299	229	1.6	2.98	20	420	< 0.5	< 2	1.36	< 0.5	7	157	5030	1.77	10	< 1	0.70	40	1.43	130	169
H588866	299	229	1.6	3.51	18	450	< 0.5	< 2	2.77	< 0.5	11	85	4570	2.47	10	< 1	1.12	30	1.71	260	258
H588867	299	229	2.2	1.27	314	60	< 0.5	< 2	2.24	1.0	14	145	1785	3.31	< 10	< 1	0.61	10	0.85	2360	129
H588868	299	229	2.0	2.81	14	280	< 0.5	< 2	2.97	< 0.5	10	71	4500	2.49	< 10	< 1	0.85	30	1.44	265	303
H588869	299	229	2.0	4.03	12	470	< 0.5	< 2	2.34	< 0.5	13	70	3910	3.50	10	< 1	1.36	30	2.48	250	577
H588870	299	229	2.2	2.71	26	360	< 0.5	< 2	2.64	< 0.5	8	131	5280	2.06	10	< 1	0.77	30	1.42	185	1035
H588871	299	229	1.2	3.16	4	430	< 0.5	< 2	2.76	0.5	9	86	2640	2.68	< 10	< 1	0.97	20	1.75	230	209
H588872	299	229	2.8	2.49	20	190	< 0.5	8	1.97	< 0.5	12	91	7030	2.59	10	< 1	0.52	30	0.98	205	312
H588873	299	229	2.8	1.87	8	160	< 0.5	< 2	1.87	< 0.5	11	82	6800	2.35	10	< 1	0.47	40	0.89	375	1100
H588874	299	229	4.4	1.69	144	90	< 0.5	< 2	1.81	< 0.5	13	121	7000	2.92	< 10	< 1	0.44	20	0.68	675	647
H588875	299	229	0.8	1.40	72	560	< 0.5	< 2	1.30	< 0.5	21	113	845	5.96	10	< 1	0.08	60	0.68	1475	101
H588876	299	229	5.0	1.18	302	110	< 0.5	< 2	1.88	1.0	7	254	3420	2.35	< 10	< 1	0.38	10	0.75	995	195
H588877	299	229	5.6	0.87	960	70	< 0.5	< 2	1.92	3.0	8	173	5720	2.30	< 10	< 1	0.34	20	0.73	2380	229
H588878	299	229	1.8	3.02	204	70	< 0.5	6	2.24	0.5	16	246	2150	4.47	< 10	< 1	0.87	10	1.76	925	159

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages : 5
Certificate Date: 09-NOV-93
Invoice No. : I9324040
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Account : FC

CERTIFICATE OF ANALYSIS A9324040

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588839	299	229	0.02	8	1230	8	< 2	15	26	0.08	< 10	< 10	133	20	86
H588840	299	229	0.02	8	650	12	4	4	21	0.01	< 10	< 10	43	10	76
H588841	299	229	0.02	9	1210	12	2	15	37	0.11	< 10	< 10	123	20	118
H588842	299	229	0.02	8	1310	8	6	19	52	0.18	< 10	< 10	151	20	100
H588843	299	229	0.01	7	610	8	4	7	19	0.02	< 10	< 10	52	10	64
H588844	299	229	0.03	9	1430	4	2	21	34	0.21	< 10	< 10	158	20	126
H588845	299	229	0.03	9	1040	6	4	13	26	0.14	< 10	< 10	107	10	116
H588846	299	229	0.04	9	1350	14	2	16	25	0.14	< 10	< 10	130	20	138
H588847	299	229	0.02	10	1590	8	< 2	17	42	0.09	< 10	< 10	109	20	80
H588848	299	229	0.01	9	1280	8	6	11	24	0.03	< 10	< 10	70	10	86
H588849	299	229	0.02	13	1560	12	14	24	46	0.16	< 10	< 10	156	30	60
H588850	299	229	0.05	7	1500	12	< 2	28	60	0.25	< 10	< 10	224	30	32
H588851	299	229	0.04	7	930	8	4	16	41	0.15	< 10	< 10	133	20	28
H588852	299	229	0.03	6	1050	4	2	17	51	0.17	< 10	< 10	134	20	32
H588853	299	229	0.05	11	1030	10	< 2	23	40	0.19	< 10	< 10	156	30	38
H588854	299	229	0.08	9	1090	4	2	21	41	0.19	< 10	10	171	20	38
H588855	299	229	0.06	6	630	4	2	9	33	0.08	< 10	< 10	78	10	22
H588856	299	229	0.02	8	980	< 2	4	15	56	0.09	< 10	< 10	124	20	38
H588857	299	229	0.01	17	580	12	< 2	2	28	< 0.01	< 10	< 10	35	10	18
H588858	299	229	0.03	42	550	4	2	8	41	0.06	< 10	< 10	64	10	26
H588859	299	229	0.05	14	700	8	2	11	39	0.09	< 10	< 10	78	10	32
H588860	299	229	0.05	7	1200	6	4	16	79	0.14	< 10	10	128	20	28
H588861	299	229	0.03	11	940	6	2	11	60	0.07	< 10	20	87	30	40
H588862	299	229	0.12	9	1340	8	2	18	83	0.17	< 10	< 10	147	20	34
H588863	299	229	0.03	9	790	8	2	9	108	0.03	< 10	20	75	30	26
H588864	299	229	0.04	12	1210	4	< 2	20	148	0.16	< 10	< 10	158	30	34
H588865	299	229	0.03	8	550	2	2	9	126	0.06	< 10	30	71	10	22
H588866	299	229	0.02	9	960	2	4	15	89	0.11	< 10	10	115	20	24
H588867	299	229	0.01	6	430	14	66	4	38	0.01	< 10	30	30	10	92
H588868	299	229	0.02	4	930	< 2	4	12	86	0.07	< 10	< 10	89	20	36
H588869	299	229	0.03	9	1170	4	4	18	90	0.14	< 10	10	147	20	50
H588870	299	229	0.03	9	660	2	12	12	84	0.06	< 10	30	78	20	32
H588871	299	229	0.03	7	980	6	4	14	74	0.09	< 10	20	103	10	50
H588872	299	229	0.02	7	1010	8	6	9	71	0.02	< 10	< 10	68	20	24
H588873	299	229	0.01	11	1390	< 2	22	16	29	0.02	< 10	< 10	83	20	28
H588874	299	229	0.01	10	1080	8	90	9	27	< 0.01	< 10	< 10	50	20	48
H588875	299	229	0.01	46	2800	16	16	11	60	< 0.01	< 10	< 10	61	20	104
H588876	299	229	0.01	15	460	6	54	4	27	< 0.01	< 10	< 10	35	10	64
H588877	299	229	0.01	11	280	6	120	3	30	< 0.01	< 10	10	17	10	98
H588878	299	229	0.03	29	380	6	14	15	80	0.08	< 10	< 10	103	20	42

CERTIFICATION:_____

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Page Number :2-A
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CERTIFICATE OF ANALYSIS A9324040

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588879	299	229	1.2	3.17	48	550	< 0.5	2	2.23	< 0.5	16	142	1915	3.35	< 10	< 1	0.98	20	1.86	330	199
H588880	299	229	5.8	0.97	508	60	< 0.5	< 2	2.35	1.5	6	92	1665	1.87	< 10	< 1	0.26	20	1.02	855	709
H588881	299	229	1.4	3.38	196	210	< 0.5	< 2	3.35	< 0.5	10	62	2350	3.45	10	< 1	1.04	20	1.80	630	274
H588882	299	229	0.8	4.68	12	660	< 0.5	2	2.45	< 0.5	13	49	2050	3.81	< 10	< 1	1.79	10	3.13	270	133
H588883	299	229	1.0	3.85	6	340	< 0.5	< 2	2.18	< 0.5	8	178	1750	2.51	< 10	< 1	1.48	20	2.79	225	529
H588884	299	229	1.4	2.29	14	120	< 0.5	< 2	1.76	< 0.5	7	72	2280	1.58	< 10	< 1	0.74	20	1.52	130	691
H588885	299	229	0.8	2.94	18	170	< 0.5	2	1.44	< 0.5	11	173	1325	2.87	< 10	< 1	0.89	10	2.57	235	184
H588886	299	229	0.6	2.96	22	330	< 0.5	< 2	0.94	< 0.5	15	132	1445	3.87	< 10	< 1	1.51	10	2.78	215	69
H588887	299	229	0.6	2.50	10	350	< 0.5	< 2	1.47	< 0.5	11	305	802	3.30	< 10	< 1	1.71	10	2.70	250	53
H588888	299	229	0.6	2.53	2	270	< 0.5	< 2	1.89	0.5	15	297	792	3.26	< 10	< 1	1.12	10	2.62	265	22
H588889	299	229	1.2	2.09	6	140	< 0.5	< 2	2.12	< 0.5	9	92	2230	2.24	< 10	< 1	0.82	10	1.67	140	213
H588890	299	229	0.6	2.60	< 2	150	< 0.5	< 2	2.08	< 0.5	9	151	1375	2.15	< 10	< 1	1.09	10	2.19	145	280
H588891	299	229	0.2	2.67	12	140	< 0.5	< 2	2.87	< 0.5	9	83	1115	2.76	< 10	< 1	1.35	10	2.18	140	193
H588892	299	229	0.8	3.57	14	130	< 0.5	2	3.47	< 0.5	11	59	1105	3.59	< 10	< 1	1.53	20	2.59	215	201
H588893	299	229	3.0	2.40	16	160	< 0.5	< 2	3.09	< 0.5	10	95	2750	2.82	< 10	< 1	1.07	20	1.43	195	356
H588894	299	229	1.4	2.07	12	290	< 0.5	< 2	3.19	< 0.5	7	95	1095	2.08	< 10	< 1	0.91	30	1.29	210	773
H588895	299	229	4.0	2.51	16	150	< 0.5	24	4.76	< 0.5	13	73	2630	3.60	< 10	< 1	0.97	20	1.36	290	293
H588896	299	229	1.0	2.24	2	260	< 0.5	< 2	2.59	< 0.5	6	99	1345	1.86	< 10	< 1	0.88	30	1.38	190	369
H588897	299	229	1.2	2.16	26	460	< 0.5	< 2	2.75	< 0.5	11	69	1760	2.55	10	< 1	0.92	30	1.24	245	319
H588898	299	229	0.6	2.32	16	390	< 0.5	< 2	5.12	< 0.5	13	72	261	3.16	10	< 1	0.51	40	0.81	535	165
H588899	299	229	0.4	1.67	18	370	< 0.5	4	3.53	< 0.5	9	77	407	2.23	< 10	< 1	0.43	30	0.67	385	87
H588900	299	229	1.6	1.38	18	150	< 0.5	2	2.77	< 0.5	2	235	676	2.14	10	< 1	0.42	50	0.47	155	1585
H588901	299	229	1.0	1.08	6	100	< 0.5	2	2.61	< 0.5	2	168	520	0.74	< 10	< 1	0.28	20	0.39	90	1475
H588902	299	229	0.4	1.72	6	170	< 0.5	< 2	2.65	< 0.5	6	243	704	1.33	< 10	< 1	0.65	30	0.86	90	763
H588903	299	229	0.8	1.40	16	140	< 0.5	< 2	2.39	< 0.5	3	183	772	1.11	< 10	< 1	0.51	30	0.71	95	314
H588904	299	229	0.6	1.72	2	180	< 0.5	2	1.68	< 0.5	4	196	551	1.44	< 10	< 1	0.63	20	1.05	105	349
H588905	299	229	0.6	2.20	< 2	450	< 0.5	< 2	1.71	0.5	7	120	940	1.56	< 10	< 1	0.75	20	1.19	140	408
H588906	299	229	1.2	2.35	< 2	320	< 0.5	< 2	2.13	< 0.5	5	148	937	1.65	< 10	< 1	0.63	30	0.90	165	540
H588907	299	229	1.0	2.99	24	300	< 0.5	< 2	1.65	< 0.5	13	47	2020	2.79	10	< 1	0.44	30	0.77	230	719
H588908	299	229	0.8	2.20	74	70	< 0.5	< 2	0.99	< 0.5	17	50	1805	4.70	10	< 1	0.13	30	0.49	670	354
H588909	299	229	0.4	3.38	12	1020	< 0.5	< 2	1.58	< 0.5	15	50	994	3.88	< 10	< 1	1.30	20	1.86	215	442
H588910	299	229	0.4	2.40	< 2	420	< 0.5	< 2	1.94	0.5	6	94	845	1.67	< 10	< 1	0.66	20	1.14	130	389
H588911	299	229	0.2	3.06	12	380	< 0.5	< 2	3.03	< 0.5	10	61	490	2.81	< 10	< 1	1.21	10	1.98	170	196
H588912	299	229	0.6	3.29	6	240	< 0.5	6	2.85	< 0.5	14	84	863	3.47	< 10	< 1	1.36	10	2.13	180	475
H588913	299	229	1.6	3.56	14	100	< 0.5	6	2.67	< 0.5	18	38	2980	3.86	< 10	< 1	1.37	10	2.39	205	381
H588914	299	229	0.6	3.17	4	270	< 0.5	2	2.38	< 0.5	13	67	1315	3.40	< 10	< 1	1.23	10	2.22	265	108
H588915	299	229	0.6	3.05	6	170	< 0.5	< 2	2.19	< 0.5	9	96	493	4.16	< 10	< 1	1.23	10	2.08	320	283
H588916	299	229	0.4	1.38	< 2	130	< 0.5	< 2	1.98	< 0.5	4	158	476	1.32	< 10	< 1	0.49	20	0.92	115	501
H588917	299	229	0.4	1.56	8	180	< 0.5	< 2	2.31	< 0.5	3	165	453	1.06	< 10	< 1	0.42	20	0.85	95	458
H588918	299	229	0.4	3.07	10	200	< 0.5	< 2	2.47	< 0.5	13	107	694	4.01	< 10	< 1	1.49	10	2.24	225	266

CERTIFICATION:

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

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Certificate Date: 09-NOV-93
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CERTIFICATE OF ANALYSIS A9324040

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H588879	299	229	0.02	44	810	< 2	6	17	77	0.12	< 10	< 10	108	20	40
H588880	299	229	0.01	16	540	6	86	8	24	< 0.01	< 10	< 10	51	< 10	74
H588881	299	229	0.02	8	1030	2	10	14	1015	0.12	< 10	< 10	111	20	38
H588882	299	229	0.10	8	1420	4	< 2	19	369	0.24	< 10	< 10	178	20	42
H588883	299	229	0.06	24	750	6	6	14	116	0.20	< 10	< 10	123	10	26
H588884	299	229	0.03	6	550	6	4	9	73	0.06	< 10	< 10	81	10	14
H588885	299	229	0.05	29	770	< 2	4	13	66	0.12	< 10	< 10	140	10	32
H588886	299	229	0.07	21	1480	2	< 2	17	58	0.26	< 10	< 10	185	10	32
H588887	299	229	0.07	26	1380	< 2	6	16	55	0.26	< 10	< 10	146	10	40
H588888	299	229	0.05	31	1260	6	< 2	11	77	0.17	< 10	< 10	113	10	36
H588889	299	229	0.06	10	870	2	< 2	11	77	0.14	< 10	< 10	117	10	20
H588890	299	229	0.04	14	600	2	4	13	104	0.12	< 10	< 10	102	10	24
H588891	299	229	0.10	7	980	6	6	16	105	0.24	< 10	< 10	137	10	28
H588892	299	229	0.15	8	1250	< 2	6	18	173	0.24	< 10	< 10	155	20	58
H588893	299	229	0.07	5	1320	6	2	14	233	0.13	< 10	< 10	109	10	38
H588894	299	229	0.04	4	690	14	10	14	165	0.11	< 10	< 10	96	10	40
H588895	299	229	0.06	7	1030	6	2	14	1060	0.13	< 10	< 10	102	20	52
H588896	299	229	0.03	5	900	6	2	14	120	0.11	< 10	< 10	89	10	28
H588897	299	229	0.04	10	1270	6	8	14	781	0.11	< 10	< 10	90	10	38
H588898	299	229	0.03	23	2160	14	2	9	214	0.02	< 10	< 10	40	10	78
H588899	299	229	0.03	15	1410	8	6	7	176	0.02	< 10	< 10	32	< 10	52
H588900	299	229	0.03	1	350	18	14	3	106	< 0.01	< 10	< 10	25	10	32
H588901	299	229	0.04	< 1	190	26	14	2	186	< 0.01	< 10	< 10	20	< 10	40
H588902	299	229	0.08	4	400	14	4	10	149	0.09	< 10	< 10	62	< 10	26
H588903	299	229	0.06	4	410	14	2	7	120	0.06	< 10	< 10	45	< 10	34
H588904	299	229	0.09	3	380	12	2	9	93	0.09	< 10	< 10	60	< 10	32
H588905	299	229	0.06	3	460	6	2	11	149	0.10	< 10	< 10	76	< 10	44
H588906	299	229	0.04	3	530	16	4	9	95	0.06	< 10	< 10	59	< 10	44
H588907	299	229	0.01	2	1580	14	8	18	41	0.05	< 10	< 10	106	10	36
H588908	299	229	0.01	3	1620	8	6	24	27	< 0.01	< 10	< 10	120	10	48
H588909	299	229	0.03	1	1230	8	< 2	20	88	0.21	< 10	< 10	150	10	36
H588910	299	229	0.03	1	570	6	4	10	91	0.08	< 10	< 10	68	< 10	22
H588911	299	229	0.06	2	940	14	< 2	14	140	0.18	< 10	< 10	115	10	30
H588912	299	229	0.09	1	1170	16	4	17	149	0.21	< 10	< 10	138	20	34
H588913	299	229	0.05	1	1220	10	4	17	116	0.19	< 10	< 10	146	20	54
H588914	299	229	0.09	3	1210	16	4	16	120	0.23	< 10	< 10	139	20	70
H588915	299	229	0.07	2	1210	16	2	15	89	0.19	< 10	< 10	134	10	70
H588916	299	229	0.06	3	380	20	4	7	78	0.06	< 10	< 10	56	< 10	38
H588917	299	229	0.05	3	340	14	4	5	101	0.04	< 10	< 10	46	< 10	30
H588918	299	229	0.17	4	1230	14	4	17	123	0.29	< 10	< 10	163	10	50

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H588919	299	229	0.4	2.55	24	110	< 0.5	< 2	2.38	< 0.5	11	92	1035	3.32	10	1	1.43	< 10	1.92	200	264
H588920	299	229	0.8	2.80	36	120	0.5	< 2	2.04	< 0.5	10	126	515	3.63	10	1	1.38	< 10	2.01	215	96
H588921	299	229	1.8	2.93	30	100	< 0.5	< 2	2.09	< 0.5	13	80	2180	3.65	10	1	1.55	< 10	2.08	195	230
H588922	299	229	2.4	2.72	34	100	2.0	< 2	3.25	< 0.5	9	79	1095	3.04	10	2	1.24	< 10	1.84	190	351
H588923	299	229	0.4	2.96	24	280	< 0.5	< 2	2.24	< 0.5	11	55	1630	2.99	10	< 1	1.28	10	1.62	155	107
H588924	299	229	0.4	2.93	22	150	< 0.5	< 2	1.72	< 0.5	9	80	1935	3.54	20	< 1	1.45	< 10	2.01	150	71
H588925	299	229	0.6	2.98	20	140	< 0.5	< 2	2.26	< 0.5	11	60	1560	4.56	10	< 1	1.68	< 10	2.18	210	120
H588926	299	229	0.8	2.02	< 2	440	0.5	< 2	1.45	< 0.5	8	120	926	3.91	10	< 1	1.06	10	1.60	160	16
H588927	299	229	0.6	2.85	22	380	< 0.5	14	3.11	< 0.5	9	56	998	3.63	10	1	1.48	< 10	2.04	205	537
H588928	299	229	0.8	2.24	22	550	< 0.5	< 2	3.31	< 0.5	11	16	2870	3.17	10	1	1.18	< 10	1.54	225	141
H588929	299	229	2.4	1.31	26	40	< 0.5	6	1.89	0.5	5	97	1510	3.70	10	< 1	0.56	10	0.72	155	122
H588930	299	229	2.2	1.94	38	110	< 0.5	< 2	2.02	4.5	7	29	1900	1.88	10	1	0.70	10	1.29	165	223
H588931	299	229	0.8	1.84	18	180	< 0.5	< 2	1.84	0.5	6	94	1555	1.43	10	< 1	0.67	20	1.01	125	212
H588932	299	229	1.8	1.41	32	100	< 0.5	4	1.96	2.5	3	147	1205	0.99	10	< 1	0.37	20	0.64	175	911
H588933	299	229	0.6	1.88	32	30	< 0.5	2	2.35	< 0.5	7	104	1775	2.07	10	< 1	0.13	10	0.73	270	134
H588934	299	229	0.8	1.84	46	540	< 0.5	2	2.58	0.5	6	163	2160	1.88	10	< 1	0.50	10	1.11	280	233
H588935	299	229	1.2	1.86	18	400	< 0.5	2	1.97	0.5	6	101	2570	1.63	10	< 1	0.64	20	0.93	175	379
H588936	299	229	0.4	2.11	16	130	< 0.5	< 2	2.60	< 0.5	8	63	2580	2.38	10	< 1	1.20	10	1.46	150	207
H588937	299	229	1.0	1.30	24	450	0.5	4	1.98	0.5	3	183	1960	1.10	10	< 1	0.42	30	0.67	165	764
H588938	299	229	1.8	0.50	16	50	0.5	2	1.45	0.5	4	161	1115	1.09	< 10	< 1	0.16	20	0.44	155	574
H588939	299	229	0.8	0.99	12	60	< 0.5	< 2	1.54	< 0.5	3	174	1130	1.01	< 10	< 1	0.18	30	0.56	145	239
H588940	299	229	0.6	0.37	6	20	< 0.5	< 2	1.03	< 0.5	3	131	699	0.78	< 10	< 1	0.08	20	0.38	95	266
H588941	299	229	1.2	1.88	8	150	< 0.5	< 2	0.99	0.5	7	129	2010	1.85	< 10	< 1	0.55	30	1.00	120	312
H588942	299	229	1.2	2.49	6	320	< 0.5	< 2	2.01	< 0.5	10	125	1965	2.99	< 10	< 1	1.46	10	1.90	175	289
H588943	299	229	0.4	1.99	8	380	< 0.5	< 2	1.52	< 0.5	8	113	830	3.10	< 10	< 1	0.91	10	1.38	110	43
H588944	299	229	0.8	2.13	14	350	< 0.5	< 2	1.76	0.5	9	156	1345	2.55	< 10	< 1	0.87	20	1.34	115	102
H588945	299	229	0.6	2.25	12	360	< 0.5	< 2	2.05	0.5	8	121	1360	2.64	< 10	< 1	0.85	20	1.51	155	98
H588946	299	229	1.2	1.84	10	340	< 0.5	< 2	2.94	< 0.5	8	94	1280	1.91	10	< 1	0.77	30	1.39	130	152
H588947	299	229	1.0	1.94	< 2	310	< 0.5	2	1.80	1.0	8	116	1295	2.99	< 10	< 1	0.84	20	1.40	225	182
H588948	299	229	0.6	2.03	8	350	< 0.5	< 2	1.72	< 0.5	9	150	839	2.86	< 10	< 1	0.91	10	1.44	165	96
H588949	299	229	0.4	2.12	< 2	180	< 0.5	6	2.75	0.5	10	109	606	2.62	< 10	< 1	1.09	20	1.55	155	99
H588950	299	229	1.0	1.11	6	250	< 0.5	4	2.29	0.5	4	75	580	1.32	< 10	< 1	0.56	20	1.09	120	83
H588951	299	229	1.8	1.38	6	200	< 0.5	< 2	1.79	0.5	6	119	1505	1.61	< 10	< 1	0.49	10	0.83	115	278
H588952	299	229	1.0	1.81	14	300	< 0.5	< 2	2.97	< 0.5	8	102	1210	2.72	< 10	< 1	0.59	10	1.19	160	52
H588953	299	229	1.4	1.44	10	220	< 0.5	< 2	2.76	1.0	9	74	1155	2.80	< 10	< 1	0.50	20	1.21	190	72
H588954	299	229	0.4	1.33	12	580	< 0.5	< 2	2.36	< 0.5	8	62	1105	2.28	< 10	< 1	0.79	20	1.23	120	42
H588955	299	229	0.6	1.37	16	140	< 0.5	< 2	3.24	< 0.5	3	71	846	1.06	< 10	< 1	0.54	30	0.77	95	225
H588956	299	229	0.4	1.59	< 2	160	< 0.5	2	2.52	< 0.5	3	126	587	1.19	< 10	< 1	0.55	30	0.71	90	250
H588957	299	229	0.2	2.00	2	230	< 0.5	< 2	2.33	< 0.5	7	89	739	1.51	< 10	< 1	0.76	30	1.13	95	232
H588958	299	229	0.2	1.55	8	250	< 0.5	< 2	1.73	< 0.5	8	73	1245	1.55	< 10	< 1	0.80	20	0.97	95	257

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :5
Certificate Date: 09-NOV-93
Invoice No. :I9324040
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324040

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588919	299	229	0.12	4	940	8	10	17	87	0.28	< 10	< 10	136	< 10	58
H588920	299	229	0.12	4	990	24	8	15	83	0.27	< 10	< 10	129	< 10	76
H588921	299	229	0.12	4	1150	24	12	19	95	0.30	< 10	< 10	145	< 10	70
H588922	299	229	0.05	3	1030	12	14	15	268	0.19	< 10	< 10	114	< 10	58
H588923	299	229	0.05	3	1360	8	6	21	183	0.21	< 10	< 10	141	< 10	44
H588924	299	229	0.07	4	1080	4	10	18	235	0.25	< 10	10	135	< 10	38
H588925	299	229	0.10	4	1150	4	12	21	240	0.28	< 10	< 10	172	< 10	58
H588926	299	229	0.07	12	870	2	2	10	130	0.17	< 10	< 10	87	< 10	48
H588927	299	229	0.03	7	1180	22	12	17	99	0.21	< 10	< 10	127	< 10	66
H588928	299	229	0.03	5	1310	4	8	20	148	0.16	< 10	< 10	123	< 10	42
H588929	299	229	0.01	3	390	48	6	6	35	0.04	< 10	< 10	43	< 10	98
H588930	299	229	0.02	4	680	256	12	14	67	0.07	< 10	< 10	78	< 10	444
H588931	299	229	0.02	4	470	30	4	9	57	0.07	< 10	10	63	< 10	54
H588932	299	229	0.02	3	300	78	22	7	43	0.02	< 10	10	25	< 10	232
H588933	299	229	0.01	4	870	16	16	15	22	< 0.01	< 10	< 10	76	< 10	42
H588934	299	229	0.03	5	520	30	52	9	172	0.04	< 10	< 10	57	< 10	72
H588935	299	229	0.02	3	610	30	12	10	52	0.08	< 10	10	65	< 10	48
H588936	299	229	0.04	4	920	6	8	14	431	0.18	< 10	10	103	< 10	34
H588937	299	229	0.02	5	410	20	20	7	159	0.02	< 10	10	34	< 10	46
H588938	299	229	0.01	3	330	54	18	7	18	< 0.01	< 10	10	23	< 10	76
H588939	299	229	0.01	3	360	18	6	8	18	< 0.01	< 10	< 10	44	< 10	42
H588940	299	229	0.01	2	360	22	8	3	13	< 0.01	< 10	< 10	16	< 10	34
H588941	299	229	0.01	4	520	24	18	9	30	0.07	< 10	< 10	63	< 10	40
H588942	299	229	0.03	15	790	10	6	15	188	0.21	< 10	< 10	108	10	34
H588943	299	229	0.07	14	800	22	4	8	319	0.14	< 10	< 10	71	< 10	48
H588944	299	229	0.08	15	740	26	8	8	163	0.13	< 10	< 10	66	< 10	70
H588945	299	229	0.07	14	760	42	6	8	340	0.12	< 10	< 10	69	10	88
H588946	299	229	0.04	12	740	56	2	7	1195	0.12	< 10	< 10	60	10	70
H588947	299	229	0.07	14	760	18	< 2	8	310	0.11	< 10	< 10	70	10	66
H588948	299	229	0.09	13	810	20	2	9	222	0.14	< 10	< 10	82	10	52
H588949	299	229	0.14	3	900	4	4	15	444	0.19	< 10	< 10	116	20	38
H588950	299	229	0.03	3	690	18	4	8	99	0.08	< 10	< 10	54	< 10	96
H588951	299	229	0.04	7	570	14	4	7	75	0.04	< 10	< 10	54	10	108
H588952	299	229	0.04	13	720	8	6	7	171	0.07	< 10	< 10	49	20	48
H588953	299	229	0.04	14	800	22	4	7	253	0.06	< 10	< 10	46	20	154
H588954	299	229	0.03	12	810	4	4	8	260	0.12	< 10	< 10	58	10	30
H588955	299	229	0.02	3	430	8	6	7	55	0.05	< 10	< 10	45	< 10	22
H588956	299	229	0.02	2	470	4	4	7	50	0.06	< 10	< 10	42	10	18
H588957	299	229	0.03	4	510	4	4	11	55	0.10	< 10	< 10	71	10	18
H588958	299	229	0.03	3	850	4	6	13	203	0.10	< 10	< 10	78	10	16

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :19324040
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324040

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588959	299	229	1.4	3.20	4	180	< 0.5	< 2	1.93	0.5	16	542	3980	3.67	10	< 1	1.41	10	2.20	145	137
H588960	299	229	0.2	1.76	8	190	< 0.5	< 2	2.41	< 0.5	4	100	550	1.20	< 10	< 1	0.57	40	0.89	100	371
H588961	299	229	0.2	3.39	2	450	< 0.5	< 2	3.42	< 0.5	13	52	964	4.04	< 10	< 1	1.58	20	2.19	225	200
H588962	299	229	0.4	2.99	< 2	860	< 0.5	< 2	2.05	< 0.5	11	50	1515	2.98	< 10	< 1	1.38	20	1.82	170	119
H588963	299	229	0.6	3.20	< 2	440	< 0.5	2	2.10	< 0.5	11	53	1590	3.45	< 10	< 1	1.30	10	1.85	240	112
H588964	299	229	0.6	2.07	24	300	< 0.5	< 2	2.35	< 0.5	9	70	925	1.87	< 10	< 1	0.89	20	1.20	190	454
H588965	299	229	1.2	1.32	24	90	< 0.5	< 2	2.68	0.5	5	81	871	1.39	< 10	< 1	0.28	20	0.67	175	410
H588966	299	229	0.4	1.00	16	130	< 0.5	< 2	1.94	< 0.5	2	84	491	1.17	< 10	< 1	0.27	20	0.72	430	343
H588967	299	229	1.6	1.77	60	50	< 0.5	< 2	3.98	12.0	9	55	894	2.01	< 10	< 1	0.28	30	0.51	420	1265
H588968	299	229	0.4	1.26	8	30	< 0.5	< 2	1.63	< 0.5	3	64	715	1.01	< 10	< 1	0.14	30	0.61	145	236
H588969	299	229	0.8	2.65	48	160	< 0.5	2	2.33	< 0.5	18	42	1845	3.34	10	< 1	0.18	30	0.89	175	303
H588970	299	229	0.8	1.96	38	520	< 0.5	< 2	1.93	< 0.5	10	88	935	1.50	< 10	< 1	0.24	30	0.74	140	529
H588971	299	229	0.6	2.45	44	500	< 0.5	< 2	1.90	< 0.5	15	24	550	2.66	10	< 1	0.11	20	0.61	180	615
H588972	299	229	22.0	1.31	108	80	< 0.5	6	2.53	39.0	6	79	1320	3.05	< 10	< 1	0.31	20	0.87	525	332
H588973	299	229	8.6	2.70	62	60	< 0.5	2	2.09	36.5	17	36	862	4.63	10	< 1	0.32	20	0.63	480	247
H588974	299	229	1.6	1.70	78	550	< 0.5	< 2	2.46	1.0	7	39	1180	1.75	< 10	< 1	0.17	20	0.90	680	318
H588975	299	229	0.4	1.54	44	740	< 0.5	< 2	1.76	< 0.5	4	48	629	1.05	< 10	< 1	0.13	30	0.65	125	448
H588976	299	229	0.2	1.55	34	1210	< 0.5	< 2	0.76	< 0.5	6	47	697	1.12	10	< 1	0.10	30	0.29	80	325
H588977	299	229	0.6	1.64	36	740	< 0.5	< 2	1.45	< 0.5	6	39	1020	1.37	10	< 1	0.13	40	0.53	125	940
H588978	299	229	0.4	0.99	50	970	< 0.5	< 2	1.16	< 0.5	2	69	559	0.63	< 10	< 1	0.16	40	0.43	85	929
H588979	299	229	0.8	1.12	36	480	< 0.5	< 2	1.01	< 0.5	5	92	587	0.79	10	< 1	0.21	20	0.32	80	521
H588980	299	229	0.8	1.19	52	310	< 0.5	< 2	1.06	< 0.5	3	77	583	0.79	10	< 1	0.18	40	0.42	80	1195
H588981	299	229	0.6	3.28	26	540	< 0.5	< 2	1.70	< 0.5	11	31	1460	3.09	20	< 1	0.82	20	1.46	190	473
H588982	299	229	0.6	0.99	52	90	< 0.5	< 2	1.69	< 0.5	3	69	1020	1.06	< 10	< 1	0.14	20	0.60	305	728
H588983	299	229	0.4	1.16	56	300	< 0.5	< 2	2.20	< 0.5	3	65	1015	1.03	< 10	< 1	0.17	10	0.72	330	762
H588984	299	229	0.6	1.12	26	60	< 0.5	< 2	1.81	< 0.5	6	43	942	1.17	< 10	< 1	0.11	20	0.53	170	763
H588985	299	229	0.8	1.85	20	120	< 0.5	< 2	3.76	< 0.5	8	68	1095	1.42	< 10	1	0.45	< 10	0.55	235	232
H588986	299	229	0.4	2.54	< 2	650	0.5	< 2	2.68	< 0.5	6	63	791	1.56	10	< 1	0.87	10	1.21	135	517
H588987	299	229	< 0.2	2.74	4	310	< 0.5	< 2	2.27	< 0.5	6	92	641	1.99	10	< 1	0.97	10	1.37	135	289
H588988	299	229	0.6	1.97	2	170	1.0	< 2	1.93	< 0.5	9	102	1015	2.26	10	< 1	1.10	20	1.26	135	412
H588989	299	229	1.4	2.37	18	250	0.5	< 2	2.23	3.0	7	94	995	2.14	10	< 1	0.78	20	1.00	150	507
H588990	299	229	0.8	2.26	4	420	< 0.5	< 2	1.49	< 0.5	7	87	1370	1.87	10	< 1	0.68	20	1.02	105	767
H588991	299	229	2.0	2.31	6	130	< 0.5	4	2.02	2.0	7	114	1410	1.85	10	< 1	0.65	10	0.83	105	325
H588992	299	229	0.2	2.17	4	550	0.5	< 2	1.95	< 0.5	7	136	707	1.63	10	< 1	0.78	10	0.95	100	399
H588993	299	229	0.8	2.00	2	230	< 0.5	2	1.84	< 0.5	5	179	1125	1.52	10	< 1	0.61	20	0.63	105	322
H588994	299	229	1.2	1.95	30	160	< 0.5	10	1.97	< 0.5	4	76	1350	1.81	10	< 1	0.28	20	0.60	185	977
H588995	299	229	1.2	2.35	46	190	< 0.5	4	1.93	< 0.5	8	81	1845	2.34	10	< 1	0.30	30	0.53	175	756
H588996	299	229	0.8	2.56	20	300	< 0.5	< 2	1.59	< 0.5	7	66	1005	2.65	10	1	0.58	30	0.80	120	567
H588997	299	229	0.6	1.78	14	440	< 0.5	< 2	2.24	< 0.5	4	77	438	1.67	10	< 1	0.52	20	0.63	120	1275
H588998	299	229	0.6	2.28	28	150	< 0.5	< 2	1.96	< 0.5	9	49	745	2.99	10	1	0.72	20	1.08	185	569

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588959	299	229	0.04	78	470	2	4	13	55	0.13	< 10	< 10	116	20	32
H588960	299	229	0.04	4	550	4	4	7	60	0.06	< 10	< 10	49	< 10	18
H588961	299	229	0.09	3	1170	2	4	21	597	0.23	< 10	< 10	174	30	32
H588962	299	229	0.10	4	1080	< 2	2	16	436	0.23	< 10	< 10	126	20	28
H588963	299	229	0.04	3	980	2	6	16	271	0.21	< 10	< 10	127	20	36
H588964	299	229	0.02	2	670	10	10	11	51	0.13	< 10	< 10	90	10	42
H588965	299	229	0.01	2	580	18	26	8	31	< 0.01	< 10	< 10	40	< 10	74
H588966	299	229	0.01	2	390	12	8	6	23	0.01	< 10	< 10	33	< 10	44
H588967	299	229	0.01	2	1050	12	20	12	33	< 0.01	< 10	< 10	71	20	1295
H588968	299	229	0.01	2	550	6	8	8	16	< 0.01	< 10	10	35	< 10	30
H588969	299	229	0.01	7	1070	2	8	20	26	< 0.01	< 10	< 10	99	20	32
H588970	299	229	0.01	4	610	8	14	10	29	< 0.01	< 10	< 10	47	10	26
H588971	299	229	0.01	4	1770	10	10	21	29	< 0.01	< 10	< 10	91	10	20
H588972	299	229	0.01	4	710	1165	136	10	24	< 0.01	< 10	< 10	41	20	1500
H588973	299	229	0.01	5	1370	890	38	15	26	< 0.01	< 10	< 10	88	20	1460
H588974	299	229	0.01	4	890	16	26	15	31	< 0.01	< 10	< 10	71	10	48
H588975	299	229	0.01	3	340	18	16	7	26	< 0.01	< 10	< 10	31	< 10	36
H588976	299	229	0.01	3	550	16	8	12	26	< 0.01	< 10	< 10	39	< 10	26
H588977	299	229	0.01	2	820	14	16	10	26	< 0.01	< 10	< 10	35	10	28
H588978	299	229	0.01	1	420	16	24	4	24	< 0.01	< 10	< 10	16	< 10	22
H588979	299	229	0.01	3	350	14	16	4	16	< 0.01	< 10	20	7	< 10	30
H588980	299	229	0.01	3	670	22	36	4	18	< 0.01	< 10	10	2	< 10	38
H588981	299	229	0.01	4	1190	4	18	18	70	0.12	< 10	< 10	92	< 10	46
H588982	299	229	0.01	4	450	8	18	8	19	< 0.01	< 10	< 10	22	< 10	26
H588983	299	229	0.01	4	310	12	22	7	22	< 0.01	< 10	< 10	16	< 10	32
H588984	299	229	0.01	4	540	14	16	8	17	< 0.01	< 10	< 10	19	< 10	30
H588985	299	229	0.01	6	440	18	14	12	40	0.03	< 10	< 10	51	< 10	28
H588986	299	229	0.03	4	400	4	8	13	373	0.11	< 10	20	69	< 10	22
H588987	299	229	0.06	4	510	2	8	13	550	0.15	< 10	30	80	< 10	26
H588988	299	229	0.09	4	590	2	8	16	242	0.21	< 10	20	91	< 10	26
H588989	299	229	0.04	4	510	8	12	13	367	0.10	< 10	20	66	< 10	304
H588990	299	229	0.03	3	420	2	12	11	249	0.08	< 10	20	54	< 10	36
H588991	299	229	0.04	3	470	6	6	11	218	0.07	< 10	20	59	< 10	190
H588992	299	229	0.06	4	460	4	8	12	208	0.10	< 10	20	63	< 10	18
H588993	299	229	0.06	4	430	4	4	8	193	0.05	< 10	20	44	< 10	26
H588994	299	229	0.01	4	440	6	30	9	25	< 0.01	< 10	10	25	< 10	32
H588995	299	229	0.01	7	700	12	28	11	30	< 0.01	< 10	10	41	< 10	38
H588996	299	229	0.02	6	830	6	22	12	26	0.07	< 10	10	63	< 10	34
H588997	299	229	0.01	4	490	4	22	10	36	0.06	< 10	10	35	< 10	24
H588998	299	229	0.02	7	900	6	18	16	69	0.09	< 10	10	79	< 10	42

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 223
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :19324040
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324040

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588999	299	229	0.6	2.14	40	440	< 0.5	2	1.24	< 0.5	6	84	840	2.05	10	< 1	0.17	40	0.46	135	495
H589000	299	229	0.4	2.00	30	60	< 0.5	< 2	1.11	< 0.5	6	117	798	2.28	10	< 1	0.17	30	0.42	95	327
H941501	299	229	0.6	1.89	34	40	< 0.5	< 2	1.69	< 0.5	6	86	667	1.91	< 10	< 1	0.18	30	0.34	115	793
H941502	299	229	0.6	2.08	16	170	< 0.5	2	2.41	< 0.5	6	101	906	2.66	< 10	< 1	0.44	30	0.63	140	211
H941503	299	229	0.4	2.02	36	180	< 0.5	< 2	3.00	< 0.5	8	108	705	2.13	< 10	< 1	0.33	20	0.51	160	188
H941504	299	229	0.2	2.41	6	420	< 0.5	4	2.83	< 0.5	9	88	389	3.40	< 10	< 1	1.17	20	1.58	210	42
H941505	299	229	0.2	1.27	< 2	370	< 0.5	< 2	1.77	< 0.5	4	88	284	0.97	< 10	< 1	0.55	20	0.76	85	64
H941506	299	229	0.4	1.92	38	500	< 0.5	6	2.58	< 0.5	12	70	390	2.60	< 10	< 1	0.27	20	0.58	210	65
H941507	299	229	0.4	1.99	12	1290	< 0.5	< 2	1.48	< 0.5	6	122	443	1.53	< 10	< 1	0.87	30	1.10	110	213
H941508	299	229	0.2	1.95	10	360	< 0.5	8	1.65	< 0.5	7	112	498	1.99	< 10	< 1	0.89	20	1.20	145	73
H941509	299	229	0.2	2.46	38	430	< 0.5	< 2	0.94	< 0.5	10	64	459	3.01	< 10	< 1	0.17	10	0.47	120	120
H941510	299	229	< 0.2	1.80	8	830	< 0.5	< 2	1.73	< 0.5	9	97	439	3.09	< 10	< 1	0.64	10	0.97	180	140
H941511	299	229	< 0.2	1.48	4	880	< 0.5	< 2	2.50	< 0.5	6	71	488	1.91	< 10	< 1	0.39	20	0.66	170	125
H941512	299	229	0.2	1.66	20	360	< 0.5	2	0.82	< 0.5	3	66	545	1.03	< 10	< 1	0.09	30	0.24	75	527
H941513	299	229	0.4	1.33	10	420	< 0.5	< 2	1.18	< 0.5	2	103	360	0.73	< 10	< 1	0.21	30	0.28	75	125
H941514	299	229	0.2	1.45	8	260	< 0.5	< 2	2.58	< 0.5	3	101	512	1.02	< 10	< 1	0.66	30	0.90	75	183
H941515	299	229	0.2	1.78	< 2	260	< 0.5	2	2.04	< 0.5	5	85	295	1.58	< 10	< 1	0.94	20	1.19	95	127
H941516	299	229	0.2	1.45	6	580	< 0.5	4	1.91	< 0.5	3	99	250	0.77	< 10	< 1	0.31	20	0.42	90	244

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 224
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-OCT-93
Invoice No. :I9323172
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323172

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
589169	208 274	0.01	0.003	0.07	4400
589170	208 274	0.01	0.005	0.10	7060
589171	208 276	0.01	0.002	0.07	9980
589172	208 276	0.01	0.004	0.17	9100
589173	208 276	0.01	0.002	0.07	8040
589174	208 274	< 0.01	0.003	0.03	4880
589175	208 276	0.01	0.001	0.10	8200
589176	208 276	0.01	0.001	0.07	10540
589177	208 276	0.01	0.002	0.14	9520
589178	208 276	< 0.01	0.004	0.10	9700
589179	208 276	< 0.01	0.003	0.21	9860
589180	208 276	< 0.01	0.002	0.51	9580
589181	208 276	< 0.01	0.008	0.10	10140
589182	208 276	0.01	0.004	0.07	10340
589183	208 276	0.05	0.001	0.10	9020
589184	208 276	0.04	< 0.001	0.10	10660
589185	208 276	0.05	0.001	0.07	11400
589186	208 276	0.07	0.001	0.14	10720
589187	208 273	0.07	< 0.001	0.14	12600
589188	208 273	0.05	0.002	0.14	12940
589189	208 276	0.08	< 0.001	0.41	10480
589190	208 276	0.10	< 0.001	0.10	11240
589191	208 276	0.11	< 0.001	0.07	9100
589192	208 276	0.09	< 0.001	0.10	10960
589193	208 276	0.17	< 0.001	0.10	11140
589194	208 273	0.08	< 0.001	0.07	12160
589195	208 276	0.08	0.002	< 0.03	11760
589196	208 276	0.09	0.001	0.07	11620
589197	208 273	0.10	0.002	0.07	13500
589198	208 273	0.04	0.001	0.03	12040
589199	208 276	0.09	< 0.001	0.03	10620
589200	208 273	0.05	0.001	0.07	12960
589201	208 273	0.03	< 0.001	0.07	12340
589202	208 273	0.15	0.001	< 0.03	12280
589203	208 273	0.06	< 0.001	0.07	13040
589204	208 276	0.02	< 0.001	0.03	11580
589205	208 276	0.05	< 0.001	0.14	10440
589206	208 276	0.03	< 0.001	0.14	10820
589207	208 276	0.08	< 0.001	< 0.03	11180
589208	208 276	0.09	< 0.001	< 0.03	10180

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 224
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 25-OCT-93
Invoice No. : I9323172
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323172

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589209	208	273	0.04	< 0.001	0.03	13000						
589210	208	276	0.05	0.001	< 0.03	11280						
589211	208	276	0.15	< 0.001	< 0.03	11760						
589212	208	276	0.11	0.001	< 0.03	9780						
589213	208	276	0.13	< 0.001	< 0.03	9960						
589214	208	273	0.04	< 0.001	< 0.03	12320						
589215	208	273	0.02	0.002	< 0.03	12120						
589216	208	273	0.01	< 0.001	< 0.03	12840						
589217	208	273	0.02	0.001	< 0.03	13380						
589218	208	273	0.06	0.002	< 0.03	12840						
589219	208	273	0.09	0.001	< 0.03	13020						
589220	208	273	0.03	0.003	< 0.03	12960						
589221	208	273	0.01	0.006	< 0.03	12900						
589222	208	273	0.01	0.004	0.17	13100						
589223	208	273	0.03	0.001	< 0.03	12220						
589224	208	273	0.03	0.002	< 0.03	12020						
589225	208	273	0.07	< 0.001	< 0.03	13440						
589226	208	273	0.01	< 0.001	< 0.03	13900						
589227	208	273	< 0.01	< 0.001	< 0.03	12820						
589228	208	273	< 0.01	0.001	< 0.03	13420						
589229	208	273	< 0.01	0.001	< 0.03	14260						
589230	208	273	0.04	0.003	< 0.03	14400						
589231	208	273	0.01	0.001	< 0.03	12820						
589232	208	273	0.07	0.002	< 0.03	13400						
589233	208	273	0.01	0.001	0.03	14100						
589234	208	273	< 0.01	0.001	0.07	12960						
589235	208	273	< 0.01	< 0.001	< 0.03	13500						
589236	208	273	0.01	< 0.001	< 0.03	14120						
589237	208	273	0.01	0.001	< 0.03	13620						
589238	208	273	0.01	0.002	< 0.03	13560						
589239	208	273	0.01	0.001	< 0.03	14280						
589240	208	273	0.01	< 0.001	< 0.03	14100						
589241	208	273	0.01	< 0.001	< 0.03	13420						
589242	208	273	0.01	< 0.001	0.03	14820						
589243	208	273	0.01	0.001	< 0.03	14160						
589244	208	273	0.02	0.001	< 0.03	13240						
589245	208	273	0.01	0.002	0.10	14960						
589246	208	273	< 0.01	0.001	< 0.03	14580						
589247	208	273	0.02	0.003	< 0.03	13360						

CERTIFICATION: Sandi Kwok

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 224
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-OCT-93
Invoice No. : 19323175
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323175

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589169	299	229	0.2	0.60	50	240	< 0.5	< 2	0.04	< 0.5	1	71	110	3.21	< 10	< 1	0.42	20	0.04	20	13
589170	299	229	0.2	0.58	94	170	< 0.5	< 2	0.02	< 0.5	1	85	147	3.07	< 10	< 1	0.48	20	0.04	30	26
589171	299	229	0.4	0.67	40	170	< 0.5	< 2	0.02	< 0.5	1	104	97	1.89	< 10	< 1	0.43	20	0.04	15	18
589172	299	229	0.6	0.65	26	150	< 0.5	< 2	0.02	< 0.5	1	91	138	3.52	< 10	< 1	0.35	10	0.04	15	28
589173	299	229	0.6	0.91	36	520	< 0.5	< 2	0.02	< 0.5	1	88	82	3.05	< 10	< 1	0.41	20	0.12	20	16
589174	299	229	1.6	0.84	46	200	< 0.5	< 2	0.02	< 0.5	< 1	82	65	3.66	< 10	< 1	0.65	20	0.05	10	20
589175	299	229	0.2	1.20	28	290	< 0.5	< 2	0.02	< 0.5	1	73	138	3.72	< 10	< 1	0.49	10	0.27	30	8
589176	299	229	< 0.2	1.28	14	240	< 0.5	< 2	0.03	< 0.5	2	72	159	4.02	< 10	< 1	0.39	10	0.39	40	7
589177	299	229	1.0	0.64	50	230	< 0.5	< 2	0.02	< 0.5	2	86	84	2.74	< 10	< 1	0.46	20	0.05	15	15
589178	299	229	1.4	0.52	16	380	< 0.5	< 2	0.02	< 0.5	4	80	65	2.14	< 10	< 1	0.37	10	0.03	100	27
589179	299	229	0.2	0.61	18	390	< 0.5	< 2	0.06	< 0.5	3	75	64	2.69	< 10	< 1	0.29	10	0.08	55	23
589180	299	229	0.2	0.85	22	220	< 0.5	< 2	0.10	< 0.5	3	90	93	2.89	< 10	< 1	0.38	10	0.17	20	13
589181	299	229	0.8	0.78	30	140	< 0.5	< 2	0.09	< 0.5	6	79	70	4.16	< 10	< 1	0.51	10	0.09	20	52
589182	299	229	1.2	0.71	36	60	< 0.5	< 2	0.03	< 0.5	10	68	118	3.36	< 10	< 1	0.46	10	0.07	15	23
589183	299	229	0.4	1.04	50	50	< 0.5	< 2	0.10	< 0.5	18	68	584	4.50	< 10	< 1	0.33	10	0.06	35	6
589184	299	229	< 0.2	1.11	4	40	< 0.5	< 2	0.12	< 0.5	13	79	473	4.35	< 10	< 1	0.40	< 10	0.10	25	2
589185	299	229	< 0.2	0.94	16	40	< 0.5	< 2	0.16	< 0.5	15	72	528	5.07	< 10	< 1	0.38	< 10	0.10	55	6
589186	299	229	0.6	1.13	14	40	< 0.5	< 2	0.32	1.0	17	63	761	4.65	< 10	< 1	0.38	10	0.16	155	3
589187	299	229	0.4	0.74	26	30	< 0.5	< 2	0.28	< 0.5	17	71	722	5.52	< 10	< 1	0.33	< 10	0.13	120	6
589188	299	229	< 0.2	0.77	16	20	< 0.5	< 2	0.11	< 0.5	79	73	506	6.67	< 10	< 1	0.32	< 10	0.05	50	11
589189	299	229	< 0.2	0.91	14	20	< 0.5	< 2	0.20	< 0.5	15	71	874	4.30	< 10	< 1	0.32	10	0.09	70	2
589190	299	229	< 0.2	1.15	14	30	< 0.5	< 2	0.27	< 0.5	25	51	1050	5.68	< 10	< 1	0.31	10	0.17	70	3
589191	299	229	< 0.2	1.83	6	90	< 0.5	< 2	0.28	< 0.5	11	59	1150	3.69	< 10	< 1	0.33	10	0.81	160	2
589192	299	229	< 0.2	1.51	14	30	< 0.5	< 2	0.23	< 0.5	14	72	920	4.41	< 10	< 1	0.30	10	0.37	180	2
589193	299	229	0.4	1.28	18	70	< 0.5	< 2	0.25	0.5	16	77	1795	4.70	< 10	< 1	0.34	10	0.11	225	3
589194	299	229	0.2	1.06	14	70	< 0.5	< 2	0.16	< 0.5	20	90	850	4.36	< 10	< 1	0.33	10	0.07	310	2
589195	299	229	< 0.2	1.18	22	50	< 0.5	< 2	0.13	< 0.5	15	89	856	4.52	< 10	< 1	0.44	10	0.08	75	17
589196	299	229	0.4	1.20	20	20	< 0.5	< 2	0.10	< 0.5	42	80	933	5.33	< 10	< 1	0.45	10	0.08	10	6
589197	299	229	1.2	0.85	12	30	< 0.5	< 2	0.10	< 0.5	32	74	1015	4.91	< 10	< 1	0.33	10	0.06	10	8
589198	299	229	0.2	0.95	12	60	< 0.5	< 2	0.07	< 0.5	17	100	440	3.36	< 10	< 1	0.42	< 10	0.06	10	12
589199	299	229	0.2	0.84	8	40	< 0.5	< 2	0.06	< 0.5	10	86	891	4.43	< 10	< 1	0.33	< 10	0.04	5	2
589200	299	229	< 0.2	1.02	10	30	< 0.5	< 2	0.11	< 0.5	26	79	527	6.48	< 10	< 1	0.42	< 10	0.07	10	8
589201	299	229	< 0.2	0.87	12	40	< 0.5	< 2	0.14	< 0.5	13	75	372	3.79	< 10	< 1	0.31	< 10	0.05	65	3
589202	299	229	< 0.2	0.99	22	20	< 0.5	< 2	0.07	< 0.5	7	74	1535	6.06	< 10	< 1	0.33	< 10	0.03	30	6
589203	299	229	< 0.2	0.82	30	20	< 0.5	< 2	0.13	< 0.5	22	72	570	7.11	< 10	< 1	0.36	< 10	0.06	140	7
589204	299	229	< 0.2	0.98	20	70	< 0.5	< 2	0.15	< 0.5	12	66	265	3.50	< 10	< 1	0.42	10	0.07	225	3
589205	299	229	0.4	1.01	56	10	< 0.5	< 2	0.10	< 0.5	18	82	559	8.02	< 10	< 1	0.41	< 10	0.06	30	4
589206	299	229	1.4	1.03	42	20	< 0.5	< 2	0.11	< 0.5	11	64	340	4.69	< 10	< 1	0.43	< 10	0.07	55	2
589207	299	229	0.6	1.23	48	40	< 0.5	< 2	0.17	< 0.5	16	100	856	4.26	< 10	< 1	0.44	10	0.10	290	2
589208	299	229	0.4	1.22	16	40	< 0.5	< 2	0.23	< 0.5	14	107	912	4.08	< 10	< 1	0.39	10	0.11	460	1

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 224
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :2
Certificate Date: 23-OCT-93
Invoice No. :I9323175
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323175

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589169	299	229	0.02	1	520	8	2	1	63	< 0.01	< 10	< 10	12	< 10	18
589170	299	229	0.01	1	740	6	4	2	115	< 0.01	< 10	< 10	12	< 10	34
589171	299	229	0.01	1	340	12	4	1	87	< 0.01	< 10	< 10	10	< 10	18
589172	299	229	< 0.01	1	280	40	4	1	20	< 0.01	< 10	< 10	9	< 10	26
589173	299	229	0.07	1	600	38	< 2	2	61	< 0.01	< 10	< 10	13	< 10	22
589174	299	229	0.02	1	850	196	2	2	74	< 0.01	< 10	< 10	11	< 10	16
589175	299	229	0.12	1	750	10	< 2	4	59	< 0.01	< 10	< 10	29	< 10	24
589176	299	229	0.16	2	700	4	< 2	3	59	< 0.01	< 10	< 10	27	10	24
589177	299	229	0.05	< 1	850	26	2	2	39	< 0.01	< 10	< 10	12	< 10	18
589178	299	229	0.01	1	170	92	4	< 1	23	< 0.01	< 10	< 10	7	< 10	28
589179	299	229	0.04	< 1	220	20	< 2	1	27	< 0.01	< 10	< 10	8	< 10	22
589180	299	229	0.07	1	390	6	2	1	42	< 0.01	< 10	< 10	13	< 10	18
589181	299	229	0.03	1	510	30	4	1	135	< 0.01	< 10	< 10	10	< 10	20
589182	299	229	0.01	2	470	44	4	1	105	< 0.01	< 10	< 10	10	< 10	64
589183	299	229	0.01	4	690	22	2	3	19	< 0.01	< 10	< 10	13	< 10	28
589184	299	229	0.01	3	360	4	< 2	2	8	< 0.01	< 10	< 10	11	< 10	32
589185	299	229	0.01	4	420	2	< 2	2	6	< 0.01	< 10	< 10	10	< 10	48
589186	299	229	0.01	3	570	62	6	2	13	< 0.01	< 10	< 10	11	< 10	134
589187	299	229	0.01	3	430	6	< 2	1	8	< 0.01	< 10	< 10	8	< 10	52
589188	299	229	0.01	3	400	2	2	1	8	< 0.01	< 10	< 10	8	< 10	84
589189	299	229	0.01	3	490	4	< 2	1	9	< 0.01	< 10	< 10	9	< 10	38
589190	299	229	0.01	5	620	2	< 2	2	11	< 0.01	< 10	< 10	13	< 10	50
589191	299	229	0.03	4	610	< 2	< 2	5	16	< 0.01	< 10	< 10	41	< 10	58
589192	299	229	0.02	4	500	4	< 2	2	14	< 0.01	< 10	< 10	18	< 10	62
589193	299	229	0.01	6	530	4	< 2	2	9	< 0.01	< 10	< 10	13	< 10	68
589194	299	229	0.01	3	540	4	< 2	1	10	< 0.01	< 10	< 10	13	< 10	80
589195	299	229	0.01	6	550	2	2	1	33	< 0.01	< 10	< 10	11	< 10	26
589196	299	229	0.01	4	450	6	< 2	1	57	< 0.01	< 10	< 10	11	< 10	14
589197	299	229	< 0.01	4	470	2	2	1	93	< 0.01	< 10	< 10	7	< 10	12
589198	299	229	0.01	1	330	2	2	1	73	< 0.01	< 10	< 10	7	< 10	8
589199	299	229	0.01	2	340	4	< 2	1	116	< 0.01	< 10	< 10	5	< 10	4
589200	299	229	0.01	4	500	8	2	1	100	< 0.01	< 10	< 10	9	< 10	8
589201	299	229	< 0.01	4	510	2	< 2	1	12	< 0.01	< 10	< 10	8	< 10	24
589202	299	229	0.01	3	380	< 2	< 2	1	50	< 0.01	< 10	< 10	8	< 10	6
589203	299	229	0.01	3	460	< 2	2	1	11	< 0.01	< 10	< 10	8	< 10	26
589204	299	229	0.01	1	510	2	< 2	1	7	< 0.01	< 10	< 10	10	< 10	36
589205	299	229	0.01	3	420	20	2	1	31	< 0.01	< 10	< 10	10	< 10	98
589206	299	229	0.01	2	400	< 2	12	1	7	< 0.01	< 10	< 10	10	< 10	58
589207	299	229	0.01	5	490	4	32	1	8	< 0.01	< 10	< 10	12	< 10	58
589208	299	229	0.01	5	530	10	6	2	18	< 0.01	< 10	< 10	14	< 10	76

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 224
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :2
Certificate Date: 23-OCT-93
Invoice No. :I9323175
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323175

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589209	299	229	0.4	1.09	2	20	1.0	< 2	0.15	< 0.5	20	75	451	6.66	< 10	< 1	0.42	10	0.08	430	3
589210	299	229	0.2	1.08	12	10	0.5	< 2	0.07	< 0.5	31	80	558	7.80	< 10	< 1	0.36	< 10	0.04	15	10
589211	299	229	< 0.2	1.05	6	10	1.0	< 2	0.11	< 0.5	20	64	1540	7.37	< 10	< 1	0.39	< 10	0.06	20	4
589212	299	229	< 0.2	1.23	2	30	0.5	< 2	0.14	< 0.5	27	110	1145	4.85	< 10	< 1	0.40	< 10	0.08	55	5
589213	299	229	< 0.2	1.21	2	20	1.0	< 2	0.46	< 0.5	22	74	1350	5.55	< 10	< 1	0.33	10	0.21	150	2
589214	299	229	< 0.2	1.22	2	30	1.0	< 2	0.93	< 0.5	14	87	436	3.87	< 10	< 1	0.35	10	0.46	160	< 1
589215	299	229	< 0.2	0.89	2	40	1.0	< 2	1.06	< 0.5	11	79	167	3.75	< 10	< 1	0.35	10	0.49	110	7
589216	299	229	< 0.2	1.02	2	30	1.0	< 2	1.52	< 0.5	12	82	159	5.48	< 10	< 1	0.35	10	0.62	105	< 1
589217	299	229	< 0.2	0.98	4	30	1.5	< 2	0.81	< 0.5	14	101	229	5.95	< 10	< 1	0.49	< 10	0.37	95	1
589218	299	229	< 0.2	1.24	6	20	1.0	< 2	0.47	< 0.5	20	113	622	6.76	< 10	< 1	0.55	< 10	0.24	165	12
589219	299	229	< 0.2	1.01	6	20	1.0	< 2	0.78	< 0.5	40	107	884	6.74	< 10	< 1	0.48	< 10	0.35	115	5
589220	299	229	< 0.2	0.84	2	30	1.0	< 2	0.88	< 0.5	22	106	291	5.67	< 10	< 1	0.41	< 10	0.36	125	11
589221	299	229	< 0.2	1.05	42	20	1.0	< 2	1.15	< 0.5	55	102	99	9.23	< 10	< 1	0.53	< 10	0.28	430	31
589222	299	229	0.2	0.96	300	10	0.5	< 2	0.79	< 0.5	70	80	100	9.44	< 10	< 1	0.46	< 10	0.31	2960	15
589223	299	229	< 0.2	1.05	20	50	1.0	< 2	1.05	< 0.5	60	111	336	4.78	< 10	< 1	0.39	10	0.48	585	3
589224	299	229	< 0.2	1.10	8	40	1.0	< 2	0.65	< 0.5	16	107	365	5.08	< 10	< 1	0.50	< 10	0.33	295	6
589225	299	229	< 0.2	0.99	10	50	1.0	< 2	0.97	< 0.5	11	114	738	4.71	< 10	< 1	0.37	10	0.45	210	3
589226	299	229	< 0.2	0.73	2	20	1.0	< 2	0.90	< 0.5	14	86	190	6.62	< 10	< 1	0.34	< 10	0.34	145	3
589227	299	229	< 0.2	0.72	2	30	1.0	< 2	1.37	< 0.5	14	101	57	5.25	< 10	< 1	0.35	< 10	0.57	185	1
589228	299	229	< 0.2	0.66	4	40	1.0	< 2	1.21	< 0.5	10	71	75	4.06	< 10	< 1	0.30	10	0.53	245	2
589229	299	229	< 0.2	0.81	4	30	< 0.5	< 2	1.21	< 0.5	18	92	75	5.20	< 10	< 1	0.35	10	0.51	185	1
589230	299	229	< 0.2	0.87	50	20	< 0.5	< 2	0.77	< 0.5	45	77	399	9.19	< 10	< 1	0.39	< 10	0.33	250	17
589231	299	229	0.2	0.91	66	30	< 0.5	< 2	0.70	< 0.5	33	95	79	4.79	< 10	< 1	0.44	< 10	0.31	1255	4
589232	299	229	< 0.2	0.90	26	20	< 0.5	< 2	0.51	0.5	29	92	658	7.23	< 10	< 1	0.39	< 10	0.20	500	6
589233	299	229	< 0.2	0.71	8	20	< 0.5	< 2	0.56	< 0.5	19	71	55	4.66	< 10	< 1	0.36	10	0.21	255	1
589234	299	229	< 0.2	0.85	2	20	< 0.5	< 2	0.57	< 0.5	21	89	36	6.61	< 10	< 1	0.42	< 10	0.24	235	5
589235	299	229	< 0.2	0.70	4	10	< 0.5	< 2	0.24	< 0.5	29	80	26	6.44	< 10	< 1	0.33	< 10	0.08	100	2
589236	299	229	0.6	0.78	44	10	< 0.5	< 2	0.69	< 0.5	40	83	111	7.62	10	< 1	0.38	< 10	0.30	200	1
589237	299	229	0.4	1.01	4	20	< 0.5	< 2	0.96	< 0.5	37	80	80	6.09	10	< 1	0.38	10	0.41	200	6
589238	299	229	< 0.2	0.67	2	30	< 0.5	< 2	1.10	< 0.5	24	82	111	4.52	< 10	< 1	0.30	10	0.43	190	4
589239	299	229	< 0.2	0.68	2	30	< 0.5	< 2	1.16	< 0.5	14	77	81	4.13	< 10	< 1	0.30	10	0.49	165	2
589240	299	229	< 0.2	0.85	2	70	< 0.5	< 2	1.42	< 0.5	10	90	95	2.90	< 10	< 1	0.21	10	0.66	95	< 1
589241	299	229	0.2	0.61	76	30	< 0.5	< 2	1.24	< 0.5	11	87	81	3.22	< 10	< 1	0.23	10	0.54	925	1
589242	299	229	0.2	0.53	74	30	< 0.5	< 2	0.98	< 0.5	15	67	72	3.62	< 10	< 1	0.27	< 10	0.43	1220	1
589243	299	229	< 0.2	0.71	4	30	< 0.5	< 2	1.31	< 0.5	20	58	127	3.47	< 10	< 1	0.26	10	0.53	230	4
589244	299	229	0.2	0.99	2	30	< 0.5	< 2	1.91	< 0.5	19	88	187	3.37	< 10	< 1	0.28	10	0.60	240	1
589245	299	229	1.4	0.72	54	10	< 0.5	< 2	0.73	3.0	38	81	90	7.54	< 10	< 1	0.35	< 10	0.33	325	7
589246	299	229	< 0.2	0.74	4	20	< 0.5	< 2	1.11	< 0.5	21	69	50	5.40	< 10	< 1	0.33	10	0.50	140	7
589247	299	229	< 0.2	0.68	4	20	< 0.5	< 2	1.08	< 0.5	15	98	180	3.90	< 10	< 1	0.29	< 10	0.49	150	14

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 224
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 23-OCT-93
Invoice No. : I9323175
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323175

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589209	299	229	0.01	2	420	16	6	1	24	< 0.01	< 10	< 10	11	< 10	70
589210	299	229	0.01	3	340	< 2	4	1	29	< 0.01	< 10	< 10	8	< 10	78
589211	299	229	0.01	4	460	< 2	< 2	1	29	< 0.01	< 10	< 10	11	< 10	14
589212	299	229	0.01	4	580	< 2	< 2	2	18	< 0.01	< 10	< 10	11	< 10	22
589213	299	229	0.01	3	570	2	< 2	1	8	< 0.01	< 10	< 10	12	< 10	40
589214	299	229	0.02	3	500	6	< 2	2	19	< 0.01	< 10	< 10	15	10	40
589215	299	229	0.01	2	380	2	< 2	1	15	< 0.01	< 10	< 10	11	10	18
589216	299	229	0.01	2	450	< 2	< 2	1	18	< 0.01	< 10	< 10	12	10	18
589217	299	229	0.02	2	450	4	< 2	1	11	< 0.01	< 10	< 10	11	< 10	14
589218	299	229	0.02	4	450	6	< 2	2	10	< 0.01	< 10	< 10	14	< 10	38
589219	299	229	0.01	4	450	6	2	1	10	< 0.01	< 10	< 10	11	< 10	18
589220	299	229	0.01	3	450	< 2	< 2	1	9	< 0.01	< 10	< 10	10	10	18
589221	299	229	0.01	3	490	4	2	2	15	< 0.01	< 10	< 10	15	100	14
589222	299	229	0.01	3	460	6	4	2	12	< 0.01	< 10	< 10	14	20	26
589223	299	229	0.01	3	440	6	8	1	12	< 0.01	< 10	< 10	13	< 10	38
589224	299	229	0.01	5	490	6	4	1	10	< 0.01	< 10	< 10	13	< 10	32
589225	299	229	0.01	2	440	6	< 2	1	13	< 0.01	< 10	< 10	12	< 10	24
589226	299	229	0.01	2	420	2	< 2	1	8	< 0.01	< 10	< 10	10	10	12
589227	299	229	0.01	2	430	2	2	1	12	< 0.01	< 10	< 10	9	10	12
589228	299	229	0.01	2	470	2	< 2	1	14	< 0.01	< 10	< 10	10	10	24
589229	299	229	0.01	3	490	< 2	4	1	13	< 0.01	< 10	< 10	12	20	16
589230	299	229	0.01	3	450	6	12	2	9	< 0.01	< 10	< 10	14	30	20
589231	299	229	0.01	3	450	2	12	1	11	< 0.01	< 10	< 10	12	10	32
589232	299	229	0.01	3	480	2	8	2	7	< 0.01	< 10	< 10	13	20	26
589233	299	229	0.01	1	410	< 2	4	1	7	< 0.01	< 10	< 10	10	10	18
589234	299	229	0.01	2	430	< 2	2	1	7	< 0.01	< 10	< 10	12	20	22
589235	299	229	0.01	4	300	4	2	1	8	< 0.01	< 10	< 10	8	20	16
589236	299	229	0.01	3	390	< 2	8	1	7	< 0.01	< 10	< 10	11	30	18
589237	299	229	0.01	3	440	4	4	2	10	< 0.01	< 10	< 10	15	20	14
589238	299	229	0.01	4	420	< 2	4	1	10	< 0.01	< 10	< 10	12	50	12
589239	299	229	0.01	3	330	6	< 2	1	25	< 0.01	< 10	< 10	12	20	20
589240	299	229	0.03	3	440	< 2	2	3	32	< 0.01	< 10	< 10	24	10	12
589241	299	229	< 0.01	1	340	24	14	1	17	< 0.01	< 10	< 10	11	20	18
589242	299	229	0.01	1	380	16	14	1	13	< 0.01	< 10	< 10	9	10	26
589243	299	229	0.01	1	410	< 2	4	1	16	< 0.01	< 10	< 10	13	10	12
589244	299	229	0.01	3	530	2	6	2	56	< 0.01	< 10	< 10	19	10	26
589245	299	229	0.01	2	320	352	28	1	27	< 0.01	< 10	< 10	11	20	134
589246	299	229	0.01	4	450	< 2	4	1	12	< 0.01	< 10	< 10	13	50	14
589247	299	229	0.01	1	370	2	6	1	12	< 0.01	< 10	< 10	11	10	12

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-OCT-93
Invoice No. :19323189
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323189

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
565887	208	274	0.04	0.026	0.17	7160						
565888	208	276	0.05	0.027	0.14	8520						
565889	208	274	0.04	0.012	0.07	4440						
565890	208	274	0.04	0.012	0.14	3100						
565891	208	273	0.05	0.013	0.14	11920						
565892	208	276	0.05	0.015	0.17	11280						
565893	208	276	0.04	0.037	0.07	11020						
565894	208	276	0.06	0.035	0.07	10600						
565895	208	276	0.06	0.020	0.10	11000						
565896	208	276	0.09	0.015	0.24	11400						
565897	208	273	0.12	0.012	0.14	11960						
565898	208	273	0.14	0.020	0.17	12040						
565899	208	273	0.13	0.023	0.17	12100						
565900	208	276	0.26	0.025	0.07	11440						
565901	208	273	0.30	0.036	0.17	12560						
565902	208	273	0.21	0.028	0.10	12500						
565903	208	276	0.25	0.053	0.24	11800						
565904	208	273	0.23	0.044	0.21	12920						
565905	208	276	0.14	0.068	0.17	11020						
565906	208	276	0.09	0.031	0.10	10920						
565907	208	276	0.17	0.034	0.17	11340						
565908	208	276	0.24	0.048	0.24	9280						
565909	208	276	0.29	0.043	0.24	9100						
565910	208	276	0.18	0.027	0.17	9520						
565911	208	276	0.22	0.030	0.17	8680						
565912	208	276	0.25	0.042	0.17	10480						
565913	208	274	0.20	0.033	0.14	4500						
565914	208	276	0.23	0.016	0.17	11460						
565915	208	276	0.26	0.029	0.31	8800						
565916	208	276	0.23	0.030	0.34	10620						
565917	208	276	0.27	0.040	0.38	9320						
565918	208	276	0.34	0.052	0.41	11000						
565919	208	276	0.29	0.032	0.58	9620						
565920	208	276	0.25	0.042	0.34	9980						
565921	208	274	0.21	0.020	0.27	4980						
565922	208	276	0.19	0.029	0.24	8640						
565923	208	274	0.21	0.075	0.24	6800						
565924	208	276	0.18	0.028	0.21	9540						
565925	208	273	0.20	0.057	0.24	14440						
565926	208	273	0.12	0.028	0.17	14100						

CERTIFICATION: Saul Terrett

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-OCT-93
Invoice No. : I9323189
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CERTIFICATE OF ANALYSIS A9323189

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
565927	208 276	0.08	0.012	0.21	10480
565928	208 273	0.11	0.013	0.14	12320
565929	208 273	0.06	0.010	0.07	13160
565930	208 273	0.09	0.020	0.14	11900
565931	208 276	0.05	0.030	0.07	10400
565932	208 276	0.06	0.026	0.07	9000
565933	208 276	0.10	0.021	0.10	9160
565934	208 276	0.08	0.012	0.07	9380
565935	208 276	0.12	0.017	0.10	11660
565936	208 276	0.05	0.010	0.07	8640
565937	208 276	0.04	0.009	0.03	8460
565938	208 276	0.09	0.021	0.14	10820
565939	208 273	0.09	0.030	0.10	12460
565940	208 276	0.08	0.020	0.07	10600
565941	208 273	0.07	0.008	0.03	12260
565942	208 276	0.05	0.013	< 0.03	11060
565943	208 273	0.08	0.017	0.07	11960
565944	208 273	0.14	0.023	0.21	12280
565945	208 273	0.09	0.011	0.10	12020
565946	208 273	0.08	0.017	0.45	12760
565947	208 276	0.25	0.006	2.61	11240
565948	208 273	0.08	0.015	0.10	12120
565949	208 273	0.47	0.016	0.17	12680
565950	208 273	0.12	0.019	0.58	12860
565951	208 273	0.16	0.020	0.10	11900
565952	208 273	0.09	0.019	0.10	12000
565953	208 273	0.09	0.028	0.10	12640
565954	208 276	0.07	0.015	0.07	10500
565955	208 273	0.03	0.007	0.10	14120
565956	208 273	0.07	0.013	0.10	12860
565957	208 276	0.06	0.014	0.03	11520
565958	208 276	0.08	0.012	0.10	10560
565959	208 273	0.09	0.015	0.07	11880
565960	208 273	0.17	0.032	0.14	12860
565961	208 273	0.09	0.012	0.07	11940
565962	208 273	0.09	0.017	0.07	12300
565963	208 273	0.09	0.011	0.03	12600
565964	208 276	0.12	0.026	0.10	11800
565965	208 276	0.10	0.040	0.10	11460
565966	208 276	0.13	0.028	0.17	11620

CERTIFICATION: Said Tetrault

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-OCT-93
Invoice No. :19323189
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323189

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
565967	208 273	0.11	0.018	0.10	12500
565968	208 276	0.06	0.013	0.07	11420
565969	208 273	0.12	0.097	0.10	12720
565970	208 276	0.08	0.018	0.07	11700
565971	208 273	0.08	0.012	0.21	12160
565972	208 273	0.06	0.022	< 0.03	11900
565973	208 276	0.10	0.030	0.07	11260
565974	208 273	0.10	0.025	0.03	13360
565975	208 273	0.05	0.024	< 0.03	13180
565976	208 273	0.05	0.027	0.07	12860
565977	208 273	0.14	0.037	0.34	12800
565978	208 273	0.03	0.014	0.07	12620
565979	208 273	0.05	0.019	0.27	12360
565980	208 273	0.11	0.008	0.17	12140
565981	208 276	0.06	0.013	0.07	11460
565982	208 276	0.03	0.009	0.07	10100
565983	208 276	0.05	0.010	0.10	10900
565984	208 276	0.03	0.010	< 0.03	11460
565985	208 276	0.04	0.011	0.03	10220
565986	208 276	0.07	0.020	0.07	10800
565987	208 276	0.06	0.031	0.07	11100
565988	208 273	0.04	0.028	0.07	13200
565989	208 273	0.03	0.035	0.03	15540
565990	208 273	0.09	0.018	0.10	14200
565991	208 273	0.08	0.039	0.07	13460
565992	208 273	0.10	0.036	0.10	14580
565993	208 273	0.04	0.024	0.03	14840
565994	208 276	0.06	0.020	< 0.03	7720

CERTIFICATION: Brit Thomas

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

)CHER CATHRO & ASSOC. (1981) LTD.
ITN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-OCT-93
Invoice No. : I9323190
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323190

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565887	299	229	>200	2.14	< 2	180	0.5	< 2	0.02	< 0.5	1	92	397	4.34	10	< 1	0.71	20	0.51	50	136
565888	299	229	>200	2.19	< 2	310	< 0.5	< 2	0.03	< 0.5	3	95	522	5.25	10	< 1	0.66	20	0.53	55	151
565889	299	229	93.2	1.59	22	270	0.5	< 2	0.02	< 0.5	2	71	434	3.92	10	< 1	0.58	30	0.38	35	69
565890	299	229	50.2	1.63	2	180	0.5	< 2	0.02	< 0.5	2	62	383	3.86	10	< 1	0.61	30	0.50	45	66
565891	299	229	55.0	2.06	14	220	0.5	< 2	0.04	< 0.5	3	78	513	4.57	10	< 1	0.75	20	0.75	65	66
565892	299	229	32.2	2.74	< 2	180	< 0.5	< 2	0.04	0.5	2	85	500	4.84	10	< 1	0.71	10	0.98	85	79
565893	299	229	24.2	2.51	< 2	190	< 0.5	< 2	0.03	0.5	4	109	446	4.81	10	< 1	0.81	20	0.80	65	194
565894	299	229	40.8	2.78	< 2	150	< 0.5	< 2	0.04	< 0.5	9	113	564	5.24	10	< 1	0.86	40	0.95	70	180
565895	299	229	19.0	2.70	< 2	130	0.5	4	0.08	0.5	13	134	627	5.23	10	< 1	1.01	30	0.74	65	100
565896	299	229	12.6	2.71	48	150	0.5	< 2	0.21	0.5	11	101	966	4.98	10	< 1	0.89	20	0.90	105	74
565897	299	229	15.0	2.65	14	150	< 0.5	< 2	0.59	0.5	17	119	1200	3.85	10	< 1	0.87	20	1.37	235	57
565898	299	229	45.0	2.67	8	140	0.5	< 2	0.40	0.5	16	141	1440	4.44	10	< 1	1.02	20	0.73	95	105
565899	299	229	12.4	2.66	2	100	0.5	< 2	0.30	0.5	17	161	1410	4.10	10	< 1	0.85	20	0.46	65	131
565900	299	229	7.2	2.26	2	90	0.5	< 2	0.18	0.5	19	118	2630	4.24	< 10	< 1	0.77	10	0.50	90	139
565901	299	229	8.6	2.42	< 2	40	0.5	< 2	0.34	1.5	31	150	3130	6.12	10	< 1	0.96	20	0.57	455	202
565902	299	229	12.4	2.37	2	90	< 0.5	< 2	0.47	0.5	25	119	2150	4.62	10	< 1	0.72	20	0.96	270	154
565903	299	229	5.6	2.31	< 2	70	< 0.5	< 2	0.29	0.5	34	127	2460	6.23	10	< 1	0.69	20	1.18	360	289
565904	299	229	8.4	2.11	< 2	80	< 0.5	< 2	0.24	1.5	31	110	2340	6.90	10	< 1	0.59	20	1.16	270	251
565905	299	229	4.2	2.32	< 2	110	< 0.5	< 2	0.30	1.0	20	109	1465	4.86	10	< 1	0.74	20	1.56	395	386
565906	299	229	3.2	2.22	< 2	110	< 0.5	< 2	0.38	0.5	24	104	906	5.04	10	< 1	0.71	20	1.43	320	175
565907	299	229	3.2	2.44	< 2	110	< 0.5	< 2	0.29	1.5	32	111	1700	5.74	10	< 1	0.79	20	1.41	325	172
565908	299	229	2.8	2.70	< 2	80	< 0.5	< 2	0.22	1.0	26	84	2320	5.72	10	< 1	0.99	20	1.66	275	251
565909	299	229	3.2	2.79	< 2	100	< 0.5	< 2	0.25	1.5	24	107	2880	5.59	10	< 1	0.86	10	1.58	235	231
565910	299	229	3.0	2.49	2	120	< 0.5	< 2	0.21	1.0	22	100	1695	5.11	10	< 1	0.92	20	1.40	310	134
565911	299	229	1.0	2.18	12	90	< 0.5	4	0.17	< 0.5	28	79	2330	7.17	10	< 1	0.81	20	1.28	220	167
565912	299	229	1.6	2.25	< 2	80	< 0.5	< 2	0.14	0.5	24	113	2460	5.48	10	< 1	0.83	10	1.09	120	244
565913	299	229	0.8	1.70	< 2	60	< 0.5	< 2	0.13	1.0	19	82	2030	6.01	10	< 1	0.66	20	0.98	120	170
565914	299	229	1.4	2.09	6	30	< 0.5	< 2	0.19	1.0	23	96	2460	7.30	10	< 1	0.86	20	0.80	190	90
565915	299	229	1.6	1.48	< 2	60	< 0.5	< 2	0.20	1.5	21	71	2590	5.48	10	< 1	0.39	10	0.82	215	151
565916	299	229	1.6	1.76	2	90	< 0.5	< 2	0.20	1.0	25	91	2350	5.91	10	< 1	0.59	20	0.96	375	164
565917	299	229	2.0	1.12	< 2	90	< 0.5	< 2	0.59	1.0	26	67	2720	6.51	10	< 1	0.45	20	0.79	455	223
565918	299	229	3.0	1.86	40	40	< 0.5	< 2	0.39	1.5	34	91	3400	7.21	10	< 1	0.70	10	0.71	590	274
565919	299	229	5.8	1.29	282	40	< 0.5	< 2	0.46	3.0	36	59	3000	6.66	10	< 1	0.52	20	0.63	1050	169
565920	299	229	2.4	1.57	< 2	80	< 0.5	< 2	0.44	1.5	25	73	2420	7.15	10	< 1	0.65	10	0.79	490	222
565921	299	229	2.0	1.34	< 2	60	< 0.5	< 2	0.24	1.0	23	57	2150	6.53	10	< 1	0.51	20	0.98	340	114
565922	299	229	1.8	2.13	< 2	90	< 0.5	< 2	0.24	1.5	24	86	1860	6.40	10	< 1	0.94	20	1.25	480	160
565923	299	229	2.0	1.48	4	50	< 0.5	< 2	0.20	1.0	28	70	2130	6.71	10	< 1	0.60	20	1.03	390	412
565924	299	229	1.6	1.41	< 2	60	< 0.5	< 2	0.29	1.0	20	74	1770	6.22	10	< 1	0.57	10	1.08	300	151
565925	299	229	1.8	1.25	4	70	< 0.5	< 2	0.24	1.5	24	109	1985	6.88	< 10	< 1	0.53	10	0.81	270	347
565926	299	229	1.2	1.37	< 2	80	< 0.5	< 2	0.27	1.0	23	89	1310	6.10	10	< 1	0.57	10	0.94	385	156

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ...CHER CATHRO & ASSOC. (1981) LTD.
...ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-OCT-93
Invoice No. : I9323190
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323190

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565887	299	229	0.07	8	720	18	2	3	51	< 0.01	< 10	< 10	33	20	28
565888	299	229	0.14	9	830	18	4	3	87	0.01	< 10	< 10	35	20	32
565889	299	229	0.09	7	740	18	< 2	2	74	< 0.01	< 10	< 10	25	10	28
565890	299	229	0.09	9	680	14	2	2	60	< 0.01	< 10	< 10	23	10	24
565891	299	229	0.15	9	770	12	2	3	67	0.01	< 10	< 10	28	10	30
565892	299	229	0.14	11	810	18	2	3	57	0.01	< 10	< 10	35	10	34
565893	299	229	0.16	10	960	20	2	3	42	< 0.01	< 10	< 10	28	10	28
565894	299	229	0.19	12	1070	18	< 2	3	42	< 0.01	< 10	< 10	27	10	26
565895	299	229	0.14	13	850	22	2	3	38	< 0.01	< 10	< 10	27	10	30
565896	299	229	0.11	17	900	20	2	4	51	0.03	< 10	< 10	38	10	58
565897	299	229	0.11	20	850	14	6	4	39	0.04	< 10	< 10	40	10	46
565898	299	229	0.13	17	790	12	2	3	38	0.02	< 10	< 10	34	10	34
565899	299	229	0.11	16	580	20	4	3	28	0.01	< 10	< 10	27	10	30
565900	299	229	0.06	22	510	18	< 2	3	16	0.01	< 10	< 10	25	< 10	40
565901	299	229	0.05	22	580	18	4	3	15	0.01	< 10	< 10	27	< 10	86
565902	299	229	0.06	21	850	12	< 2	4	18	0.03	< 10	< 10	38	< 10	56
565903	299	229	0.06	21	740	22	2	4	16	0.03	< 10	< 10	42	10	70
565904	299	229	0.06	21	690	18	4	4	14	0.02	< 10	< 10	42	10	62
565905	299	229	0.07	19	870	24	4	5	19	0.06	< 10	< 10	49	10	68
565906	299	229	0.07	16	780	20	< 2	5	20	0.06	< 10	< 10	48	10	56
565907	299	229	0.07	18	740	24	4	5	21	0.07	< 10	< 10	50	10	70
565908	299	229	0.05	19	700	20	6	5	15	0.08	< 10	< 10	53	10	52
565909	299	229	0.07	18	820	18	2	5	19	0.07	< 10	< 10	53	20	40
565910	299	229	0.07	16	700	28	2	5	15	0.07	< 10	< 10	55	10	46
565911	299	229	0.03	17	630	26	4	3	9	0.06	< 10	< 10	42	10	34
565912	299	229	0.04	14	550	22	< 2	3	11	0.05	< 10	< 10	42	10	18
565913	299	229	0.02	14	470	22	4	2	8	0.05	< 10	< 10	30	10	22
565914	299	229	0.04	16	690	24	4	3	10	0.03	< 10	< 10	27	10	42
565915	299	229	0.03	13	700	26	2	2	7	0.02	< 10	< 10	34	< 10	40
565916	299	229	0.06	13	540	16	4	4	11	0.03	< 10	< 10	43	10	54
565917	299	229	0.02	14	550	10	6	3	16	0.02	< 10	< 10	30	10	36
565918	299	229	0.02	18	530	38	14	4	22	0.02	< 10	< 10	45	10	76
565919	299	229	0.01	19	610	54	44	3	11	0.01	< 10	< 10	34	10	130
565920	299	229	0.03	15	590	26	4	3	15	0.01	< 10	< 10	33	10	58
565921	299	229	0.02	15	500	16	4	3	9	0.04	< 10	< 10	37	10	54
565922	299	229	0.07	16	560	18	4	6	14	0.07	< 10	< 10	57	10	78
565923	299	229	0.02	16	590	20	4	4	8	0.04	< 10	< 10	39	10	94
565924	299	229	0.02	16	480	12	< 2	4	10	0.06	< 10	< 10	49	10	52
565925	299	229	0.02	12	440	18	4	4	9	0.04	< 10	< 10	48	20	48
565926	299	229	0.03	13	560	14	6	4	11	0.04	< 10	< 10	46	20	62

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

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:CHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page I -A
Total Pages .3
Certificate Date: 26-OCT-93
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Account : FC

CERTIFICATE OF ANALYSIS A9323190

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565927	299	229	0.6	0.92	30	60	< 0.5	4	0.75	0.5	19	70	876	7.03	10	< 1	0.39	10	0.96	465	75
565928	299	229	0.8	0.84	104	50	< 0.5	< 2	0.42	0.5	18	102	1075	8.28	10	< 1	0.39	< 10	0.74	1210	85
565929	299	229	0.4	0.55	18	60	< 0.5	2	0.59	0.5	16	95	591	6.06	< 10	< 1	0.28	< 10	0.67	520	61
565930	299	229	0.8	0.93	6	80	< 0.5	4	0.53	0.5	16	111	891	5.32	< 10	< 1	0.51	< 10	0.83	315	119
565931	299	229	0.4	1.14	< 2	70	< 0.5	2	0.46	< 0.5	13	71	503	5.04	10	< 1	0.50	10	0.97	290	169
565932	299	229	0.2	1.28	< 2	80	< 0.5	2	0.37	0.5	15	129	587	6.87	10	< 1	0.58	10	0.96	235	151
565933	299	229	0.8	1.69	< 2	70	< 0.5	2	0.25	1.0	16	63	932	7.17	10	< 1	0.71	10	1.32	310	124
565934	299	229	0.8	1.63	2	80	< 0.5	2	0.27	0.5	34	88	758	7.65	10	< 1	0.64	10	1.06	290	68
565935	299	229	3.2	1.02	14	30	< 0.5	6	0.57	4.0	44	53	1195	7.41	10	< 1	0.48	10	0.88	510	96
565936	299	229	0.8	0.95	32	50	< 0.5	< 2	0.61	3.0	16	86	557	6.65	< 10	< 1	0.51	< 10	0.68	485	60
565937	299	229	0.2	0.71	< 2	50	< 0.5	< 2	0.46	1.0	18	72	419	9.75	10	< 1	0.35	< 10	0.55	480	53
565938	299	229	0.6	1.07	< 2	70	< 0.5	2	0.70	1.0	18	88	862	4.71	< 10	< 1	0.57	10	0.65	330	122
565939	299	229	0.8	0.89	< 2	30	< 0.5	< 2	0.47	4.0	38	82	920	7.78	< 10	< 1	0.50	< 10	0.57	545	183
565940	299	229	0.4	1.30	8	80	< 0.5	2	0.51	1.0	20	109	833	5.77	< 10	< 1	0.69	< 10	0.74	355	115
565941	299	229	0.2	0.81	< 2	50	< 0.5	6	0.51	0.5	20	63	706	6.66	< 10	< 1	0.38	< 10	0.77	255	39
565942	299	229	0.2	1.14	< 2	60	< 0.5	< 2	0.56	0.5	16	119	457	6.25	< 10	< 1	0.65	< 10	0.80	305	74
565943	299	229	0.6	0.66	< 2	60	< 0.5	4	0.53	1.0	16	68	794	6.52	< 10	< 1	0.38	< 10	0.74	385	96
565944	299	229	1.0	1.13	8	70	0.5	4	0.57	< 0.5	22	67	1395	5.90	< 10	< 1	0.44	10	0.86	310	125
565945	299	229	0.8	0.41	16	40	< 0.5	6	0.80	0.5	19	53	928	6.51	< 10	< 1	0.23	10	0.75	590	74
565946	299	229	1.2	0.61	20	40	< 0.5	6	0.56	2.5	12	86	731	5.62	< 10	< 1	0.39	< 10	0.70	645	83
565947	299	229	14.0	0.48	74	20	< 0.5	280	0.84	11.5	16	85	2510	7.52	< 10	< 1	0.31	< 10	0.54	1125	28
565948	299	229	0.6	0.58	4	60	< 0.5	< 2	0.75	0.5	18	116	795	5.84	< 10	< 1	0.33	< 10	0.63	595	74
565949	299	229	4.0	0.41	12	30	< 0.5	130	0.70	1.0	9	85	4760	7.39	< 10	< 1	0.24	< 10	0.56	350	85
565950	299	229	4.4	0.70	104	40	0.5	2	0.97	1.0	16	86	1170	6.81	< 10	< 1	0.39	< 10	0.71	500	100
565951	299	229	2.0	0.63	2	40	< 0.5	10	0.76	< 0.5	15	81	1600	6.85	< 10	< 1	0.28	< 10	0.72	165	105
565952	299	229	0.6	1.48	< 2	90	< 0.5	2	0.78	< 0.5	18	113	896	5.80	10	< 1	0.43	10	1.02	140	109
565953	299	229	0.6	0.64	6	80	< 0.5	2	0.74	< 0.5	14	99	926	5.78	< 10	< 1	0.30	< 10	0.75	130	172
565954	299	229	0.4	0.88	6	60	< 0.5	< 2	0.66	0.5	10	121	655	6.41	< 10	< 1	0.47	< 10	0.70	345	81
565955	299	229	0.2	0.59	16	50	< 0.5	50	1.10	1.0	11	70	346	6.63	< 10	< 1	0.35	< 10	0.82	740	35
565956	299	229	0.6	0.73	32	20	< 0.5	200	0.43	12.5	14	119	686	9.40	< 10	< 1	0.40	< 10	0.58	1420	68
565957	299	229	0.2	1.28	< 2	70	0.5	< 2	0.44	< 0.5	16	95	587	7.19	10	< 1	0.38	10	0.93	345	73
565958	299	229	0.4	0.66	< 2	70	0.5	20	0.56	0.5	15	61	739	5.41	< 10	< 1	0.20	10	0.67	220	61
565959	299	229	0.6	0.32	24	40	0.5	< 2	0.40	2.0	17	72	852	3.67	< 10	< 1	0.18	10	0.15	195	87
565960	299	229	1.4	0.48	< 2	60	< 0.5	6	0.31	2.0	26	77	1715	8.04	< 10	< 1	0.29	10	0.18	250	177
565961	299	229	0.6	0.44	2	60	0.5	< 2	0.74	1.0	15	50	912	5.07	< 10	< 1	0.23	< 10	0.61	205	60
565962	299	229	0.6	0.94	6	40	< 0.5	< 2	0.63	< 0.5	17	67	939	7.62	< 10	< 1	0.51	10	0.76	245	85
565963	299	229	0.8	0.93	2	50	< 0.5	< 2	0.43	0.5	13	70	856	6.74	< 10	< 1	0.39	< 10	0.80	280	61
565964	299	229	1.0	1.50	8	90	< 0.5	< 2	0.24	0.5	17	105	1160	5.70	< 10	< 1	0.57	10	0.94	310	138
565965	299	229	0.6	1.06	4	60	0.5	< 2	0.22	< 0.5	13	84	971	5.74	< 10	< 1	0.36	< 10	0.80	260	247
565966	299	229	0.8	1.44	2	90	< 0.5	< 2	0.42	0.5	19	88	1210	7.50	10	< 1	0.63	10	0.88	220	143

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

.o ;CHER CATHRO & ASSOC. (1981) LTD.
.ITN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :3
Certificate Date: 26-OCT-93
Invoice No. :I9323190
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323190

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565927	299	229	0.02	14	650	16	< 2	3	16	0.02	< 10	< 10	46	20	48
565928	299	229	0.01	15	510	26	4	4	15	0.01	< 10	< 10	47	30	52
565929	299	229	0.01	9	530	14	2	3	14	0.02	< 10	< 10	34	40	40
565930	299	229	0.03	11	490	14	2	6	17	0.04	< 10	< 10	40	10	36
565931	299	229	0.02	11	720	10	4	4	14	0.06	< 10	< 10	38	10	48
565932	299	229	0.03	15	560	22	2	5	14	0.05	< 10	< 10	52	20	32
565933	299	229	0.02	15	760	16	2	7	8	0.09	< 10	< 10	70	30	38
565934	299	229	0.03	15	530	16	4	4	11	0.05	< 10	< 10	53	30	36
565935	299	229	0.01	16	790	376	16	3	15	0.03	< 10	< 10	28	20	148
565936	299	229	0.02	12	510	84	6	3	17	0.02	< 10	< 10	29	20	154
565937	299	229	0.01	14	470	24	4	3	12	0.02	< 10	< 10	76	30	80
565938	299	229	0.02	12	650	14	2	2	19	0.02	< 10	< 10	22	10	54
565939	299	229	0.01	13	470	22	4	2	11	0.01	< 10	< 10	16	40	98
565940	299	229	0.02	11	510	14	2	2	15	0.02	< 10	< 10	24	20	76
565941	299	229	0.01	13	520	8	2	2	14	0.02	< 10	< 10	28	20	40
565942	299	229	0.02	13	370	12	4	3	17	0.03	< 10	< 10	25	20	52
565943	299	229	0.01	11	460	6	2	2	14	0.01	< 10	< 10	28	10	78
565944	299	229	0.02	13	560	2	4	2	15	0.01	< 10	< 10	29	10	42
565945	299	229	0.01	12	560	< 2	18	2	16	< 0.01	< 10	< 10	23	20	78
565946	299	229	0.01	10	450	92	6	2	17	0.01	< 10	< 10	26	10	160
565947	299	229	< 0.01	12	520	490	84	1	16	< 0.01	< 10	< 10	17	20	396
565948	299	229	0.01	11	400	6	4	1	21	< 0.01	< 10	< 10	22	10	72
565949	299	229	0.01	10	450	36	4	1	17	< 0.01	< 10	< 10	25	< 10	34
565950	299	229	0.01	12	530	1295	8	2	24	< 0.01	< 10	< 10	27	< 10	46
565951	299	229	0.01	11	560	6	2	2	21	0.01	< 10	< 10	39	< 10	12
565952	299	229	0.04	12	660	2	4	2	23	0.01	< 10	< 10	38	< 10	8
565953	299	229	0.02	11	430	< 2	4	2	23	0.01	< 10	< 10	34	10	10
565954	299	229	0.02	12	390	24	2	2	21	0.01	< 10	< 10	34	10	60
565955	299	229	0.01	11	500	18	2	2	27	< 0.01	< 10	< 10	28	20	70
565956	299	229	0.01	12	400	176	4	2	12	< 0.01	< 10	< 10	35	< 10	576
565957	299	229	0.03	11	620	< 2	4	3	16	0.01	< 10	< 10	49	10	64
565958	299	229	0.01	11	540	< 2	< 2	1	15	< 0.01	< 10	< 10	31	10	60
565959	299	229	0.01	6	530	12	8	< 1	9	< 0.01	< 10	< 10	7	< 10	48
565960	299	229	0.02	13	350	< 2	4	1	12	< 0.01	< 10	< 10	43	10	74
565961	299	229	0.01	11	600	2	4	1	19	< 0.01	< 10	< 10	27	< 10	38
565962	299	229	0.02	12	680	4	2	2	20	0.01	< 10	< 10	33	10	32
565963	299	229	0.01	10	540	6	4	2	13	0.02	< 10	< 10	37	10	56
565964	299	229	0.03	14	500	< 2	4	3	11	0.03	< 10	< 10	43	< 10	78
565965	299	229	0.02	12	410	< 2	4	2	9	0.03	< 10	< 10	45	< 10	56
565966	299	229	0.03	15	590	2	2	3	16	0.03	< 10	< 10	42	20	42

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

RCHER CATHRO & ASSOC. (1981) LTD.
ITN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-OCT-93
Invoice No. : I9323190
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323190

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
565967	299	229	0.6	1.49	< 2	80	< 0.5	2	0.35	< 0.5	22	94	1100	7.09	10	< 1	0.61	10	0.78	230	97
565968	299	229	0.2	1.47	8	110	< 0.5	< 2	0.34	< 0.5	16	143	641	8.33	10	< 1	0.60	10	0.85	235	75
565969	299	229	0.8	1.52	< 2	50	< 0.5	4	0.52	< 0.5	21	92	1150	7.16	10	< 1	0.71	10	0.97	210	495
565970	299	229	0.6	0.24	2	30	< 0.5	< 2	0.33	< 0.5	15	79	785	5.02	< 10	< 1	0.12	< 10	0.23	155	102
565971	299	229	0.4	0.70	4	50	0.5	< 2	0.53	< 0.5	17	62	784	5.05	< 10	< 1	0.29	10	0.68	185	65
565972	299	229	0.4	1.01	8	60	< 0.5	< 2	0.80	< 0.5	15	90	626	5.91	< 10	< 1	0.61	< 10	0.85	200	118
565973	299	229	0.8	0.49	2	60	< 0.5	< 2	1.09	< 0.5	18	55	1030	3.56	< 10	< 1	0.27	< 10	0.47	205	241
565974	299	229	0.6	0.64	4	50	0.5	< 2	1.15	< 0.5	18	97	990	5.65	< 10	< 1	0.31	< 10	0.59	245	134
565975	299	229	1.8	0.52	62	20	< 0.5	< 2	1.17	2.5	15	56	533	4.93	< 10	< 1	0.23	< 10	0.50	1045	131
565976	299	229	36.6	0.32	50	20	< 0.5	< 2	1.05	32.0	11	75	526	6.33	< 10	< 1	0.17	< 10	0.56	970	141
565977	299	229	128.5	0.58	82	30	< 0.5	4	0.78	>100.0	13	109	1370	5.77	< 10	< 1	0.31	< 10	0.46	640	202
565978	299	229	0.8	1.06	42	50	< 0.5	< 2	0.90	0.5	9	90	348	8.06	< 10	< 1	0.34	< 10	0.70	715	79
565979	299	229	3.4	0.40	32	20	< 0.5	20	0.83	11.0	8	67	523	5.66	< 10	< 1	0.16	< 10	0.49	410	107
565980	299	229	32.6	0.69	214	40	< 0.5	140	0.71	7.0	9	95	1160	5.60	< 10	< 1	0.31	< 10	0.47	385	42
565981	299	229	0.6	0.39	< 2	50	< 0.5	< 2	0.65	< 0.5	12	78	648	4.67	< 10	< 1	0.19	< 10	0.53	130	92
565982	299	229	0.2	1.38	< 2	80	< 0.5	< 2	0.60	< 0.5	10	82	301	4.65	10	< 1	0.45	10	1.05	180	49
565983	299	229	0.4	1.38	4	80	< 0.5	4	0.58	< 0.5	11	62	511	4.56	10	< 1	0.48	10	1.17	195	52
565984	299	229	< 0.2	1.15	4	80	< 0.5	< 2	0.60	< 0.5	12	102	363	6.29	10	< 1	0.48	< 10	0.94	205	64
565985	299	229	0.2	1.17	< 2	50	< 0.5	< 2	0.47	< 0.5	13	70	396	5.70	10	< 1	0.34	10	1.10	240	56
565986	299	229	0.4	0.78	4	70	< 0.5	< 2	0.74	< 0.5	15	80	713	4.90	< 10	< 1	0.32	10	0.79	260	117
565987	299	229	0.4	0.57	6	80	0.5	2	0.94	< 0.5	12	67	671	6.15	< 10	< 1	0.33	10	0.87	250	184
565988	299	229	0.4	0.82	4	80	< 0.5	4	1.00	< 0.5	10	77	454	4.84	< 10	< 1	0.50	< 10	0.96	395	159
565989	299	229	0.2	0.53	< 2	50	< 0.5	4	0.77	< 0.5	11	103	272	7.33	< 10	< 1	0.34	< 10	0.77	185	180
565990	299	229	12.6	0.63	42	60	< 0.5	< 2	1.07	17.0	18	74	901	5.84	< 10	< 1	0.38	< 10	0.88	895	93
565991	299	229	0.6	0.88	< 2	70	0.5	4	0.72	< 0.5	14	112	849	5.49	10	< 1	0.47	20	0.93	185	216
565992	299	229	0.8	1.23	< 2	90	0.5	< 2	0.81	< 0.5	19	161	1080	6.76	10	< 1	0.55	10	0.89	245	197
565993	299	229	0.2	0.89	< 2	80	< 0.5	< 2	0.60	0.5	11	186	422	6.60	10	< 1	0.41	< 10	0.75	235	124
565994	299	229	< 0.2	2.01	< 2	100	< 0.5	< 2	0.42	< 0.5	37	156	624	9.33	10	< 1	1.03	10	1.57	245	102

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ;HER CATHRO & ASSOC. (1981) LTD.
ıN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 225
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-OCT-93
Invoice No. : I9323190
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323190

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
565967	299	229	0.04	11	510	2	2	2	14	0.02	< 10	< 10	38	10	40
565968	299	229	0.03	12	490	< 2	< 2	3	14	0.03	< 10	< 10	56	20	40
565969	299	229	0.03	14	570	< 2	6	3	19	0.04	< 10	< 10	44	20	30
565970	299	229	0.01	10	240	< 2	4	< 1	9	< 0.01	< 10	< 10	17	10	34
565971	299	229	0.01	11	480	2	4	1	16	0.01	< 10	< 10	31	10	28
565972	299	229	0.02	9	500	6	4	5	25	0.04	< 10	< 10	47	20	38
565973	299	229	0.01	10	630	2	4	1	23	< 0.01	< 10	< 10	11	10	54
565974	299	229	0.01	12	380	6	4	1	25	< 0.01	< 10	< 10	28	10	28
565975	299	229	< 0.01	12	520	36	8	2	17	< 0.01	< 10	< 10	18	10	96
565976	299	229	< 0.01	10	460	110	40	2	16	< 0.01	< 10	< 10	24	20	736
565977	299	229	0.01	12	290	656	116	2	15	< 0.01	< 10	< 10	20	40	9000
565978	299	229	0.01	12	500	2	4	3	24	0.01	< 10	< 10	39	20	46
565979	299	229	< 0.01	7	330	152	16	1	14	< 0.01	< 10	< 10	19	10	594
565980	299	229	0.01	9	350	330	122	2	14	< 0.01	< 10	< 10	24	10	174
565981	299	229	0.01	8	300	< 2	2	1	17	0.01	< 10	< 10	23	10	30
565982	299	229	0.03	12	650	< 2	4	4	23	0.04	< 10	< 10	47	10	24
565983	299	229	0.02	12	710	< 2	2	4	19	0.07	< 10	< 10	43	10	22
565984	299	229	0.03	11	400	< 2	4	3	23	0.04	< 10	< 10	45	10	46
565985	299	229	0.02	12	620	2	2	3	16	0.03	< 10	< 10	49	10	34
565986	299	229	0.04	13	600	< 2	2	3	26	0.01	< 10	< 10	33	10	56
565987	299	229	0.01	13	520	< 2	2	3	27	0.03	< 10	< 10	43	10	22
565988	299	229	0.03	11	610	20	4	3	35	0.03	< 10	< 10	31	40	42
565989	299	229	0.02	13	370	< 2	6	3	30	0.01	< 10	< 10	37	30	20
565990	299	229	0.02	11	510	404	46	3	29	0.02	< 10	< 10	31	20	746
565991	299	229	0.03	14	550	2	4	4	26	0.04	< 10	< 10	46	10	18
565992	299	229	0.04	16	550	2	4	4	32	0.02	< 10	< 10	50	10	20
565993	299	229	0.05	11	430	14	< 2	3	28	0.01	< 10	< 10	45	10	42
565994	299	229	0.06	21	610	< 2	4	13	19	0.12	< 10	< 10	111	20	26

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 226
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :2
Certificate Date: 29-OCT-93
Invoice No. :I9323191
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323191

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
589248	208 274	< 0.01	0.002	0.07	4300
589249	208 276	< 0.01	0.001	0.03	9620
589250	208 276	0.01	0.003	0.03	10860
589251	208 276	0.04	0.003	0.07	10120
589252	208 276	0.16	0.002	0.10	11360
589253	208 276	0.15	0.002	0.07	9920
589254	208 273	0.17	0.001	0.10	12860
589255	208 273	0.16	0.020	0.10	12940
589256	208 276	0.15	0.011	0.10	10240
589257	208 273	0.16	0.059	< 0.03	12020
589258	208 276	0.16	0.008	0.07	10700
589259	208 276	0.18	0.004	0.07	11080
589260	208 273	0.21	0.002	< 0.03	12560
589261	208 276	0.17	0.004	0.07	11340
589262	208 276	0.29	0.006	0.07	8840
589263	208 276	0.21	0.002	< 0.03	10620
589264	208 276	0.21	0.002	< 0.03	10240
589265	208 276	0.10	0.002	0.07	9780
589266	208 273	0.15	0.003	0.10	12100
589267	208 273	0.10	0.043	< 0.03	11900
589268	208 273	0.10	0.003	0.03	13700
589269	208 276	0.06	0.005	0.03	7580
589270	208 276	0.07	0.002	0.10	9900
589271	208 276	0.07	0.001	0.07	11000
589272	208 273	0.06	0.003	0.03	13800
589273	208 276	0.13	0.003	0.14	10600
589274	208 276	0.11	0.006	0.07	10140
589275	208 276	0.07	0.002	0.07	11100
589276	208 273	0.05	0.006	0.03	12200
589277	208 276	0.06	0.005	0.07	9840
589278	208 276	0.06	0.004	< 0.03	10680
589279	208 276	0.08	0.003	0.03	8960
589280	208 276	0.07	0.012	0.03	9280
589281	208 276	0.07	0.004	< 0.03	11280
589282	208 276	0.05	0.005	< 0.03	10560
589283	208 276	< 0.01	0.001	< 0.03	11320
589284	208 273	0.01	0.001	< 0.03	12240
589285	208 273	0.11	0.001	0.03	12440
589286	208 273	0.05	0.002	0.07	11940
589287	208 273	0.08	0.009	0.10	13580

CERTIFICATION: Saeed Teerab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO 226
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 29-OCT-93
Invoice No. : I9323191
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323191

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589288	208	276	0.11	0.015	0.07	11420						
589289	208	276	0.05	0.002	0.07	11320						
589290	208	276	0.02	0.001	0.03	10080						
589291	208	276	0.01	< 0.001	< 0.03	7500						
589292	208	276	0.07	0.002	0.14	9340						
589293	208	276	0.08	0.002	0.10	11280						
589294	208	276	0.04	0.003	0.21	9180						
589295	208	273	< 0.01	0.001	< 0.03	13260						
589296	208	273	< 0.01	0.001	< 0.03	12940						
589297	208	273	0.01	0.002	0.07	14440						
589298	208	273	0.02	0.001	< 0.03	13920						
589299	208	273	0.01	< 0.001	< 0.03	12080						
589300	208	273	< 0.01	< 0.001	< 0.03	14400						
589301	208	276	0.01	< 0.001	< 0.03	10320						
589302	208	276	0.01	< 0.001	< 0.03	10800						
589303	208	273	0.02	< 0.001	< 0.03	13160						
589304	208	273	0.02	< 0.001	< 0.03	13460						
589305	208	273	0.02	< 0.001	< 0.03	12640						
589306	208	273	0.02	< 0.001	< 0.03	13080						
589307	208	273	0.02	< 0.001	0.10	13740						
589308	208	273	0.02	< 0.001	0.10	15180						
589309	208	273	0.01	< 0.001	< 0.03	13680						
589310	208	273	0.01	< 0.001	0.07	13600						
589311	208	273	0.02	< 0.001	0.03	13020						
589312	208	274	0.02	< 0.001	< 0.03	1344						
589313	208	273	0.02	< 0.001	0.03	13860						
589314	208	273	0.02	< 0.001	0.10	13740						
589315	208	273	0.02	< 0.001	< 0.03	11920						
589316	208	273	0.02	< 0.001	0.03	15560						
589317	208	273	0.02	0.002	< 0.03	13440						
589318	208	273	0.02	< 0.001	< 0.03	13540						
589319	208	276	0.02	0.001	< 0.03	11280						
589320	208	273	0.01	< 0.001	< 0.03	12820						
589321	208	273	0.03	< 0.001	< 0.03	14140						
589322	208	273	0.01	< 0.001	< 0.03	12800						
589323	208	273	0.03	< 0.001	< 0.03	13880						
589324	208	273	0.02	< 0.001	0.07	13400						
589325	208	273	0.02	< 0.001	< 0.03	13240						
589326	208	273	0.02	< 0.001	< 0.03	13520						

CERTIFICATION: Barb Tetrault

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 226
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :2
Certificate Date: 26-OCT-93
Invoice No. :I9323192
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323192

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589248	299	229	0.4	0.90	10	150	< 0.5	< 2	0.07	< 0.5	5	54	16	1.15	< 10	< 1	0.17	20	0.03	10	9
589249	299	229	0.4	0.70	6	90	< 0.5	2	0.12	< 0.5	15	66	62	2.42	< 10	< 1	0.34	< 10	0.19	60	7
589250	299	229	0.2	0.33	20	40	< 0.5	4	0.02	< 0.5	19	74	155	3.73	< 10	< 1	0.17	10	0.01	5	19
589251	299	229	0.4	0.69	30	40	< 0.5	< 2	0.04	< 0.5	16	61	377	3.44	< 10	< 1	0.22	20	0.02	5	17
589252	299	229	0.4	0.68	28	20	< 0.5	4	0.10	< 0.5	27	24	1675	5.48	< 10	< 1	0.12	20	0.04	10	15
589253	299	229	0.2	1.32	20	30	< 0.5	4	0.22	< 0.5	21	45	1525	4.20	< 10	< 1	0.25	10	0.19	30	12
589254	299	229	0.4	1.63	16	30	< 0.5	6	0.27	< 0.5	25	60	1720	4.44	< 10	< 1	0.28	20	0.19	30	8
589255	299	229	0.4	0.89	68	40	< 0.5	6	0.14	< 0.5	34	40	1535	5.35	< 10	< 1	0.28	10	0.04	5	107
589256	299	229	0.2	1.37	40	30	< 0.5	4	0.12	< 0.5	73	103	1615	4.84	< 10	< 1	0.42	10	0.07	10	64
589257	299	229	0.4	0.71	26	40	< 0.5	8	0.06	< 0.5	35	56	1660	4.71	< 10	< 1	0.16	10	0.02	5	344
589258	299	229	0.4	0.96	34	20	< 0.5	2	0.06	< 0.5	51	101	1700	5.34	< 10	< 1	0.33	10	0.04	5	42
589259	299	229	< 0.2	0.97	28	40	< 0.5	6	0.08	< 0.5	29	56	1765	3.40	< 10	< 1	0.20	10	0.03	5	19
589260	299	229	0.4	1.28	18	40	< 0.5	10	0.21	< 0.5	26	34	2070	3.45	< 10	< 1	0.17	20	0.03	5	7
589261	299	229	0.2	2.13	26	30	< 0.5	2	0.28	< 0.5	49	48	1820	5.33	< 10	< 1	0.27	20	0.06	10	24
589262	299	229	0.2	2.54	16	60	< 0.5	8	0.34	< 0.5	35	23	3010	4.52	< 10	< 1	0.43	20	0.42	40	32
589263	299	229	< 0.2	3.19	30	40	0.5	2	0.50	< 0.5	42	32	2140	5.60	< 10	< 1	0.68	10	1.10	320	10
589264	299	229	< 0.2	3.46	24	40	< 0.5	6	0.53	< 0.5	35	20	2000	5.52	< 10	< 1	0.94	10	1.73	230	9
589265	299	229	0.2	3.95	10	60	< 0.5	< 2	0.74	< 0.5	27	21	1015	5.26	10	< 1	1.03	10	2.23	265	6
589266	299	229	0.4	2.54	16	60	1.0	6	1.15	< 0.5	25	18	1570	4.31	< 10	< 1	0.58	10	1.16	265	15
589267	299	229	0.6	0.93	18	60	< 0.5	< 2	0.20	< 0.5	23	41	1035	3.38	< 10	< 1	0.19	10	0.08	165	245
589268	299	229	0.4	0.50	8	30	< 0.5	< 2	0.14	0.5	20	30	1090	3.79	< 10	< 1	0.16	10	0.05	90	13
589269	299	229	0.4	0.47	4	50	< 0.5	< 2	0.18	< 0.5	20	63	667	3.05	< 10	< 1	0.17	10	0.07	155	32
589270	299	229	0.2	0.37	14	60	< 0.5	< 2	0.68	< 0.5	21	69	719	3.01	< 10	< 1	0.17	10	0.31	185	10
589271	299	229	0.4	0.72	6	40	< 0.5	6	0.58	< 0.5	18	88	794	2.90	< 10	< 1	0.20	20	0.24	170	7
589272	299	229	0.2	0.53	4	40	< 0.5	2	0.49	< 0.5	29	62	622	3.50	< 10	< 1	0.18	20	0.20	205	20
589273	299	229	0.6	1.24	< 2	60	0.5	4	0.35	0.5	27	103	1320	3.45	< 10	< 1	0.29	20	0.20	315	17
589274	299	229	0.4	0.85	6	80	< 0.5	< 2	0.15	< 0.5	26	70	1170	2.67	< 10	< 1	0.20	10	0.07	175	34
589275	299	229	0.4	0.43	52	80	< 0.5	< 2	0.19	< 0.5	22	70	696	2.46	< 10	< 1	0.16	10	0.07	220	13
589276	299	229	0.4	0.85	28	30	< 0.5	2	0.35	< 0.5	34	114	471	3.87	< 10	< 1	0.37	10	0.16	175	33
589277	299	229	0.2	0.50	16	60	< 0.5	< 2	0.30	< 0.5	23	66	608	3.07	< 10	< 1	0.16	10	0.11	240	30
589278	299	229	0.2	1.09	18	70	< 0.5	10	0.10	< 0.5	23	123	665	2.77	< 10	< 1	0.34	10	0.06	140	26
589279	299	229	0.2	0.66	20	70	< 0.5	4	0.15	< 0.5	29	51	893	3.23	< 10	< 1	0.15	10	0.03	330	19
589280	299	229	0.2	1.36	24	60	< 0.5	2	0.10	< 0.5	23	108	691	2.74	< 10	< 1	0.25	10	0.04	10	72
589281	299	229	0.2	0.63	18	80	< 0.5	2	0.08	< 0.5	19	56	725	2.14	< 10	< 1	0.11	10	0.02	85	20
589282	299	229	1.2	1.52	48	160	< 0.5	< 2	0.69	0.5	24	61	514	4.09	10	< 1	0.10	50	0.31	1260	26
589283	299	229	< 0.2	1.35	80	10	< 0.5	< 2	1.01	< 0.5	26	55	28	5.08	10	< 1	0.05	70	0.48	1340	3
589284	299	229	< 0.2	2.73	78	450	< 0.5	< 2	0.95	< 0.5	26	86	137	6.17	20	< 1	0.02	80	0.57	1680	3
589285	299	229	0.2	2.31	58	190	0.5	< 2	0.63	< 0.5	23	68	1070	3.09	10	< 1	0.06	60	0.18	520	6
589286	299	229	0.2	1.24	30	50	< 0.5	< 2	0.18	< 0.5	25	76	591	4.19	< 10	< 1	0.25	20	0.09	485	9
589287	299	229	0.8	0.64	80	50	< 0.5	8	0.16	< 0.5	30	42	845	3.91	< 10	< 1	0.17	10	0.08	395	52

CERTIFICATION: Ivan Bickler

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 226
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :2
Certificate Date: 26-OCT-93
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CERTIFICATE OF ANALYSIS A9323192

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589248	299	229	< 0.01	2	410	24	4	2	206	< 0.01	< 10	< 10	14	< 10	56
589249	299	229	0.02	3	140	20	2	1	32	0.01	< 10	< 10	12	< 10	50
589250	299	229	< 0.01	2	240	14	4	< 1	36	< 0.01	< 10	< 10	1	< 10	34
589251	299	229	< 0.01	2	420	14	4	2	142	< 0.01	< 10	< 10	2	< 10	32
589252	299	229	< 0.01	4	630	20	4	8	135	< 0.01	< 10	< 10	22	< 10	44
589253	299	229	< 0.01	4	820	16	2	6	83	< 0.01	< 10	< 10	14	< 10	32
589254	299	229	< 0.01	3	1270	18	2	4	190	< 0.01	< 10	< 10	15	< 10	34
589255	299	229	0.01	2	790	24	18	3	162	< 0.01	< 10	< 10	11	< 10	52
589256	299	229	0.01	4	720	16	8	3	143	< 0.01	< 10	< 10	14	< 10	30
589257	299	229	< 0.01	2	580	20	8	2	194	< 0.01	< 10	< 10	6	< 10	28
589258	299	229	0.01	3	470	16	12	2	134	< 0.01	< 10	< 10	7	< 10	24
589259	299	229	< 0.01	6	720	16	6	2	204	< 0.01	< 10	< 10	7	< 10	28
589260	299	229	< 0.01	4	1150	14	10	3	176	< 0.01	< 10	< 10	16	< 10	32
589261	299	229	< 0.01	7	1490	22	10	4	210	< 0.01	< 10	< 10	33	< 10	34
589262	299	229	0.01	10	1770	32	2	7	405	0.02	< 10	< 10	48	< 10	56
589263	299	229	0.01	6	1270	14	2	9	84	0.03	< 10	< 10	78	< 10	94
589264	299	229	0.01	6	1120	12	2	11	61	0.07	< 10	< 10	103	< 10	74
589265	299	229	0.01	3	1100	18	2	13	26	0.06	< 10	< 10	122	< 10	58
589266	299	229	0.01	4	1190	14	< 2	9	26	0.02	< 10	< 10	76	< 10	56
589267	299	229	< 0.01	3	630	18	12	2	29	< 0.01	< 10	< 10	14	< 10	56
589268	299	229	< 0.01	2	380	8	4	1	15	< 0.01	< 10	< 10	4	< 10	34
589269	299	229	< 0.01	3	330	10	< 2	1	12	< 0.01	< 10	< 10	3	< 10	38
589270	299	229	< 0.01	2	400	14	2	< 1	9	< 0.01	< 10	< 10	4	< 10	26
589271	299	229	< 0.01	3	410	22	< 2	1	10	< 0.01	< 10	< 10	6	< 10	30
589272	299	229	< 0.01	4	460	12	2	1	8	< 0.01	< 10	< 10	6	< 10	30
589273	299	229	< 0.01	6	520	14	2	3	12	< 0.01	< 10	< 10	14	< 10	52
589274	299	229	< 0.01	6	430	12	4	1	13	< 0.01	< 10	< 10	8	< 10	62
589275	299	229	< 0.01	3	270	8	6	< 1	7	< 0.01	< 10	< 10	2	< 10	50
589276	299	229	0.01	4	360	22	4	< 1	10	< 0.01	< 10	< 10	4	< 10	52
589277	299	229	< 0.01	3	390	16	6	< 1	8	< 0.01	< 10	< 10	2	< 10	54
589278	299	229	0.01	4	280	18	8	1	8	< 0.01	< 10	< 10	6	< 10	40
589279	299	229	< 0.01	4	500	8	12	1	15	< 0.01	< 10	< 10	8	< 10	78
589280	299	229	0.01	7	360	16	10	1	23	< 0.01	< 10	< 10	8	< 10	36
589281	299	229	< 0.01	4	220	12	4	< 1	20	< 0.01	< 10	< 10	2	< 10	26
589282	299	229	< 0.01	31	2240	16	12	9	27	< 0.01	< 10	< 10	40	< 10	134
589283	299	229	< 0.01	41	3180	14	2	12	35	< 0.01	< 10	< 10	49	10	114
589284	299	229	< 0.01	40	3490	28	2	14	33	< 0.01	< 10	< 10	66	10	170
589285	299	229	< 0.01	29	2620	28	4	9	40	< 0.01	< 10	< 10	46	< 10	144
589286	299	229	< 0.01	6	490	20	20	2	9	< 0.01	< 10	< 10	11	< 10	48
589287	299	229	< 0.01	6	320	16	74	1	9	< 0.01	< 10	< 10	6	< 10	78

CERTIFICATION: Frank Pichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 226
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-OCT-93
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589288	299	229	0.8	0.70	178	40	< 0.5	< 2	0.17	< 0.5	29	76	1160	4.84	< 10	< 1	0.13	10	0.07	720	90
589289	299	229	1.6	1.08	106	80	< 0.5	4	0.35	0.5	38	82	494	5.82	< 10	< 1	0.16	20	0.17	1115	7
589290	299	229	< 0.2	1.83	122	270	1.0	< 2	1.04	0.5	31	81	186	5.93	20	< 1	< 0.01	90	0.44	835	3
589291	299	229	< 0.2	2.37	92	290	1.0	< 2	0.94	< 0.5	23	73	64	6.23	20	< 1	0.01	90	0.71	525	2
589292	299	229	0.2	2.11	118	110	1.0	< 2	0.83	< 0.5	27	74	699	6.70	10	< 1	0.04	70	0.79	560	9
589293	299	229	0.2	0.83	56	80	< 0.5	< 2	0.32	< 0.5	20	71	825	3.16	< 10	< 1	0.16	10	0.20	270	13
589294	299	229	0.2	0.87	136	10	< 0.5	2	0.53	0.5	37	30	453	8.76	< 10	< 1	0.07	10	0.24	350	12
589295	299	229	0.2	0.43	28	20	< 0.5	< 2	0.36	< 0.5	13	69	38	5.10	< 10	< 1	0.23	< 10	0.16	155	1
589296	299	229	0.2	0.32	18	10	< 0.5	4	0.47	< 0.5	13	67	43	6.16	< 10	< 1	0.18	< 10	0.20	145	< 1
589297	299	229	0.2	0.55	24	10	< 0.5	< 2	0.71	< 0.5	17	90	65	9.45	< 10	< 1	0.27	< 10	0.32	140	8
589298	299	229	< 0.2	0.31	34	20	< 0.5	2	1.12	< 0.5	11	47	182	5.25	< 10	< 1	0.14	< 10	0.38	205	2
589299	299	229	0.2	0.60	22	10	< 0.5	2	0.92	< 0.5	15	76	79	5.19	< 10	< 1	0.28	< 10	0.34	220	< 1
589300	299	229	0.2	0.36	22	30	< 0.5	< 2	0.73	< 0.5	13	64	45	4.64	< 10	< 1	0.20	< 10	0.28	160	4
589301	299	229	< 0.2	0.77	22	30	< 0.5	< 2	0.68	< 0.5	10	144	104	4.86	< 10	< 1	0.36	< 10	0.30	135	< 1
589302	299	229	< 0.2	0.36	18	20	< 0.5	< 2	0.78	< 0.5	10	87	102	5.63	< 10	< 1	0.18	< 10	0.34	150	< 1
589303	299	229	< 0.2	0.71	50	30	< 0.5	< 2	0.97	< 0.5	10	112	204	5.23	< 10	< 1	0.29	< 10	0.47	365	< 1
589304	299	229	< 0.2	0.38	46	20	< 0.5	2	0.58	< 0.5	18	88	204	6.20	< 10	< 1	0.20	< 10	0.26	565	1
589305	299	229	< 0.2	0.61	50	20	< 0.5	2	0.73	< 0.5	14	99	217	5.55	< 10	< 1	0.31	< 10	0.35	310	< 1
589306	299	229	0.2	0.34	52	10	< 0.5	< 2	0.76	< 0.5	14	80	202	6.86	< 10	< 1	0.20	< 10	0.33	140	< 1
589307	299	229	0.2	0.55	50	20	< 0.5	< 2	1.39	< 0.5	12	63	226	5.65	< 10	< 1	0.26	< 10	0.64	255	< 1
589308	299	229	1.4	0.25	80	30	< 0.5	2	0.89	< 0.5	11	68	235	5.67	< 10	< 1	0.17	< 10	0.37	785	< 1
589309	299	229	< 0.2	0.43	18	30	< 0.5	< 2	0.76	< 0.5	14	87	67	5.48	< 10	< 1	0.25	< 10	0.34	145	1
589310	299	229	5.6	0.29	22	30	< 0.5	380	0.85	< 0.5	20	85	141	5.93	< 10	< 1	0.16	< 10	0.38	160	1
589311	299	229	< 0.2	0.90	6	40	< 0.5	16	1.60	< 0.5	15	110	234	4.22	< 10	< 1	0.24	10	0.86	120	1
589312	299	229	0.2	0.75	10	40	< 0.5	2	1.68	< 0.5	27	76	214	4.29	< 10	< 1	0.17	10	0.71	175	< 1
589313	299	229	0.2	0.94	26	20	< 0.5	2	1.66	< 0.5	13	136	167	5.57	< 10	< 1	0.35	10	0.65	250	< 1
589314	299	229	0.4	0.39	60	20	< 0.5	< 2	1.57	< 0.5	18	93	245	5.78	< 10	< 1	0.17	10	0.58	410	2
589315	299	229	0.4	0.86	22	50	< 0.5	< 2	1.74	< 0.5	13	146	233	4.66	< 10	< 1	0.34	10	0.64	240	1
589316	299	229	0.2	0.50	22	20	< 0.5	< 2	1.10	< 0.5	17	125	161	7.10	< 10	< 1	0.24	< 10	0.49	120	4
589317	299	229	< 0.2	0.85	10	20	< 0.5	< 2	1.71	< 0.5	12	104	176	4.69	< 10	< 1	0.26	10	0.70	90	7
589318	299	229	< 0.2	0.34	6	20	< 0.5	2	1.79	< 0.5	11	50	202	4.31	< 10	< 1	0.11	20	0.64	90	< 1
589319	299	229	< 0.2	0.81	14	20	< 0.5	6	1.37	< 0.5	11	126	180	5.68	< 10	< 1	0.29	10	0.50	120	< 1
589320	299	229	0.2	0.36	26	40	< 0.5	4	1.40	< 0.5	11	95	105	5.67	< 10	< 1	0.17	10	0.49	120	< 1
589321	299	229	< 0.2	0.71	20	30	< 0.5	< 2	1.65	< 0.5	12	109	291	5.23	< 10	< 1	0.26	10	0.58	80	< 1
589322	299	229	< 0.2	0.71	6	40	< 0.5	< 2	1.59	< 0.5	10	114	125	5.22	< 10	< 1	0.27	10	0.59	60	< 1
589323	299	229	< 0.2	0.83	20	20	0.5	< 2	1.89	< 0.5	12	77	276	6.13	< 10	< 1	0.26	10	0.86	85	< 1
589324	299	229	< 0.2	0.29	22	20	< 0.5	< 2	1.13	< 0.5	14	87	173	5.83	< 10	< 1	0.15	10	0.49	55	< 1
589325	299	229	< 0.2	0.63	20	20	< 0.5	< 2	1.59	< 0.5	11	93	165	5.92	< 10	< 1	0.25	10	0.66	70	< 1
589326	299	229	< 0.2	0.38	18	10	< 0.5	< 2	1.35	< 0.5	11	83	189	7.60	< 10	< 1	0.15	< 10	0.42	120	< 1

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 226
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-OCT-93
Invoice No. :I9323192
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323192

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589288	299	229	< 0.01	7	300	24	58	1	7	< 0.01	< 10	< 10	4	< 10	116
589289	299	229	< 0.01	27	780	20	38	4	11	< 0.01	< 10	20	20	< 10	180
589290	299	229	< 0.01	50	3750	30	6	13	34	< 0.01	< 10	40	66	10	304
589291	299	229	< 0.01	39	3520	30	4	13	32	< 0.01	< 10	10	58	10	70
589292	299	229	< 0.01	34	2920	24	24	12	27	< 0.01	< 10	30	60	10	92
589293	299	229	< 0.01	8	460	8	58	3	11	< 0.01	< 10	< 10	15	< 10	64
589294	299	229	< 0.01	15	460	26	80	4	79	< 0.01	< 10	< 10	14	< 10	84
589295	299	229	< 0.01	4	330	16	6	1	10	< 0.01	< 10	< 10	6	< 10	26
589296	299	229	< 0.01	4	480	12	4	1	9	< 0.01	< 10	< 10	5	< 10	18
589297	299	229	0.01	1	370	20	4	2	9	< 0.01	< 10	< 10	9	< 10	12
589298	299	229	< 0.01	3	440	12	8	1	13	< 0.01	< 10	< 10	8	< 10	8
589299	299	229	0.01	4	420	18	4	2	14	< 0.01	< 10	< 10	10	< 10	12
589300	299	229	< 0.01	4	430	16	4	1	9	< 0.01	< 10	< 10	6	< 10	12
589301	299	229	0.01	4	520	6	2	1	8	< 0.01	< 10	< 10	9	< 10	8
589302	299	229	< 0.01	4	460	8	< 2	1	8	< 0.01	< 10	< 10	6	< 10	8
589303	299	229	0.01	2	430	12	8	1	10	< 0.01	< 10	< 10	11	< 10	12
589304	299	229	< 0.01	4	390	12	10	1	10	< 0.01	< 10	< 10	7	< 10	10
589305	299	229	0.01	2	420	12	6	1	9	< 0.01	< 10	< 10	10	< 10	8
589306	299	229	< 0.01	3	460	12	6	1	8	< 0.01	< 10	< 10	6	< 10	8
589307	299	229	0.01	4	540	12	6	1	11	< 0.01	< 10	< 10	10	< 10	10
589308	299	229	< 0.01	2	460	8	30	1	9	< 0.01	< 10	< 10	6	< 10	22
589309	299	229	< 0.01	2	510	12	2	1	10	< 0.01	< 10	< 10	9	< 10	22
589310	299	229	< 0.01	3	440	66	2	1	11	< 0.01	< 10	< 10	5	< 10	18
589311	299	229	0.03	3	520	12	2	2	117	< 0.01	< 10	< 10	24	< 10	14
589312	299	229	0.01	2	490	16	4	1	74	< 0.01	< 10	< 10	14	< 10	28
589313	299	229	0.01	3	480	18	< 2	2	49	< 0.01	< 10	< 10	17	< 10	22
589314	299	229	< 0.01	3	440	10	4	1	20	< 0.01	< 10	< 10	9	< 10	16
589315	299	229	0.01	4	520	14	< 2	2	18	< 0.01	< 10	< 10	15	< 10	16
589316	299	229	0.01	1	500	6	< 2	2	12	< 0.01	< 10	< 10	12	< 10	6
589317	299	229	0.01	4	540	14	< 2	2	78	< 0.01	< 10	< 10	14	< 10	10
589318	299	229	< 0.01	4	520	6	< 2	1	41	< 0.01	< 10	< 10	8	< 10	8
589319	299	229	0.01	4	520	14	2	1	37	< 0.01	< 10	< 10	12	< 10	14
589320	299	229	< 0.01	3	470	16	< 2	1	16	< 0.01	< 10	< 10	8	< 10	14
589321	299	229	0.01	3	490	10	< 2	1	17	< 0.01	< 10	< 10	12	< 10	2
589322	299	229	0.01	3	520	4	< 2	1	17	< 0.01	< 10	< 10	12	< 10	6
589323	299	229	0.01	2	570	18	4	2	20	< 0.01	< 10	< 10	17	< 10	8
589324	299	229	0.01	3	520	8	< 2	1	12	< 0.01	< 10	< 10	6	< 10	4
589325	299	229	0.01	3	580	< 2	< 2	1	20	< 0.01	< 10	< 10	12	< 10	2
589326	299	229	0.01	3	510	14	< 2	1	11	< 0.01	< 10	< 10	10	< 10	4

CERTIFICATION: Stuart Breitler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-227
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :3
Certificate Date: 03-NOV-93
Invoice No. :19323674
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323674

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H565995	208 276	0.04	0.021	0.07	11120
H565996	208 273	0.03	0.008	0.07	11840
H565997	208 276	0.02	0.009	0.03	10960
H565998	208 276	0.02	0.028	0.10	9640
H565999	208 274	0.04	0.021	0.21	5700
H566000	208 274	0.09	0.006	0.17	6200
H940001	208 276	0.01	0.010	0.07	8100
H940002	208 276	0.03	0.007	0.07	7440
H940003	208 276	0.04	0.011	0.07	8120
H940004	208 276	0.05	0.018	0.14	8080
H940005	208 276	0.03	0.013	0.51	9120
H940006	208 276	0.04	0.009	0.03	11240
H940007	208 273	0.03	0.008	0.14	12420
H940008	208 273	0.05	0.020	0.10	12860
H940009	208 276	0.05	0.018	0.10	11780
H940010	208 276	0.04	0.009	0.31	9300
H940011	208 273	0.04	0.006	0.10	11880
H940012	208 273	0.07	0.008	0.21	11880
H940013	208 276	0.11	0.007	0.14	10480
H940014	208 276	1.42	0.041	0.65	8560
H940015	208 273	0.51	0.015	0.14	13720
H940016	208 273	0.25	0.034	0.14	13340
H940017	208 276	0.14	0.009	0.07	11060
H940018	208 276	0.25	0.014	0.07	10740
H940019	208 276	0.53	0.007	0.34	9660
H940020	208 276	0.21	0.010	0.10	9720
H940021	208 276	0.23	0.009	0.24	11040
H940022	208 276	0.26	0.013	0.14	11340
H940023	208 276	0.14	0.009	0.10	8480
H940024	208 276	0.11	0.019	0.10	11240
H940025	208 276	0.10	0.032	0.14	10580
H940026	208 273	0.08	0.012	0.14	13140
H940027	208 276	0.11	0.029	0.17	10340
H940028	208 276	0.06	0.006	0.07	7800
H940029	208 276	0.04	0.047	0.17	11780
H940030	208 273	0.05	0.013	0.10	12280
H940031	208 276	0.05	0.010	0.03	11140
H940032	208 273	0.07	0.013	0.21	15680
H940033	208 276	0.03	0.006	0.07	8380
H940034	208 273	0.09	0.022	0.24	12040

CERTIFICATION: Saad Temak

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-227
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2
Total Pages :3
Certificate Date: 03-NOV-93
Invoice No. : I9323674
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323674

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H940035	208	276	0.06	0.017	0.21	11300						
H940036	208	276	0.04	0.026	0.10	10060						
H940037	208	273	0.08	0.007	0.34	11880						
H940038	208	273	0.06	0.013	0.10	14300						
H940039	208	276	0.10	0.017	0.17	10240						
H940040	208	273	0.12	0.014	0.14	13460						
H940041	208	276	0.06	0.021	0.14	10920						
H940042	208	273	0.18	0.039	0.31	12580						
H940043	208	276	0.09	0.010	0.14	10000						
H940044	208	276	0.04	0.006	0.07	10240						
H940045	208	276	0.08	0.008	0.14	8840						
H940046	208	276	0.05	0.014	0.34	9180						
H940047	208	276	0.02	0.019	0.07	10740						
H940048	208	276	0.02	0.004	< 0.03	8800						
H940049	208	276	0.02	0.010	0.03	11320						
H940050	208	276	0.01	0.007	0.03	8580						
H940051	208	274	0.02	0.007	0.07	5760						
H940052	208	276	0.03	0.076	0.03	10880						
H940053	208	273	0.07	0.020	0.14	12720						
H940054	208	273	0.08	0.024	0.10	12340						
H940055	208	276	0.04	0.006	0.07	11680						
H940056	208	273	0.04	0.009	0.07	12700						
H940057	208	273	0.04	0.027	0.10	13820						
H940058	208	273	0.03	0.009	0.07	12100						
H940059	208	273	0.06	0.019	0.14	12680						
H940060	208	273	0.04	0.034	0.07	11880						
H940061	208	273	0.03	0.006	0.07	12500						
H940062	208	276	0.05	0.012	0.07	11620						
H940063	208	273	0.06	0.018	0.03	11820						
H940064	208	276	0.03	0.012	0.03	11340						
H940065	208	273	0.04	0.010	< 0.03	13120						
H940066	208	276	0.10	0.020	0.17	11360						
H940067	208	273	0.07	0.015	0.03	12360						
H940068	208	276	0.04	0.037	0.10	11520						
H940069	208	276	0.02	0.010	0.17	9120						
H940070	208	276	0.03	0.008	0.03	8660						
H940071	208	274	0.02	0.016	0.07	4160						
H940072	208	274	0.06	0.360	0.21	6940						
H940073	208	276	0.03	0.017	0.07	10520						
H940074	208	276	0.01	0.003	< 0.03	8940						

CERTIFICATION: Sandra Epstein

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-227
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
Total Pages :3
Certificate Date: 03-NOV-93
Invoice No. :I9323674
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323674

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H940075	208 276	0.04	0.019	0.07	9700
H940076	208 276	0.02	0.007	0.07	10140
H940077	208 276	0.05	0.048	0.10	8940
H940078	208 276	0.05	0.020	0.14	9800
H940079	208 276	0.04	0.014	0.03	9200
H940080	208 276	0.05	0.015	0.07	10260
H940081	208 274	0.03	0.008	0.03	6140
H940082	208 276	0.04	0.013	0.07	11480
H940083	208 274	0.03	0.014	0.07	6980
H940084	208 276	0.04	0.034	0.07	10180
H940085	208 276	0.03	0.018	0.10	8020
H940086	208 274	0.01	0.015	< 0.03	6720
H940087	208 276	0.01	0.007	0.03	7640
H940088	208 274	0.02	0.023	< 0.03	6380
H940089	208 274	< 0.01	0.025	< 0.03	3440
H940090	208 276	0.01	0.027	< 0.03	10140
H940091	208 276	0.04	0.018	0.07	9440
H940092	208 276	0.04	0.010	0.07	8860
H940093	208 276	0.04	0.023	0.07	7700
H940094	208 274	0.01	0.008	< 0.03	3800
H940095	208 276	< 0.01	0.004	< 0.03	8140
H940096	208 276	0.01	0.006	< 0.03	10740
H940097	208 276	0.01	0.005	< 0.03	7820
H940098	208 273	0.01	0.044	0.10	14860
H940099	208 276	0.03	0.026	0.14	11070
H940100	208 276	0.01	0.025	< 0.03	9140
H940101	208 276	0.01	0.007	< 0.03	10560
H940102	208 276	0.07	0.016	0.07	10100
H940103	208 276	0.04	0.008	< 0.03	10200
H940104	208 276	0.03	0.011	< 0.03	10980
H940105	208 273	0.05	0.049	0.14	12560
H940106	208 274	0.02	0.009	0.03	6900
H940107	208 276	0.01	0.028	< 0.03	10920
H940108	208 276	0.01	0.009	0.03	11600
H940109	208 276	0.02	0.009	0.07	10980
H940110	208 274	0.02	0.004	< 0.03	4500

CERTIFICATION: Saeid Tirnak

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ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-227
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-NOV-93
Invoice No. :I9323675
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323675

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H565995	299	229	1.6	1.52	70	430	< 0.5	2	0.03	0.5	2	207	426	4.54	< 10	< 1	0.77	10	0.36	70	121
H565996	299	229	1.0	1.45	< 2	200	< 0.5	< 2	0.03	< 0.5	3	238	364	4.91	< 10	< 1	0.72	< 10	0.38	80	53
H565997	299	229	0.8	1.32	6	310	< 0.5	< 2	0.01	< 0.5	3	172	253	3.94	< 10	< 1	0.72	< 10	0.34	65	52
H565998	299	229	1.2	1.33	4	240	< 0.5	< 2	0.02	< 0.5	2	170	165	3.89	< 10	< 1	0.78	20	0.17	40	166
H565999	299	229	2.6	1.41	6	350	< 0.5	< 2	0.01	< 0.5	2	166	360	4.11	< 10	< 1	0.80	10	0.30	55	126
H566000	299	229	1.0	1.16	2	200	< 0.5	< 2	0.02	0.5	8	125	941	5.31	< 10	< 1	0.61	10	0.26	165	37
H940001	299	229	1.2	0.72	2	300	< 0.5	< 2	0.01	< 0.5	< 1	133	83	3.55	< 10	< 1	0.96	< 10	0.05	15	58
H940002	299	229	0.4	0.86	16	270	< 0.5	< 2	0.02	< 0.5	3	123	328	5.78	< 10	< 1	0.80	10	0.09	70	37
H940003	299	229	0.8	0.81	10	260	< 0.5	14	0.01	< 0.5	4	130	435	7.02	< 10	< 1	0.85	10	0.08	75	65
H940004	299	229	1.2	1.06	< 2	250	< 0.5	< 2	0.01	0.5	4	130	466	4.85	< 10	< 1	0.72	10	0.20	85	111
H940005	299	229	3.2	0.96	6	250	< 0.5	44	0.02	< 0.5	2	109	335	5.36	< 10	< 1	1.07	20	0.09	40	81
H940006	299	229	0.4	0.90	4	270	< 0.5	< 2	0.01	< 0.5	2	137	403	4.30	< 10	< 1	0.64	10	0.15	80	47
H940007	299	229	0.6	0.82	8	250	< 0.5	14	0.02	< 0.5	1	142	319	4.80	< 10	< 1	0.73	10	0.15	45	52
H940008	299	229	0.8	1.62	36	190	< 0.5	6	0.03	< 0.5	5	130	438	6.49	10	< 1	0.94	20	0.76	90	125
H940009	299	229	0.4	2.08	18	170	< 0.5	< 2	0.03	< 0.5	6	108	506	6.96	10	< 1	1.03	20	1.10	115	109
H940010	299	229	1.2	2.34	86	180	< 0.5	< 2	0.04	< 0.5	9	129	425	7.39	10	< 1	1.25	10	1.28	125	61
H940011	299	229	0.6	1.99	66	180	< 0.5	< 2	0.03	0.5	5	142	422	6.86	< 10	< 1	0.95	10	1.00	105	37
H940012	299	229	0.8	2.02	42	150	< 0.5	< 2	0.07	0.5	8	143	634	6.35	< 10	< 1	0.89	10	1.01	115	48
H940013	299	229	0.8	1.70	20	90	< 0.5	2	0.07	< 0.5	10	136	1140	6.54	< 10	< 1	0.89	10	0.70	85	46
H940014	299	229	12.0	1.87	48	60	< 0.5	236	0.11	< 0.5	11	140	>10000	7.17	< 10	< 1	0.63	10	0.34	70	240
H940015	299	229	1.2	2.12	8	150	< 0.5	26	0.13	0.5	14	207	4910	5.90	< 10	< 1	0.78	10	0.73	170	94
H940016	299	229	0.8	1.90	6	120	< 0.5	2	0.14	< 0.5	11	122	2460	5.95	< 10	< 1	0.85	10	1.15	145	187
H940017	299	229	0.4	1.72	10	110	< 0.5	< 2	0.12	< 0.5	9	153	1450	5.89	< 10	< 1	0.73	10	1.02	135	53
H940018	299	229	0.2	2.22	< 2	140	< 0.5	< 2	0.14	0.5	8	190	2450	6.02	< 10	< 1	0.90	10	1.16	140	79
H940019	299	229	3.4	2.05	88	110	< 0.5	18	0.15	0.5	11	114	5200	6.59	< 10	< 1	0.67	< 10	0.87	105	37
H940020	299	229	0.6	2.38	12	190	< 0.5	2	0.19	0.5	13	209	2220	7.06	< 10	< 1	1.07	10	1.41	235	53
H940021	299	229	1.8	2.02	56	100	< 0.5	8	0.16	0.5	16	120	2340	7.84	< 10	< 1	0.92	< 10	1.23	265	47
H940022	299	229	1.4	2.15	18	170	< 0.5	8	0.19	0.5	15	211	2630	6.35	< 10	< 1	0.91	10	1.02	435	72
H940023	299	229	1.2	1.89	2	140	< 0.5	8	0.17	1.0	11	164	1555	4.37	< 10	< 1	0.95	10	1.02	285	47
H940024	299	229	0.8	2.46	4	280	< 0.5	2	0.34	0.5	14	163	1140	3.88	10	< 1	0.89	20	1.27	340	109
H940025	299	229	0.6	2.09	< 2	250	< 0.5	< 2	0.58	1.0	15	157	1040	3.82	10	< 1	0.85	30	1.15	365	203
H940026	299	229	0.6	2.20	4	250	< 0.5	< 2	0.42	0.5	14	150	812	4.26	10	< 1	0.89	20	1.30	435	67
H940027	299	229	0.8	2.14	< 2	230	< 0.5	< 2	0.67	1.0	21	107	1080	3.85	10	< 1	0.88	20	1.14	365	176
H940028	299	229	0.2	2.11	8	290	< 0.5	< 2	0.30	0.5	15	96	607	4.35	< 10	< 1	0.88	30	1.25	395	36
H940029	299	229	0.4	1.46	< 2	100	< 0.5	2	0.89	0.5	14	131	422	3.82	< 10	< 1	0.71	20	0.93	375	263
H940030	299	229	0.6	1.73	< 2	120	< 0.5	< 2	1.13	0.5	9	119	525	3.08	< 10	< 1	1.04	20	1.42	235	80
H940031	299	229	0.4	1.50	14	130	< 0.5	< 2	0.38	0.5	11	148	524	3.55	< 10	< 1	0.98	20	1.05	285	56
H940032	299	229	0.6	1.90	< 2	150	< 0.5	< 2	0.46	0.5	15	113	689	4.22	10	< 1	1.03	20	1.32	360	77
H940033	299	229	0.4	1.90	< 2	150	< 0.5	< 2	0.72	0.5	12	136	255	4.28	< 10	< 1	1.12	10	1.34	365	34
H940034	299	229	0.8	2.09	< 2	160	< 0.5	< 2	0.62	0.5	13	101	842	3.45	10	< 1	1.26	20	1.46	370	131

CERTIFICATION: Ian H Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-227
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-NOV-93
Invoice No. : I9323675
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323675

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H565995	299	229	0.06	6	350	14	4	4	25	0.02	< 10	< 10	50	10	38
H565996	299	229	0.07	7	320	6	< 2	4	20	0.02	< 10	< 10	47	10	46
H565997	299	229	0.04	4	340	4	< 2	3	18	0.01	< 10	< 10	32	< 10	32
H565998	299	229	0.03	3	300	12	4	3	17	< 0.01	< 10	< 10	29	< 10	36
H565999	299	229	0.03	4	400	12	4	3	19	0.01	< 10	< 10	44	10	26
H566000	299	229	0.03	11	440	2	2	3	16	0.01	< 10	< 10	45	10	62
H940001	299	229	0.03	1	220	12	2	1	17	< 0.01	< 10	< 10	13	< 10	12
H940002	299	229	0.04	4	460	< 2	< 2	2	24	0.01	< 10	< 10	36	< 10	36
H940003	299	229	0.03	4	500	2	2	2	24	< 0.01	< 10	< 10	47	< 10	44
H940004	299	229	0.03	5	400	< 2	2	2	19	0.01	< 10	< 10	33	< 10	34
H940005	299	229	0.04	3	510	6	2	2	27	< 0.01	< 10	< 10	24	< 10	30
H940006	299	229	0.06	3	390	2	2	2	22	< 0.01	< 10	< 10	29	< 10	28
H940007	299	229	0.05	3	300	4	< 2	1	20	< 0.01	< 10	< 10	31	< 10	22
H940008	299	229	0.09	7	520	< 2	< 2	7	23	0.06	< 10	< 10	67	< 10	30
H940009	299	229	0.09	11	530	< 2	2	10	20	0.08	< 10	< 10	88	< 10	40
H940010	299	229	0.08	13	500	4	2	10	18	0.10	< 10	< 10	90	< 10	36
H940011	299	229	0.07	11	580	4	< 2	8	19	0.07	< 10	< 10	76	< 10	28
H940012	299	229	0.06	12	540	4	2	7	15	0.06	< 10	< 10	70	< 10	32
H940013	299	229	0.03	12	500	2	2	6	12	0.06	< 10	< 10	54	< 10	36
H940014	299	229	0.02	15	620	14	8	5	7	0.02	< 10	< 10	45	< 10	36
H940015	299	229	0.03	19	530	2	2	7	11	0.06	< 10	< 10	70	< 10	46
H940016	299	229	0.03	14	570	< 2	< 2	8	10	0.09	< 10	< 10	74	< 10	32
H940017	299	229	0.03	14	520	6	< 2	6	9	0.06	< 10	< 10	57	< 10	28
H940018	299	229	0.04	13	660	2	< 2	7	11	0.07	< 10	< 10	75	< 10	26
H940019	299	229	0.02	16	730	12	6	7	8	0.07	< 10	< 10	71	< 10	28
H940020	299	229	0.06	18	720	2	< 2	12	13	0.12	< 10	< 10	101	< 10	46
H940021	299	229	0.02	17	520	10	4	10	7	0.08	< 10	< 10	80	< 10	66
H940022	299	229	0.04	17	570	4	< 2	8	13	0.07	< 10	< 10	79	< 10	62
H940023	299	229	0.03	14	590	< 2	< 2	7	12	0.10	< 10	< 10	50	< 10	56
H940024	299	229	0.07	17	830	2	< 2	6	21	0.10	< 10	< 10	54	< 10	64
H940025	299	229	0.03	14	840	4	4	6	19	0.08	< 10	< 10	44	< 10	72
H940026	299	229	0.07	16	810	2	< 2	6	24	0.09	< 10	< 10	49	< 10	76
H940027	299	229	0.05	14	820	8	4	6	25	0.08	< 10	< 10	47	< 10	62
H940028	299	229	0.08	16	800	< 2	< 2	5	24	0.09	< 10	< 10	50	< 10	68
H940029	299	229	0.02	10	470	2	4	7	19	0.06	< 10	< 10	44	< 10	46
H940030	299	229	0.03	10	560	< 2	< 2	10	24	0.11	< 10	< 10	52	< 10	34
H940031	299	229	0.05	12	500	4	2	7	21	0.09	< 10	< 10	48	< 10	46
H940032	299	229	0.06	16	910	< 2	2	7	23	0.10	< 10	< 10	63	< 10	56
H940033	299	229	0.05	14	680	10	2	7	25	0.10	< 10	< 10	56	< 10	54
H940034	299	229	0.06	14	940	6	< 2	8	23	0.13	< 10	< 10	56	< 10	58

CERTIFICATION: Ivan Bichler

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CERTIFICATE OF ANALYSIS A9323675

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940035	299	229	0.4	1.99	< 2	140	0.5	< 2	0.37	1.5	17	90	632	3.76	10	< 1	1.12	20	1.48	415	101
H940036	299	229	0.6	2.03	< 2	150	0.5	8	0.32	1.0	13	104	391	3.66	10	< 1	1.15	30	1.60	315	153
H940037	299	229	0.6	1.59	< 2	110	0.5	2	0.45	1.0	12	95	733	4.18	10	< 1	0.84	20	1.21	250	45
H940038	299	229	0.4	2.23	< 2	120	0.5	< 2	1.38	0.5	8	94	575	3.36	10	< 1	1.16	20	1.50	170	76
H940039	299	229	0.8	1.69	< 2	130	0.5	4	0.79	0.5	12	113	991	4.75	< 10	< 1	0.99	10	1.29	235	106
H940040	299	229	1.0	1.64	4	110	0.5	< 2	0.36	1.0	18	115	1195	3.81	10	< 1	0.85	20	1.13	385	83
H940041	299	229	0.8	1.76	2	130	0.5	< 2	1.10	4.0	15	99	676	4.61	10	< 1	0.89	30	1.06	455	131
H940042	299	229	1.2	1.87	2	110	0.5	6	0.27	1.5	25	117	1840	6.41	10	< 1	0.94	30	1.27	510	248
H940043	299	229	0.4	1.42	< 2	110	< 0.5	2	0.32	1.0	18	130	896	7.15	10	< 1	0.76	10	0.91	400	57
H940044	299	229	1.4	1.19	< 2	120	0.5	< 2	0.53	3.0	13	122	423	4.06	< 10	< 1	0.63	20	0.67	500	41
H940045	299	229	1.4	0.85	14	120	0.5	2	0.54	6.0	13	135	830	3.19	< 10	< 1	0.52	10	0.65	850	53
H940046	299	229	0.4	1.50	38	190	0.5	2	0.53	1.0	17	80	541	4.88	10	< 1	0.84	20	1.16	745	88
H940047	299	229	< 0.2	1.72	< 2	140	0.5	2	1.60	0.5	14	83	248	4.36	< 10	< 1	0.90	10	1.17	305	108
H940048	299	229	0.2	1.19	< 2	110	0.5	< 2	1.55	0.5	7	87	196	3.57	< 10	< 1	0.56	10	0.92	160	30
H940049	299	229	< 0.2	1.35	< 2	100	< 0.5	8	1.49	< 0.5	6	114	226	4.50	10	< 1	0.68	10	1.10	140	66
H940050	299	229	< 0.2	1.68	< 2	140	< 0.5	< 2	0.86	1.0	12	130	120	6.08	10	< 1	0.86	10	1.20	165	39
H940051	299	229	< 0.2	1.72	2	140	< 0.5	< 2	0.49	0.5	10	126	156	6.34	10	< 1	0.96	10	1.22	230	44
H940052	299	229	0.2	1.56	2	150	0.5	< 2	1.61	< 0.5	9	110	256	3.72	10	< 1	0.79	20	1.03	160	430
H940053	299	229	0.6	1.92	8	140	0.5	< 2	1.04	< 0.5	9	99	745	4.53	10	< 1	0.97	20	1.38	160	125
H940054	299	229	0.2	1.45	< 2	110	0.5	< 2	0.89	< 0.5	12	108	784	4.41	< 10	< 1	0.82	10	0.96	175	143
H940055	299	229	0.4	1.18	2	100	< 0.5	< 2	1.74	0.5	7	156	423	3.06	< 10	< 1	0.61	10	0.76	130	38
H940056	299	229	0.4	1.41	< 2	100	< 0.5	6	2.26	0.5	6	120	415	3.53	10	< 1	0.75	10	1.08	150	54
H940057	299	229	0.4	1.94	2	110	0.5	< 2	1.39	< 0.5	8	115	468	4.07	10	< 1	0.98	10	1.25	130	172
H940058	299	229	0.2	1.36	< 2	110	< 0.5	4	1.53	0.5	8	141	318	4.12	10	< 1	0.74	10	0.95	130	55
H940059	299	229	0.4	1.63	< 2	230	< 0.5	2	2.20	0.5	8	94	550	3.73	10	< 1	0.71	20	1.07	145	100
H940060	299	229	0.2	1.35	2	80	< 0.5	4	0.98	1.0	13	126	427	4.96	10	< 1	0.65	10	0.82	225	212
H940061	299	229	< 0.2	1.41	4	140	< 0.5	4	0.55	< 0.5	8	125	307	5.37	10	< 1	0.80	10	1.04	135	37
H940062	299	229	0.6	1.39	6	120	< 0.5	2	0.46	0.5	11	122	510	4.31	< 10	< 1	0.71	10	0.98	170	80
H940063	299	229	0.4	1.35	6	110	< 0.5	< 2	0.50	0.5	13	127	672	5.19	10	< 1	0.78	10	0.93	150	110
H940064	299	229	< 0.2	1.29	4	140	< 0.5	2	0.73	1.0	11	143	320	4.76	< 10	< 1	0.75	10	0.86	270	75
H940065	299	229	0.2	1.80	4	120	< 0.5	2	0.76	0.5	14	113	408	7.56	10	< 1	1.02	10	1.39	265	65
H940066	299	229	1.0	1.09	22	90	< 0.5	2	0.66	1.0	16	131	1050	14.65	10	< 1	0.70	< 10	1.04	795	105
H940067	299	229	0.2	1.83	< 2	130	< 0.5	< 2	0.48	1.0	11	114	701	5.02	< 10	< 1	1.10	10	1.44	220	75
H940068	299	229	0.2	1.54	4	120	0.5	< 2	0.66	0.5	12	103	441	4.96	10	< 1	0.93	20	1.21	310	230
H940069	299	229	24.2	1.10	14	100	< 0.5	132	0.70	1.5	15	127	174	6.70	< 10	< 1	0.61	10	0.77	440	68
H940070	299	229	0.2	1.56	6	100	< 0.5	< 2	0.28	< 0.5	11	127	256	6.17	< 10	< 1	0.83	10	1.20	215	43
H940071	299	229	< 0.2	1.52	14	120	< 0.5	< 2	0.21	< 0.5	10	128	212	5.92	10	< 1	0.76	10	1.05	180	101
H940072	299	229	1.2	1.28	4	110	< 0.5	< 2	0.27	< 0.5	14	127	555	6.15	10	< 1	0.63	30	0.76	195	1930
H940073	299	229	0.2	1.67	< 2	140	< 0.5	< 2	0.57	0.5	12	112	333	6.77	10	< 1	1.03	10	1.25	180	102
H940074	299	229	< 0.2	1.26	4	110	< 0.5	< 2	0.43	< 0.5	7	127	95	5.66	10	< 1	0.72	10	0.96	140	25

CERTIFICATION: Ian Bichler

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H940035	299	229	0.06	14	910	< 2	< 2	8	19	0.13	< 10	< 10	66	10	78
H940036	299	229	0.06	16	950	< 2	< 2	8	19	0.14	< 10	< 10	64	10	50
H940037	299	229	0.05	11	730	< 2	< 2	7	18	0.10	< 10	< 10	62	10	34
H940038	299	229	0.03	13	920	2	< 2	9	34	0.12	< 10	< 10	57	10	24
H940039	299	229	0.03	13	630	< 2	< 2	9	20	0.11	< 10	< 10	79	10	26
H940040	299	229	0.04	12	700	< 2	< 2	6	15	0.08	< 10	< 10	44	10	76
H940041	299	229	0.03	12	860	104	< 2	6	22	0.08	< 10	< 10	52	20	168
H940042	299	229	0.04	17	640	< 2	< 2	8	15	0.09	< 10	< 10	80	10	116
H940043	299	229	0.03	13	480	4	< 2	6	15	0.06	< 10	< 10	75	< 10	52
H940044	299	229	0.03	9	510	94	< 2	5	18	0.04	< 10	< 10	35	< 10	114
H940045	299	229	0.02	8	320	110	2	3	17	0.03	< 10	< 10	22	< 10	258
H940046	299	229	0.03	16	830	< 2	< 2	7	20	0.08	< 10	< 10	62	10	60
H940047	299	229	0.02	12	860	2	< 2	10	25	0.09	< 10	< 10	64	10	30
H940048	299	229	0.03	7	870	6	< 2	6	29	0.04	< 10	< 10	51	10	20
H940049	299	229	0.03	11	600	4	< 2	7	27	0.07	< 10	< 10	65	10	16
H940050	299	229	0.04	13	610	8	< 2	8	21	0.08	< 10	< 10	77	20	20
H940051	299	229	0.03	13	660	6	< 2	8	18	0.09	< 10	< 10	76	10	34
H940052	299	229	0.02	8	540	< 2	4	6	27	0.06	< 10	< 10	52	20	20
H940053	299	229	0.04	13	760	< 2	< 2	8	30	0.11	< 10	< 10	72	10	22
H940054	299	229	0.03	11	570	4	2	6	23	0.07	< 10	< 10	48	10	22
H940055	299	229	0.02	9	340	8	< 2	4	26	0.05	< 10	< 10	32	10	20
H940056	299	229	0.02	9	460	6	< 2	6	29	0.07	< 10	< 10	39	10	14
H940057	299	229	0.02	11	560	2	< 2	8	24	0.10	< 10	< 10	72	10	16
H940058	299	229	0.03	8	420	4	2	7	22	0.07	< 10	< 10	56	10	16
H940059	299	229	0.02	11	710	< 2	4	6	35	0.07	< 10	< 10	53	10	16
H940060	299	229	0.03	11	650	< 2	< 2	4	20	0.06	< 10	< 10	50	10	34
H940061	299	229	0.04	11	520	< 2	< 2	7	19	0.09	< 10	< 10	77	10	18
H940062	299	229	0.04	10	600	< 2	< 2	7	16	0.07	< 10	< 10	60	10	38
H940063	299	229	0.04	11	610	2	2	7	16	0.07	< 10	< 10	66	< 10	20
H940064	299	229	0.03	10	450	6	< 2	7	19	0.07	< 10	< 10	59	10	36
H940065	299	229	0.04	15	680	4	< 2	10	19	0.10	< 10	< 10	87	10	24
H940066	299	229	0.02	17	390	10	< 2	9	16	0.06	< 10	< 10	168	20	44
H940067	299	229	0.04	12	590	4	< 2	10	15	0.13	< 10	< 10	84	10	58
H940068	299	229	0.04	12	810	< 2	2	8	21	0.11	< 10	< 10	72	10	56
H940069	299	229	0.03	11	520	178	< 2	5	22	0.04	< 10	< 10	50	10	76
H940070	299	229	0.05	12	480	4	< 2	8	15	0.10	< 10	< 10	78	10	32
H940071	299	229	0.05	12	550	< 2	4	8	13	0.08	< 10	< 10	86	10	34
H940072	299	229	0.03	8	690	4	16	5	12	0.04	< 10	< 10	81	10	30
H940073	299	229	0.04	14	760	< 2	< 2	9	17	0.11	< 10	< 10	102	20	20
H940074	299	229	0.04	11	560	< 2	< 2	6	18	0.07	< 10	< 10	75	10	16

CERTIFICATION: Stuart Bichler

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CERTIFICATE OF ANALYSIS A9323675

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940075	299	229	0.2	1.46	2	110	< 0.5	4	0.45	0.5	9	83	393	5.58	10	< 1	0.80	10	1.11	140	95
H940076	299	229	< 0.2	1.40	8	100	< 0.5	< 2	0.42	< 0.5	8	117	168	5.41	10	< 1	0.73	10	1.01	135	31
H940077	299	229	0.6	1.57	< 2	120	< 0.5	< 2	0.69	< 0.5	11	103	496	4.17	10	< 1	0.92	10	1.07	195	277
H940078	299	229	0.4	1.51	2	130	< 0.5	2	0.50	< 0.5	12	138	495	5.46	10	< 1	0.85	10	1.02	245	104
H940079	299	229	0.2	1.33	< 2	120	0.5	4	0.37	< 0.5	9	121	407	4.86	< 10	< 1	0.67	10	0.89	200	81
H940080	299	229	0.2	1.26	8	100	< 0.5	8	0.47	0.5	15	98	464	5.00	< 10	< 1	0.79	10	0.88	130	87
H940081	299	229	0.2	1.15	< 2	130	< 0.5	6	0.64	0.5	7	113	266	4.32	< 10	< 1	0.65	10	0.86	175	43
H940082	299	229	0.2	1.55	2	140	< 0.5	< 2	0.50	< 0.5	10	116	395	4.93	10	< 1	0.91	10	1.09	205	68
H940083	299	229	0.2	0.85	12	120	< 0.5	6	0.54	< 0.5	11	119	265	3.87	< 10	< 1	0.58	10	0.75	240	78
H940084	299	229	0.4	0.90	6	90	< 0.5	< 2	0.50	0.5	15	110	377	4.50	< 10	< 1	0.55	10	0.56	235	188
H940085	299	229	< 0.2	1.41	6	60	< 0.5	< 2	0.59	0.5	13	110	292	5.33	< 10	< 1	0.95	10	1.10	260	93
H940086	299	229	< 0.2	0.99	4	100	< 0.5	2	0.21	0.5	11	128	111	5.49	10	< 1	0.55	10	0.76	300	75
H940087	299	229	< 0.2	1.01	8	80	< 0.5	< 2	0.25	0.5	12	144	75	5.41	< 10	< 1	0.48	10	0.62	305	34
H940088	299	229	< 0.2	1.23	2	100	< 0.5	< 2	0.47	< 0.5	10	133	224	5.22	10	< 1	0.68	10	0.88	215	124
H940089	299	229	< 0.2	0.95	6	70	< 0.5	< 2	0.32	< 0.5	8	134	42	5.31	10	< 1	0.48	10	0.71	200	140
H940090	299	229	< 0.2	1.17	< 2	100	< 0.5	< 2	0.52	0.5	9	135	110	3.39	10	< 1	0.71	10	0.94	200	158
H940091	299	229	0.2	1.30	12	110	< 0.5	< 2	0.31	< 0.5	9	129	423	4.51	10	< 1	0.80	10	0.95	205	105
H940092	299	229	0.2	1.19	< 2	80	< 0.5	< 2	0.34	0.5	10	122	374	4.56	10	< 1	0.71	10	0.80	210	55
H940093	299	229	0.2	1.30	< 2	110	< 0.5	< 2	0.41	0.5	11	117	398	4.62	10	< 1	0.87	10	1.05	255	116
H940094	299	229	< 0.2	1.13	2	100	< 0.5	< 2	0.26	0.5	14	160	73	4.70	10	< 1	0.65	10	0.73	200	37
H940095	299	229	< 0.2	1.02	6	90	< 0.5	< 2	0.23	< 0.5	6	144	49	4.75	< 10	< 1	0.51	10	0.77	185	19
H940096	299	229	< 0.2	0.85	4	100	< 0.5	< 2	0.57	< 0.5	8	105	89	3.24	< 10	< 1	0.46	10	0.74	190	35
H940097	299	229	< 0.2	0.76	14	110	< 0.5	< 2	0.49	< 0.5	7	96	83	4.73	< 10	< 1	0.45	< 10	0.73	185	23
H940098	299	229	0.4	0.58	66	80	< 0.5	< 2	0.61	< 0.5	7	165	156	3.96	< 10	< 1	0.20	< 10	0.47	845	244
H940099	299	229	26.2	0.87	120	40	< 0.5	104	0.51	1.5	8	140	249	5.43	< 10	< 1	0.51	< 10	0.63	235	124
H940100	299	229	< 0.2	1.13	6	100	< 0.5	< 2	0.31	< 0.5	8	130	63	4.60	10	< 1	0.62	10	0.85	105	132
H940101	299	229	< 0.2	1.11	6	90	< 0.5	2	0.34	< 0.5	7	140	70	5.12	10	< 1	0.61	10	0.87	105	38
H940102	299	229	0.4	1.04	< 2	80	< 0.5	6	0.39	0.5	10	124	657	4.97	< 10	< 1	0.51	< 10	0.76	120	83
H940103	299	229	< 0.2	0.84	< 2	90	< 0.5	< 2	0.37	0.5	8	97	361	4.28	< 10	< 1	0.43	< 10	0.69	115	47
H940104	299	229	0.4	0.88	16	80	< 0.5	2	0.80	< 0.5	6	169	278	3.16	< 10	< 1	0.54	< 10	0.77	120	65
H940105	299	229	0.8	1.00	8	80	< 0.5	2	0.56	0.5	14	114	515	6.93	10	< 1	0.63	< 10	0.74	140	280
H940106	299	229	< 0.2	0.85	8	90	< 0.5	< 2	0.58	< 0.5	10	112	223	5.66	< 10	< 1	0.55	< 10	0.77	130	49
H940107	299	229	< 0.2	0.97	18	110	< 0.5	< 2	1.07	< 0.5	8	128	71	4.80	< 10	< 1	0.46	< 10	0.61	130	154
H940108	299	229	0.2	1.05	2	70	< 0.5	< 2	1.17	0.5	10	128	147	4.64	< 10	< 1	0.46	< 10	0.60	145	50
H940109	299	229	0.2	1.42	2	180	< 0.5	2	1.17	0.5	10	100	211	5.45	10	< 1	0.67	10	0.99	155	46
H940110	299	229	< 0.2	1.15	10	80	< 0.5	< 2	0.68	< 0.5	14	104	165	7.31	10	< 1	0.58	< 10	0.91	160	22

CERTIFICATION: Ian Pouchler

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-227
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-NOV-93
Invoice No. :I9323675
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323675

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940075	299	229	0.05	10	710	2	2	7	17	0.08	< 10	< 10	73	10	16
H940076	299	229	0.05	10	560	< 2	< 2	7	17	0.07	< 10	< 10	76	10	16
H940077	299	229	0.04	10	590	8	4	8	16	0.10	< 10	< 10	65	10	22
H940078	299	229	0.04	10	750	2	< 2	8	15	0.08	< 10	< 10	83	20	26
H940079	299	229	0.05	8	510	2	< 2	6	15	0.06	< 10	< 10	64	10	22
H940080	299	229	0.04	9	500	6	2	6	17	0.07	< 10	< 10	51	10	14
H940081	299	229	0.06	9	520	4	< 2	6	22	0.04	< 10	< 10	55	10	18
H940082	299	229	0.07	11	630	< 2	< 2	7	21	0.08	< 10	< 10	73	10	26
H940083	299	229	0.03	7	390	2	2	4	19	0.04	< 10	< 10	35	10	28
H940084	299	229	0.03	7	380	< 2	< 2	3	20	0.02	< 10	< 10	37	10	48
H940085	299	229	0.04	9	610	6	< 2	8	19	0.10	< 10	< 10	53	130	54
H940086	299	229	0.05	10	540	2	< 2	6	14	0.06	< 10	< 10	75	10	70
H940087	299	229	0.04	9	630	< 2	< 2	4	14	0.02	< 10	< 10	53	10	68
H940088	299	229	0.05	9	660	< 2	2	6	19	0.06	< 10	< 10	69	20	20
H940089	299	229	0.05	7	540	< 2	< 2	5	17	0.04	< 10	< 10	66	10	18
H940090	299	229	0.06	9	540	2	< 2	6	19	0.07	< 10	< 10	53	10	20
H940091	299	229	0.06	10	550	4	< 2	7	17	0.09	< 10	< 10	62	10	22
H940092	299	229	0.04	10	560	2	< 2	6	15	0.07	< 10	< 10	56	10	22
H940093	299	229	0.05	10	530	< 2	< 2	9	16	0.10	< 10	< 10	65	10	26
H940094	299	229	0.05	8	500	2	< 2	6	16	0.06	< 10	< 10	49	150	24
H940095	299	229	0.06	9	420	< 2	< 2	6	15	0.04	< 10	< 10	67	10	28
H940096	299	229	0.04	5	450	4	< 2	6	22	0.04	< 10	< 10	47	10	24
H940097	299	229	0.04	8	500	4	2	6	22	0.04	< 10	< 10	66	10	26
H940098	299	229	0.01	7	330	4	2	3	29	< 0.01	< 10	< 10	36	10	22
H940099	299	229	0.02	9	300	106	4	4	22	0.03	< 10	< 10	43	10	22
H940100	299	229	0.06	8	570	< 2	< 2	6	18	0.07	< 10	< 10	70	10	16
H940101	299	229	0.06	9	480	2	< 2	6	17	0.06	< 10	< 10	72	10	16
H940102	299	229	0.05	9	440	< 2	< 2	6	18	0.04	< 10	< 10	63	10	14
H940103	299	229	0.03	8	350	< 2	< 2	5	19	0.04	< 10	< 10	53	10	12
H940104	299	229	0.04	7	690	12	2	5	23	0.04	< 10	< 10	35	< 10	14
H940105	299	229	0.03	9	540	2	2	3	20	0.05	< 10	< 10	53	10	14
H940106	299	229	0.03	9	540	< 2	< 2	5	24	0.05	< 10	< 10	55	10	12
H940107	299	229	0.02	7	410	< 2	2	3	26	0.03	< 10	< 10	41	10	14
H940108	299	229	0.01	9	520	< 2	< 2	4	16	0.04	< 10	< 10	45	10	14
H940109	299	229	0.03	9	700	< 2	2	5	32	0.06	< 10	< 10	58	10	16
H940110	299	229	0.03	11	480	< 2	< 2	7	21	0.06	< 10	< 10	85	20	16

CERTIFICATION: Stewart Bichler

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: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :3
Certificate Date: 03-NOV-93
Invoice No. :19323676
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323676

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589915H	208	274	0.05	0.090	0.31	3060						
589916H	208	276	0.04	0.110	0.31	10200						
589917H	208	276	0.03	0.104	0.27	8440						
589918H	208	274	0.04	0.104	0.21	6960						
589919H	208	276	0.04	0.046	0.24	9680						
589920H	208	276	0.04	0.065	0.31	9720						
589921H	208	276	0.04	0.076	0.31	9140						
589922H	208	276	0.04	0.061	0.27	8320						
589923H	208	276	0.05	0.080	0.41	7460						
589924H	208	276	0.04	0.055	0.21	8740						
589925H	208	273	0.03	0.073	0.38	11840						
589926H	208	276	0.03	0.031	0.14	8520						
589927H	208	276	0.03	0.036	0.03	9800						
589928H	208	276	0.03	0.022	0.03	8060						
589929H	208	276	0.02	0.026	0.07	9220						
589930H	208	276	0.05	0.030	0.07	10180						
589931H	208	274	0.08	0.021	0.07	5880						
589932H	208	274	0.16	0.063	0.21	6080						
589933H	208	276	0.20	0.058	0.14	7400						
589934H	208	274	0.08	0.017	< 0.03	7120						
589935H	208	276	0.09	0.047	0.24	9460						
589936H	208	276	0.26	0.052	0.41	9920						
589937H	208	274	0.32	0.056	0.31	6520						
589938H	208	276	0.28	0.054	0.31	10140						
589939H	208	276	0.22	0.120	0.27	9780						
589940H	208	276	0.14	0.090	0.17	10500						
589941H	208	274	0.07	0.010	0.03	4520						
589942H	208	276	0.23	0.022	0.17	9120						
589943H	208	276	0.18	0.028	< 0.03	10960						
589944H	208	273	0.22	0.005	< 0.03	11860						
589945H	208	274	0.23	0.003	< 0.03	7000						
589946H	208	276	0.16	0.005	< 0.03	7380						
589947H	208	276	0.07	0.004	< 0.03	10840						
589948H	208	276	0.08	0.003	< 0.03	9320						
589949H	208	273	0.05	0.005	< 0.03	13680						
589950H	208	273	0.04	0.003	< 0.03	12880						
940501H	208	276	0.05	0.005	< 0.03	11200						
940502H	208	276	0.06	0.007	< 0.03	9400						
940503H	208	273	0.06	0.003	< 0.03	12040						
940504H	208	273	0.06	0.011	< 0.03	12180						

CERTIFICATION: Said Teinab

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PHONE: 604-984-0221

: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-NOV-93
Invoice No. : I9323676
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323676

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
940505H	208	273	0.04	0.013	0.07	12940						
940506H	208	276	0.05	0.005	< 0.03	11560						
940507H	208	276	0.06	0.008	< 0.03	10820						
940508H	208	274	0.05	0.004	< 0.03	5060						
940509H	208	276	0.05	0.006	< 0.03	11400						
940510H	208	276	0.06	0.004	< 0.03	9920						
940511H	208	276	0.05	0.002	< 0.03	9740						
940512H	208	276	0.16	0.004	< 0.03	7400						
940513H	208	273	0.05	0.006	< 0.03	12020						
940514H	208	276	0.07	0.004	0.07	11000						
940515H	208	276	0.04	0.008	< 0.03	11420						
940516H	208	273	0.04	0.009	0.03	11940						
940517H	208	273	0.10	0.016	< 0.03	12000						
940518H	208	273	0.07	0.004	0.10	12980						
940519H	208	273	0.05	0.008	0.07	12180						
940520H	208	273	0.06	0.010	< 0.03	12080						
940521H	208	276	0.08	0.003	< 0.03	11260						
940522H	208	273	0.09	0.009	0.10	12360						
940523H	208	276	0.05	0.006	< 0.03	11120						
940524H	208	276	0.06	0.004	< 0.03	10080						
940525H	208	273	0.05	0.003	< 0.03	13740						
940526H	208	276	0.07	0.006	0.07	8940						
940527H	208	276	0.05	0.004	< 0.03	7760						
940528H	208	273	0.08	0.006	< 0.03	12540						
940529H	208	276	0.06	0.004	0.07	10740						
940530H	208	274	0.05	0.002	< 0.03	6340						
940531H	208	273	0.04	0.005	< 0.03	11860						
940532H	208	273	0.04	0.003	0.07	12780						
940533H	208	273	0.03	0.004	0.07	13060						
940534H	208	273	0.01	0.043	< 0.03	13240						
940535H	208	273	0.02	0.013	< 0.03	13000						
940536H	208	273	0.03	0.004	< 0.03	13540						
940537H	208	273	0.03	0.009	< 0.03	12800						
940538H	208	273	0.03	0.012	< 0.03	12740						
940539H	208	273	0.09	0.055	0.10	13680						
940540H	208	273	0.10	0.025	0.07	13200						
940541H	208	273	0.09	0.063	0.10	12960						
940542H	208	273	0.10	0.035	0.10	13540						
940543H	208	273	0.10	0.037	0.14	13400						
940544H	208	273	0.14	0.041	0.14	13080						

CERTIFICATION: David Tennant

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-NOV-93
Invoice No. : 19323676
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323676

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
940545H	208	273	0.10	0.033	0.07	13180
940546H	208	273	0.12	0.033	0.10	12580
940547H	208	273	0.06	0.019	0.07	12220
940548H	208	273	0.04	0.009	0.03	12600
940549H	208	276	0.02	0.005	0.07	11620
940550H	208	273	0.03	0.003	< 0.03	12640
940551H	208	276	0.04	0.004	0.07	11160
940552H	208	273	0.02	0.003	< 0.03	11980
940553H	208	273	0.04	0.002	0.10	12420
940554H	208	276	0.19	0.008	0.69	11220
940555H	208	273	0.06	0.012	0.07	12260
940556H	208	273	0.07	0.004	0.07	12780
940557H	208	276	0.05	0.003	0.10	11360
940558H	208	276	0.02	0.002	< 0.03	11320
940559H	208	276	0.03	0.009	0.07	11760
940560H	208	273	0.02	0.003	< 0.03	13300
940561H	208	273	0.06	0.002	0.07	12560
940562H	208	273	0.07	0.002	0.10	11920
940563H	208	273	0.03	0.001	0.03	11900
940564H	208	273	0.03	0.001	0.07	13020
940565H	208	273	0.03	0.004	< 0.03	12500
940566H	208	273	0.04	0.003	< 0.03	11900
940567H	208	273	0.04	0.002	< 0.03	12460
940568H	208	273	0.05	0.004	< 0.03	13040
940569H	208	276	0.06	0.003	< 0.03	11000
940570H	208	273	0.03	0.009	< 0.03	12500
940571H	208	273	0.02	0.004	< 0.03	12880
940572H	208	273	0.01	0.006	< 0.03	12740
940573H	208	273	0.02	0.005	< 0.03	12680
940574H	208	273	0.02	0.006	< 0.03	12460

CERTIFICATION: David Tsang

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-NOV-93
Invoice No. :19323677
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323677

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589915H	299	229	1.4	2.93	< 2	150	< 0.5	< 2	0.18	< 0.5	2	62	462	5.77	10	< 1	0.72	< 10	1.19	200	475
589916H	299	229	1.0	2.96	< 2	130	< 0.5	< 2	0.10	< 0.5	1	79	423	4.31	< 10	< 1	0.79	10	1.27	125	640
589917H	299	229	1.6	2.16	< 2	100	< 0.5	< 2	0.06	< 0.5	2	98	350	3.77	< 10	< 1	0.61	< 10	0.91	100	604
589918H	299	229	1.4	2.24	< 2	100	< 0.5	< 2	0.03	< 0.5	1	80	394	3.84	< 10	< 1	0.54	< 10	0.98	90	614
589919H	299	229	1.8	2.82	< 2	190	< 0.5	< 2	0.03	< 0.5	2	40	387	3.11	10	< 1	0.44	10	0.88	100	272
589920H	299	229	2.2	1.55	< 2	90	< 0.5	< 2	0.01	< 0.5	1	58	365	4.16	< 10	< 1	0.42	< 10	0.59	65	373
589921H	299	229	2.8	1.69	< 2	130	< 0.5	< 2	0.01	< 0.5	1	77	375	3.71	10	< 1	0.50	10	0.67	75	418
589922H	299	229	2.4	1.84	2	120	< 0.5	< 2	0.01	< 0.5	1	70	411	4.32	10	< 1	0.50	20	0.75	85	376
589923H	299	229	2.6	1.52	< 2	110	< 0.5	< 2	0.01	< 0.5	1	68	429	4.71	10	< 1	0.42	10	0.56	55	463
589924H	299	229	2.0	1.13	< 2	110	< 0.5	< 2	0.01	< 0.5	2	79	409	3.69	< 10	< 1	0.28	10	0.29	35	325
589925H	299	229	1.0	1.61	< 2	120	< 0.5	< 2	0.01	< 0.5	1	74	288	3.53	< 10	< 1	0.35	10	0.48	45	421
589926H	299	229	2.0	2.58	< 2	170	< 0.5	< 2	0.03	< 0.5	2	61	264	2.98	10	< 1	0.47	20	0.80	100	173
589927H	299	229	2.4	2.69	< 2	190	< 0.5	< 2	0.08	< 0.5	2	60	288	2.61	10	< 1	0.55	20	1.04	150	205
589928H	299	229	0.8	2.56	< 2	180	< 0.5	< 2	0.02	< 0.5	2	36	283	2.24	10	< 1	0.38	20	0.86	110	121
589929H	299	229	1.2	2.40	< 2	160	< 0.5	< 2	0.02	< 0.5	3	47	189	2.11	10	< 1	0.27	20	0.83	110	156
589930H	299	229	1.2	1.93	< 2	160	< 0.5	< 2	0.09	< 0.5	6	48	479	2.25	10	< 1	0.29	10	0.92	125	177
589931H	299	229	1.4	2.06	< 2	200	< 0.5	< 2	0.14	< 0.5	9	60	773	2.47	20	< 1	0.59	10	1.05	180	118
589932H	299	229	2.6	1.84	< 2	100	< 0.5	< 2	0.04	< 0.5	24	65	1510	3.85	10	< 1	0.42	10	0.73	145	327
589933H	299	229	2.0	1.70	< 2	70	< 0.5	< 2	0.03	< 0.5	17	69	2040	2.64	10	< 1	0.36	10	0.63	85	316
589934H	299	229	1.6	2.67	< 2	170	< 0.5	< 2	0.06	< 0.5	6	50	752	3.01	10	< 1	0.60	20	1.06	160	92
589935H	299	229	2.6	1.53	4	150	< 0.5	< 2	0.01	< 0.5	6	86	849	2.29	10	< 1	0.45	30	0.70	70	278
589936H	299	229	4.0	1.66	2	100	< 0.5	< 2	0.01	< 0.5	7	93	2590	2.19	10	< 1	0.57	30	0.80	90	288
589937H	299	229	3.8	1.58	< 2	80	< 0.5	< 2	0.02	0.5	51	111	3140	5.58	10	< 1	0.39	20	0.74	95	322
589938H	299	229	3.4	1.78	2	110	< 0.5	< 2	0.01	< 0.5	15	70	2610	2.14	10	< 1	0.50	30	0.81	85	310
589939H	299	229	3.2	1.97	< 2	140	< 0.5	< 2	0.02	< 0.5	9	96	2160	2.01	10	< 1	0.47	30	0.67	70	678
589940H	299	229	2.2	2.39	12	170	< 0.5	< 2	0.04	< 0.5	6	81	1390	2.17	20	< 1	0.76	30	1.06	160	513
589941H	299	229	1.4	3.50	6	250	< 0.5	< 2	0.10	< 0.5	6	66	695	3.17	30	< 1	0.78	30	1.21	275	57
589942H	299	229	1.8	2.69	2	150	< 0.5	< 2	0.05	< 0.5	8	78	2200	2.42	20	< 1	0.68	20	1.10	155	127
589943H	299	229	1.6	2.38	14	180	< 0.5	< 2	0.08	< 0.5	9	70	1790	2.48	20	< 1	0.69	20	0.92	200	148
589944H	299	229	0.8	2.13	16	150	< 0.5	< 2	0.11	< 0.5	9	54	2240	2.46	10	< 1	0.53	20	0.72	120	31
589945H	299	229	0.8	1.93	< 2	170	< 0.5	< 2	0.15	< 0.5	10	45	2340	2.43	20	< 1	0.55	20	0.70	125	18
589946H	299	229	1.4	1.28	12	140	< 0.5	< 2	0.25	1.0	22	37	1635	3.13	10	< 1	0.34	20	0.38	400	30
589947H	299	229	0.6	1.13	8	200	< 0.5	< 2	0.30	0.5	29	27	704	4.12	10	< 1	0.23	20	0.37	680	31
589948H	299	229	0.6	1.19	6	210	< 0.5	< 2	0.25	< 0.5	14	32	837	2.69	10	< 1	0.36	20	0.54	270	22
589949H	299	229	0.6	1.07	8	200	< 0.5	< 2	0.30	0.5	19	33	453	3.43	10	< 1	0.35	20	0.56	445	34
589950H	299	229	0.4	1.22	2	280	< 0.5	< 2	0.27	< 0.5	14	41	381	2.92	10	1	0.39	20	0.72	390	22
940501H	299	229	0.4	1.36	< 2	260	< 0.5	< 2	0.25	< 0.5	10	40	407	2.41	10	< 1	0.39	10	0.81	210	30
940502H	299	229	0.4	1.62	< 2	230	< 0.5	< 2	0.25	0.5	12	45	611	2.92	20	< 1	0.43	20	0.79	285	43
940503H	299	229	0.6	1.16	< 2	240	< 0.5	< 2	0.24	1.0	15	49	529	3.05	10	< 1	0.26	20	0.56	305	16
940504H	299	229	0.4	1.72	< 2	230	< 0.5	< 2	0.26	< 0.5	14	50	611	2.92	10	< 1	0.40	20	0.79	275	69

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-NOV-93
Invoice No. :I9323677
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323677

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589915H	299	229	0.03	7	370	2	12	8	23	0.09	< 10	< 10	79	< 10	28
589916H	299	229	0.02	7	480	< 2	8	9	16	0.10	< 10	< 10	67	< 10	24
589917H	299	229	0.02	3	480	4	10	7	10	0.07	< 10	< 10	49	< 10	20
589918H	299	229	0.02	4	500	4	10	8	10	0.08	< 10	< 10	57	< 10	20
589919H	299	229	0.03	3	530	6	4	11	17	0.10	< 10	< 10	57	< 10	22
589920H	299	229	0.02	2	420	2	6	6	7	0.05	< 10	< 10	68	< 10	16
589921H	299	229	0.03	3	480	< 2	8	6	11	0.06	< 10	< 10	59	< 10	16
589922H	299	229	0.03	3	520	4	8	6	13	0.06	< 10	< 10	59	< 10	16
589923H	299	229	0.03	2	570	< 2	6	5	12	0.04	< 10	< 10	60	< 10	14
589924H	299	229	0.03	1	540	2	6	3	16	0.02	< 10	< 10	31	< 10	14
589925H	299	229	0.02	2	620	2	6	4	23	0.03	< 10	< 10	53	< 10	12
589926H	299	229	0.03	4	760	< 2	2	6	42	0.11	< 10	< 10	49	< 10	22
589927H	299	229	0.03	6	830	< 2	4	6	40	0.16	< 10	< 10	55	< 10	28
589928H	299	229	0.02	4	610	< 2	2	5	33	0.09	< 10	< 10	45	< 10	22
589929H	299	229	0.02	4	780	< 2	2	4	42	0.05	< 10	< 10	39	< 10	18
589930H	299	229	0.03	6	790	< 2	2	4	50	0.09	< 10	< 10	40	< 10	22
589931H	299	229	0.04	9	930	< 2	< 2	6	51	0.17	< 10	< 10	56	< 10	32
589932H	299	229	0.02	9	640	< 2	2	4	40	0.08	< 10	< 10	54	100	24
589933H	299	229	0.02	8	400	< 2	4	4	15	0.03	< 10	< 10	39	30	18
589934H	299	229	0.03	8	940	2	2	6	85	0.13	< 10	< 10	55	< 10	28
589935H	299	229	0.02	6	560	2	4	6	115	0.03	< 10	< 10	50	< 10	18
589936H	299	229	0.03	7	380	< 2	6	6	82	0.05	< 10	< 10	56	< 10	16
589937H	299	229	0.02	8	350	2	6	6	78	0.03	< 10	< 10	59	< 10	20
589938H	299	229	0.02	9	360	< 2	6	7	102	0.04	< 10	< 10	57	< 10	14
589939H	299	229	0.03	6	470	< 2	10	7	155	0.04	< 10	< 10	48	< 10	14
589940H	299	229	0.03	8	670	2	10	10	261	0.12	< 10	< 10	72	< 10	26
589941H	299	229	0.04	13	1430	2	4	8	267	0.20	< 10	< 10	71	< 10	44
589942H	299	229	0.03	12	660	2	2	8	123	0.11	< 10	< 10	61	< 10	26
589943H	299	229	0.03	11	830	< 2	4	7	110	0.13	< 10	< 10	54	< 10	28
589944H	299	229	0.03	13	840	2	6	5	39	0.09	< 10	< 10	44	< 10	22
589945H	299	229	0.03	11	900	2	2	6	27	0.10	< 10	< 10	45	< 10	26
589946H	299	229	0.02	10	840	4	14	4	22	0.03	< 10	< 10	31	< 10	62
589947H	299	229	0.02	12	860	6	6	5	22	0.02	< 10	< 10	31	< 10	106
589948H	299	229	0.04	10	890	< 2	4	4	20	0.07	< 10	< 10	34	< 10	42
589949H	299	229	0.04	9	840	2	4	5	22	0.07	< 10	< 10	34	< 10	66
589950H	299	229	0.05	8	830	< 2	4	4	21	0.09	< 10	< 10	39	< 10	56
940501H	299	229	0.04	8	750	2	2	4	20	0.11	< 10	< 10	39	< 10	42
940502H	299	229	0.05	10	850	2	4	4	21	0.10	< 10	< 10	39	< 10	48
940503H	299	229	0.04	9	780	4	2	3	22	0.04	< 10	< 10	34	< 10	48
940504H	299	229	0.04	11	870	< 2	2	4	22	0.09	< 10	< 10	41	< 10	46

CERTIFICATION: Jhai D'Mar

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 03-NOV-93
Invoice No. : I9323677
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CERTIFICATE OF ANALYSIS A9323677

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940505H	299	229	0.6	1.46	< 2	210	< 0.5	< 2	0.28	1.0	13	52	400	3.00	< 10	< 1	0.48	20	0.82	345	77
940506H	299	229	0.4	1.47	< 2	240	< 0.5	< 2	0.26	1.0	10	40	475	2.26	< 10	< 1	0.44	10	0.90	195	28
940507H	299	229	0.4	1.37	4	170	0.5	< 2	0.24	0.5	9	47	542	2.42	< 10	< 1	0.28	20	0.77	210	42
940508H	299	229	0.4	1.41	< 2	200	< 0.5	< 2	0.28	0.5	8	46	526	2.46	< 10	< 1	0.33	10	0.83	160	18
940509H	299	229	0.4	1.24	< 2	170	< 0.5	< 2	0.23	0.5	8	46	524	2.32	< 10	< 1	0.29	10	0.81	155	39
940510H	299	229	0.6	1.10	< 2	150	< 0.5	< 2	0.22	1.0	9	44	563	2.62	< 10	< 1	0.24	20	0.72	210	27
940511H	299	229	0.2	1.08	< 2	120	< 0.5	< 2	0.19	0.5	6	51	531	2.27	< 10	< 1	0.20	20	0.65	115	17
940512H	299	229	1.2	1.09	2	70	< 0.5	< 2	0.15	0.5	8	57	1600	2.15	< 10	< 1	0.18	20	0.62	125	26
940513H	299	229	0.6	1.29	< 2	100	< 0.5	< 2	0.19	0.5	8	45	528	2.16	< 10	< 1	0.24	20	0.72	95	43
940514H	299	229	0.6	1.33	< 2	160	< 0.5	< 2	0.21	0.5	6	47	638	2.08	< 10	< 1	0.35	20	0.80	120	23
940515H	299	229	0.4	1.14	< 2	210	< 0.5	< 2	0.22	0.5	7	43	385	1.92	< 10	< 1	0.34	10	0.73	130	47
940516H	299	229	0.4	1.04	< 2	160	< 0.5	< 2	0.21	0.5	6	50	363	1.98	< 10	< 1	0.30	20	0.71	115	53
940517H	299	229	0.8	1.54	< 2	190	< 0.5	< 2	0.23	0.5	9	51	1020	2.53	< 10	< 1	0.36	20	0.86	120	101
940518H	299	229	0.8	1.46	< 2	180	< 0.5	< 2	0.23	0.5	7	47	716	2.22	10	< 1	0.32	20	0.79	110	25
940519H	299	229	0.6	1.45	< 2	190	< 0.5	< 2	0.22	0.5	8	59	524	2.10	< 10	< 1	0.36	20	0.81	125	49
940520H	299	229	0.4	1.66	< 2	190	< 0.5	< 2	0.23	< 0.5	7	42	577	2.40	< 10	< 1	0.38	20	0.80	140	65
940521H	299	229	0.6	1.30	< 2	180	< 0.5	< 2	0.23	3.0	10	44	764	2.41	< 10	< 1	0.33	20	0.73	215	17
940522H	299	229	1.0	1.52	< 2	140	< 0.5	< 2	0.24	0.5	8	45	858	2.16	10	< 1	0.31	20	0.76	130	57
940523H	299	229	0.6	1.36	8	230	< 0.5	< 2	0.27	< 0.5	7	48	530	2.27	< 10	< 1	0.45	10	0.82	135	37
940524H	299	229	0.4	1.16	4	230	< 0.5	< 2	0.30	< 0.5	8	51	569	2.63	< 10	< 1	0.43	10	0.82	150	21
940525H	299	229	0.4	1.19	< 2	210	< 0.5	< 2	0.27	0.5	8	45	504	2.83	< 10	< 1	0.45	10	0.87	150	17
940526H	299	229	1.2	1.21	< 2	160	0.5	< 2	0.58	1.0	15	65	633	3.19	< 10	< 1	0.34	10	0.78	310	32
940527H	299	229	0.4	1.43	< 2	220	< 0.5	< 2	0.29	0.5	9	48	519	2.58	< 10	< 1	0.40	10	0.88	150	27
940528H	299	229	0.8	1.57	< 2	170	< 0.5	< 2	0.28	0.5	9	58	727	2.82	< 10	< 1	0.46	10	0.96	140	33
940529H	299	229	0.6	1.74	< 2	130	< 0.5	< 2	0.30	0.5	9	53	601	2.72	< 10	< 1	0.48	10	1.03	135	27
940530H	299	229	0.4	1.89	< 2	150	0.5	< 2	0.37	< 0.5	8	67	464	2.90	< 10	< 1	0.63	10	1.16	150	16
940531H	299	229	0.4	1.49	< 2	150	< 0.5	< 2	0.51	< 0.5	8	93	403	2.75	< 10	< 1	0.59	10	1.03	145	30
940532H	299	229	0.6	1.36	< 2	130	< 0.5	< 2	1.40	0.5	7	73	418	2.68	< 10	< 1	0.50	10	0.99	165	18
940533H	299	229	0.6	1.25	< 2	130	< 0.5	< 2	1.41	< 0.5	8	79	306	2.81	< 10	< 1	0.43	10	0.97	160	21
940534H	299	229	0.2	0.92	< 2	200	< 0.5	< 2	1.29	< 0.5	4	84	115	2.30	< 10	< 1	0.36	10	0.78	135	243
940535H	299	229	0.4	1.12	< 2	210	< 0.5	< 2	1.25	0.5	7	81	185	2.64	< 10	< 1	0.52	10	0.92	130	78
940536H	299	229	0.4	1.19	< 2	170	< 0.5	< 2	1.46	< 0.5	6	76	269	2.65	< 10	< 1	0.51	10	0.96	140	23
940537H	299	229	0.6	1.05	< 2	120	< 0.5	< 2	1.48	< 0.5	5	80	317	2.31	< 10	< 1	0.37	10	0.81	130	57
940538H	299	229	0.4	1.21	< 2	120	< 0.5	< 2	1.44	0.5	8	75	347	2.72	< 10	< 1	0.41	10	0.89	135	64
940539H	299	229	1.2	1.16	< 2	60	0.5	< 2	1.88	< 0.5	9	69	901	2.60	< 10	< 1	0.41	10	0.96	130	310
940540H	299	229	1.2	1.12	< 2	80	< 0.5	< 2	2.40	0.5	9	74	963	2.67	< 10	< 1	0.53	10	1.02	135	139
940541H	299	229	1.2	1.09	< 2	80	< 0.5	< 2	1.77	< 0.5	10	70	821	2.65	< 10	< 1	0.49	20	0.94	125	348
940542H	299	229	1.0	0.97	< 2	80	< 0.5	< 2	1.69	0.5	4	93	863	1.81	< 10	< 1	0.41	10	0.88	110	193
940543H	299	229	1.2	0.84	6	80	< 0.5	< 2	2.11	< 0.5	6	73	991	1.89	< 10	< 1	0.34	20	0.72	95	199
940544H	299	229	1.6	1.13	< 2	130	0.5	< 2	2.16	< 0.5	7	102	1340	2.00	< 10	< 1	0.54	10	1.01	125	248

CERTIFICATION: Jhai D'Mar

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940505H	299	229	0.04	8	780	2	< 2	5	21	0.11	< 10	10	44	< 10	60
940506H	299	229	0.04	11	770	< 2	< 2	4	19	0.12	< 10	< 10	43	< 10	40
940507H	299	229	0.04	6	740	4	< 2	3	16	0.05	< 10	< 10	36	< 10	44
940508H	299	229	0.05	7	800	8	< 2	3	22	0.10	< 10	< 10	39	< 10	34
940509H	299	229	0.04	4	730	4	< 2	3	24	0.08	< 10	< 10	39	< 10	32
940510H	299	229	0.04	6	700	4	< 2	3	20	0.03	< 10	< 10	36	< 10	40
940511H	299	229	0.03	8	720	4	< 2	1	42	0.01	< 10	< 10	24	< 10	26
940512H	299	229	0.03	8	660	4	< 2	1	42	< 0.01	< 10	< 10	18	< 10	28
940513H	299	229	0.03	6	690	4	< 2	2	28	0.05	< 10	< 10	31	< 10	20
940514H	299	229	0.04	7	670	4	< 2	3	17	0.09	< 10	< 10	40	< 10	24
940515H	299	229	0.05	5	700	6	2	3	17	0.10	< 10	< 10	37	< 10	26
940516H	299	229	0.04	6	650	6	< 2	3	16	0.08	< 10	< 10	34	< 10	22
940517H	299	229	0.04	6	710	2	< 2	4	22	0.12	< 10	< 10	46	< 10	22
940518H	299	229	0.05	7	740	4	2	4	25	0.10	< 10	< 10	40	< 10	22
940519H	299	229	0.04	12	670	< 2	2	4	19	0.11	< 10	< 10	42	< 10	28
940520H	299	229	0.04	9	700	8	< 2	4	26	0.11	< 10	< 10	44	< 10	30
940521H	299	229	0.04	7	650	14	4	4	30	0.10	< 10	< 10	39	< 10	136
940522H	299	229	0.04	7	690	< 2	2	4	21	0.10	< 10	< 10	40	< 10	30
940523H	299	229	0.06	6	860	4	< 2	4	47	0.15	< 10	< 10	46	10	24
940524H	299	229	0.07	4	780	2	< 2	4	40	0.15	< 10	< 10	45	< 10	28
940525H	299	229	0.06	6	760	8	< 2	4	38	0.14	< 10	< 10	46	< 10	28
940526H	299	229	0.06	7	660	12	2	3	23	0.06	< 10	< 10	35	< 10	50
940527H	299	229	0.06	8	790	4	2	4	40	0.10	< 10	< 10	44	10	32
940528H	299	229	0.06	8	820	12	< 2	4	39	0.13	< 10	< 10	50	< 10	30
940529H	299	229	0.06	9	860	4	< 2	5	36	0.15	< 10	< 10	52	10	28
940530H	299	229	0.08	10	890	4	< 2	6	41	0.20	< 10	< 10	60	10	28
940531H	299	229	0.11	8	720	2	< 2	5	46	0.15	< 10	< 10	56	< 10	24
940532H	299	229	0.07	9	680	6	< 2	4	89	0.11	< 10	< 10	48	< 10	20
940533H	299	229	0.07	8	630	2	< 2	4	73	0.10	< 10	< 10	53	< 10	22
940534H	299	229	0.05	3	510	8	4	5	50	0.09	< 10	< 10	53	< 10	18
940535H	299	229	0.06	2	410	8	2	9	42	0.15	< 10	< 10	73	< 10	20
940536H	299	229	0.07	7	590	6	2	6	89	0.13	< 10	< 10	58	< 10	20
940537H	299	229	0.06	7	600	4	< 2	3	87	0.08	< 10	< 10	44	< 10	16
940538H	299	229	0.07	8	640	10	< 2	4	75	0.09	< 10	< 10	45	< 10	18
940539H	299	229	0.02	7	750	4	4	5	57	0.04	< 10	10	55	< 10	20
940540H	299	229	0.03	7	530	< 2	2	6	117	0.09	< 10	< 10	70	< 10	20
940541H	299	229	0.03	6	410	2	4	6	76	0.07	< 10	< 10	58	< 10	18
940542H	299	229	0.03	3	310	6	2	5	69	0.05	< 10	10	48	< 10	18
940543H	299	229	0.02	3	300	4	4	4	105	0.02	< 10	< 10	34	< 10	18
940544H	299	229	0.03	6	370	6	2	7	105	0.08	< 10	< 10	58	< 10	20

CERTIFICATION: Jhai D Ma

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :3
Certificate Date: 03-NOV-93
Invoice No. :I9323677
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323677

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940545H	299	229	1.2	1.22	< 2	110	< 0.5	< 2	1.65	0.5	8	108	1000	2.36	< 10	< 1	0.55	10	1.07	140	194
940546H	299	229	1.6	1.35	< 2	100	< 0.5	< 2	1.93	< 0.5	8	122	1195	2.31	< 10	< 1	0.66	10	1.11	140	177
940547H	299	229	1.0	1.23	< 2	100	< 0.5	< 2	1.61	< 0.5	9	97	612	2.56	< 10	< 1	0.51	10	1.04	150	105
940548H	299	229	0.8	1.18	< 2	80	< 0.5	< 2	1.31	0.5	8	96	409	2.70	10	< 1	0.47	10	0.95	150	54
940549H	299	229	0.6	1.38	< 2	140	< 0.5	< 2	1.24	< 0.5	6	101	263	2.80	< 10	< 1	0.59	10	1.07	170	26
940550H	299	229	0.6	1.30	< 2	130	< 0.5	< 2	1.31	0.5	8	85	303	2.68	< 10	< 1	0.54	10	1.03	165	19
940551H	299	229	0.8	0.97	< 2	90	< 0.5	< 2	1.40	0.5	6	112	438	2.74	< 10	< 1	0.37	< 10	0.77	130	24
940552H	299	229	0.6	0.94	< 2	90	< 0.5	< 2	1.43	< 0.5	8	110	252	2.41	< 10	< 1	0.38	< 10	0.77	135	23
940553H	299	229	0.8	1.19	4	130	< 0.5	< 2	1.29	< 0.5	8	90	402	2.72	< 10	< 1	0.48	< 10	1.02	170	18
940554H	299	229	2.0	1.00	< 2	80	< 0.5	< 2	1.51	0.5	9	93	2110	4.30	10	< 1	0.35	10	0.92	195	55
940555H	299	229	1.2	0.43	18	70	< 0.5	< 2	1.97	0.5	13	82	688	5.14	10	< 1	0.24	20	0.83	315	67
940556H	299	229	1.0	0.46	6	100	< 0.5	< 2	1.76	< 0.5	9	99	716	3.41	< 10	< 1	0.25	20	0.69	255	23
940557H	299	229	1.4	0.70	4	130	< 0.5	< 2	1.86	< 0.5	8	90	602	3.35	10	< 1	0.30	20	0.95	230	16
940558H	299	229	0.6	1.27	< 2	200	< 0.5	< 2	1.33	0.5	7	103	275	2.87	10	< 1	0.30	20	0.97	155	12
940559H	299	229	0.8	0.94	< 2	140	< 0.5	< 2	1.86	0.5	7	94	282	2.80	10	< 1	0.29	20	0.73	175	52
940560H	299	229	0.6	1.02	< 2	240	< 0.5	< 2	1.53	0.5	7	84	267	2.68	10	< 1	0.29	20	0.87	155	15
940561H	299	229	0.8	0.92	< 2	160	< 0.5	< 2	2.05	1.0	7	76	619	2.67	10	< 1	0.24	20	0.76	200	17
940562H	299	229	1.2	0.80	< 2	150	< 0.5	< 2	2.54	2.0	5	105	707	2.68	10	< 1	0.26	30	0.73	205	13
940563H	299	229	0.6	0.71	< 2	180	< 0.5	< 2	2.07	0.5	6	71	291	2.56	10	< 1	0.20	30	0.75	160	8
940564H	299	229	0.6	0.59	4	110	< 0.5	< 2	2.14	0.5	7	75	297	2.28	10	< 1	0.21	30	0.63	190	7
940565H	299	229	0.6	1.01	< 2	130	< 0.5	< 2	2.39	0.5	7	90	339	2.54	10	< 1	0.30	30	0.62	175	24
940566H	299	229	0.8	1.30	< 2	100	< 0.5	< 2	2.01	< 0.5	9	100	460	2.95	10	< 1	0.32	30	0.84	170	21
940567H	299	229	0.6	1.47	< 2	100	< 0.5	< 2	1.38	0.5	8	110	411	2.81	10	< 1	0.36	10	1.08	140	10
940568H	299	229	0.6	1.33	4	100	< 0.5	< 2	1.08	< 0.5	8	101	529	2.73	10	< 1	0.29	< 10	1.12	130	25
940569H	299	229	1.0	1.29	< 2	100	< 0.5	< 2	1.14	0.5	8	95	620	2.85	10	< 1	0.26	10	0.99	130	18
940570H	299	229	0.6	1.88	< 2	160	< 0.5	< 2	1.26	1.0	7	99	321	2.79	10	< 1	0.50	20	1.66	190	54
940571H	299	229	0.4	1.64	< 2	310	< 0.5	< 2	1.15	0.5	6	117	205	2.76	10	< 1	0.45	10	1.22	155	28
940572H	299	229	0.2	1.52	6	280	< 0.5	< 2	1.08	< 0.5	7	133	101	2.86	< 10	< 1	0.40	10	1.10	140	35
940573H	299	229	0.4	1.54	< 2	190	< 0.5	< 2	1.15	0.5	6	126	160	2.62	< 10	< 1	0.28	10	1.11	135	29
940574H	299	229	0.2	1.62	< 2	170	< 0.5	< 2	1.34	0.5	4	154	182	2.68	10	< 1	0.28	10	1.04	140	34

CERTIFICATION: Jhai D Ma

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ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-228
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page per :3-B
Total Pages :3
Certificate Date: 03-NOV-93
Invoice No. :19323677
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323677

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940545H	299	229	0.04	6	360	4	2	9	68	0.08	< 10	< 10	68	10	24
940546H	299	229	0.05	7	430	8	2	9	83	0.11	< 10	< 10	68	10	22
940547H	299	229	0.07	7	570	4	< 2	6	71	0.12	< 10	< 10	52	10	22
940548H	299	229	0.07	8	640	2	2	5	63	0.12	< 10	< 10	52	10	20
940549H	299	229	0.11	9	730	2	2	6	90	0.18	< 10	< 10	58	10	24
940550H	299	229	0.09	9	710	6	2	5	103	0.16	< 10	< 10	54	10	22
940551H	299	229	0.06	8	570	4	4	3	76	0.08	< 10	< 10	37	10	18
940552H	299	229	0.06	8	550	< 2	2	3	84	0.08	< 10	< 10	37	10	18
940553H	299	229	0.07	9	690	2	< 2	4	71	0.11	< 10	< 10	50	10	24
940554H	299	229	0.05	7	700	4	4	3	67	0.06	< 10	< 10	36	10	26
940555H	299	229	0.02	6	550	4	4	2	71	< 0.01	< 10	< 10	22	20	40
940556H	299	229	0.03	8	630	6	4	2	54	< 0.01	< 10	< 10	19	10	48
940557H	299	229	0.04	8	760	4	2	2	53	< 0.01	< 10	< 10	21	10	38
940558H	299	229	0.07	9	800	2	< 2	5	131	0.04	< 10	< 10	38	10	30
940559H	299	229	0.05	8	740	10	2	3	91	0.01	< 10	< 10	25	10	36
940560H	299	229	0.05	7	770	8	2	4	110	0.05	< 10	< 10	37	10	30
940561H	299	229	0.04	8	770	12	< 2	3	212	0.01	< 10	< 10	27	10	60
940562H	299	229	0.04	7	780	16	4	2	225	< 0.01	< 10	< 10	20	10	142
940563H	299	229	0.04	7	790	8	2	3	354	0.01	< 10	< 10	24	10	34
940564H	299	229	0.04	7	770	12	2	2	164	< 0.01	< 10	< 10	18	< 10	38
940565H	299	229	0.06	8	770	< 2	< 2	2	152	< 0.01	< 10	< 10	19	10	30
940566H	299	229	0.06	8	810	6	2	2	98	< 0.01	< 10	< 10	22	10	28
940567H	299	229	0.07	7	740	16	2	3	74	0.04	< 10	< 10	32	10	30
940568H	299	229	0.06	8	710	12	< 2	3	60	0.05	< 10	< 10	35	10	30
940569H	299	229	0.07	7	740	8	2	3	57	0.02	< 10	< 10	30	10	26
940570H	299	229	0.04	8	700	16	2	3	59	0.03	< 10	< 10	39	10	40
940571H	299	229	0.08	9	780	8	< 2	4	84	0.10	< 10	< 10	50	10	28
940572H	299	229	0.10	10	790	6	2	4	79	0.15	< 10	< 10	51	10	20
940573H	299	229	0.09	7	750	4	< 2	4	74	0.13	< 10	< 10	48	< 10	20
940574H	299	229	0.11	8	730	2	< 2	4	82	0.10	< 10	< 10	43	10	20

CERTIFICATION: Thai D Ma

Chemex Labs Ltd.

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 92-229
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :3
Certificate Date: 03-NOV-93
Invoice No. :I9323678
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323678

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566959	208	276	0.03	0.002	0.07	7520						
H566960	208	276	0.03	0.023	0.10	10380						
H566961	208	276	0.02	0.008	0.10	10980						
H566962	208	276	0.02	0.003	0.10	10000						
H566963	208	276	0.03	0.010	0.07	10000						
H566964	208	276	0.03	0.002	0.10	7900						
H566965	208	276	0.03	0.014	0.03	11000						
H566966	208	276	0.03	0.006	0.07	9580						
H566967	208	276	0.03	0.006	0.07	10380						
H566968	208	276	0.03	0.015	0.07	10100						
H566969	208	276	0.02	0.003	0.03	7400						
H566970	208	276	0.02	0.003	0.07	7920						
H566971	208	276	0.03	0.005	0.03	10480						
H566972	208	276	0.02	0.004	0.07	7680						
H566973	208	276	0.01	0.002	0.03	7320						
H566974	208	276	0.02	0.009	0.10	9680						
H566975	208	273	0.04	0.025	< 0.03	12780						
H566976	208	273	0.05	0.002	0.03	13800						
H566977	208	276	0.04	0.005	< 0.03	11580						
H566978	208	276	0.14	0.036	0.07	10900						
H566979	208	276	0.20	0.004	< 0.03	11280						
H566980	208	276	0.22	0.003	0.34	9020						
H566981	208	273	0.05	0.004	< 0.03	12920						
H566982	208	276	0.07	0.005	0.03	11080						
H566983	208	273	0.07	0.007	0.07	12840						
H566984	208	276	0.03	0.022	0.03	11360						
H566985	208	273	0.26	0.007	0.07	12340						
H566986	208	276	0.19	0.006	< 0.03	11160						
H566987	208	273	0.09	0.007	0.07	11880						
H566988	208	276	0.11	0.010	< 0.03	11000						
H566989	208	273	0.18	0.021	0.03	12220						
H566990	208	276	0.28	0.005	< 0.03	11040						
H566991	208	273	0.16	0.005	0.07	12740						
H566992	208	273	0.20	0.005	< 0.03	12260						
H566993	208	274	0.70	0.009	< 0.03	6820						
H566994	208	276	0.22	0.012	< 0.03	10600						
H566995	208	274	0.05	0.002	< 0.03	5900						
H566996	208	273	0.15	0.004	0.03	12440						
H566997	208	276	0.27	0.016	< 0.03	11300						
H566998	208	273	0.24	0.025	< 0.03	12040						

CERTIFICATION: David Tetreault

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CERTIFICATE OF ANALYSIS A9323678

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H566999	208	273	0.22	0.016	0.07	13440						
H567000	208	273	0.40	0.024	0.07	14620						
H567001	208	273	0.04	0.004	0.07	12640						
H567002	208	273	0.12	0.004	0.07	11960						
H567003	208	273	0.11	0.004	< 0.03	12520						
H567004	208	276	0.04	0.006	< 0.03	11160						
H567005	208	273	0.12	0.009	0.03	14920						
H567006	208	273	0.37	0.006	0.14	12320						
H567007	208	273	0.08	0.004	0.14	13360						
H567008	208	276	0.10	0.010	0.75	7920						
H567009	208	276	0.06	0.002	< 0.03	10560						
H567010	208	276	0.15	0.015	0.07	7740						
H567011	208	276	0.04	0.014	0.03	7620						
H567012	208	273	0.06	0.005	0.03	12040						
H567013	208	276	0.05	0.015	< 0.03	10780						
H567014	208	273	0.11	0.007	< 0.03	13360						
H567015	208	273	0.12	0.071	< 0.03	13340						
H567016	208	276	0.14	0.015	0.07	11740						
H567017	208	273	0.07	0.011	< 0.03	12340						
H567018	208	276	0.05	0.013	0.07	11300						
H567019	208	273	0.08	0.022	0.10	12380						
H567020	208	273	0.03	0.009	< 0.03	12620						
H567021	208	273	0.02	0.010	0.03	12640						
H567022	208	276	0.11	0.013	0.27	11700						
H567023	208	273	0.13	0.018	0.07	11820						
H567024	208	273	0.15	0.036	0.07	11960						
H567025	208	273	0.06	0.010	< 0.03	11840						
H567026	208	273	0.04	0.009	< 0.03	12220						
H567027	208	276	0.07	0.019	0.18	11120						
H567028	208	273	0.04	0.012	< 0.03	13260						
H567029	208	273	0.03	0.010	< 0.03	14180						
H567030	208	273	0.01	0.009	< 0.03	14080						
H567031	208	273	0.01	0.119	< 0.03	13180						
H567032	208	273	0.03	0.012	< 0.03	12540						
H567033	208	273	0.10	0.026	0.48	13880						
H567034	208	273	0.03	0.010	< 0.03	13060						
H567035	208	273	0.02	0.011	< 0.03	13920						
H567036	208	273	0.02	0.008	< 0.03	12920						
H567037	208	273	0.04	0.010	< 0.03	12400						
H567038	208	273	0.03	0.003	< 0.03	13000						

CERTIFICATION: Said Tennak

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 92-229
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323678

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H567039	208	273	0.03	0.015	< 0.03	12680
H567040	208	273	0.04	0.011	< 0.03	13600
H567041	208	273	0.02	0.012	< 0.03	12780
H567042	208	273	0.05	0.021	< 0.03	12900
H567043	208	273	0.02	0.013	< 0.03	12400
H567044	208	276	0.02	0.002	< 0.03	11500
H567045	208	273	0.02	0.013	< 0.03	12160
H567046	208	273	0.02	0.013	< 0.03	13000
H567047	208	273	0.02	0.007	< 0.03	12720

CERTIFICATION: Said Zeinab

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CERTIFICATE OF ANALYSIS A9323679

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H566959	299	229	0.6	2.65	6	170	< 0.5	< 2	0.03	< 0.5	1	82	333	3.44	10	< 1	0.55	20	0.44	30	18
H566960	299	229	1.0	2.34	8	200	< 0.5	< 2	0.02	< 0.5	1	107	279	3.15	10	< 1	0.65	20	0.53	30	136
H566961	299	229	1.0	1.83	8	220	< 0.5	< 2	0.02	< 0.5	1	101	254	3.76	< 10	< 1	0.88	30	0.29	15	47
H566962	299	229	0.4	2.22	< 2	210	< 0.5	< 2	0.04	0.5	3	104	251	3.62	10	< 1	0.64	20	0.58	60	23
H566963	299	229	1.2	1.69	20	240	0.5	< 2	0.04	< 0.5	3	100	264	3.35	< 10	< 1	0.75	20	0.54	45	63
H566964	299	229	0.6	2.13	< 2	250	< 0.5	< 2	0.04	< 0.5	2	97	324	3.51	10	< 1	0.68	20	0.65	45	19
H566965	299	229	1.2	1.51	6	320	0.5	< 2	0.03	< 0.5	7	105	305	4.30	< 10	< 1	0.78	20	0.37	50	82
H566966	299	229	0.4	1.55	2	320	< 0.5	< 2	0.04	< 0.5	4	121	322	3.58	< 10	< 1	0.68	20	0.35	50	34
H566967	299	229	0.8	1.25	24	260	< 0.5	< 2	0.04	0.5	6	95	283	5.56	< 10	< 1	0.97	20	0.16	75	33
H566968	299	229	0.6	1.64	22	240	0.5	4	0.04	0.5	8	94	277	3.88	< 10	< 1	0.83	30	0.22	90	86
H566969	299	229	0.2	0.89	20	200	< 0.5	< 2	0.04	0.5	5	65	213	4.17	< 10	< 1	0.78	20	0.16	50	17
H566970	299	229	0.2	1.06	14	230	< 0.5	< 2	0.07	< 0.5	3	78	242	3.58	< 10	< 1	0.51	20	0.25	45	21
H566971	299	229	0.4	1.09	168	200	< 0.5	< 2	0.06	1.0	4	67	361	3.40	< 10	< 1	0.39	20	0.33	50	26
H566972	299	229	1.0	0.78	14	210	< 0.5	< 2	0.04	< 0.5	4	62	178	3.88	< 10	< 1	0.65	20	0.11	45	24
H566973	299	229	0.8	0.83	18	210	< 0.5	< 2	0.03	< 0.5	1	60	137	3.19	< 10	< 1	0.72	20	0.09	20	15
H566974	299	229	2.2	0.76	38	130	< 0.5	4	0.02	< 0.5	3	51	174	4.68	< 10	< 1	1.00	10	0.08	10	53
H566975	299	229	0.2	1.32	22	160	0.5	< 2	0.15	< 0.5	7	73	448	3.78	< 10	< 1	0.51	20	0.28	55	151
H566976	299	229	0.2	1.20	10	90	0.5	< 2	1.05	1.0	14	68	547	3.70	< 10	< 1	0.43	10	0.59	160	9
H566977	299	229	0.4	1.31	< 2	110	0.5	< 2	1.21	0.5	11	70	383	3.27	< 10	< 1	0.40	10	0.69	155	30
H566978	299	229	0.4	1.31	6	70	0.5	2	1.13	0.5	18	62	1445	4.03	< 10	< 1	0.42	20	0.52	170	214
H566979	299	229	0.4	1.37	6	50	0.5	< 2	0.77	1.0	15	74	2020	5.15	< 10	< 1	0.38	10	0.52	110	18
H566980	299	229	0.6	1.49	20	20	< 0.5	18	0.99	1.0	17	85	2450	7.82	10	< 1	0.39	10	0.72	205	13
H566981	299	229	0.2	1.34	2	100	0.5	< 2	1.75	0.5	15	90	516	4.01	< 10	< 1	0.34	20	0.73	185	19
H566982	299	229	0.2	1.47	10	100	0.5	< 2	0.80	0.5	17	88	782	3.72	< 10	< 1	0.38	20	0.63	285	32
H566983	299	229	0.2	1.77	18	100	0.5	< 2	0.50	0.5	13	106	701	4.11	< 10	< 1	0.40	20	0.84	100	44
H566984	299	229	0.4	1.59	< 2	100	0.5	< 2	1.31	0.5	16	102	378	3.54	10	< 1	0.39	20	0.70	120	133
H566985	299	229	0.6	1.88	26	70	0.5	4	0.47	0.5	14	103	2720	4.57	< 10	< 1	0.53	10	0.82	100	39
H566986	299	229	0.4	2.22	8	100	< 0.5	< 2	0.27	0.5	14	87	2030	3.69	< 10	< 1	0.53	10	1.03	65	36
H566987	299	229	0.2	2.18	< 2	120	< 0.5	< 2	0.27	0.5	10	115	1030	3.38	< 10	< 1	0.38	10	1.25	100	41
H566988	299	229	0.2	2.19	< 2	130	< 0.5	< 2	0.28	0.5	11	101	1250	3.65	< 10	< 1	0.57	10	1.21	90	59
H566989	299	229	0.4	2.43	4	120	0.5	< 2	0.28	0.5	14	79	1935	3.42	10	< 1	0.49	20	1.29	150	142
H566990	299	229	0.4	2.08	20	80	< 0.5	4	0.23	0.5	15	74	2780	3.82	< 10	< 1	0.55	10	1.15	90	30
H566991	299	229	0.2	2.33	< 2	100	< 0.5	< 2	0.25	0.5	8	81	1670	3.34	< 10	< 1	0.43	10	1.12	100	34
H566992	299	229	0.2	2.11	4	80	0.5	< 2	0.27	0.5	12	85	2070	3.54	< 10	< 1	0.49	< 10	0.87	55	26
H566993	299	229	0.2	2.81	12	80	0.5	4	0.28	< 0.5	14	98	7310	3.67	< 10	< 1	0.49	10	0.59	40	52
H566994	299	229	0.2	2.59	< 2	90	0.5	< 2	0.33	0.5	11	104	2310	3.95	< 10	< 1	0.61	10	0.76	50	75
H566995	299	229	< 0.2	2.28	8	110	< 0.5	2	0.27	0.5	10	104	638	3.15	< 10	< 1	0.49	10	1.21	85	13
H566996	299	229	0.2	2.45	4	120	0.5	< 2	0.26	0.5	10	94	1450	3.19	10	< 1	0.48	20	0.99	90	29
H566997	299	229	0.2	1.96	4	90	< 0.5	2	0.17	0.5	14	74	2730	3.52	< 10	< 1	0.44	10	0.73	60	94
H566998	299	229	< 0.2	2.01	4	70	< 0.5	< 2	0.13	< 0.5	17	82	2480	3.75	< 10	< 1	0.64	< 10	0.70	35	155

CERTIFICATION: Hart Bichler

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CERTIFICATE OF ANALYSIS A9323679

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566959	299	229	0.20	4	510	20	< 2	4	120	0.08	< 10	< 10	32	10	6
H566960	299	229	0.16	3	360	14	< 2	4	140	0.06	< 10	< 10	29	10	6
H566961	299	229	0.16	2	390	12	< 2	3	143	0.06	< 10	< 10	23	20	2
H566962	299	229	0.15	6	450	6	< 2	4	104	0.03	< 10	< 10	33	10	22
H566963	299	229	0.15	7	600	8	< 2	3	75	0.01	< 10	< 10	24	10	12
H566964	299	229	0.13	7	670	4	< 2	3	85	0.01	< 10	< 10	28	10	16
H566965	299	229	0.14	4	770	4	< 2	2	60	< 0.01	< 10	< 10	23	120	30
H566966	299	229	0.11	5	700	8	< 2	2	64	< 0.01	< 10	< 10	22	10	26
H566967	299	229	0.12	4	940	10	< 2	2	75	< 0.01	< 10	< 10	18	< 10	30
H566968	299	229	0.09	4	650	16	< 2	2	47	< 0.01	< 10	< 10	19	< 10	34
H566969	299	229	0.08	3	620	8	< 2	1	36	< 0.01	< 10	< 10	13	< 10	22
H566970	299	229	0.12	5	550	16	< 2	2	67	< 0.01	< 10	< 10	18	< 10	14
H566971	299	229	0.13	5	760	12	< 2	2	66	< 0.01	< 10	< 10	15	10	20
H566972	299	229	0.12	2	480	8	< 2	1	51	< 0.01	< 10	< 10	9	< 10	18
H566973	299	229	0.07	1	620	16	< 2	1	48	< 0.01	< 10	< 10	10	10	12
H566974	299	229	0.11	1	630	40	< 2	1	67	< 0.01	< 10	< 10	7	20	4
H566975	299	229	0.14	8	640	6	< 2	2	67	< 0.01	< 10	< 10	15	< 10	30
H566976	299	229	0.06	13	750	8	2	2	39	< 0.01	< 10	< 10	14	320	26
H566977	299	229	0.06	11	790	2	< 2	2	45	< 0.01	< 10	< 10	17	20	22
H566978	299	229	0.02	14	760	4	< 2	1	25	< 0.01	< 10	< 10	13	100	28
H566979	299	229	0.02	15	750	18	2	2	23	< 0.01	< 10	< 10	15	40	30
H566980	299	229	0.03	17	740	8	< 2	2	29	< 0.01	< 10	< 10	22	20	30
H566981	299	229	0.03	14	730	4	< 2	2	45	< 0.01	< 10	< 10	23	20	20
H566982	299	229	0.03	15	750	4	< 2	2	25	< 0.01	< 10	< 10	19	60	38
H566983	299	229	0.04	15	730	18	2	3	22	< 0.01	< 10	< 10	28	70	28
H566984	299	229	0.03	13	800	< 2	2	3	26	< 0.01	< 10	< 10	22	140	22
H566985	299	229	0.03	15	730	8	< 2	3	18	0.01	< 10	< 10	26	60	20
H566986	299	229	0.04	18	750	4	2	4	28	0.01	< 10	< 10	34	10	14
H566987	299	229	0.06	15	770	< 2	< 2	5	22	0.03	< 10	< 10	47	40	22
H566988	299	229	0.04	15	800	2	< 2	5	20	0.03	< 10	< 10	45	20	24
H566989	299	229	0.05	30	790	2	2	5	22	0.03	< 10	< 10	45	60	28
H566990	299	229	0.04	26	720	6	< 2	4	19	0.02	< 10	< 10	36	60	20
H566991	299	229	0.05	20	760	6	< 2	4	21	0.02	< 10	< 10	41	10	24
H566992	299	229	0.03	15	760	8	< 2	3	17	0.01	< 10	< 10	27	40	14
H566993	299	229	0.01	18	810	12	< 2	2	35	< 0.01	< 10	< 10	20	50	16
H566994	299	229	0.02	17	880	6	2	3	27	< 0.01	< 10	< 10	24	20	14
H566995	299	229	0.06	16	790	< 2	< 2	4	21	0.01	< 10	< 10	33	10	18
H566996	299	229	0.04	16	890	16	< 2	3	18	0.01	< 10	< 10	31	10	20
H566997	299	229	0.02	18	860	12	< 2	2	12	0.01	< 10	< 10	25	60	14
H566998	299	229	0.02	15	850	8	< 2	2	9	0.01	< 10	< 10	22	320	10

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#566999	299	229	0.6	1.81	2	80	< 0.5	4	0.23	0.5	17	61	2180	4.07	< 10	< 1	0.46	10	0.58	120	88
#567000	299	229	0.4	1.99	12	90	< 0.5	6	0.45	0.5	15	72	3950	4.72	10	< 1	0.60	20	0.67	185	135
#567001	299	229	0.2	1.92	4	100	< 0.5	2	0.36	1.0	16	85	393	4.28	10	< 1	0.42	20	0.81	185	26
#567002	299	229	0.4	1.85	< 2	90	< 0.5	< 2	0.35	1.5	16	84	1190	4.27	10	< 1	0.41	10	0.83	205	25
#567003	299	229	0.2	1.79	< 2	70	< 0.5	< 2	0.50	0.5	13	86	1110	4.37	10	< 1	0.28	10	1.11	200	24
#567004	299	229	< 0.2	1.88	< 2	120	< 0.5	4	0.49	1.0	14	82	393	3.64	10	< 1	0.38	10	1.02	145	32
#567005	299	229	< 0.2	2.01	< 2	90	< 0.5	< 2	0.21	0.5	12	75	1195	4.44	10	< 1	0.49	10	1.06	100	47
#567006	299	229	1.0	2.51	< 2	120	< 0.5	2	0.19	0.5	15	85	3650	3.87	10	< 1	0.61	10	0.98	70	27
#567007	299	229	0.4	2.06	< 2	120	< 0.5	< 2	0.24	1.0	15	80	834	3.37	10	< 1	0.47	10	1.19	135	30
#567008	299	229	0.6	2.38	2	160	< 0.5	< 2	0.18	< 0.5	10	91	1040	3.09	10	< 1	0.56	10	1.19	115	71
#567009	299	229	< 0.2	2.19	4	130	< 0.5	< 2	0.32	< 0.5	10	81	591	3.17	10	< 1	0.40	10	1.29	170	11
#567010	299	229	0.4	2.14	< 2	130	< 0.5	< 2	0.26	< 0.5	12	81	1650	3.56	10	< 1	0.54	10	1.23	100	88
#567011	299	229	0.2	1.86	6	110	< 0.5	4	0.37	< 0.5	11	87	403	3.15	< 10	< 1	0.48	10	1.23	145	73
#567012	299	229	< 0.2	1.58	< 2	110	< 0.5	2	0.32	0.5	12	79	544	3.72	< 10	< 1	0.46	< 10	1.04	135	27
#567013	299	229	0.2	1.49	< 2	90	< 0.5	4	0.25	0.5	16	92	523	4.30	< 10	< 1	0.49	< 10	0.88	85	78
#567014	299	229	< 0.2	1.37	104	30	< 0.5	2	0.20	0.5	13	91	1025	7.84	< 10	< 1	0.52	10	0.74	55	35
#567015	299	229	0.4	1.60	2	80	< 0.5	< 2	0.18	< 0.5	10	86	1140	3.48	< 10	< 1	0.49	10	0.86	65	449
#567016	299	229	0.4	1.58	6	90	< 0.5	2	0.17	< 0.5	12	74	1365	3.07	< 10	< 1	0.55	10	0.87	55	83
#567017	299	229	0.2	1.43	< 2	80	< 0.5	< 2	0.19	1.0	14	76	668	3.47	< 10	< 1	0.51	10	0.87	60	59
#567018	299	229	0.4	1.54	2	70	< 0.5	< 2	0.23	0.5	13	97	491	4.58	10	< 1	0.46	20	0.98	145	72
#567019	299	229	0.6	1.65	< 2	140	< 0.5	2	0.51	0.5	14	109	801	3.56	10	< 1	0.50	20	1.10	170	127
#567020	299	229	< 0.2	1.51	< 2	90	< 0.5	< 2	1.10	0.5	14	94	315	3.75	10	< 1	0.53	20	0.87	105	38
#567021	299	229	0.2	1.73	< 2	160	< 0.5	< 2	1.12	< 0.5	10	101	242	2.82	10	< 1	0.51	20	1.04	110	50
#567022	299	229	0.6	1.56	14	70	< 0.5	< 2	0.56	0.5	22	62	1140	5.33	10	< 1	0.73	20	0.78	120	76
#567023	299	229	< 0.2	1.33	4	20	< 0.5	14	0.17	1.5	39	97	1325	11.75	10	< 1	0.61	10	0.48	20	93
#567024	299	229	0.2	1.62	10	20	< 0.5	8	0.20	0.5	34	93	1480	9.68	10	< 1	0.64	10	0.70	50	191
#567025	299	229	0.4	1.71	6	120	< 0.5	< 2	0.47	0.5	17	88	585	3.47	10	< 1	0.58	20	1.04	210	53
#567026	299	229	0.2	1.58	2	100	< 0.5	< 2	0.74	0.5	15	89	431	3.86	10	< 1	0.56	20	0.95	210	40
#567027	299	229	0.2	1.58	2	70	< 0.5	< 2	0.25	0.5	25	94	674	5.20	10	< 1	0.63	20	0.75	110	102
#567028	299	229	0.2	1.52	< 2	80	< 0.5	< 2	0.64	1.0	15	80	415	3.60	10	< 1	0.62	20	0.84	75	58
#567029	299	229	< 0.2	1.31	< 2	80	< 0.5	< 2	2.46	0.5	22	89	284	4.35	10	< 1	0.55	20	0.58	105	47
#567030	299	229	< 0.2	1.15	< 2	50	< 0.5	< 2	2.30	1.0	33	92	154	6.67	10	< 1	0.54	20	0.55	85	49
#567031	299	229	0.2	1.37	< 2	60	< 0.5	< 2	0.69	1.5	41	109	138	5.51	10	< 1	0.59	20	0.79	105	707
#567032	299	229	< 0.2	1.51	2	120	< 0.5	< 2	1.04	0.5	13	103	328	3.12	10	< 1	0.44	20	1.03	130	64
#567033	299	229	2.0	1.45	< 2	110	< 0.5	< 2	1.24	0.5	10	94	1050	3.22	10	< 1	0.45	20	1.04	130	157
#567034	299	229	< 0.2	1.84	6	150	< 0.5	< 2	0.97	< 0.5	12	116	320	3.26	10	< 1	0.52	40	1.26	100	59
#567035	299	229	< 0.2	1.76	< 2	130	< 0.5	< 2	1.18	0.5	13	99	208	2.99	10	< 1	0.57	20	1.21	100	61
#567036	299	229	< 0.2	1.81	< 2	100	< 0.5	< 2	0.96	1.0	12	123	182	3.63	< 10	< 1	0.60	10	1.05	95	46
#567037	299	229	0.2	1.77	4	140	< 0.5	< 2	1.21	< 0.5	10	113	425	3.07	10	< 1	0.48	10	1.25	100	52
#567038	299	229	< 0.2	1.70	< 2	120	< 0.5	< 2	1.26	0.5	8	101	319	2.65	10	< 1	0.39	10	1.19	105	13

CERTIFICATION: David Buchan

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-229
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 04-NOV-93
Invoice No. :I9323679
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323679

SAMPLE	PREP CODE	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H566999	299 229	0.02	15	880	2	4	2	11	< 0.01	< 10	< 10	18	570	28
H567000	299 229	0.03	14	820	6	< 2	2	21	< 0.01	< 10	< 10	19	60	36
H567001	299 229	0.03	15	750	8	2	2	17	< 0.01	< 10	< 10	26	20	40
H567002	299 229	0.03	16	770	14	2	2	17	< 0.01	< 10	< 10	23	60	42
H567003	299 229	0.04	16	760	4	2	4	24	< 0.01	< 10	< 10	43	50	36
H567004	299 229	0.04	13	720	8	2	4	22	0.01	< 10	< 10	35	40	30
H567005	299 229	0.04	14	780	8	< 2	3	17	0.01	< 10	< 10	34	40	22
H567006	299 229	0.04	15	850	2	< 2	3	24	0.02	< 10	< 10	31	190	18
H567007	299 229	0.06	14	790	4	< 2	4	20	0.03	< 10	< 10	42	220	34
H567008	299 229	0.06	14	800	2	2	4	23	0.03	< 10	< 10	41	30	26
H567009	299 229	0.06	13	770	2	< 2	4	23	0.08	< 10	< 10	50	20	38
H567010	299 229	0.04	13	760	6	2	4	20	0.10	< 10	< 10	42	20	22
H567011	299 229	0.06	14	700	4	2	4	24	0.11	< 10	< 10	46	80	28
H567012	299 229	0.04	15	700	2	< 2	3	19	0.08	< 10	< 10	37	30	28
H567013	299 229	0.04	14	640	4	< 2	2	18	0.07	< 10	< 10	30	20	18
H567014	299 229	0.03	15	650	6	< 2	2	22	0.05	< 10	< 10	23	30	10
H567015	299 229	0.03	14	690	8	4	2	31	0.04	< 10	10	26	20	16
H567016	299 229	0.03	13	710	6	2	2	23	0.03	< 10	< 10	24	20	14
H567017	299 229	0.03	13	700	4	2	2	21	0.02	< 10	< 10	21	20	14
H567018	299 229	0.04	12	700	4	< 2	2	14	0.01	< 10	< 10	21	10	30
H567019	299 229	0.04	15	700	4	2	4	19	0.03	< 10	< 10	37	50	32
H567020	299 229	0.03	14	690	< 2	4	4	22	0.03	< 10	< 10	32	290	18
H567021	299 229	0.04	12	730	2	< 2	4	27	0.03	< 10	< 10	37	10	18
H567022	299 229	0.03	14	650	8	< 2	2	15	0.02	< 10	< 10	22	90	22
H567023	299 229	0.03	14	540	< 2	2	2	28	0.02	< 10	< 10	16	110	6
H567024	299 229	0.04	22	650	8	2	3	28	0.03	< 10	< 10	25	90	12
H567025	299 229	0.06	13	740	6	< 2	3	24	0.03	< 10	< 10	33	70	38
H567026	299 229	0.04	14	710	4	< 2	4	24	0.03	< 10	< 10	32	10	38
H567027	299 229	0.03	13	660	12	2	3	20	0.02	< 10	< 10	26	40	22
H567028	299 229	0.04	12	660	6	2	2	21	0.03	< 10	< 10	25	10	14
H567029	299 229	0.03	13	600	< 2	2	2	38	0.01	< 10	< 10	19	160	8
H567030	299 229	0.03	12	620	< 2	4	2	30	0.02	< 10	< 10	17	830	8
H567031	299 229	0.03	17	650	2	8	2	21	0.03	< 10	< 10	25	80	20
H567032	299 229	0.05	12	700	8	< 2	2	30	0.02	< 10	< 10	29	10	26
H567033	299 229	0.04	12	730	6	4	3	36	0.02	< 10	< 10	28	10	22
H567034	299 229	0.06	15	760	< 2	< 2	4	36	0.03	< 10	< 10	42	10	20
H567035	299 229	0.06	13	760	< 2	2	3	43	0.03	< 10	< 10	30	30	18
H567036	299 229	0.05	15	750	8	2	2	37	0.04	< 10	< 10	25	20	18
H567037	299 229	0.07	14	770	< 2	4	3	41	0.08	< 10	< 10	36	10	18
H567038	299 229	0.06	13	730	6	2	3	42	0.03	< 10	< 10	32	10	20

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 93-229
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu. :3-A
Total Pag.. :3
Certificate Date: 04-NOV-93
Invoice No. :I9323679
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323679

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567039	299	229	0.2	1.57	6	110	< 0.5	< 2	0.96	0.5	9	100	328	3.30	< 10	< 1	0.42	10	1.16	90	88
H567040	299	229	< 0.2	1.56	< 2	110	< 0.5	< 2	0.86	< 0.5	10	105	407	3.10	< 10	< 1	0.46	< 10	1.23	90	63
H567041	299	229	0.2	1.63	< 2	130	< 0.5	< 2	1.09	0.5	9	123	266	3.12	< 10	< 1	0.52	< 10	1.29	100	63
H567042	299	229	0.4	1.60	8	90	< 0.5	< 2	1.28	< 0.5	11	121	569	4.07	10	< 1	0.56	20	1.12	150	127
H567043	299	229	0.2	1.77	< 2	150	< 0.5	< 2	0.79	0.5	13	122	253	3.37	10	< 1	0.55	10	1.33	165	88
H567044	299	229	< 0.2	1.77	< 2	120	< 0.5	< 2	1.00	0.5	11	135	190	3.35	10	< 1	0.59	20	1.20	150	17
H567045	299	229	0.2	1.61	< 2	110	< 0.5	< 2	1.23	0.5	13	130	220	3.64	10	< 1	0.55	20	1.18	155	83
H567046	299	229	< 0.2	1.65	< 2	130	< 0.5	< 2	1.10	< 0.5	10	150	264	3.28	10	< 1	0.58	10	1.29	135	79
H567047	299	229	< 0.2	1.54	< 2	140	< 0.5	< 2	1.67	0.5	9	104	198	2.99	10	< 1	0.48	10	1.20	90	34

CERTIFICATION: Frank Pardee

Chemex Labs Ltd.

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Project : CASINO 93-229
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page N :3-B
Total Pa :3
Certificate Date: 04-NOV-93
Invoice No. : I9323679
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323679

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567039	299	229	0.06	13	720	10	< 2	3	36	0.07	< 10	< 10	39	20	18
H567040	299	229	0.06	13	720	< 2	6	4	34	0.09	< 10	< 10	41	290	18
H567041	299	229	0.07	15	740	2	< 2	4	43	0.09	< 10	< 10	43	40	20
H567042	299	229	0.06	14	830	4	< 2	3	43	0.06	< 10	< 10	37	20	26
H567043	299	229	0.07	14	790	2	4	5	38	0.09	< 10	< 10	48	10	32
H567044	299	229	0.07	15	760	4	2	4	40	0.05	< 10	< 10	41	10	28
H567045	299	229	0.07	16	780	12	2	4	50	0.04	< 10	< 10	37	20	24
H567046	299	229	0.08	15	780	< 2	2	5	66	0.08	< 10	< 10	48	20	24
H567047	299	229	0.06	14	710	2	4	4	146	0.07	< 10	< 10	43	10	16

CERTIFICATION: Stuart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 230
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :2
Certificate Date: 31-OCT-93
Invoice No. :19323469
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323469

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H589327	208	274	0.02	0.020	0.27	2280
H589328	208	274	0.01	0.019	0.21	5780
H589329	208	276	0.02	0.040	0.17	8160
H589330	208	276	0.01	0.049	0.14	7720
H589331	208	276	0.01	0.027	0.21	7800
H589332	208	276	0.01	0.028	0.21	8040
H589333	208	276	< 0.01	0.035	0.24	8800
H589334	208	276	0.01	0.039	0.34	9620
H589335	208	276	0.01	0.014	0.17	9160
H589336	208	276	< 0.01	0.034	0.17	8080
H589337	208	276	0.03	0.058	0.21	8140
H589338	208	276	0.02	0.063	0.24	8600
H589339	208	276	0.28	0.086	0.45	10180
H589340	208	276	0.72	0.024	0.51	9420
H589341	208	274	0.57	0.021	0.34	6800
H589342	208	276	0.55	0.013	0.45	11500
H589343	208	276	0.74	0.011	0.51	8720
H589344	208	276	0.88	0.028	0.58	8660
H589345	208	276	0.46	0.012	0.31	10880
H589346	208	276	0.62	0.016	0.31	9340
H589347	208	274	0.66	0.018	0.38	7060
H589348	208	276	0.76	0.053	0.51	9100
H589349	208	276	1.05	0.063	0.65	7480
H589350	208	276	0.98	0.015	0.62	7840
H589351	208	274	0.81	0.015	0.48	6880
H589352	208	274	0.82	0.011	0.34	7060
H589353	208	276	0.66	0.012	0.38	8240
H589354	208	274	0.74	0.042	0.31	5400
H589355	208	276	0.47	0.053	0.31	8600
H589356	208	273	0.20	0.028	0.14	15620
H589357	208	273	0.17	0.027	0.07	12420
H589358	208	273	0.13	0.044	0.14	14820
H589359	208	276	0.31	0.012	0.34	10140
H589360	208	273	0.21	0.022	0.21	11900
H589361	208	276	0.29	0.020	0.45	10220
H589362	208	276	0.24	0.024	0.34	10380
H589363	208	273	0.10	0.030	0.17	11860
H589364	208	273	0.23	0.022	0.31	11820
H589365	208	276	0.23	0.051	0.24	10040
H589366	208	273	0.20	0.028	0.21	12420

CERTIFICATION: _____

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Project : CASINO 230
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2
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Certificate Date: 31-OCT-93
Invoice No. :I9323469
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Account :FC

CERTIFICATE OF ANALYSIS A9323469

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H589367	208	276	0.24	0.041	0.24	10440						
H589368	208	273	0.24	0.024	0.27	12960						
H589369	208	273	0.16	0.034	0.14	13260						
H589370	208	276	0.15	0.024	0.14	11480						
H589371	208	273	0.23	0.032	0.24	12640						
H589372	208	273	0.10	0.012	0.10	13180						
H589373	208	273	0.23	0.020	0.24	12380						
H589374	208	276	0.21	0.044	0.21	11640						
H589375	208	276	0.19	0.040	0.14	11580						
H589376	208	273	0.21	0.041	0.10	12140						
H589377	208	273	0.18	0.029	0.17	13480						
H589378	208	273	0.15	0.028	0.48	12460						
H589379	208	273	0.11	0.059	0.10	12580						
H589380	208	273	0.15	0.050	0.07	12060						
H589381	208	273	0.11	0.022	0.07	12620						
H589382	208	273	0.17	0.021	0.17	12660						
H589383	208	273	0.09	0.017	0.10	12240						
H589384	208	273	0.07	0.006	0.07	12960						
H589385	208	273	0.09	0.015	0.17	12060						
H589386	208	273	0.09	0.009	0.07	13600						
H589387	208	273	0.13	0.017	0.10	12900						
H589388	208	273	0.13	0.020	0.07	13000						
H589389	208	273	0.08	0.010	0.10	12320						
H589390	208	273	0.08	0.009	0.07	12740						
H589391	208	273	0.09	0.013	0.07	12040						
H589392	208	273	0.05	0.016	0.07	12180						
H589393	208	273	0.03	0.046	0.03	12780						
H589394	208	273	0.11	0.026	0.10	12200						
H589395	208	273	0.11	0.015	0.14	12000						
H589396	208	273	0.06	0.072	0.10	12820						
H589397	208	273	0.07	0.008	0.10	14000						
H589398	208	273	0.11	0.024	0.10	12400						
H589399	208	273	0.09	0.009	0.07	12620						
H589400	208	273	0.15	0.059	0.10	12960						
H589401	208	273	0.13	0.439	0.10	12420						
H589402	208	273	0.10	0.025	0.07	11920						
H589403	208	273	0.13	0.057	0.17	12060						
H589404	208	276	0.14	0.337	0.10	11060						
H589405	208	276	0.14	0.187	0.10	11260						
H589406	208	273	0.18	0.053	0.21	13460						

CERTIFICATION:

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Project : CASINO 230
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 30-OCT-93
Invoice No. :19323470
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323470

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589327	299	229	0.6	1.84	158	380	0.5	< 2	0.29	< 0.5	2	37	159	1.79	< 10	< 1	0.12	< 10	0.13	85	114
H589328	299	229	0.6	1.41	82	1280	< 0.5	< 2	0.23	< 0.5	1	40	94	1.16	< 10	< 1	0.09	10	0.10	50	109
H589329	299	229	1.8	0.78	112	1280	< 0.5	< 2	0.04	< 0.5	2	76	185	1.79	< 10	< 1	0.18	10	0.03	10	239
H589330	299	229	1.6	0.65	64	2120	< 0.5	< 2	0.08	< 0.5	< 1	39	117	2.03	< 10	< 1	0.16	10	0.03	5	288
H589331	299	229	1.2	1.24	34	420	< 0.5	< 2	0.18	< 0.5	1	88	138	1.66	< 10	< 1	0.15	10	0.11	20	151
H589332	299	229	1.4	1.06	14	430	< 0.5	< 2	0.17	< 0.5	< 1	76	132	1.61	< 10	< 1	0.15	10	0.09	20	147
H589333	299	229	2.0	0.69	6	220	< 0.5	< 2	0.04	< 0.5	< 1	42	85	1.10	< 10	< 1	0.15	10	0.03	10	209
H589334	299	229	2.8	0.78	14	350	< 0.5	< 2	0.04	< 0.5	< 1	52	159	2.38	< 10	< 1	0.25	10	0.04	10	231
H589335	299	229	1.8	0.43	38	160	< 0.5	< 2	0.02	< 0.5	< 1	32	92	1.56	< 10	< 1	0.18	10	0.02	5	79
H589336	299	229	3.0	0.44	76	200	< 0.5	< 2	0.03	< 0.5	< 1	34	152	2.64	< 10	< 1	0.28	20	0.03	5	211
H589337	299	229	4.4	0.56	158	240	< 0.5	< 2	0.03	< 0.5	1	43	334	3.31	< 10	< 1	0.45	30	0.05	10	342
H589338	299	229	1.8	0.53	106	140	< 0.5	< 2	0.02	< 0.5	3	36	278	2.74	< 10	< 1	0.26	20	0.03	15	393
H589339	299	229	3.6	0.55	112	90	< 0.5	6	0.03	< 0.5	6	37	2840	3.25	< 10	< 1	0.20	20	0.04	10	503
H589340	299	229	4.2	1.48	34	120	< 0.5	10	0.05	< 0.5	20	25	7380	2.50	< 10	< 1	0.33	20	0.19	20	137
H589341	299	229	1.6	3.54	18	190	< 0.5	2	0.04	< 0.5	16	24	5450	2.67	< 10	< 1	0.84	20	0.97	115	108
H589342	299	229	2.6	3.53	24	110	< 0.5	8	0.04	2.5	24	23	5460	3.62	< 10	< 1	0.82	10	0.97	135	65
H589343	299	229	2.2	3.48	28	200	< 0.5	6	0.10	< 0.5	23	39	6960	2.98	< 10	< 1	1.12	10	1.11	135	62
H589344	299	229	2.8	3.56	4	170	< 0.5	8	0.05	0.5	19	86	8470	2.59	< 10	< 1	0.93	10	0.98	110	155
H589345	299	229	1.4	3.63	12	240	0.5	4	0.06	0.5	16	80	4610	2.96	< 10	< 1	0.97	< 10	1.22	125	68
H589346	299	229	2.0	5.90	30	230	0.5	6	0.08	< 0.5	21	49	5840	4.75	10	< 1	1.77	< 10	2.17	225	89
H589347	299	229	2.0	4.03	28	360	0.5	6	0.04	< 0.5	15	44	6090	2.76	10	< 1	1.24	20	1.31	130	92
H589348	299	229	2.2	2.56	28	90	< 0.5	8	0.06	0.5	17	43	7330	3.25	< 10	< 1	0.86	10	0.99	70	295
H589349	299	229	3.2	3.60	18	230	0.5	10	0.04	0.5	18	33	>10000	2.64	< 10	< 1	1.21	20	1.33	125	359
H589350	299	229	2.8	3.31	36	100	0.5	6	0.04	< 0.5	27	45	9110	3.41	10	< 1	0.72	10	0.82	65	86
H589351	299	229	2.2	4.83	38	150	0.5	2	0.06	0.5	18	36	7580	3.76	10	< 1	1.23	10	1.42	150	82
H589352	299	229	2.2	3.73	34	120	< 0.5	4	0.03	< 0.5	19	42	7910	3.00	10	< 1	0.73	10	0.82	70	63
H589353	299	229	1.8	4.56	48	170	0.5	8	0.05	< 0.5	20	62	6380	3.24	10	< 1	1.05	10	1.19	120	68
H589354	299	229	2.4	2.75	22	130	0.5	8	0.05	0.5	12	43	7200	2.27	< 10	< 1	0.54	20	0.58	50	258
H589355	299	229	2.2	1.14	20	80	< 0.5	8	0.03	< 0.5	16	74	4600	2.40	< 10	< 1	0.27	10	0.15	15	312
H589356	299	229	1.2	1.08	40	70	< 0.5	4	0.07	< 0.5	22	72	1945	2.87	< 10	< 1	0.29	10	0.08	15	168
H589357	299	229	1.4	0.44	8	130	< 0.5	< 2	0.03	< 0.5	10	75	1610	2.02	< 10	< 1	0.16	10	0.03	10	172
H589358	299	229	1.4	0.60	14	170	< 0.5	< 2	0.03	< 0.5	8	71	1430	1.53	< 10	< 1	0.23	10	0.06	10	285
H589359	299	229	2.2	1.33	2	140	< 0.5	< 2	0.14	1.0	14	40	3200	2.19	< 10	< 1	0.22	30	0.19	135	71
H589360	299	229	1.8	1.14	12	130	< 0.5	< 2	0.16	0.5	15	63	2200	2.37	< 10	< 1	0.19	10	0.15	90	141
H589361	299	229	2.4	1.07	16	130	0.5	< 2	0.26	0.5	18	44	2920	2.78	< 10	< 1	0.30	20	0.31	255	109
H589362	299	229	2.2	1.08	18	110	< 0.5	< 2	0.28	1.5	16	60	2400	2.83	< 10	< 1	0.33	20	0.34	285	151
H589363	299	229	1.0	0.93	18	70	< 0.5	< 2	0.11	0.5	17	46	1100	3.29	< 10	< 1	0.23	10	0.06	60	186
H589364	299	229	1.8	0.72	18	100	0.5	< 2	0.40	< 0.5	20	54	2340	3.01	< 10	< 1	0.25	20	0.35	345	153
H589365	299	229	2.0	0.63	12	60	0.5	< 2	0.25	< 0.5	14	36	2280	2.78	< 10	< 1	0.22	20	0.18	240	301
H589366	299	229	1.8	0.55	48	50	< 0.5	< 2	0.16	< 0.5	16	54	2050	2.52	< 10	< 1	0.19	20	0.04	125	176

CERTIFICATION: Ian Bucklen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 230
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 30-OCT-93
Invoice No. :I9323470
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323470

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589327	299	229	0.01	3	2700	8	< 2	2	29	< 0.01	< 10	10	21	< 10	26
H589328	299	229	< 0.01	2	1890	12	2	4	31	< 0.01	< 10	10	14	< 10	18
H589329	299	229	< 0.01	1	1250	16	8	2	41	< 0.01	< 10	< 10	13	< 10	22
H589330	299	229	0.01	2	1470	8	2	1	43	< 0.01	< 10	< 10	7	< 10	12
H589331	299	229	0.01	2	1040	14	4	1	30	< 0.01	< 10	< 10	7	< 10	12
H589332	299	229	0.01	1	450	18	2	1	32	< 0.01	< 10	< 10	5	< 10	12
H589333	299	229	< 0.01	< 1	340	10	< 2	1	24	< 0.01	< 10	< 10	4	< 10	6
H589334	299	229	0.01	2	550	16	2	< 1	39	< 0.01	< 10	< 10	7	< 10	6
H589335	299	229	0.01	< 1	320	34	16	< 1	47	< 0.01	< 10	< 10	5	< 10	6
H589336	299	229	0.01	< 1	640	34	36	< 1	110	< 0.01	< 10	< 10	12	< 10	6
H589337	299	229	0.01	1	1260	58	52	1	238	< 0.01	< 10	< 10	21	< 10	6
H589338	299	229	< 0.01	1	1360	18	16	1	112	< 0.01	< 10	< 10	22	< 10	4
H589339	299	229	< 0.01	2	1360	4	14	2	49	< 0.01	< 10	< 10	20	< 10	4
H589340	299	229	< 0.01	4	1210	20	2	5	45	< 0.01	< 10	< 10	25	< 10	< 2
H589341	299	229	0.01	4	1590	14	2	10	23	0.08	< 10	10	80	< 10	28
H589342	299	229	0.01	9	1430	26	< 2	10	18	0.09	< 10	10	81	< 10	84
H589343	299	229	0.02	5	1620	18	< 2	13	8	0.14	< 10	10	102	< 10	20
H589344	299	229	0.02	10	1180	10	< 2	12	10	0.11	< 10	10	96	< 10	8
H589345	299	229	0.02	11	1320	< 2	< 2	14	11	0.12	< 10	10	113	< 10	28
H589346	299	229	0.02	14	1650	8	< 2	25	7	0.25	< 10	< 10	201	< 10	46
H589347	299	229	0.02	8	1520	6	2	17	10	0.16	< 10	10	129	< 10	18
H589348	299	229	0.01	8	1250	8	< 2	10	27	0.08	< 10	< 10	68	< 10	4
H589349	299	229	0.01	8	1710	4	< 2	19	10	0.13	< 10	10	117	< 10	6
H589350	299	229	0.01	10	1670	6	< 2	13	71	0.06	< 10	20	64	< 10	< 2
H589351	299	229	0.02	11	2070	8	< 2	19	55	0.16	< 10	10	120	< 10	28
H589352	299	229	0.01	9	1960	18	< 2	16	30	0.06	< 10	20	79	< 10	4
H589353	299	229	0.01	9	1960	12	< 2	15	60	0.11	< 10	20	97	< 10	32
H589354	299	229	0.01	4	1770	4	< 2	11	100	0.02	< 10	20	53	< 10	12
H589355	299	229	0.01	6	870	< 2	< 2	3	82	< 0.01	< 10	10	15	< 10	6
H589356	299	229	0.01	7	690	4	8	1	41	< 0.01	< 10	< 10	10	< 10	28
H589357	299	229	< 0.01	3	290	2	< 2	< 1	33	< 0.01	< 10	< 10	3	< 10	6
H589358	299	229	0.01	3	320	8	2	< 1	27	< 0.01	< 10	< 10	5	< 10	10
H589359	299	229	0.01	5	530	6	2	1	32	< 0.01	< 10	< 10	14	< 10	50
H589360	299	229	0.01	6	630	6	2	1	17	< 0.01	< 10	10	11	< 10	42
H589361	299	229	0.01	5	570	2	2	2	17	< 0.01	< 10	< 10	17	< 10	62
H589362	299	229	0.01	6	630	6	4	3	12	< 0.01	< 10	< 10	21	< 10	76
H589363	299	229	< 0.01	4	450	16	4	1	10	< 0.01	< 10	< 10	11	< 10	40
H589364	299	229	0.01	4	480	10	2	2	21	< 0.01	< 10	< 10	16	< 10	80
H589365	299	229	< 0.01	4	430	2	4	1	9	< 0.01	< 10	< 10	12	< 10	44
H589366	299	229	< 0.01	3	500	6	20	1	13	< 0.01	< 10	< 10	8	< 10	50

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 230
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 30-OCT-93
Invoice No. :I9323470
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323470

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589367	299	229	1.8	0.71	4	150	0.5	< 2	1.13	0.5	14	45	2530	2.24	< 10	< 1	0.23	20	0.40	195	240
H589368	299	229	2.0	0.40	20	60	< 0.5	< 2	1.00	< 0.5	16	50	2460	2.64	< 10	< 1	0.19	20	0.31	170	140
H589369	299	229	1.4	0.56	8	90	< 0.5	2	0.96	< 0.5	12	87	1670	2.16	< 10	< 1	0.26	10	0.26	150	200
H589370	299	229	1.0	0.67	6	90	< 0.5	2	1.53	< 0.5	10	50	1485	2.02	< 10	< 1	0.25	20	0.48	110	133
H589371	299	229	2.4	1.11	14	130	< 0.5	< 2	1.49	< 0.5	12	54	2390	2.71	< 10	< 1	0.57	30	1.00	180	180
H589372	299	229	2.2	0.55	62	80	< 0.5	< 2	0.72	0.5	13	67	1060	2.92	< 10	< 1	0.27	10	0.16	125	79
H589373	299	229	2.2	0.78	14	80	< 0.5	4	0.99	< 0.5	13	72	2400	2.54	< 10	< 1	0.33	10	0.53	260	120
H589374	299	229	1.8	0.83	18	130	< 0.5	6	0.81	< 0.5	12	59	2090	2.39	< 10	< 1	0.28	20	0.49	210	229
H589375	299	229	2.2	0.72	6	110	< 0.5	< 2	0.51	< 0.5	13	76	2010	2.26	< 10	< 1	0.20	10	0.18	80	260
H589376	299	229	2.4	0.59	8	80	< 0.5	4	1.41	< 0.5	12	77	2210	2.79	< 10	< 1	0.23	10	0.20	210	252
H589377	299	229	1.8	0.45	24	60	< 0.5	< 2	1.30	< 0.5	19	89	1870	3.29	< 10	< 1	0.22	10	0.24	95	177
H589378	299	229	2.4	0.48	14	70	< 0.5	< 2	1.15	< 0.5	21	77	1575	2.57	< 10	< 1	0.21	10	0.20	80	158
H589379	299	229	1.6	0.44	12	80	< 0.5	< 2	1.10	< 0.5	16	165	1205	3.13	< 10	< 1	0.28	< 10	0.04	80	366
H589380	299	229	1.8	0.26	4	120	< 0.5	4	0.86	< 0.5	8	80	1560	2.09	< 10	< 1	0.15	10	0.03	70	322
H589381	299	229	1.4	0.39	12	140	< 0.5	4	1.61	< 0.5	5	125	1050	1.63	< 10	< 1	0.21	< 10	0.05	110	122
H589382	299	229	2.0	0.32	6	40	< 0.5	< 2	2.98	0.5	7	73	1585	1.27	< 10	< 1	0.11	20	0.10	150	121
H589383	299	229	1.6	0.33	18	80	< 0.5	< 2	1.39	< 0.5	6	84	837	1.72	< 10	< 1	0.19	< 10	0.06	95	99
H589384	299	229	1.2	0.40	16	80	< 0.5	< 2	1.16	0.5	6	104	772	1.88	< 10	< 1	0.24	< 10	0.06	110	36
H589385	299	229	2.0	0.25	32	60	< 0.5	< 2	1.30	0.5	6	71	871	3.15	< 10	< 1	0.16	< 10	0.04	125	87
H589386	299	229	1.2	0.52	< 2	80	< 0.5	2	1.07	< 0.5	8	131	924	2.77	< 10	< 1	0.30	< 10	0.05	110	67
H589387	299	229	1.6	0.35	< 2	120	< 0.5	4	1.23	< 0.5	6	96	1320	1.67	< 10	< 1	0.16	10	0.06	100	91
H589388	299	229	1.8	0.86	4	190	< 0.5	< 2	1.39	< 0.5	4	155	1310	1.69	< 10	< 1	0.34	10	0.26	105	110
H589389	299	229	1.2	0.35	10	100	< 0.5	< 2	2.12	< 0.5	7	85	834	2.28	< 10	< 1	0.18	10	0.17	145	58
H589390	299	229	1.0	0.57	< 2	130	< 0.5	< 2	1.11	< 0.5	8	159	806	2.19	< 10	< 1	0.26	10	0.08	65	54
H589391	299	229	1.2	0.30	6	80	< 0.5	4	1.51	< 0.5	5	86	896	2.50	< 10	< 1	0.16	< 10	0.06	125	70
H589392	299	229	0.6	0.59	16	70	< 0.5	2	0.94	< 0.5	7	178	601	2.71	< 10	< 1	0.29	10	0.07	80	93
H589393	299	229	0.6	0.36	14	40	< 0.5	< 2	0.99	< 0.5	6	84	382	2.14	< 10	< 1	0.17	< 10	0.07	40	281
H589394	299	229	1.2	0.77	8	130	< 0.5	< 2	1.29	< 0.5	7	138	1170	1.63	< 10	< 1	0.30	10	0.33	65	156
H589395	299	229	0.8	0.77	4	90	< 0.5	< 2	1.22	< 0.5	9	94	1125	1.68	< 10	< 1	0.22	10	0.64	85	93
H589396	299	229	0.6	0.73	6	70	< 0.5	< 2	1.34	< 0.5	15	103	643	2.66	< 10	< 1	0.21	10	0.32	70	411
H589397	299	229	0.6	0.59	8	50	< 0.5	< 2	1.00	< 0.5	10	53	683	1.84	< 10	< 1	0.15	< 10	0.34	55	46
H589398	299	229	1.0	0.93	12	130	< 0.5	< 2	1.41	< 0.5	11	91	1055	1.62	< 10	< 1	0.27	10	0.52	85	136
H589399	299	229	1.0	0.71	14	90	< 0.5	< 2	1.00	< 0.5	14	57	896	1.87	< 10	< 1	0.22	10	0.52	70	49
H589400	299	229	1.6	0.81	14	100	< 0.5	< 2	0.86	< 0.5	17	100	1475	2.07	< 10	< 1	0.30	10	0.48	65	328
H589401	299	229	2.4	0.82	12	170	0.5	< 2	0.90	< 0.5	12	65	1415	1.74	< 10	< 1	0.25	10	0.52	60	2610
H589402	299	229	1.2	0.83	< 2	90	< 0.5	< 2	1.10	< 0.5	27	128	1090	3.43	< 10	< 1	0.44	20	0.39	65	134
H589403	299	229	1.6	0.69	8	90	< 0.5	4	1.09	< 0.5	12	66	1325	1.74	< 10	< 1	0.27	10	0.52	75	330
H589404	299	229	2.0	0.65	2	120	< 0.5	2	1.32	< 0.5	9	87	1340	1.39	< 10	< 1	0.29	10	0.26	75	1915
H589405	299	229	1.6	0.55	4	60	< 0.5	< 2	0.95	< 0.5	17	72	1385	1.58	< 10	< 1	0.21	10	0.34	65	1055
H589406	299	229	1.6	1.62	2	170	< 0.5	2	1.28	< 0.5	12	113	1800	2.56	< 10	< 1	0.67	10	1.24	140	299

CERTIFICATION: Hart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 230
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 30-OCT-93
Invoice No. :19323470
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323470

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589367	299	229	0.01	4	520	6	2	2	23	< 0.01	< 10	< 10	15	< 10	34
H589368	299	229	0.01	4	510	6	< 2	1	19	< 0.01	< 10	< 10	11	< 10	30
H589369	299	229	0.02	3	450	2	2	1	24	< 0.01	< 10	< 10	10	< 10	30
H589370	299	229	0.02	2	450	2	2	2	27	< 0.01	< 10	< 10	15	< 10	20
H589371	299	229	0.01	4	680	12	2	5	20	0.04	< 10	< 10	39	< 10	42
H589372	299	229	0.01	3	440	18	4	1	11	< 0.01	< 10	< 10	7	< 10	62
H589373	299	229	0.01	3	440	6	2	2	19	< 0.01	< 10	< 10	20	< 10	36
H589374	299	229	0.01	3	460	4	2	1	22	< 0.01	< 10	< 10	16	< 10	32
H589375	299	229	0.01	3	400	< 2	2	1	14	< 0.01	< 10	< 10	10	< 10	24
H589376	299	229	0.01	6	470	16	2	1	23	< 0.01	< 10	< 10	7	< 10	46
H589377	299	229	0.01	3	490	6	2	1	18	< 0.01	< 10	< 10	10	< 10	22
H589378	299	229	0.01	4	390	10	< 2	1	20	< 0.01	< 10	< 10	7	< 10	18
H589379	299	229	0.01	5	270	22	2	< 1	13	< 0.01	< 10	< 10	4	< 10	28
H589380	299	229	< 0.01	2	220	4	2	< 1	18	< 0.01	< 10	< 10	2	< 10	18
H589381	299	229	0.01	2	200	12	< 2	< 1	16	< 0.01	< 10	< 10	3	< 10	18
H589382	299	229	< 0.01	3	380	14	2	1	19	< 0.01	< 10	10	5	< 10	28
H589383	299	229	0.01	3	280	20	6	< 1	19	< 0.01	< 10	< 10	2	< 10	28
H589384	299	229	0.01	3	290	22	4	< 1	11	< 0.01	< 10	< 10	3	< 10	26
H589385	299	229	< 0.01	4	570	38	4	1	13	< 0.01	< 10	< 10	3	< 10	36
H589386	299	229	0.01	5	360	8	< 2	< 1	16	< 0.01	< 10	< 10	4	< 10	14
H589387	299	229	0.01	3	380	4	< 2	< 1	33	< 0.01	< 10	< 10	4	< 10	16
H589388	299	229	0.01	4	370	6	2	2	22	< 0.01	< 10	< 10	13	< 10	16
H589389	299	229	0.01	4	360	2	< 2	1	25	< 0.01	< 10	< 10	5	< 10	14
H589390	299	229	0.01	2	280	6	< 2	1	18	< 0.01	< 10	< 10	6	< 10	14
H589391	299	229	0.01	3	330	14	2	1	29	< 0.01	< 10	< 10	3	< 10	14
H589392	299	229	0.01	4	340	8	2	< 1	50	< 0.01	< 10	< 10	4	< 10	16
H589393	299	229	0.01	3	260	12	4	< 1	17	< 0.01	< 10	< 10	3	< 10	12
H589394	299	229	0.03	4	350	4	2	1	36	< 0.01	< 10	< 10	13	< 10	16
H589395	299	229	0.03	3	410	4	< 2	2	27	< 0.01	< 10	< 10	21	< 10	16
H589396	299	229	0.01	3	330	6	6	< 1	28	< 0.01	< 10	< 10	8	< 10	6
H589397	299	229	0.01	3	340	4	2	< 1	31	< 0.01	< 10	< 10	5	< 10	8
H589398	299	229	0.02	4	440	6	< 2	1	51	< 0.01	< 10	< 10	15	< 10	12
H589399	299	229	0.01	4	400	2	2	1	34	< 0.01	< 10	< 10	11	< 10	12
H589400	299	229	0.01	3	340	2	4	1	28	< 0.01	< 10	< 10	14	< 10	10
H589401	299	229	0.02	< 1	360	4	22	1	63	< 0.01	< 10	< 10	21	< 10	10
H589402	299	229	0.01	5	370	12	4	2	17	0.01	< 10	< 10	17	10	12
H589403	299	229	0.02	4	380	12	2	1	34	< 0.01	< 10	10	17	< 10	18
H589404	299	229	0.02	< 1	350	6	16	1	37	< 0.01	< 10	< 10	21	< 10	14
H589405	299	229	0.01	2	310	2	10	1	40	< 0.01	< 10	< 10	16	< 10	12
H589406	299	229	0.04	4	540	4	2	8	35	0.08	< 10	< 10	62	< 10	30

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 231
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H589407	208	276	0.03	0.066	0.34	10620						
H589408	208	276	0.02	0.065	0.21	10920						
H589409	208	276	0.02	0.045	0.14	10410						
H589410	208	273	0.01	0.031	0.17	12120						
H589411	208	276	0.02	0.033	0.17	10200						
H589412	208	276	0.02	0.032	0.17	11020						
H589413	208	276	0.03	0.030	0.14	11620						
H589414	208	276	0.07	0.093	0.10	11000						
H589415	208	276	0.17	0.033	0.10	8120						
H589416	208	273	0.22	0.020	0.14	12820						
H589417	208	276	0.31	0.071	0.17	9690						
H589418	208	276	0.41	0.050	0.38	10980						
H589419	208	276	0.31	0.029	0.14	10040						
H589420	208	276	0.28	0.085	0.27	11000						
H589421	208	273	0.44	0.064	0.21	11960						
H589422	208	276	0.37	0.058	0.17	11100						
H589423	208	276	0.45	0.076	0.24	10220						
H589424	208	273	0.38	0.067	0.24	12400						
H589425	208	276	0.49	0.045	0.27	10940						
H589426	208	276	0.38	0.027	0.21	11520						
H589427	208	276	0.35	0.045	0.24	11700						
H589428	208	276	0.29	0.049	0.14	11780						
H589429	208	276	0.35	0.048	0.21	11580						
H589430	208	273	0.24	0.044	0.21	12180						
H589431	208	276	0.12	0.039	0.14	11740						
H589432	208	273	0.18	0.038	0.21	12300						
H589433	208	276	0.21	0.076	0.21	11220						
H589434	208	276	0.17	0.041	0.10	11120						
H589435	208	273	0.14	0.057	0.14	11900						
H589436	208	276	0.14	0.064	0.17	11100						
H589437	208	273	0.07	0.065	0.07	12320						
H589438	208	273	0.13	0.110	0.14	11900						
H589439	208	273	0.15	0.067	0.17	11880						
H589440	208	273	0.11	0.042	0.10	12580						
H589441	208	273	0.14	0.034	0.10	12900						
H589442	208	273	0.10	0.025	0.07	12620						
H589443	208	273	0.08	0.028	0.07	12780						
H589444	208	273	0.12	0.013	0.10	13460						
H589445	208	273	0.15	0.021	0.14	13980						
H589446	208	273	0.11	0.049	0.10	12860						

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CERTIFICATE OF ANALYSIS A9324041

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H589447	208	273	0.08	0.036	0.10	12460						
H589448	208	273	0.08	0.045	0.10	12350						
H589449	208	273	0.08	0.024	0.14	12900						
H589450	208	273	0.10	0.028	0.14	12960						
H589451	208	273	0.09	0.024	0.14	11960						
H589452	208	273	0.11	0.027	0.21	12780						
H589453	208	276	0.07	0.026	0.07	11520						
H589454	208	273	0.07	0.023	0.10	12200						
H589455	208	273	0.07	0.048	0.07	13800						
H589456	208	273	0.06	0.032	0.14	13520						
H589457	208	273	0.06	0.071	0.07	13400						
H589458	208	273	0.15	0.045	0.14	11960						
H589459	208	273	0.09	0.048	0.07	12180						
H589460	208	273	0.12	0.073	0.10	12480						
H589461	208	276	0.07	0.112	0.03	11100						
H589462	208	273	0.08	0.084	0.07	12060						
H589463	208	273	0.08	0.236	0.10	12070						
H589464	208	273	0.13	0.080	0.10	12100						
H589465	208	273	0.07	0.064	0.07	13040						
H589466	208	273	0.12	0.230	0.10	12020						
H589467	208	273	0.10	0.151	0.07	12200						
H589468	208	273	0.14	0.124	0.17	12820						
H589469	208	273	0.17	0.105	0.17	12080						
H589470	208	273	0.14	0.075	0.14	13000						
H589471	208	273	0.12	0.080	0.10	14020						
H589472	208	273	0.07	0.120	0.03	12380						
H589473	208	276	0.16	0.086	0.17	11100						
H589474	208	276	0.15	0.086	0.17	10040						
H589475	208	276	0.15	0.070	0.14	10760						
H589476	208	276	0.17	0.083	0.17	10940						
H589477	208	276	0.14	0.052	0.10	10540						
H589478	208	273	0.12	0.022	0.14	12000						
H589479	208	273	0.09	0.025	0.10	12760						
H589480	208	273	0.05	0.017	0.07	12060						
H589481	208	273	0.09	0.025	0.10	11820						
H589482	208	273	0.16	0.035	0.14	12000						
H589483	208	273	0.13	0.035	0.10	12420						
H589484	208	273	0.15	0.033	0.10	12100						
H589485	208	273	0.11	0.030	0.10	11920						
H589486	208	273	0.20	0.078	0.17	11960						

CERTIFICATION: David Tarrant

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Total Pages :2
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CERTIFICATE OF ANALYSIS A9324042

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589407	299	229	2.8	1.58	4	290	< 0.5	2	0.10	< 0.5	< 1	75	282	3.49	< 10	< 1	0.56	20	0.38	35	419
H589408	299	229	2.6	1.12	18	330	< 0.5	< 2	0.05	< 0.5	1	137	193	3.21	< 10	< 1	0.49	20	0.16	20	434
H589409	299	229	2.6	0.74	20	300	< 0.5	< 2	0.02	< 0.5	1	154	164	3.30	< 10	< 1	0.70	20	0.08	15	308
H589410	299	229	2.6	1.28	14	470	< 0.5	< 2	0.03	< 0.5	< 1	142	139	3.29	< 10	< 1	0.77	20	0.16	25	215
H589411	299	229	2.4	1.26	24	550	< 0.5	< 2	0.02	< 0.5	< 1	108	158	4.36	< 10	< 1	0.66	20	0.19	20	224
H589412	299	229	2.0	1.13	20	250	< 0.5	2	0.02	< 0.5	3	182	186	3.35	< 10	< 1	0.59	20	0.12	30	221
H589413	299	229	2.2	1.01	14	170	< 0.5	4	0.02	< 0.5	10	122	313	3.40	< 10	< 1	0.52	20	0.13	30	212
H589414	299	229	3.0	1.29	24	160	< 0.5	< 2	0.02	< 0.5	9	144	816	3.69	< 10	< 1	0.61	20	0.17	35	632
H589415	299	229	2.6	1.28	22	90	< 0.5	2	0.02	< 0.5	11	125	1895	2.97	< 10	< 1	0.58	10	0.19	40	241
H589416	299	229	2.4	1.53	22	80	< 0.5	< 2	0.03	1.0	10	79	2360	2.69	< 10	< 1	0.54	20	0.17	30	137
H589417	299	229	4.2	1.04	22	40	< 0.5	< 2	0.03	1.5	12	125	3430	3.87	< 10	< 1	0.37	10	0.12	20	494
H589418	299	229	3.8	1.87	22	60	< 0.5	< 2	0.06	< 0.5	34	133	4470	5.83	< 10	1	0.72	20	0.20	35	336
H589419	299	229	2.4	1.92	< 2	80	< 0.5	< 2	0.04	0.5	18	138	3450	3.84	< 10	< 1	0.71	20	0.23	35	198
H589420	299	229	2.8	2.14	20	200	< 0.5	< 2	0.02	< 0.5	10	163	3070	2.01	< 10	< 1	0.64	30	0.18	20	592
H589421	299	229	5.2	1.93	38	130	< 0.5	< 2	0.02	1.5	13	139	4850	2.58	< 10	1	0.48	20	0.14	15	443
H589422	299	229	2.8	1.79	16	80	< 0.5	< 2	0.03	< 0.5	19	119	3940	3.36	< 10	< 1	0.56	20	0.23	35	380
H589423	299	229	2.6	2.24	18	90	< 0.5	< 2	0.06	< 0.5	21	96	4780	2.94	< 10	< 1	0.56	20	0.48	75	503
H589424	299	229	2.4	2.72	50	150	< 0.5	< 2	0.05	< 0.5	11	104	3980	1.95	< 10	< 1	0.66	10	0.76	115	429
H589425	299	229	2.8	2.05	8	80	< 0.5	< 2	0.04	0.5	18	77	5180	2.36	< 10	< 1	0.33	20	0.24	35	303
H589426	299	229	2.6	1.92	2	70	< 0.5	< 2	0.03	< 0.5	21	81	4120	3.24	< 10	< 1	0.50	10	0.20	30	185
H589427	299	229	2.2	1.94	12	100	< 0.5	< 2	0.06	< 0.5	14	114	3860	2.37	< 10	< 1	0.46	20	0.22	50	325
H589428	299	229	2.8	1.14	8	80	< 0.5	< 2	0.04	< 0.5	16	138	3240	2.89	< 10	< 1	0.43	10	0.13	25	340
H589429	299	229	3.2	1.09	12	60	< 0.5	< 2	0.03	< 0.5	23	113	3900	3.76	< 10	< 1	0.41	20	0.12	30	329
H589430	299	229	2.2	1.34	2	100	< 0.5	< 2	0.25	< 0.5	17	169	2620	2.96	< 10	< 1	0.53	10	0.24	155	306
H589431	299	229	1.4	1.18	2	130	< 0.5	6	0.39	< 0.5	19	120	1285	2.83	< 10	< 1	0.46	20	0.33	240	247
H589432	299	229	1.6	1.37	4	120	< 0.5	< 2	0.22	< 0.5	17	128	2030	2.66	< 10	< 1	0.39	20	0.19	210	254
H589433	299	229	2.2	1.68	2	160	< 0.5	< 2	0.12	< 0.5	13	114	2270	2.09	< 10	1	0.47	20	0.35	115	518
H589434	299	229	1.6	2.10	8	120	< 0.5	< 2	0.11	< 0.5	14	108	1850	2.11	< 10	2	0.50	20	0.32	40	268
H589435	299	229	3.6	0.80	6	50	< 0.5	< 2	0.19	4.0	19	107	1510	3.56	< 10	< 1	0.35	10	0.15	270	339
H589436	299	229	1.6	1.15	< 2	100	< 0.5	< 2	0.38	< 0.5	16	103	1505	2.56	< 10	< 1	0.31	20	0.27	350	370
H589437	299	229	1.2	1.03	< 2	70	< 0.5	< 2	0.61	0.5	15	92	695	2.96	< 10	< 1	0.55	20	0.54	215	391
H589438	299	229	1.8	1.18	< 2	70	< 0.5	< 2	0.20	< 0.5	17	99	1380	2.84	< 10	< 1	0.34	20	0.16	225	670
H589439	299	229	1.6	1.07	< 2	90	< 0.5	< 2	0.65	< 0.5	12	82	1575	2.42	< 10	< 1	0.34	20	0.30	130	422
H589440	299	229	1.6	1.02	2	80	< 0.5	< 2	1.03	< 0.5	11	102	1160	2.68	< 10	< 1	0.46	20	0.32	155	256
H589441	299	229	1.6	1.28	< 2	60	< 0.5	< 2	0.81	0.5	18	89	1415	4.33	< 10	< 1	0.68	10	0.74	150	202
H589442	299	229	1.2	0.91	6	70	< 0.5	< 2	0.48	< 0.5	18	101	1055	3.40	< 10	< 1	0.47	10	0.26	60	156
H589443	299	229	0.8	0.84	2	90	< 0.5	< 2	0.87	< 0.5	10	101	855	2.55	< 10	< 1	0.38	< 10	0.34	130	176
H589444	299	229	1.0	0.84	6	60	< 0.5	< 2	0.72	< 0.5	16	108	1200	3.45	< 10	< 1	0.46	10	0.32	80	77
H589445	299	229	2.2	0.77	< 2	30	< 0.5	< 2	0.49	0.5	21	96	1490	5.69	< 10	< 1	0.40	10	0.22	80	127
H589446	299	229	1.2	1.42	6	110	< 0.5	< 2	1.02	< 0.5	13	165	1140	2.79	< 10	< 1	0.49	20	0.34	140	301

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589407	299	229	0.05	3	520	12	< 2	6	44	0.01	< 10	< 10	36	10	24
H589408	299	229	0.02	3	760	18	6	2	54	< 0.01	< 10	< 10	25	< 10	16
H589409	299	229	0.02	1	600	14	2	1	35	< 0.01	< 10	< 10	14	< 10	14
H589410	299	229	0.02	4	840	6	2	2	84	< 0.01	< 10	< 10	18	< 10	18
H589411	299	229	0.02	3	1110	2	10	2	57	< 0.01	< 10	< 10	22	< 10	10
H589412	299	229	0.02	5	790	8	4	1	46	< 0.01	< 10	< 10	18	< 10	14
H589413	299	229	0.02	4	870	< 2	4	1	26	< 0.01	< 10	< 10	21	< 10	12
H589414	299	229	0.02	4	940	6	6	2	15	< 0.01	< 10	< 10	27	10	12
H589415	299	229	0.02	11	600	12	6	1	16	< 0.01	< 10	< 10	16	10	14
H589416	299	229	0.01	16	650	30	8	2	12	< 0.01	< 10	< 10	16	10	36
H589417	299	229	0.01	6	410	48	18	2	13	< 0.01	< 10	< 10	14	10	62
H589418	299	229	0.02	7	480	8	4	7	15	< 0.01	< 10	< 10	40	20	36
H589419	299	229	0.02	7	500	18	2	2	37	< 0.01	< 10	< 10	16	20	14
H589420	299	229	0.02	6	590	14	4	3	20	< 0.01	< 10	10	20	20	12
H589421	299	229	0.02	9	690	86	60	3	62	< 0.01	< 10	10	21	20	58
H589422	299	229	0.02	9	750	10	6	3	16	< 0.01	< 10	< 10	22	40	26
H589423	299	229	0.03	9	790	8	4	5	11	0.01	< 10	< 10	37	50	22
H589424	299	229	0.04	10	680	12	8	9	13	0.05	< 10	< 10	60	20	24
H589425	299	229	0.02	9	860	2	< 2	3	14	< 0.01	< 10	10	21	40	18
H589426	299	229	0.01	8	680	4	< 2	2	13	< 0.01	< 10	< 10	19	20	24
H589427	299	229	0.02	9	650	2	2	3	16	< 0.01	< 10	10	23	20	24
H589428	299	229	0.03	7	330	6	4	1	11	< 0.01	< 10	< 10	12	20	18
H589429	299	229	0.03	8	280	< 2	< 2	1	11	< 0.01	< 10	< 10	17	20	16
H589430	299	229	0.04	7	490	8	2	2	19	< 0.01	< 10	< 10	17	20	28
H589431	299	229	0.02	7	450	6	2	3	18	0.01	< 10	10	23	10	40
H589432	299	229	0.03	8	600	12	< 2	2	32	< 0.01	< 10	10	17	10	42
H589433	299	229	0.03	9	640	4	4	4	27	0.01	< 10	< 10	31	10	28
H589434	299	229	0.02	7	750	8	2	3	25	< 0.01	< 10	10	26	10	24
H589435	299	229	0.01	6	430	50	24	2	13	< 0.01	< 10	< 10	11	30	124
H589436	299	229	0.02	7	420	8	4	2	26	< 0.01	< 10	10	15	20	70
H589437	299	229	0.02	6	570	2	2	4	9	0.02	< 10	< 10	29	20	40
H589438	299	229	0.01	8	400	2	4	1	15	< 0.01	< 10	< 10	15	10	42
H589439	299	229	0.02	6	500	4	2	1	18	< 0.01	< 10	< 10	14	10	34
H589440	299	229	0.02	4	390	2	4	1	17	< 0.01	< 10	< 10	11	10	22
H589441	299	229	0.03	6	450	2	4	5	17	0.03	< 10	< 10	33	20	20
H589442	299	229	0.02	3	270	6	2	1	11	< 0.01	< 10	< 10	7	20	10
H589443	299	229	0.02	3	310	2	2	1	32	< 0.01	< 10	10	8	10	24
H589444	299	229	0.02	6	270	2	< 2	1	13	< 0.01	< 10	10	7	20	18
H589445	299	229	0.02	6	350	6	< 2	1	19	< 0.01	< 10	< 10	6	20	18
H589446	299	229	0.02	6	450	< 2	4	3	16	< 0.01	< 10	< 10	21	20	24

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H589447	299	229	0.8	1.30	2	120	< 0.5	< 2	1.39	< 0.5	8	132	829	2.19	< 10	1	0.41	20	0.46	105	212
H589448	299	229	0.8	1.02	< 2	110	< 0.5	< 2	1.15	< 0.5	6	152	767	1.89	< 10	< 1	0.43	10	0.52	120	265
H589449	299	229	0.8	1.18	6	80	< 0.5	2	1.21	< 0.5	7	116	791	2.64	< 10	< 1	0.55	10	0.66	115	145
H589450	299	229	1.2	1.39	2	80	< 0.5	< 2	0.98	1.5	7	137	1090	2.75	< 10	< 1	0.49	20	0.66	100	173
H589451	299	229	1.0	1.27	< 2	140	< 0.5	< 2	1.25	< 0.5	5	151	895	2.11	< 10	< 1	0.51	10	0.68	125	146
H589452	299	229	1.2	1.53	< 2	130	< 0.5	< 2	1.20	< 0.5	6	149	1140	2.15	< 10	< 1	0.65	20	0.71	165	168
H589453	299	229	0.6	1.07	< 2	110	< 0.5	< 2	1.61	< 0.5	11	151	788	2.60	< 10	< 1	0.56	20	0.49	135	166
H589454	299	229	0.8	1.29	< 2	60	< 0.5	< 2	0.82	< 0.5	20	165	698	4.49	< 10	< 1	0.66	10	0.44	115	136
H589455	299	229	1.2	1.20	4	80	< 0.5	2	1.24	0.5	14	117	758	3.46	< 10	< 1	0.51	20	0.34	210	266
H589456	299	229	0.6	1.73	< 2	180	< 0.5	< 2	1.24	< 0.5	6	161	612	1.95	< 10	< 1	0.64	20	1.01	120	178
H589457	299	229	0.6	1.08	< 2	130	< 0.5	2	1.61	< 0.5	7	114	545	1.95	< 10	< 1	0.50	20	0.73	115	416
H589458	299	229	1.8	1.39	< 2	130	< 0.5	< 2	1.43	< 0.5	6	105	1465	2.07	< 10	< 1	0.68	20	0.87	120	252
H589459	299	229	0.8	2.01	< 2	180	< 0.5	< 2	0.99	0.5	8	122	884	2.34	< 10	< 1	0.93	10	1.19	105	286
H589460	299	229	1.2	1.79	< 2	100	< 0.5	< 2	0.92	< 0.5	9	143	1220	2.70	< 10	< 1	0.89	10	1.02	100	451
H589461	299	229	0.8	1.89	2	80	< 0.5	< 2	0.94	< 0.5	13	105	759	3.65	< 10	< 1	0.75	20	1.15	100	680
H589462	299	229	0.8	1.93	< 2	150	< 0.5	< 2	1.14	< 0.5	9	137	796	2.39	< 10	< 1	0.78	20	1.07	115	485
H589463	299	229	1.2	1.63	6	70	< 0.5	2	0.90	< 0.5	12	85	796	3.45	< 10	< 1	0.81	10	1.18	100	1285
H589464	299	229	1.2	1.80	< 2	80	< 0.5	< 2	0.80	< 0.5	13	105	1245	3.20	< 10	< 1	0.84	10	1.28	105	473
H589465	299	229	0.6	1.55	8	80	< 0.5	< 2	1.01	< 0.5	14	68	712	3.01	< 10	< 1	0.69	10	1.04	95	375
H589466	299	229	1.4	1.67	< 2	80	< 0.5	< 2	0.87	< 0.5	15	89	1205	3.31	< 10	< 1	0.90	20	1.20	100	1275
H589467	299	229	1.2	1.47	2	110	< 0.5	< 2	0.78	< 0.5	10	120	978	2.46	< 10	< 1	0.74	20	0.93	105	905
H589468	299	229	1.4	2.19	< 2	130	< 0.5	< 2	0.91	< 0.5	10	123	1390	2.73	< 10	< 1	1.06	20	1.44	135	719
H589469	299	229	1.6	2.04	< 2	140	< 0.5	< 2	1.05	< 0.5	9	94	1685	2.62	< 10	< 1	0.91	20	1.36	130	616
H589470	299	229	1.2	1.93	< 2	110	< 0.5	4	0.89	< 0.5	14	137	1295	2.72	< 10	< 1	0.80	20	1.13	120	417
H589471	299	229	1.2	1.76	2	130	< 0.5	< 2	0.83	< 0.5	11	107	1155	2.44	< 10	< 1	0.91	20	1.21	125	462
H589472	299	229	0.8	1.40	< 2	140	< 0.5	< 2	0.58	< 0.5	8	179	674	2.15	< 10	< 1	0.73	30	0.76	75	720
H589473	299	229	1.6	1.82	< 2	90	< 0.5	< 2	0.73	< 0.5	12	99	1580	3.06	< 10	< 1	1.06	20	1.27	100	501
H589474	299	229	1.6	2.00	< 2	120	< 0.5	< 2	0.84	< 0.5	13	182	1450	2.82	< 10	< 1	1.10	30	1.28	125	501
H589475	299	229	1.6	1.65	4	130	< 0.5	< 2	0.52	< 0.5	17	145	1525	2.63	< 10	< 1	0.90	20	1.03	85	429
H589476	299	229	2.0	2.08	2	220	< 0.5	< 2	0.93	< 0.5	7	176	1710	2.08	< 10	< 1	1.07	20	1.27	110	487
H589477	299	229	1.6	1.46	2	120	< 0.5	2	1.06	< 0.5	12	143	1485	2.36	< 10	< 1	0.75	20	0.84	90	301
H589478	299	229	1.4	1.59	< 2	170	< 0.5	< 2	1.03	< 0.5	8	112	1205	1.90	< 10	< 1	0.75	10	1.05	110	128
H589479	299	229	1.0	1.15	< 2	130	< 0.5	< 2	0.95	0.5	9	97	907	2.00	< 10	< 1	0.61	10	0.66	90	140
H589480	299	229	0.6	1.28	< 2	80	< 0.5	< 2	1.46	< 0.5	14	130	483	2.82	< 10	< 1	0.70	20	0.61	105	109
H589481	299	229	0.8	1.02	< 2	70	< 0.5	< 2	0.89	< 0.5	17	94	878	2.70	< 10	< 1	0.67	20	0.58	75	155
H589482	299	229	1.8	1.17	< 2	60	< 0.5	< 2	1.06	0.5	24	142	1695	3.51	< 10	< 1	0.71	20	0.52	80	212
H589483	299	229	1.2	0.79	44	30	< 0.5	< 2	1.23	< 0.5	26	106	1400	5.02	< 10	< 1	0.42	10	0.27	125	215
H589484	299	229	1.4	0.96	< 2	40	< 0.5	< 2	1.02	< 0.5	16	122	1490	3.43	< 10	< 1	0.54	10	0.38	95	191
H589485	299	229	1.2	0.97	4	60	< 0.5	< 2	1.30	< 0.5	14	104	1155	3.18	< 10	1	0.54	10	0.43	115	173
H589486	299	229	2.2	1.12	< 2	70	< 0.5	< 2	2.00	< 0.5	18	119	2100	3.10	< 10	< 1	0.58	20	0.43	185	449

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 231
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 08-NOV-93
Invoice No. : I9324042
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324042

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H589447	299	229	0.02	6	360	< 2	4	2	22	< 0.01	< 10	< 10	22	10	42
H589448	299	229	0.02	4	300	2	< 2	2	22	< 0.01	< 10	< 10	23	10	128
H589449	299	229	0.03	4	430	< 2	< 2	4	21	0.02	< 10	< 10	32	10	20
H589450	299	229	0.02	7	390	2	< 2	3	23	0.01	< 10	< 10	25	10	604
H589451	299	229	0.04	6	400	< 2	< 2	3	23	0.01	< 10	< 10	25	10	20
H589452	299	229	0.03	4	500	2	2	4	22	0.02	< 10	< 10	30	20	18
H589453	299	229	0.02	6	320	2	2	3	17	0.01	< 10	< 10	23	10	16
H589454	299	229	0.02	7	330	4	2	2	12	0.01	< 10	< 10	18	20	16
H589455	299	229	0.02	6	580	18	2	3	16	< 0.01	< 10	< 10	20	20	48
H589456	299	229	0.06	4	450	6	< 2	6	29	0.04	< 10	< 10	46	10	20
H589457	299	229	0.04	3	490	2	4	4	35	0.02	< 10	< 10	33	10	14
H589458	299	229	0.03	3	440	8	2	5	29	0.04	< 10	< 10	44	10	16
H589459	299	229	0.04	6	440	< 2	2	7	27	0.07	< 10	< 10	60	10	22
H589460	299	229	0.03	4	430	< 2	2	6	22	0.06	< 10	< 10	53	20	16
H589461	299	229	0.02	7	410	< 2	4	6	22	0.05	< 10	< 10	50	20	18
H589462	299	229	0.03	4	360	4	6	5	25	0.05	< 10	< 10	47	20	16
H589463	299	229	0.02	6	420	2	16	6	19	0.06	< 10	< 10	62	20	18
H589464	299	229	0.03	7	490	< 2	6	5	22	0.06	< 10	< 10	57	20	18
H589465	299	229	0.02	5	470	6	2	4	25	0.04	< 10	< 10	45	20	14
H589466	299	229	0.03	6	480	< 2	12	7	20	0.07	< 10	< 10	67	20	16
H589467	299	229	0.02	6	450	2	6	4	20	0.04	< 10	< 10	47	20	18
H589468	299	229	0.03	6	550	< 2	8	9	28	0.09	< 10	< 10	74	20	24
H589469	299	229	0.03	7	500	4	4	7	30	0.07	< 10	< 10	67	20	18
H589470	299	229	0.04	5	390	< 2	2	5	34	0.05	< 10	< 10	52	20	18
H589471	299	229	0.03	4	520	4	2	7	25	0.07	< 10	< 10	67	20	20
H589472	299	229	0.03	5	380	2	6	3	18	0.03	< 10	< 10	39	10	14
H589473	299	229	0.03	6	590	< 2	2	6	18	0.07	< 10	< 10	61	20	14
H589474	299	229	0.04	7	570	< 2	4	7	26	0.08	< 10	< 10	73	20	16
H589475	299	229	0.03	6	360	8	2	6	20	0.06	< 10	< 10	50	20	14
H589476	299	229	0.03	7	440	12	2	8	31	0.08	< 10	< 10	64	20	18
H589477	299	229	0.03	6	420	2	4	5	27	0.05	< 10	< 10	41	20	12
H589478	299	229	0.03	6	410	< 2	< 2	7	40	0.06	< 10	< 10	51	10	16
H589479	299	229	0.03	4	400	4	< 2	4	25	0.04	< 10	< 10	34	10	14
H589480	299	229	0.02	5	550	< 2	< 2	3	25	0.02	< 10	< 10	26	10	12
H589481	299	229	0.02	6	400	2	< 2	2	15	0.03	< 10	< 10	28	10	10
H589482	299	229	0.02	8	470	2	< 2	3	22	0.02	< 10	< 10	29	20	16
H589483	299	229	0.01	7	350	2	24	2	22	0.01	< 10	< 10	15	30	24
H589484	299	229	0.02	7	560	8	< 2	3	25	0.01	< 10	< 10	23	20	12
H589485	299	229	0.02	7	490	4	4	3	31	0.01	< 10	< 10	26	20	12
H589486	299	229	0.02	4	500	2	2	3	32	0.01	< 10	< 10	28	30	16

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Project : CASINO 232
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
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Certificate Date: 15-NOV-93
Invoice No. :I9324317
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324317

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
940111H	208 274	0.09	0.008	0.07	3060
940112H	208 274	0.06	0.010	0.07	4100
940113H	208 276	0.04	0.010	0.07	7980
940114H	208 276	0.05	0.012	0.10	9320
940115H	208 274	0.03	0.015	0.07	6140
940116H	208 276	0.03	0.014	0.10	9460
940117H	208 276	0.03	0.007	0.10	9760
940118H	208 276	0.02	0.028	0.72	9460
940119H	208 276	0.02	0.020	0.21	7760
940120H	208 276	0.03	0.021	0.10	11140
940121H	208 276	0.04	0.014	0.07	10200
940122H	208 273	0.22	0.022	0.14	12340
940123H	208 276	0.62	0.038	0.10	11700
940124H	208 276	0.40	0.050	0.17	11000
940125H	208 276	0.21	0.023	0.24	11620
940126H	208 276	0.21	0.027	0.07	10960
940127H	208 274	0.26	0.024	0.17	6500
940128H	208 276	0.26	0.023	0.07	11320
940129H	208 276	0.13	0.012	0.07	11640
940130H	208 276	0.26	0.011	0.10	11720
940131H	208 276	0.24	0.014	0.27	10080
940132H	208 273	0.14	0.011	0.07	13360
940133H	208 273	0.15	0.014	0.07	12200
940134H	208 273	0.12	0.013	0.10	12520
940135H	208 276	0.18	0.015	0.10	10180
940136H	208 276	0.20	0.023	0.21	10120
940137H	208 274	0.17	0.040	0.10	4680
940138H	208 276	0.11	0.029	0.10	10660
940139H	208 273	0.14	0.032	0.07	14700
940140H	208 276	0.19	0.030	0.14	11340
940141H	208 273	0.17	0.015	0.14	11820
940142H	208 276	0.25	0.014	0.31	9000
940143H	208 276	0.16	0.012	0.21	11260
940144H	208 273	0.16	0.015	0.21	12120
940145H	208 276	0.22	0.036	0.17	10020
940146H	208 276	0.15	0.023	0.24	11780
940147H	208 273	0.23	0.015	0.14	12000
940148H	208 276	0.09	0.013	0.03	10480
940149H	208 274	0.08	0.011	0.10	7100
940150H	208 273	0.21	0.020	1.30	15140

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CERTIFICATE OF ANALYSIS A9324317

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
940151H	208	276	0.20	0.044	0.24	11200
940152H	208	276	0.16	0.050	0.17	11420
940153H	208	273	0.19	0.063	0.21	12540
940154H	208	273	0.13	0.019	0.10	12480
940155H	208	276	0.16	0.072	0.14	11780
940156H	208	273	0.11	0.023	0.14	12080
940157H	208	274	0.13	0.036	0.21	5500
940158H	208	273	0.16	0.030	0.27	12680
940159H	208	273	0.13	0.016	0.17	12860
940160H	208	273	0.18	0.017	0.17	13420
940161H	208	273	0.15	0.020	0.21	12280
940162H	208	273	0.13	0.019	0.17	13060
940163H	208	273	0.23	0.022	0.17	12180
940164H	208	273	0.10	0.026	0.17	12060
940165H	208	276	0.11	0.028	0.10	10000
940166H	208	273	0.18	0.026	0.17	11960
940167H	208	276	0.11	0.024	0.10	10700
940168H	208	276	0.11	0.018	0.07	11180
940169H	208	276	0.15	0.045	0.17	11600
940170H	208	276	0.18	0.025	0.17	11780
940171H	208	273	0.17	0.031	0.14	11860
940172H	208	276	0.21	0.022	0.14	11380
940173H	208	276	0.20	0.035	0.21	9320
940174H	208	273	0.19	0.023	0.14	11880
940175H	208	276	0.19	0.020	0.24	10440
940176H	208	273	0.23	0.026	0.31	13260
940177H	208	273	0.32	0.025	0.24	12360
940178H	208	276	0.14	0.016	0.14	11780
940179H	208	273	0.16	0.023	0.10	13380
940180H	208	273	0.05	0.007	0.07	12780
940181H	208	276	0.18	0.020	0.27	10120
940182H	208	273	0.21	0.020	0.21	12120
940183H	208	273	0.31	0.012	0.27	13220
940184H	208	276	0.25	0.035	0.21	10480
940185H	208	276	0.08	0.018	0.10	10820
940186H	208	273	0.20	0.031	0.14	13060
940187H	208	274	0.19	0.031	0.17	7100
940188H	208	276	0.14	0.026	0.10	11600
940189H	208	273	0.12	0.013	0.10	12820
940190H	208	273	0.27	0.030	0.31	12440

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CERTIFICATE OF ANALYSIS A9324317

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
940191H	208	273	0.15	0.015	0.14	13300						
940192H	208	273	0.16	0.026	0.14	12020						
940193H	208	276	0.16	0.026	0.10	9640						
940194H	208	273	0.13	0.021	0.10	13950						
940195H	208	273	0.08	0.013	0.14	12720						
940196H	208	276	0.14	0.052	0.21	10200						
940197H	208	273	0.13	0.018	0.17	12580						
940198H	208	273	0.14	0.018	0.17	12220						
940199H	208	273	0.11	0.008	0.14	12280						
940200H	208	273	0.14	0.011	0.17	12380						
940201H	208	276	0.27	0.034	0.34	10640						
940202H	208	276	0.19	0.029	0.21	10420						
940203H	208	276	0.21	0.051	0.21	11400						
940204H	208	276	0.17	0.058	0.21	11280						
940205H	208	276	0.19	0.046	0.38	10340						
940206H	208	276	0.13	0.025	0.17	11520						
940207H	208	273	0.22	0.032	0.27	12340						
940208H	208	276	0.14	0.013	0.14	10940						
940209H	208	273	0.14	0.035	0.10	12840						
940210H	208	276	0.21	0.052	0.21	10560						
940211H	208	273	0.36	0.030	0.48	12000						
940212H	208	274	0.17	0.015	0.21	4660						
940213H	208	276	0.12	0.010	0.14	7820						
940214H	208	276	0.23	0.029	0.17	11400						
940215H	208	273	0.25	0.025	0.34	12260						
940216H	208	276	0.32	0.061	0.45	11700						
940217H	208	273	0.22	0.038	0.21	14380						
940218H	208	273	0.33	0.054	0.38	11900						
940219H	208	276	0.19	0.022	0.24	11340						
940220H	208	276	0.16	0.030	0.21	11720						
940221H	208	273	0.17	0.014	0.21	13420						
940222H	208	273	0.24	0.037	0.27	11820						
940223H	208	273	0.32	0.037	0.58	12820						
940224H	208	273	0.40	0.040	0.48	12800						
940225H	208	273	0.33	0.045	0.58	12280						
940226H	208	273	0.17	0.035	0.24	13060						
940227H	208	273	0.29	0.031	0.45	12120						
940228H	208	273	0.38	0.030	0.62	13040						
940229H	208	273	0.20	0.017	0.24	12980						
940230H	208	273	0.23	0.016	0.27	12680						

CERTIFICATION: A. Bysta

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 232
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324317

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
940231H	208	273	0.20	0.018	0.27	12560						
940232H	208	273	0.29	0.019	0.62	14680						
940233H	208	273	0.11	0.012	0.14	12240						
940234H	208	273	0.06	0.005	0.10	12380						
940235H	208	276	0.07	0.005	0.07	11340						
940236H	208	273	0.08	0.007	0.14	13220						
940237H	208	273	0.08	0.004	0.10	12460						
940238H	208	276	0.10	0.012	0.07	9140						
940239H	208	273	0.06	0.007	0.07	13060						
940240H	208	276	0.09	0.006	0.14	11780						
940241H	208	273	0.11	0.007	0.10	13360						

CERTIFICATION: _____

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Y1A 3S9

Project : CASINO 232
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-NOV-93
Invoice No. :19324318
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324318

SAMPLE	PREP CODE	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940111H	299 229	1.2	1.61	< 2	160	< 0.5	< 2	0.07	< 0.5	13	87	1005	6.98	< 10	< 1	0.45	10	0.09	105	48
940112H	299 229	1.2	1.65	< 2	540	< 0.5	< 2	0.09	< 0.5	3	72	632	5.20	10	< 1	0.42	10	0.17	40	67
940113H	299 229	0.8	1.85	< 2	610	< 0.5	< 2	0.07	< 0.5	3	106	459	4.10	< 10	< 1	0.50	10	0.19	40	67
940114H	299 229	0.8	2.24	2	740	< 0.5	< 2	0.12	< 0.5	2	46	578	3.81	< 10	< 1	0.32	20	0.33	35	72
940115H	299 229	0.6	1.49	< 2	740	< 0.5	< 2	0.05	< 0.5	1	73	310	2.23	< 10	< 1	0.38	20	0.08	5	87
940116H	299 229	2.0	1.07	< 2	410	< 0.5	< 2	0.03	< 0.5	2	121	338	5.21	< 10	< 1	0.49	< 10	0.08	25	85
940117H	299 229	2.2	1.45	34	240	< 0.5	< 2	0.03	< 0.5	2	111	312	4.76	< 10	< 1	0.48	10	0.14	20	48
940118H	299 229	4.0	0.93	670	200	< 0.5	< 2	0.01	< 0.5	1	163	219	5.01	< 10	< 1	0.57	10	0.05	40	165
940119H	299 229	2.4	1.24	120	150	< 0.5	< 2	0.01	< 0.5	2	159	204	3.40	< 10	< 1	0.41	10	0.07	15	113
940120H	299 229	1.4	1.27	< 2	120	< 0.5	< 2	0.01	< 0.5	3	167	324	3.17	< 10	< 1	0.64	10	0.10	20	128
940121H	299 229	1.4	1.66	12	130	< 0.5	< 2	0.01	< 0.5	10	191	496	4.03	< 10	< 1	0.58	10	0.12	120	95
940122H	299 229	2.6	1.62	< 2	90	< 0.5	< 2	0.02	< 0.5	49	159	2400	7.62	10	< 1	0.58	10	0.24	215	135
940123H	299 229	3.2	2.36	8	80	< 0.5	< 2	0.10	< 0.5	31	172	7020	5.39	< 10	< 1	0.51	10	0.16	195	224
940124H	299 229	2.4	1.78	< 2	60	< 0.5	< 2	0.13	0.5	37	173	4290	5.68	< 10	< 1	0.48	10	0.26	300	290
940125H	299 229	2.0	1.38	< 2	60	< 0.5	< 2	0.21	1.5	41	79	2170	6.07	10	< 1	0.38	20	0.83	690	135
940126H	299 229	2.0	1.47	< 2	80	< 0.5	< 2	0.22	1.0	43	187	2340	5.94	10	< 1	0.46	20	0.68	630	153
940127H	299 229	1.8	1.63	< 2	100	< 0.5	< 2	0.22	1.0	38	211	2870	5.60	10	< 1	0.55	20	0.65	605	145
940128H	299 229	2.0	1.49	< 2	70	< 0.5	< 2	0.39	1.0	34	176	2900	5.16	10	< 1	0.55	10	0.58	565	139
940129H	299 229	1.8	1.65	< 2	90	< 0.5	< 2	0.80	0.5	32	181	1390	5.12	10	< 1	0.61	10	1.00	525	70
940130H	299 229	3.2	1.85	< 2	90	< 0.5	< 2	0.48	0.5	42	196	2770	6.53	10	< 1	0.66	10	0.77	515	66
940131H	299 229	3.4	1.27	32	50	< 0.5	4	0.55	1.0	38	184	2640	5.85	10	< 1	0.54	20	0.70	575	81
940132H	299 229	2.0	1.47	6	90	< 0.5	2	1.05	< 0.5	24	132	1465	5.56	10	< 1	0.51	10	1.00	340	66
940133H	299 229	1.8	2.10	< 2	100	< 0.5	< 2	0.40	0.5	28	166	1595	5.13	10	< 1	0.54	10	1.18	365	87
940134H	299 229	2.0	1.54	4	100	< 0.5	< 2	0.40	0.5	35	93	1280	5.24	10	< 1	0.32	20	0.82	530	72
940135H	299 229	2.8	1.68	10	100	< 0.5	2	0.55	< 0.5	43	180	2010	6.23	10	< 1	0.47	10	0.85	415	92
940136H	299 229	2.6	1.67	< 2	110	< 0.5	< 2	0.63	< 0.5	27	158	2070	5.91	10	< 1	0.63	10	1.03	345	134
940137H	299 229	2.0	2.29	< 2	90	< 0.5	< 2	0.30	0.5	32	221	1805	5.66	10	< 1	1.07	10	1.48	385	238
940138H	299 229	1.8	1.86	8	120	< 0.5	< 2	0.73	< 0.5	23	123	1170	5.26	10	< 1	0.59	20	1.05	215	175
940139H	299 229	1.6	1.05	< 2	100	< 0.5	2	0.40	0.5	24	136	1530	3.71	< 10	< 1	0.48	20	0.56	245	190
940140H	299 229	2.4	0.74	< 2	50	< 0.5	2	0.51	< 0.5	32	132	1995	4.40	< 10	< 1	0.36	10	0.36	215	174
940141H	299 229	2.2	1.21	4	90	< 0.5	2	0.49	< 0.5	27	86	1760	4.84	10	< 1	0.51	10	0.87	280	90
940142H	299 229	2.4	1.75	< 2	120	< 0.5	2	0.35	1.0	36	146	2610	4.47	10	< 1	0.87	10	0.80	365	88
940143H	299 229	2.0	2.06	< 2	130	< 0.5	4	0.32	< 0.5	41	149	1665	5.18	10	< 1	0.94	10	1.08	300	66
940144H	299 229	1.8	1.62	2	110	< 0.5	< 2	0.65	< 0.5	30	140	1665	4.93	10	< 1	0.80	10	1.00	215	86
940145H	299 229	2.6	1.77	12	100	< 0.5	8	0.88	< 0.5	33	192	2280	5.72	10	< 1	0.92	10	1.04	245	206
940146H	299 229	2.2	1.81	2	130	< 0.5	2	1.04	< 0.5	20	127	1585	4.32	10	< 1	0.84	10	1.09	190	134
940147H	299 229	2.8	1.54	14	140	< 0.5	18	0.76	< 0.5	15	91	2500	5.42	10	< 1	0.68	10	1.03	245	82
940148H	299 229	1.6	1.84	4	130	< 0.5	< 2	0.72	< 0.5	16	119	966	5.37	10	< 1	0.90	10	1.18	225	72
940149H	299 229	1.2	2.95	12	160	< 0.5	< 2	0.37	< 0.5	24	149	814	7.55	20	< 1	1.85	10	2.46	370	62
940150H	299 229	6.2	1.47	382	70	< 0.5	< 2	0.48	1.5	21	106	2170	12.55	20	< 1	0.83	< 10	1.02	945	107

CERTIFICATION: Ivan Bucher

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Invoice No. :I9324318
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CERTIFICATE OF ANALYSIS A9324318

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940111H	299	229	0.02	11	980	4	< 2	3	18	< 0.01	< 10	< 10	21	< 10	76
940112H	299	229	0.05	3	950	6	< 2	3	37	< 0.01	< 10	< 10	27	< 10	32
940113H	299	229	0.06	4	880	6	< 2	4	44	< 0.01	< 10	< 10	23	< 10	24
940114H	299	229	0.06	7	1030	4	< 2	2	65	< 0.01	< 10	< 10	23	< 10	22
940115H	299	229	0.03	4	860	4	< 2	2	73	< 0.01	< 10	< 10	15	< 10	10
940116H	299	229	0.07	3	640	4	< 2	2	40	< 0.01	< 10	< 10	32	< 10	42
940117H	299	229	0.03	3	760	2	2	3	47	< 0.01	< 10	< 10	26	< 10	42
940118H	299	229	0.01	2	360	32	52	2	29	< 0.01	< 10	< 10	16	< 10	40
940119H	299	229	0.01	5	380	6	2	2	22	< 0.01	< 10	< 10	16	< 10	32
940120H	299	229	0.09	4	470	4	< 2	3	24	< 0.01	< 10	< 10	23	< 10	20
940121H	299	229	0.09	11	660	4	2	3	26	< 0.01	< 10	< 10	27	< 10	32
940122H	299	229	0.07	19	660	4	< 2	3	23	< 0.01	< 10	< 10	35	< 10	74
940123H	299	229	0.04	28	890	4	2	4	9	< 0.01	< 10	< 10	25	< 10	58
940124H	299	229	0.04	24	760	6	< 2	3	10	< 0.01	< 10	< 10	24	< 10	66
940125H	299	229	0.03	19	640	2	< 2	5	9	0.01	< 10	< 10	35	< 10	92
940126H	299	229	0.06	21	650	2	< 2	4	10	< 0.01	< 10	< 10	31	< 10	102
940127H	299	229	0.06	21	720	4	< 2	4	11	< 0.01	< 10	< 10	32	< 10	100
940128H	299	229	0.04	22	720	6	< 2	4	13	< 0.01	< 10	< 10	30	< 10	84
940129H	299	229	0.07	16	540	4	< 2	4	21	0.01	< 10	< 10	36	< 10	70
940130H	299	229	0.06	19	530	4	< 2	6	18	0.01	< 10	< 10	50	< 10	78
940131H	299	229	0.03	19	660	4	< 2	5	15	< 0.01	< 10	< 10	36	< 10	82
940132H	299	229	0.05	14	600	< 2	< 2	5	21	0.01	< 10	< 10	50	< 10	42
940133H	299	229	0.07	15	510	< 2	< 2	6	16	0.01	< 10	< 10	53	< 10	54
940134H	299	229	0.04	12	760	< 2	< 2	3	14	< 0.01	< 10	< 10	36	< 10	70
940135H	299	229	0.05	16	590	< 2	< 2	4	19	0.01	< 10	< 10	43	< 10	58
940136H	299	229	0.06	16	430	< 2	< 2	8	21	0.04	< 10	< 10	64	< 10	48
940137H	299	229	0.06	19	380	2	2	9	13	0.07	< 10	< 10	62	10	58
940138H	299	229	0.07	12	560	< 2	< 2	4	24	0.02	< 10	< 10	41	< 10	30
940139H	299	229	0.04	11	480	< 2	< 2	3	16	0.01	< 10	< 10	26	< 10	38
940140H	299	229	0.03	11	320	< 2	< 2	2	13	< 0.01	< 10	< 10	19	< 10	32
940141H	299	229	0.03	12	380	< 2	< 2	4	14	0.03	< 10	< 10	41	< 10	40
940142H	299	229	0.04	14	320	< 2	< 2	4	13	0.03	< 10	< 10	36	< 10	58
940143H	299	229	0.06	15	280	< 2	< 2	5	17	0.05	< 10	< 10	51	< 10	44
940144H	299	229	0.06	13	300	< 2	< 2	5	22	0.05	< 10	< 10	53	< 10	32
940145H	299	229	0.06	15	260	< 2	< 2	6	24	0.06	< 10	< 10	62	< 10	34
940146H	299	229	0.08	12	700	< 2	< 2	5	34	0.08	< 10	< 10	47	< 10	28
940147H	299	229	0.06	15	650	< 2	4	5	29	0.07	< 10	< 10	56	10	34
940148H	299	229	0.09	13	630	< 2	< 2	6	32	0.08	< 10	< 10	62	< 10	32
940149H	299	229	0.09	17	560	< 2	2	13	18	0.14	< 10	< 10	84	10	56
940150H	299	229	0.05	14	430	28	50	7	18	0.07	< 10	< 10	117	20	100

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9324318

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940151H	299	229	2.8	1.64	< 2	110	< 0.5	< 2	0.53	< 0.5	24	91	2130	7.24	20	< 1	0.92	10	1.28	225	255
940152H	299	229	2.2	1.36	2	100	< 0.5	< 2	0.82	< 0.5	18	122	1665	6.07	10	< 1	0.76	10	1.07	230	285
940153H	299	229	2.4	1.34	16	100	< 0.5	< 2	0.69	< 0.5	22	110	1990	5.56	10	< 1	0.77	10	0.97	410	365
940154H	299	229	1.8	1.30	< 2	110	< 0.5	< 2	0.81	< 0.5	18	85	1330	6.03	10	< 1	0.74	10	0.94	250	102
940155H	299	229	2.0	1.55	< 2	110	< 0.5	< 2	1.46	< 0.5	20	83	1600	4.65	10	< 1	0.86	10	1.06	280	408
940156H	299	229	1.4	1.64	< 2	120	< 0.5	< 2	1.19	< 0.5	25	115	1130	4.67	10	< 1	0.95	10	1.13	215	133
940157H	299	229	1.6	1.27	< 2	110	< 0.5	< 2	1.25	< 0.5	24	103	1355	4.78	10	< 1	0.66	10	1.06	225	196
940158H	299	229	2.2	1.46	< 2	80	< 0.5	< 2	1.40	< 0.5	38	115	1810	6.68	10	< 1	0.70	10	1.09	330	170
940159H	299	229	1.8	1.33	< 2	90	< 0.5	< 2	1.10	< 0.5	25	123	1425	5.13	10	< 1	0.67	10	0.99	200	96
940160H	299	229	5.6	1.26	94	80	< 0.5	< 2	0.98	3.0	40	114	1910	5.40	< 10	< 1	0.59	10	0.86	840	100
940161H	299	229	1.6	1.60	< 2	110	< 0.5	< 2	1.56	< 0.5	23	101	1495	4.06	10	< 1	0.72	10	1.10	180	113
940162H	299	229	1.8	1.28	4	120	< 0.5	< 2	1.44	< 0.5	21	138	1250	4.88	10	< 1	0.57	10	0.83	230	108
940163H	299	229	2.0	1.95	< 2	130	< 0.5	< 2	1.20	< 0.5	24	136	2410	3.62	10	< 1	0.87	20	0.99	220	128
940164H	299	229	1.4	1.45	< 2	130	< 0.5	2	0.99	< 0.5	23	138	1040	3.07	10	< 1	0.72	20	0.78	125	143
940165H	299	229	1.4	1.40	< 2	130	< 0.5	2	0.57	< 0.5	20	143	1145	2.76	10	< 1	0.72	20	0.84	115	167
940166H	299	229	2.0	1.21	< 2	70	< 0.5	2	0.83	< 0.5	14	152	1855	3.75	10	< 1	0.50	10	0.76	135	155
940167H	299	229	1.2	1.19	2	130	< 0.5	2	1.34	< 0.5	19	112	1130	2.44	10	< 1	0.65	20	0.84	135	141
940168H	299	229	1.2	1.38	< 2	110	< 0.5	2	1.56	< 0.5	22	123	1130	2.87	10	< 1	0.71	10	0.98	155	105
940169H	299	229	1.8	1.29	< 2	140	< 0.5	2	1.65	< 0.5	19	125	1625	2.94	10	< 1	0.65	20	0.89	180	251
940170H	299	229	1.8	1.35	8	140	< 0.5	< 2	1.86	< 0.5	14	119	1900	3.03	10	< 1	0.64	20	0.90	200	141
940171H	299	229	1.6	1.65	4	140	< 0.5	2	1.23	< 0.5	24	102	1825	3.41	10	< 1	0.79	10	1.09	215	190
940172H	299	229	2.0	1.76	124	160	< 0.5	< 2	1.15	0.5	25	152	2200	4.46	10	< 1	0.81	30	0.97	570	131
940173H	299	229	1.8	1.40	< 2	130	< 0.5	< 2	1.27	< 0.5	18	155	2210	3.65	10	< 1	0.68	20	0.77	270	215
940174H	299	229	1.8	1.56	< 2	110	< 0.5	< 2	1.27	< 0.5	17	128	2080	3.98	10	< 1	0.64	20	0.72	250	143
940175H	299	229	2.2	1.72	< 2	120	< 0.5	< 2	0.69	< 0.5	23	129	2130	8.40	20	< 1	0.71	20	0.84	310	122
940176H	299	229	2.2	1.81	8	100	< 0.5	< 2	0.59	< 0.5	25	187	2510	4.14	10	< 1	0.84	20	1.01	260	152
940177H	299	229	2.8	1.78	2	140	< 0.5	< 2	1.41	< 0.5	36	151	3440	4.02	10	1	0.93	20	1.01	185	142
940178H	299	229	1.6	1.70	< 2	90	< 0.5	2	2.19	< 0.5	14	106	1620	3.14	10	< 1	0.70	20	0.87	260	102
940179H	299	229	1.8	1.74	< 2	90	< 0.5	< 2	2.26	< 0.5	21	110	1880	4.21	10	< 1	0.75	20	0.85	295	141
940180H	299	229	0.8	1.95	< 2	160	< 0.5	< 2	1.39	< 0.5	14	96	592	2.67	10	< 1	0.97	10	1.16	175	51
940181H	299	229	2.0	1.25	< 2	100	< 0.5	2	1.51	< 0.5	27	125	2010	3.27	10	< 1	0.61	20	0.73	230	123
940182H	299	229	2.6	1.68	62	130	< 0.5	4	1.34	< 0.5	23	172	2290	3.20	10	< 1	0.76	10	1.01	560	124
940183H	299	229	3.0	1.55	4	110	< 0.5	< 2	0.75	< 0.5	29	109	3460	4.02	10	< 1	0.64	10	0.88	205	80
940184H	299	229	2.6	1.66	2	130	< 0.5	2	0.95	< 0.5	26	156	2620	4.78	10	< 1	0.80	20	1.00	215	203
940185H	299	229	0.8	1.22	< 2	120	< 0.5	< 2	1.12	< 0.5	15	198	939	3.68	10	< 1	0.66	10	0.81	170	105
940186H	299	229	2.2	1.41	< 2	90	< 0.5	< 2	1.26	< 0.5	30	141	2250	6.48	10	< 1	0.70	20	0.83	250	181
940187H	299	229	2.0	1.70	4	90	< 0.5	< 2	0.93	< 0.5	32	162	2100	4.35	10	< 1	0.80	20	0.91	235	181
940188H	299	229	1.4	1.88	< 2	100	< 0.5	< 2	0.55	< 0.5	25	167	1470	5.01	10	< 1	0.97	20	1.37	285	150
940189H	299	229	1.2	1.93	8	100	< 0.5	< 2	0.73	< 0.5	14	207	1225	4.58	10	< 1	1.26	10	1.68	355	72
940190H	299	229	2.8	1.23	< 2	100	< 0.5	2	1.24	< 0.5	19	130	2910	3.66	10	< 1	0.65	20	0.91	180	179

CERTIFICATION: Brent Buchler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 232
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 11-NOV-93
Invoice No. :I9324318
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324318

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940151H	299	229	0.04	12	480	< 2	< 2	7	18	0.09	< 10	< 10	66	10	36
940152H	299	229	0.03	12	420	< 2	< 2	6	20	0.04	< 10	< 10	59	< 10	30
940153H	299	229	0.03	12	480	< 2	2	6	18	0.04	< 10	< 10	49	< 10	32
940154H	299	229	0.04	10	500	< 2	< 2	4	20	0.04	< 10	< 10	46	10	26
940155H	299	229	0.03	11	510	< 2	< 2	6	21	0.07	< 10	< 10	42	< 10	28
940156H	299	229	0.06	14	510	< 2	< 2	7	22	0.08	< 10	< 10	57	< 10	30
940157H	299	229	0.03	10	420	< 2	< 2	4	22	0.03	< 10	< 10	42	< 10	28
940158H	299	229	0.04	14	510	2	< 2	4	25	0.04	< 10	< 10	42	< 10	36
940159H	299	229	0.05	11	420	2	< 2	5	25	0.04	< 10	< 10	47	< 10	28
940160H	299	229	0.02	10	360	198	68	3	21	< 0.01	< 10	< 10	29	< 10	150
940161H	299	229	0.03	11	420	2	< 2	5	28	0.03	< 10	< 10	42	< 10	26
940162H	299	229	0.02	10	310	2	< 2	6	25	0.03	< 10	< 10	43	< 10	32
940163H	299	229	0.04	11	530	< 2	< 2	6	22	0.06	< 10	< 10	44	< 10	30
940164H	299	229	0.06	11	530	< 2	2	4	22	0.04	< 10	< 10	36	< 10	20
940165H	299	229	0.05	9	450	< 2	< 2	4	19	0.04	< 10	< 10	44	< 10	20
940166H	299	229	0.07	10	410	< 2	< 2	3	21	0.03	< 10	< 10	42	< 10	20
940167H	299	229	0.07	8	730	2	2	4	27	0.04	< 10	< 10	35	< 10	18
940168H	299	229	0.03	11	420	2	< 2	5	27	0.04	< 10	< 10	40	< 10	20
940169H	299	229	0.04	11	370	< 2	< 2	4	30	0.03	< 10	< 10	41	< 10	22
940170H	299	229	0.06	11	590	< 2	2	6	33	0.04	< 10	< 10	43	10	24
940171H	299	229	0.05	12	450	2	2	6	26	0.04	< 10	< 10	49	< 10	26
940172H	299	229	0.06	14	500	12	22	5	28	0.04	< 10	< 10	46	10	62
940173H	299	229	0.05	11	470	< 2	2	3	31	0.02	< 10	< 10	33	< 10	24
940174H	299	229	0.04	12	690	4	< 2	4	27	0.02	< 10	< 10	44	< 10	24
940175H	299	229	0.07	14	560	2	< 2	6	22	0.03	< 10	< 10	70	10	46
940176H	299	229	0.09	14	340	2	4	7	17	0.07	< 10	< 10	65	< 10	36
940177H	299	229	0.07	15	610	4	2	7	26	0.07	< 10	< 10	54	10	26
940178H	299	229	0.04	10	540	2	< 2	6	39	0.04	< 10	< 10	43	< 10	24
940179H	299	229	0.04	11	730	2	< 2	6	37	0.04	< 10	< 10	44	10	28
940180H	299	229	0.07	11	660	2	< 2	7	36	0.09	< 10	< 10	51	< 10	22
940181H	299	229	0.02	11	390	4	< 2	3	22	0.01	< 10	< 10	31	< 10	20
940182H	299	229	0.06	15	590	2	18	5	30	0.02	< 10	< 10	46	< 10	30
940183H	299	229	0.07	13	540	< 2	2	4	20	0.02	< 10	< 10	45	< 10	28
940184H	299	229	0.08	13	540	< 2	2	6	30	0.04	< 10	< 10	56	< 10	28
940185H	299	229	0.06	10	420	2	< 2	4	25	0.04	< 10	< 10	40	< 10	22
940186H	299	229	0.05	14	460	2	< 2	6	27	0.04	< 10	< 10	63	10	32
940187H	299	229	0.07	14	560	4	2	6	22	0.04	< 10	< 10	49	< 10	32
940188H	299	229	0.07	17	610	2	< 2	8	18	0.08	< 10	< 10	69	< 10	44
940189H	299	229	0.06	19	510	< 2	< 2	12	21	0.11	< 10	< 10	76	< 10	34
940190H	299	229	0.05	10	490	< 2	< 2	5	24	0.03	< 10	< 10	40	< 10	22

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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CERTIFICATE OF ANALYSIS A9324318

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940191H	299	229	1.6	1.83	< 2	120	< 0.5	< 2	0.72	< 0.5	34	140	1510	4.78	10	< 1	0.83	20	1.09	245	92
940192H	299	229	1.6	1.33	< 2	130	< 0.5	< 2	0.90	< 0.5	26	124	1595	4.15	10	< 1	0.73	20	1.08	215	152
940193H	299	229	1.6	1.31	< 2	130	< 0.5	< 2	0.65	< 0.5	21	163	1650	3.75	10	< 1	0.76	20	0.99	255	148
940194H	299	229	1.2	1.19	< 2	110	< 0.5	< 2	0.74	< 0.5	17	127	1265	3.47	10	< 1	0.60	20	0.95	325	124
940195H	299	229	0.8	1.19	4	120	< 0.5	< 2	0.58	< 0.5	18	148	801	3.42	10	< 1	0.68	20	0.82	315	73
940196H	299	229	2.2	1.35	90	110	< 0.5	< 2	1.47	0.5	13	112	1445	3.46	10	< 1	0.63	10	1.03	820	310
940197H	299	229	1.4	1.43	2	100	< 0.5	< 2	1.96	< 0.5	17	165	1335	3.27	10	< 1	0.54	10	0.94	745	103
940198H	299	229	1.6	1.58	< 2	230	< 0.5	< 2	1.40	< 0.5	17	148	1500	3.42	10	< 1	0.71	10	0.90	170	100
940199H	299	229	1.4	1.69	< 2	140	< 0.5	< 2	1.43	< 0.5	18	50	1180	3.43	10	< 1	0.57	10	0.93	145	48
940200H	299	229	1.4	1.57	< 2	90	< 0.5	< 2	1.17	< 0.5	14	184	1475	4.21	10	< 1	0.81	10	1.03	185	60
940201H	299	229	2.4	1.93	< 2	140	< 0.5	< 2	1.71	< 0.5	26	222	2900	3.80	10	< 1	1.22	10	1.36	225	203
940202H	299	229	1.8	1.54	< 2	90	< 0.5	< 2	1.39	< 0.5	20	161	2010	4.19	10	< 1	0.74	10	1.14	200	155
940203H	299	229	2.0	1.55	< 2	100	< 0.5	< 2	1.10	< 0.5	14	171	2250	4.70	10	< 1	0.86	10	1.17	175	304
940204H	299	229	1.8	1.71	< 2	100	< 0.5	< 2	0.77	< 0.5	12	214	1740	4.61	10	< 1	1.07	10	1.39	190	349
940205H	299	229	2.0	1.05	< 2	90	< 0.5	< 2	0.84	< 0.5	28	144	1960	4.00	10	< 1	0.51	10	0.80	160	257
940206H	299	229	1.4	1.01	< 2	100	< 0.5	< 2	0.88	< 0.5	16	179	1350	3.07	10	< 1	0.48	10	0.56	155	133
940207H	299	229	2.2	1.48	< 2	130	< 0.5	< 2	0.83	< 0.5	18	138	2320	4.53	10	< 1	0.75	10	0.94	165	179
940208H	299	229	1.6	1.71	< 2	90	< 0.5	< 2	0.80	0.5	19	148	1375	8.56	20	< 1	0.70	10	1.11	175	72
940209H	299	229	1.4	2.05	< 2	170	< 0.5	< 2	0.79	< 0.5	16	153	1375	4.48	10	< 1	1.04	20	1.31	200	199
940210H	299	229	2.2	1.44	< 2	120	< 0.5	< 2	0.98	< 0.5	26	132	2150	3.65	10	< 1	0.72	20	0.85	190	305
940211H	299	229	3.0	1.60	< 2	120	< 0.5	< 2	0.79	< 0.5	17	149	3570	3.64	10	< 1	0.81	20	1.01	160	164
940212H	299	229	1.8	1.19	< 2	90	< 0.5	< 2	0.85	< 0.5	13	145	1600	3.39	10	< 1	0.60	20	0.82	145	91
940213H	299	229	1.4	1.11	< 2	70	< 0.5	< 2	1.05	< 0.5	13	150	1215	5.45	10	< 1	0.41	10	0.69	140	61
940214H	299	229	2.2	1.59	< 2	100	< 0.5	< 2	1.54	< 0.5	16	170	2270	3.95	10	< 1	0.66	20	0.83	160	164
940215H	299	229	2.2	1.78	< 2	160	< 0.5	< 2	1.54	< 0.5	10	154	2420	3.33	10	< 1	0.98	10	1.07	155	133
940216H	299	229	3.0	1.77	< 2	130	< 0.5	< 2	0.97	< 0.5	11	133	3270	3.75	10	< 1	0.97	10	1.09	150	365
940217H	299	229	2.4	1.37	< 2	80	< 0.5	< 2	1.50	< 0.5	25	81	2270	4.33	10	< 1	0.63	10	0.76	130	212
940218H	299	229	3.2	1.74	< 2	130	< 0.5	< 2	0.86	< 0.5	24	143	3310	4.70	10	< 1	0.85	20	1.07	140	296
940219H	299	229	2.0	1.38	< 2	120	< 0.5	< 2	0.99	< 0.5	18	144	1920	3.89	10	< 1	0.61	10	0.87	135	129
940220H	299	229	1.8	1.54	< 2	120	< 0.5	2	1.25	< 0.5	18	113	1610	2.94	10	< 1	0.70	10	0.90	125	169
940221H	299	229	1.8	1.72	< 2	130	< 0.5	< 2	1.31	< 0.5	14	154	1770	3.54	10	< 1	0.82	10	0.90	135	84
940222H	299	229	2.4	1.57	< 2	120	< 0.5	< 2	1.69	< 0.5	9	162	2610	4.03	10	< 1	0.75	10	0.92	165	220
940223H	299	229	3.0	1.15	8	80	< 0.5	< 2	4.06	< 0.5	13	88	3250	5.30	< 10	< 1	0.32	< 10	1.06	220	195
940224H	299	229	4.0	1.83	< 2	140	< 0.5	< 2	1.16	< 0.5	10	119	4280	5.19	10	< 1	0.79	10	0.99	160	235
940225H	299	229	3.2	1.53	< 2	160	< 0.5	< 2	1.28	< 0.5	14	133	3360	4.60	10	< 1	0.86	10	0.96	155	259
940226H	299	229	1.8	1.88	< 2	250	< 0.5	< 2	1.40	< 0.5	11	125	1615	4.25	10	< 1	1.10	10	1.27	180	195
940227H	299	229	3.0	1.56	< 2	90	< 0.5	< 2	1.21	< 0.5	19	129	2980	4.59	10	< 1	0.85	10	0.99	165	182
940228H	299	229	3.8	1.63	< 2	150	< 0.5	< 2	1.15	< 0.5	14	140	3720	4.50	10	< 1	1.05	10	1.18	165	163
940229H	299	229	2.2	1.57	< 2	120	< 0.5	< 2	1.33	< 0.5	13	84	1980	4.67	10	< 1	0.81	10	1.02	175	108
940230H	299	229	2.6	1.68	< 2	160	< 0.5	< 2	0.97	< 0.5	11	95	2190	3.78	10	< 1	1.03	10	1.30	170	96

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 232
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 11-NOV-93
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CERTIFICATE OF ANALYSIS A9324318

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940191H	299	229	0.08	13	550	< 2	< 2	8	22	0.07	< 10	< 10	60	< 10	34
940192H	299	229	0.06	13	610	< 2	< 2	6	28	0.06	< 10	< 10	49	< 10	28
940193H	299	229	0.07	11	610	2	< 2	5	23	0.05	< 10	< 10	44	< 10	40
940194H	299	229	0.06	9	470	2	< 2	6	23	0.04	< 10	< 10	43	< 10	42
940195H	299	229	0.06	9	460	4	< 2	7	22	0.04	< 10	< 10	48	< 10	44
940196H	299	229	0.03	11	590	2	10	5	30	0.04	< 10	< 10	40	< 10	32
940197H	299	229	0.03	9	610	2	4	5	36	0.01	< 10	< 10	35	< 10	36
940198H	299	229	0.05	9	450	2	2	7	44	0.06	< 10	< 10	57	< 10	20
940199H	299	229	0.04	8	470	4	< 2	7	34	0.06	< 10	< 10	48	< 10	20
940200H	299	229	0.04	12	380	2	< 2	10	29	0.07	< 10	< 10	73	< 10	20
940201H	299	229	0.05	14	450	< 2	< 2	13	30	0.11	< 10	< 10	84	< 10	28
940202H	299	229	0.05	12	470	4	< 2	7	26	0.06	< 10	< 10	52	< 10	26
940203H	299	229	0.06	12	420	< 2	2	9	23	0.08	< 10	< 10	67	< 10	26
940204H	299	229	0.07	12	380	< 2	2	10	25	0.10	< 10	< 10	79	< 10	30
940205H	299	229	0.03	11	340	2	< 2	4	25	0.01	< 10	< 10	33	< 10	26
940206H	299	229	0.05	9	330	2	< 2	3	23	0.02	< 10	< 10	34	< 10	20
940207H	299	229	0.05	11	430	2	2	7	23	0.06	< 10	< 10	63	< 10	24
940208H	299	229	0.06	12	510	< 2	< 2	10	20	0.08	< 10	< 10	97	< 10	28
940209H	299	229	0.08	13	740	< 2	< 2	8	30	0.13	< 10	< 10	68	< 10	34
940210H	299	229	0.06	10	500	< 2	2	7	24	0.07	< 10	< 10	47	< 10	28
940211H	299	229	0.07	13	530	< 2	< 2	6	24	0.07	< 10	< 10	47	< 10	24
940212H	299	229	0.06	9	420	< 2	< 2	5	23	0.05	< 10	< 10	48	< 10	20
940213H	299	229	0.05	10	420	< 2	< 2	4	24	0.03	< 10	< 10	59	< 10	18
940214H	299	229	0.05	11	530	< 2	2	5	38	0.04	< 10	< 10	49	< 10	22
940215H	299	229	0.04	12	410	< 2	< 2	8	75	0.09	< 10	< 10	52	< 10	20
940216H	299	229	0.06	12	520	< 2	< 2	7	34	0.09	< 10	< 10	52	< 10	22
940217H	299	229	0.02	13	530	2	2	5	54	0.04	< 10	< 10	44	< 10	18
940218H	299	229	0.07	14	700	< 2	2	6	33	0.08	< 10	< 10	58	< 10	22
940219H	299	229	0.07	11	440	2	< 2	5	35	0.06	< 10	< 10	49	< 10	18
940220H	299	229	0.05	10	430	< 2	< 2	6	36	0.06	< 10	< 10	42	< 10	20
940221H	299	229	0.06	10	340	2	< 2	8	39	0.07	< 10	< 10	51	< 10	18
940222H	299	229	0.04	10	320	< 2	< 2	8	38	0.07	< 10	< 10	49	< 10	22
940223H	299	229	0.02	15	220	8	< 2	6	38	< 0.01	< 10	< 10	45	10	30
940224H	299	229	0.03	11	390	< 2	< 2	8	39	0.07	< 10	< 10	63	< 10	24
940225H	299	229	0.06	10	300	< 2	< 2	9	78	0.10	< 10	< 10	70	< 10	22
940226H	299	229	0.04	10	480	< 2	< 2	12	59	0.15	< 10	< 10	74	< 10	24
940227H	299	229	0.05	11	320	< 2	< 2	11	79	0.09	< 10	< 10	63	< 10	22
940228H	299	229	0.04	12	460	< 2	< 2	12	36	0.12	< 10	< 10	70	< 10	22
940229H	299	229	0.03	10	480	< 2	< 2	10	40	0.08	< 10	< 10	65	< 10	24
940230H	299	229	0.05	8	420	< 2	< 2	13	31	0.14	< 10	< 10	77	< 10	24

CERTIFICATION:

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940231H	299	229	2.2	1.55	< 2	180	< 0.5	< 2	1.02	< 0.5	8	78	2140	3.88	10	< 1	0.96	10	1.24	170	94
940232H	299	229	3.0	2.03	< 2	150	< 0.5	< 2	1.53	0.5	10	101	2890	5.32	10	< 1	1.02	10	1.20	185	107
940233H	299	229	1.4	1.52	< 2	140	< 0.5	< 2	1.03	0.5	10	58	1115	3.77	10	< 1	0.93	20	1.11	165	71
940234H	299	229	0.8	1.33	< 2	80	< 0.5	< 2	0.85	< 0.5	16	146	675	6.50	10	< 1	0.74	10	0.82	125	33
940235H	299	229	0.8	1.03	< 2	70	< 0.5	< 2	1.00	< 0.5	10	82	755	4.00	10	< 1	0.46	10	0.68	115	28
940236H	299	229	1.2	1.68	< 2	130	< 0.5	< 2	1.45	< 0.5	11	157	878	4.32	10	< 1	0.77	10	1.09	150	41
940237H	299	229	1.0	1.03	< 2	80	< 0.5	< 2	0.97	< 0.5	14	78	787	5.12	10	< 1	0.53	10	0.75	135	25
940238H	299	229	1.2	1.33	< 2	100	< 0.5	< 2	0.91	< 0.5	16	106	959	4.27	10	< 1	0.69	10	0.94	145	73
940239H	299	229	0.8	0.92	< 2	70	< 0.5	< 2	0.98	< 0.5	9	70	599	5.07	10	< 1	0.42	10	0.69	135	48
940240H	299	229	1.0	0.97	< 2	90	< 0.5	< 2	1.29	< 0.5	12	117	905	5.71	10	< 1	0.37	10	0.44	110	41
940241H	299	229	1.4	1.02	< 2	60	< 0.5	< 2	1.83	< 0.5	20	55	1120	5.11	10	< 1	0.38	10	0.67	110	41

CERTIFICATION: Stuart Buchan

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 232
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 11-NOV-93
Invoice No. :I9324318
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324318

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940231H	299	229	0.04	9	430	2	< 2	12	38	0.14	< 10	< 10	66	< 10	26
940232H	299	229	0.03	10	380	4	< 2	14	49	0.12	< 10	< 10	89	< 10	28
940233H	299	229	0.03	7	420	4	< 2	11	36	0.12	< 10	< 10	63	< 10	26
940234H	299	229	0.05	11	470	< 2	< 2	7	31	0.07	< 10	< 10	59	< 10	20
940235H	299	229	0.03	7	290	2	< 2	6	31	0.04	< 10	< 10	53	< 10	20
940236H	299	229	0.06	10	540	2	< 2	7	47	0.08	< 10	< 10	52	< 10	22
940237H	299	229	0.04	9	450	< 2	< 2	6	27	0.06	< 10	< 10	58	< 10	20
940238H	299	229	0.04	10	580	< 2	< 2	7	33	0.09	< 10	< 10	53	< 10	20
940239H	299	229	0.03	7	400	6	< 2	5	35	0.04	< 10	< 10	46	< 10	22
940240H	299	229	0.04	7	430	4	< 2	4	53	0.01	< 10	< 10	43	< 10	16
940241H	299	229	0.01	7	330	< 2	< 2	7	46	0.02	< 10	< 10	34	< 10	18

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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Project : CASINO 233
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :19324043
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324043

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H567048	208	276	0.04	0.024	0.10	11420
H567049	208	276	0.07	0.013	0.21	11500
H567050	208	276	0.05	0.011	0.14	11740
H567051	208	276	0.06	0.017	0.14	11420
H567052	208	273	0.09	0.020	0.21	12100
H567053	208	276	0.06	0.020	0.17	11460
H567054	208	273	0.04	0.028	0.14	13040
H567055	208	276	0.03	0.023	0.14	10840
H567056	208	276	0.04	0.015	0.17	10960
H567057	208	273	0.03	0.020	0.14	12280
H567058	208	273	0.13	0.017	0.10	12720
H567059	208	273	0.17	0.013	0.14	13120
H567060	208	273	0.15	0.015	0.21	12600
H567061	208	276	0.20	0.014	0.21	11700
H567062	208	273	0.18	0.016	0.17	11880
H567063	208	273	0.12	0.010	0.07	12840
H567064	208	273	0.12	0.015	0.14	12260
H567065	208	276	0.17	0.027	0.10	10740
H567066	208	273	0.18	0.033	0.14	12180
H567067	208	273	0.15	0.036	0.14	12580
H567068	208	276	0.18	0.031	0.21	9080
H567069	208	273	0.14	0.027	0.14	14980
H567070	208	276	0.09	0.021	0.10	10760
H567071	208	273	0.07	0.010	0.07	13860
H567072	208	276	0.03	0.006	0.14	11740
H567073	208	273	0.11	0.039	0.10	12360
H567074	208	273	0.15	0.018	0.17	12640
H567075	208	273	0.08	0.009	0.07	13080
H567076	208	276	0.08	0.007	0.07	11080
H567077	208	273	0.13	0.016	0.10	12940
H567078	208	273	0.18	0.018	0.24	11980
H567079	208	276	0.16	0.024	0.17	10520
H567080	208	273	0.10	0.009	0.10	13120
H567081	208	273	0.13	0.011	0.17	13040
H567082	208	273	0.10	0.015	0.10	14300
H567083	208	276	0.16	0.012	0.17	11060
H567084	208	273	0.15	0.018	0.17	13240
H567085	208	276	0.24	0.075	0.24	11540
H567086	208	273	0.21	0.045	0.31	13020
H567087	208	273	0.28	0.016	0.31	12260

CERTIFICATION: Brad Thomas

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Project : CASINO 233
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CERTIFICATE OF ANALYSIS A9324043

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H567088	208	273	0.26	0.033	0.41	12760						
H567089	208	273	0.19	0.018	0.24	13400						
H567090	208	273	0.26	0.028	0.21	13680						
H567091	208	273	0.15	0.020	0.21	12120						
H567092	208	273	0.16	0.028	0.17	12880						
H567093	208	273	0.12	0.020	0.10	13400						
H567094	208	273	0.12	0.017	0.10	12040						
H567095	208	276	0.14	0.020	0.17	9300						
H567096	208	273	0.13	0.011	0.14	15200						
H567097	208	273	0.20	0.020	0.24	12600						
H567098	208	273	0.02	0.002	< 0.03	11900						
H567099	208	273	0.02	0.001	< 0.03	12640						
H567100	208	273	0.04	0.003	0.10	12840						
H567101	208	273	0.10	0.014	0.10	13200						
H567102	208	273	0.26	0.009	1.32	13060						
H567103	208	273	0.08	0.013	0.07	12760						
H567104	208	273	0.08	0.030	0.07	13560						
H567105	208	273	0.10	0.032	0.21	13320						
H567106	208	273	0.09	0.026	0.07	13240						
H567107	208	273	0.10	0.021	0.10	14500						
H567108	208	273	0.10	0.025	0.07	13520						
H567109	208	273	0.08	0.021	0.07	12600						
H567110	208	273	0.08	0.033	0.07	13000						
H567111	208	273	0.07	0.019	0.10	12920						
H567112	208	273	0.07	0.021	0.03	13080						
H567113	208	273	0.04	0.020	0.03	12800						
H567114	208	276	0.06	0.013	0.07	7960						
H567115	208	273	0.09	0.018	0.07	14680						
H567116	208	274	0.07	0.021	0.10	5800						
H567117	208	273	0.07	0.029	0.07	12780						

CERTIFICATION: Stuart Thomas

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Project : CASINO 233
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :I9324044
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324044

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567048	299	229	2.0	1.22	72	230	< 0.5	4	0.03	< 0.5	3	55	444	6.50	10	< 1	0.89	40	0.27	55	148
H567049	299	229	1.4	1.62	24	180	< 0.5	< 2	0.02	< 0.5	4	66	661	6.19	10	< 1	0.72	30	0.59	75	79
H567050	299	229	1.2	1.75	< 2	240	< 0.5	< 2	0.03	0.5	4	70	533	6.28	10	< 1	0.96	40	0.55	60	70
H567051	299	229	1.2	1.37	2	260	< 0.5	4	0.02	< 0.5	3	65	586	6.33	10	< 1	1.02	30	0.30	50	104
H567052	299	229	1.6	2.07	6	250	< 0.5	6	0.08	0.5	9	55	811	5.87	10	< 1	0.99	20	0.65	75	121
H567053	299	229	1.2	1.41	20	210	< 0.5	< 2	0.04	< 0.5	4	58	577	6.27	10	< 1	1.08	20	0.34	35	124
H567054	299	229	0.6	1.42	4	190	< 0.5	< 2	0.02	< 0.5	3	54	369	4.80	10	< 1	0.97	20	0.30	25	176
H567055	299	229	2.6	0.95	56	190	< 0.5	4	0.01	< 0.5	4	53	319	5.08	10	< 1	0.99	20	0.12	25	141
H567056	299	229	1.4	1.28	18	190	< 0.5	6	0.03	< 0.5	6	49	345	5.02	10	< 1	1.00	20	0.25	30	87
H567057	299	229	0.8	1.28	14	100	< 0.5	4	0.04	< 0.5	8	72	337	5.22	< 10	1	0.99	20	0.18	25	124
H567058	299	229	1.4	1.52	12	70	< 0.5	< 2	0.80	1.0	24	77	1325	5.34	< 10	< 1	0.69	10	0.39	455	99
H567059	299	229	1.2	1.89	2	30	< 0.5	6	0.73	2.0	26	87	1700	6.53	10	< 1	0.85	20	0.56	530	76
H567060	299	229	1.2	1.82	8	70	< 0.5	10	0.61	1.0	22	52	1555	5.72	10	< 1	0.71	20	0.91	245	94
H567061	299	229	2.0	2.14	< 2	110	< 0.5	4	1.01	2.0	19	76	2110	4.64	10	< 1	0.85	20	1.29	460	87
H567062	299	229	1.6	2.04	8	70	< 0.5	< 2	0.91	< 0.5	16	63	1840	4.66	10	< 1	0.83	20	1.17	265	97
H567063	299	229	1.2	1.38	< 2	30	< 0.5	2	0.81	0.5	21	51	1205	6.08	< 10	< 1	0.64	10	0.90	255	69
H567064	299	229	1.2	0.99	2	40	< 0.5	12	0.78	0.5	22	55	1200	5.74	< 10	< 1	0.49	10	0.87	200	94
H567065	299	229	2.4	1.33	10	70	< 0.5	14	0.95	0.5	21	66	1735	5.04	< 10	< 1	0.63	20	1.07	265	170
H567066	299	229	1.4	1.18	< 2	40	< 0.5	< 2	1.04	1.0	26	54	1830	6.31	< 10	< 1	0.62	10	0.90	195	186
H567067	299	229	1.2	1.30	< 2	90	< 0.5	< 2	1.17	0.5	20	66	1450	4.35	10	< 1	0.60	20	1.00	235	200
H567068	299	229	1.4	1.06	< 2	80	< 0.5	< 2	1.60	0.5	23	54	1780	4.57	< 10	< 1	0.46	20	0.92	275	179
H567069	299	229	1.4	1.24	14	60	< 0.5	< 2	1.13	< 0.5	20	51	1365	4.75	< 10	< 1	0.56	20	0.97	205	153
H567070	299	229	1.0	1.67	4	40	< 0.5	< 2	1.09	< 0.5	22	74	910	5.23	< 10	< 1	0.81	10	0.84	240	113
H567071	299	229	0.6	2.13	< 2	70	< 0.5	< 2	1.00	0.5	23	87	755	4.89	10	< 1	0.75	20	1.09	250	51
H567072	299	229	0.6	2.36	< 2	110	< 0.5	< 2	1.11	0.5	17	109	336	4.15	10	< 1	0.71	20	0.90	320	31
H567073	299	229	1.2	2.44	2	120	< 0.5	6	0.87	< 0.5	22	155	1120	5.04	10	< 1	0.91	20	1.37	210	229
H567074	299	229	1.4	2.14	6	130	< 0.5	< 2	0.93	< 0.5	19	126	1475	4.79	10	< 1	0.78	20	1.36	185	100
H567075	299	229	0.6	2.97	< 2	100	< 0.5	4	0.74	1.0	18	325	856	4.49	10	< 1	1.10	20	1.29	160	48
H567076	299	229	0.8	1.95	< 2	90	< 0.5	< 2	1.06	0.5	20	203	758	4.65	10	< 1	0.65	20	1.03	185	35
H567077	299	229	0.8	1.73	8	60	< 0.5	8	1.38	0.5	20	170	1265	5.08	< 10	< 1	0.80	10	0.96	255	89
H567078	299	229	1.6	1.76	< 2	100	< 0.5	< 2	0.95	0.5	23	115	1730	5.18	10	< 1	0.71	20	1.16	220	98
H567079	299	229	1.6	2.20	< 2	120	< 0.5	< 2	0.91	1.0	24	144	1570	5.88	10	< 1	0.85	20	1.38	205	133
H567080	299	229	4.4	1.87	20	120	< 0.5	< 2	1.07	17.5	19	169	933	4.61	10	< 1	0.67	10	1.12	760	52
H567081	299	229	1.4	2.27	< 2	140	< 0.5	< 2	0.96	0.5	17	146	1290	4.32	10	< 1	0.70	10	1.32	190	59
H567082	299	229	1.0	2.03	< 2	70	< 0.5	< 2	0.75	0.5	20	102	963	5.55	10	< 1	0.63	10	1.34	215	88
H567083	299	229	1.4	2.05	< 2	100	< 0.5	< 2	0.79	< 0.5	19	165	1595	5.30	10	< 1	0.52	20	1.13	140	74
H567084	299	229	1.4	2.09	6	100	< 0.5	< 2	0.85	< 0.5	28	177	1515	5.25	10	< 1	0.57	20	1.13	150	114
H567085	299	229	2.0	2.27	< 2	120	< 0.5	< 2	1.08	1.0	53	201	2340	5.12	10	< 1	0.75	20	1.17	175	426
H567086	299	229	2.0	2.09	< 2	140	< 0.5	< 2	0.82	< 0.5	23	159	2000	4.32	10	< 1	0.59	10	1.29	165	268
H567087	299	229	2.4	2.43	< 2	140	< 0.5	< 2	1.05	4.5	23	192	2840	4.61	10	1	0.75	20	1.34	320	100

CERTIFICATION:

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Project : CASINO 233
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :2
Certificate Date: 09-NOV-93
Invoice No. :19324044
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324044

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567048	299	229	0.09	4	950	4	4	2	61	0.01	< 10	< 10	29	< 10	30
H567049	299	229	0.10	7	1020	2	2	3	62	0.03	< 10	< 10	38	< 10	34
H567050	299	229	0.15	5	910	< 2	2	4	83	0.03	< 10	< 10	43	< 10	28
H567051	299	229	0.13	6	870	< 2	4	2	62	0.02	< 10	< 10	29	< 10	26
H567052	299	229	0.12	9	680	4	2	4	53	0.03	< 10	< 10	43	< 10	46
H567053	299	229	0.14	6	770	< 2	< 2	3	52	0.03	< 10	< 10	36	< 10	42
H567054	299	229	0.12	5	690	6	4	3	57	0.02	< 10	< 10	29	< 10	36
H567055	299	229	0.09	3	760	124	18	2	56	< 0.01	< 10	< 10	18	< 10	86
H567056	299	229	0.08	6	590	16	4	2	44	0.01	< 10	< 10	23	< 10	58
H567057	299	229	0.10	7	850	8	< 2	2	44	< 0.01	< 10	< 10	15	< 10	58
H567058	299	229	0.02	17	930	2	< 2	2	21	< 0.01	< 10	< 10	18	< 10	90
H567059	299	229	0.02	17	790	4	2	2	17	0.01	< 10	< 10	18	< 10	72
H567060	299	229	0.02	18	790	8	< 2	2	17	0.01	< 10	< 10	20	< 10	46
H567061	299	229	0.03	15	810	6	8	3	25	0.01	< 10	< 10	30	< 10	68
H567062	299	229	0.03	15	790	4	4	3	24	0.01	< 10	< 10	28	< 10	30
H567063	299	229	0.02	15	760	< 2	4	2	19	0.01	< 10	< 10	19	< 10	32
H567064	299	229	0.02	16	640	< 2	4	2	21	< 0.01	< 10	< 10	19	< 10	26
H567065	299	229	0.03	16	840	< 2	6	2	24	0.01	< 10	< 10	21	< 10	36
H567066	299	229	0.02	17	680	< 2	2	2	23	< 0.01	< 10	< 10	15	< 10	46
H567067	299	229	0.03	15	760	< 2	2	2	32	0.01	< 10	< 10	23	< 10	32
H567068	299	229	0.02	12	760	< 2	8	2	30	< 0.01	< 10	< 10	17	< 10	18
H567069	299	229	0.03	16	660	4	2	2	26	0.01	< 10	< 10	20	< 10	22
H567070	299	229	0.02	16	550	< 2	2	2	24	0.01	< 10	< 10	20	< 10	22
H567071	299	229	0.04	17	720	< 2	4	3	30	0.02	< 10	< 10	34	< 10	36
H567072	299	229	0.04	18	820	< 2	4	3	37	0.02	< 10	< 10	31	< 10	34
H567073	299	229	0.05	16	570	< 2	< 2	4	30	0.04	< 10	< 10	50	< 10	30
H567074	299	229	0.04	16	580	< 2	2	4	32	0.04	< 10	< 10	51	10	26
H567075	299	229	0.11	20	710	< 2	< 2	4	38	0.03	< 10	< 10	46	20	20
H567076	299	229	0.07	17	710	< 2	2	2	35	0.01	< 10	< 10	30	10	22
H567077	299	229	0.04	16	550	< 2	2	3	29	0.01	< 10	< 10	28	< 10	22
H567078	299	229	0.04	16	630	< 2	< 2	4	26	0.03	< 10	20	45	< 10	26
H567079	299	229	0.06	19	740	< 2	4	5	35	0.05	< 10	< 10	60	80	26
H567080	299	229	0.07	18	410	256	28	3	42	0.02	< 10	10	43	< 10	512
H567081	299	229	0.08	18	500	< 2	< 2	4	41	0.03	< 10	< 10	52	< 10	26
H567082	299	229	0.04	18	610	< 2	2	4	24	0.03	< 10	< 10	41	< 10	28
H567083	299	229	0.07	18	540	< 2	< 2	4	26	0.01	< 10	< 10	39	< 10	18
H567084	299	229	0.08	17	840	< 2	4	4	29	0.02	< 10	< 10	37	< 10	18
H567085	299	229	0.07	19	550	< 2	< 2	5	33	0.03	< 10	< 10	50	< 10	16
H567086	299	229	0.09	18	610	< 2	4	6	35	0.04	< 10	< 10	58	< 10	18
H567087	299	229	0.08	19	960	24	< 2	5	36	0.03	< 10	10	51	< 10	120

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 233
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :19324044
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324044

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567088	299	229	19.2	1.69	124	120	< 0.5	< 2	1.57	>100.0	22	74	2680	4.59	10	< 1	0.63	20	0.91	710	211
H567089	299	229	1.6	1.73	10	120	< 0.5	2	1.17	0.5	16	79	1925	4.30	10	< 1	0.60	20	1.11	270	113
H567090	299	229	2.4	1.85	2	110	< 0.5	8	1.22	1.0	18	78	2530	3.96	10	< 1	0.55	20	1.13	265	172
H567091	299	229	2.6	1.93	< 2	100	< 0.5	< 2	1.04	1.0	16	75	1450	4.57	10	< 1	0.51	10	1.19	230	117
H567092	299	229	1.8	2.01	< 2	110	< 0.5	4	0.91	0.5	20	81	1630	4.06	10	< 1	0.55	10	1.24	180	169
H567093	299	229	11.8	1.85	16	90	< 0.5	< 2	0.97	29.5	28	81	1250	4.94	10	< 1	0.54	20	1.17	430	122
H567094	299	229	1.2	2.19	< 2	100	< 0.5	< 2	0.55	0.5	33	89	1200	5.50	10	< 1	0.75	10	1.53	200	101
H567095	299	229	1.4	2.18	< 2	110	< 0.5	2	0.76	1.0	31	76	1375	5.41	10	< 1	0.69	10	1.57	195	118
H567096	299	229	1.0	1.50	< 2	90	< 0.5	< 2	1.10	0.5	26	84	1225	5.31	10	< 1	0.43	20	1.03	270	67
H567097	299	229	1.4	1.52	< 2	90	< 0.5	2	1.47	0.5	26	67	1980	4.76	10	< 1	0.56	20	1.14	275	112
H567098	299	229	0.2	1.15	< 2	50	< 0.5	< 2	1.55	0.5	10	56	234	3.57	< 10	< 1	0.52	10	0.62	265	18
H567099	299	229	0.6	1.27	< 2	40	< 0.5	< 2	1.28	1.5	4	52	213	3.34	< 10	< 1	0.64	10	0.51	410	5
H567100	299	229	1.4	1.54	74	40	< 0.5	2	0.75	1.0	10	63	377	4.84	< 10	< 1	0.83	10	0.43	380	21
H567101	299	229	0.8	1.44	10	130	< 0.5	< 2	1.72	0.5	22	65	1050	4.02	10	< 1	0.57	20	0.75	655	89
H567102	299	229	100.5	1.16	234	60	< 0.5	200	1.60	>100.0	16	78	2580	5.33	10	< 1	0.55	10	0.59	1655	52
H567103	299	229	1.2	1.45	6	130	< 0.5	2	1.92	2.0	14	76	723	4.05	10	< 1	0.50	30	0.95	385	69
H567104	299	229	0.8	1.83	20	130	< 0.5	< 2	1.57	4.5	16	92	754	4.23	10	< 1	0.53	30	1.14	270	164
H567105	299	229	1.2	1.45	6	60	< 0.5	2	1.94	0.5	22	78	1060	5.60	10	< 1	0.55	20	0.90	160	181
H567106	299	229	0.6	1.58	8	100	< 0.5	< 2	2.28	0.5	14	93	933	3.97	10	< 1	0.59	30	0.91	175	145
H567107	299	229	0.8	1.29	< 2	100	< 0.5	< 2	1.89	3.5	18	89	965	4.35	10	< 1	0.52	20	1.00	445	113
H567108	299	229	0.8	1.94	8	150	< 0.5	< 2	1.86	< 0.5	16	103	992	4.18	10	< 1	0.74	20	1.33	155	138
H567109	299	229	0.6	1.86	4	140	< 0.5	< 2	2.34	< 0.5	16	74	720	3.92	10	< 1	0.72	30	1.08	185	116
H567110	299	229	0.6	1.74	< 2	120	< 0.5	2	2.17	0.5	23	103	763	4.37	10	1	0.76	30	0.96	165	178
H567111	299	229	0.6	1.28	2	120	< 0.5	< 2	2.24	1.5	13	108	678	3.65	10	< 1	0.61	20	1.03	590	109
H567112	299	229	0.4	1.85	6	150	< 0.5	< 2	2.02	< 0.5	13	111	608	3.56	10	< 1	0.62	30	0.95	210	112
H567113	299	229	0.4	2.48	< 2	70	< 0.5	< 2	1.55	0.5	20	181	418	5.51	10	< 1	0.93	30	1.02	215	113
H567114	299	229	0.4	2.40	< 2	130	< 0.5	< 2	0.91	0.5	25	185	547	4.55	10	< 1	0.93	30	1.29	175	76
H567115	299	229	0.6	2.22	6	140	< 0.5	< 2	1.34	0.5	20	175	830	4.19	10	< 1	0.91	20	1.33	210	102
H567116	299	229	0.4	2.17	< 2	140	< 0.5	4	1.49	< 0.5	18	145	637	4.23	10	< 1	0.81	30	1.09	170	119
H567117	299	229	0.8	2.04	< 2	140	< 0.5	108	1.38	0.5	19	119	695	4.16	10	< 1	0.81	30	1.33	255	174

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 233
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 09-NOV-93
Invoice No. :19324044
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324044

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567088	299	229	0.03	18	820	1355	34	3	37	0.01	< 10	10	33	< 10	3220
H567089	299	229	0.06	19	620	4	2	4	42	0.02	< 10	10	42	< 10	32
H567090	299	229	0.05	15	680	14	4	4	40	0.02	< 10	< 10	46	< 10	36
H567091	299	229	0.06	18	680	146	2	3	34	0.04	< 10	10	40	< 10	38
H567092	299	229	0.07	18	600	< 2	< 2	4	37	0.03	< 10	< 10	52	< 10	24
H567093	299	229	0.06	17	770	312	48	4	31	0.02	< 10	< 10	42	< 10	932
H567094	299	229	0.06	19	830	< 2	< 2	5	24	0.08	< 10	< 10	58	< 10	30
H567095	299	229	0.06	20	840	< 2	< 2	5	30	0.08	< 10	< 10	62	< 10	26
H567096	299	229	0.06	17	780	2	2	3	41	0.01	< 10	< 10	32	< 10	22
H567097	299	229	0.03	19	810	< 2	4	4	49	0.02	< 10	< 10	38	< 10	24
H567098	299	229	0.01	5	710	6	2	1	39	< 0.01	< 10	< 10	6	< 10	22
H567099	299	229	0.02	3	640	24	10	< 1	32	< 0.01	< 10	< 10	5	< 10	64
H567100	299	229	0.02	7	660	74	18	1	21	< 0.01	< 10	< 10	8	< 10	48
H567101	299	229	0.01	14	840	4	6	2	37	< 0.01	< 10	10	20	< 10	26
H567102	299	229	0.01	14	630	9760	220	2	21	< 0.01	< 10	< 10	19	< 10	7950
H567103	299	229	0.02	13	820	64	14	3	94	< 0.01	< 10	< 10	30	< 10	86
H567104	299	229	0.06	16	740	46	2	4	110	0.02	< 10	< 10	48	< 10	136
H567105	299	229	0.03	13	800	10	4	2	182	< 0.01	< 10	< 10	21	< 10	18
H567106	299	229	0.04	14	780	8	2	3	217	0.01	< 10	< 10	32	< 10	20
H567107	299	229	0.04	15	730	26	4	4	503	0.02	< 10	< 10	33	20	108
H567108	299	229	0.07	14	750	< 2	< 2	6	285	0.06	< 10	< 10	52	< 10	18
H567109	299	229	0.04	13	760	6	2	5	138	0.04	< 10	< 10	44	< 10	18
H567110	299	229	0.03	14	860	< 2	4	3	75	0.02	< 10	< 10	31	< 10	16
H567111	299	229	0.03	11	770	36	4	2	228	0.01	< 10	< 10	22	< 10	62
H567112	299	229	0.03	13	790	6	2	5	171	0.03	< 10	< 10	40	< 10	20
H567113	299	229	0.03	15	890	6	< 2	3	77	0.03	< 10	< 10	30	< 10	18
H567114	299	229	0.06	16	750	2	< 2	4	39	0.04	< 10	< 10	37	< 10	22
H567115	299	229	0.06	16	800	< 2	2	5	63	0.05	< 10	< 10	46	< 10	48
H567116	299	229	0.04	17	820	< 2	4	5	84	0.05	< 10	< 10	47	< 10	16
H567117	299	229	0.04	16	750	< 2	2	6	57	0.06	< 10	< 10	49	< 10	24

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-NOV-93
Invoice No. : I9324045
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324045

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
940575H	208	274	0.07	0.018	0.17	5740						
940576H	208	274	0.09	0.017	0.14	2960						
940577H	208	274	0.04	0.019	0.17	1980						
940578H	208	274	0.05	0.037	0.21	2000						
940579H	208	274	0.02	0.036	0.41	2840						
940580H	208	274	0.03	0.041	0.62	2560						
940581H	208	274	0.03	0.066	0.69	2360						
940582H	208	274	0.03	0.048	0.45	4740						
940583H	208	274	0.05	0.043	1.23	6840						
940584H	208	274	0.04	0.024	0.24	1760						
940585H	208	276	0.16	0.028	0.27	9600						
940586H	208	274	0.06	0.034	0.31	4640						
940587H	208	274	0.04	0.042	0.38	1420						
940588H	208	274	0.18	0.042	0.14	4040						
940589H	208	274	0.44	0.075	0.27	4180						
940590H	208	276	0.33	0.048	0.17	7420						
940591H	208	274	0.33	0.039	0.17	4200						
940592H	208	276	0.40	0.041	0.24	9720						
940593H	208	276	0.54	0.037	0.38	7280						
940594H	208	276	0.47	0.046	0.27	10420						
940595H	208	276	0.53	0.105	0.55	9140						
940596H	208	276	0.40	0.060	0.41	7300						
940597H	208	274	0.46	0.043	0.41	4600						
940598H	208	274	0.41	0.030	0.38	5840						
940599H	208	276	0.32	0.034	0.31	9140						
940600H	208	276	0.32	0.050	0.21	10380						
940601H	208	274	0.62	0.040	0.51	6080						
940602H	208	274	0.41	0.029	0.38	5140						
940603H	208	274	0.26	0.034	0.21	5360						
940604H	208	276	0.36	0.034	0.34	9340						
940605H	208	276	0.48	0.018	0.31	10900						
940606H	208	276	0.47	0.040	0.72	8580						
940607H	208	276	0.26	0.028	0.31	10320						
940608H	208	274	0.21	0.024	0.24	5080						
940609H	208	274	0.15	0.021	0.17	6620						
940610H	208	276	0.17	0.018	0.21	7500						
940611H	208	276	0.32	0.038	0.51	11580						
940612H	208	276	0.27	0.024	0.45	7500						
940613H	208	274	0.21	0.023	0.21	7040						
940614H	208	276	0.34	0.040	0.51	8200						

CERTIFICATION: Brad Grinnell

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-NOV-93
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Account :FC

CERTIFICATE OF ANALYSIS A9324045

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
940615H	208	276	0.30	0.064	0.31	10380						
940616H	208	274	0.20	0.029	0.21	6660						
940617H	208	276	0.25	0.038	0.27	8680						
940618H	208	276	0.23	0.043	0.27	8520						
940619H	208	276	0.19	0.024	0.24	8860						
940620H	208	276	0.17	0.020	0.17	7800						
940621H	208	274	0.18	0.028	0.14	6060						
940622H	208	274	0.24	0.028	0.17	5760						
940623H	208	274	0.13	0.033	0.07	6480						
940624H	208	276	0.15	0.019	0.14	9120						
940625H	208	274	0.19	0.017	0.17	6400						
940626H	208	276	0.19	0.020	0.21	8860						
940627H	208	273	0.18	0.024	0.21	11840						
940628H	208	276	0.21	0.028	0.27	9380						
940629H	208	274	0.21	0.086	0.17	3400						
940630H	208	276	0.23	0.061	0.17	10100						
940631H	208	274	0.22	0.032	0.21	5500						
940632H	208	276	0.17	0.029	0.21	10980						
940633H	208	274	0.27	0.032	0.24	4580						
940634H	208	274	0.22	0.035	0.24	5360						
940635H	208	276	0.23	0.043	0.38	11460						
940636H	208	276	0.17	0.031	0.24	10320						
940637H	208	273	0.13	0.030	0.14	13260						
940638H	208	276	0.11	0.025	0.17	11300						
940639H	208	273	0.08	0.025	0.07	13060						
940640H	208	276	0.11	0.026	0.14	10060						
940641H	208	273	0.13	0.022	0.07	12860						
940642H	208	273	0.13	0.082	0.14	12380						
940643H	208	273	0.15	0.017	0.17	13060						
940644H	208	273	0.15	0.031	0.14	12420						
940645H	208	273	0.15	0.021	0.21	12740						
940646H	208	273	0.11	0.025	0.10	12980						
940647H	208	273	0.16	0.031	0.10	12540						
940648H	208	273	0.08	0.021	0.10	12780						
940649H	208	276	0.10	0.026	0.03	11680						
940650H	208	273	0.07	0.023	0.03	13060						
940651H	208	273	0.07	0.023	0.07	12840						
940652H	208	273	0.12	0.019	0.14	11940						
940653H	208	273	0.13	0.033	0.17	12120						
940654H	208	273	0.11	0.022	0.17	13000						

CERTIFICATION: Brad Grant

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Num. :3
Total Pages :3
Certificate Date: 10-NOV-93
Invoice No. :I9324045
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324045

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
940655H	208	273	0.09	0.044	0.10	12060						
940656H	208	274	0.03	0.026	0.03	5480						
940657H	208	273	0.08	0.039	0.10	12100						
940658H	208	273	0.08	0.029	0.10	12200						
940659H	208	273	0.14	0.034	0.14	12060						
940660H	208	273	0.13	0.026	0.21	13580						
940661H	208	273	0.13	0.022	0.17	13300						
940662H	208	273	0.16	0.049	0.17	12880						
940663H	208	273	0.08	0.029	0.21	12380						
940664H	208	273	0.08	0.023	0.14	12560						
940665H	208	273	0.10	0.028	0.10	12620						
940666H	208	276	0.07	0.017	0.07	11700						
940667H	208	276	0.07	0.017	0.07	10880						
940668H	208	273	0.08	0.013	0.03	12280						
940669H	208	276	0.06	0.017	0.03	11680						
940670H	208	276	0.08	0.019	< 0.03	11500						
940671H	208	276	0.07	0.023	< 0.03	11060						
940672H	208	276	0.07	0.014	0.03	11180						
940673H	208	273	0.13	0.021	0.14	12780						
940674H	208	273	0.09	0.018	0.10	13120						
940675H	208	273	0.14	0.025	0.17	13020						
940676H	208	273	0.11	0.066	0.10	12160						
940677H	208	273	0.10	0.040	0.10	12280						
940678H	208	273	0.08	0.031	0.10	12580						
940679H	208	273	0.11	0.054	0.14	12480						
940680H	208	273	0.12	0.077	0.10	12500						
940681H	208	273	0.14	0.053	0.14	13480						
940682H	208	273	0.08	0.046	0.07	12600						
940683H	208	273	0.09	0.048	0.07	12900						
940684H	208	276	0.07	0.328	0.07	11080						
940685H	208	273	0.06	0.042	0.03	12880						
940686H	208	273	0.04	0.047	< 0.03	12160						
940687H	208	276	0.06	0.026	0.03	11380						
940688H	208	273	0.06	0.044	< 0.03	12560						
940689H	208	273	0.06	0.026	0.07	12860						
940690H	208	273	0.06	0.028	0.03	12400						
940691H	208	273	0.02	0.029	< 0.03	12660						

CERTIFICATION: David Tennant

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-NOV-93
Invoice No. : I9324046
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324046

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940575H	299	229	0.8	3.48	< 2	170	< 0.5	< 2	0.11	0.5	3	58	600	4.70	< 10	< 1	0.46	< 10	0.90	135	99
940576H	299	229	1.8	3.02	< 2	170	< 0.5	< 2	0.09	< 0.5	2	100	872	7.38	< 10	< 1	0.44	< 10	0.75	80	96
940577H	299	229	3.0	1.52	8	130	< 0.5	< 2	0.05	< 0.5	1	174	373	4.41	< 10	< 1	0.50	< 10	0.26	40	118
940578H	299	229	1.4	3.57	< 2	290	< 0.5	< 2	0.20	< 0.5	2	61	422	2.94	10	< 1	0.50	10	0.61	170	206
940579H	299	229	2.0	1.69	< 2	190	< 0.5	4	0.10	< 0.5	2	128	249	2.22	< 10	< 1	0.39	20	0.32	55	226
940580H	299	229	1.6	2.20	10	150	< 0.5	< 2	0.07	< 0.5	1	117	264	2.53	< 10	< 1	0.48	10	0.54	80	264
940581H	299	229	2.8	2.41	< 2	190	< 0.5	< 2	0.06	< 0.5	4	127	307	3.48	10	< 1	0.59	10	0.61	100	427
940582H	299	229	1.4	1.70	6	100	< 0.5	< 2	0.03	< 0.5	1	76	282	2.53	< 10	< 1	0.40	10	0.54	70	306
940583H	299	229	15.2	1.10	22	140	< 0.5	< 2	0.02	< 0.5	1	137	501	5.45	< 10	< 1	0.48	10	0.22	25	277
940584H	299	229	2.4	2.30	< 2	130	< 0.5	< 2	0.02	< 0.5	1	118	347	2.73	< 10	< 1	0.49	10	0.35	35	154
940585H	299	229	5.4	1.95	6	130	< 0.5	< 2	0.01	< 0.5	9	177	1675	2.99	< 10	< 1	0.56	10	0.36	55	186
940586H	299	229	3.0	3.17	< 2	110	< 0.5	< 2	0.01	< 0.5	2	93	538	2.38	10	< 1	0.47	10	0.55	75	206
940587H	299	229	1.6	4.16	< 2	100	< 0.5	< 2	0.02	< 0.5	< 1	96	339	1.77	10	< 1	0.27	10	0.39	55	253
940588H	299	229	1.4	2.68	< 2	160	< 0.5	< 2	0.02	< 0.5	5	138	1740	1.59	10	< 1	0.68	20	0.47	50	263
940589H	299	229	2.4	2.10	6	130	< 0.5	< 2	0.02	< 0.5	15	217	4790	2.63	10	< 1	0.67	20	0.39	45	492
940590H	299	229	2.2	1.51	4	80	< 0.5	< 2	0.02	< 0.5	10	150	3530	1.87	< 10	< 1	0.59	10	0.36	45	309
940591H	299	229	2.2	1.74	< 2	160	< 0.5	< 2	0.02	< 0.5	9	195	3410	1.36	10	< 1	0.55	20	0.31	35	247
940592H	299	229	2.0	2.36	< 2	200	< 0.5	< 2	0.04	< 0.5	11	126	3930	1.72	10	< 1	0.69	20	0.69	85	258
940593H	299	229	2.8	3.13	2	130	< 0.5	< 2	0.04	< 0.5	18	142	5570	2.97	10	< 1	0.79	20	0.79	90	239
940594H	299	229	3.4	1.88	2	180	< 0.5	< 2	0.03	< 0.5	10	141	4880	1.59	10	< 1	0.53	30	0.32	30	299
940595H	299	229	3.4	1.68	< 2	130	< 0.5	< 2	0.08	1.0	14	171	5470	2.23	10	< 1	0.57	30	0.30	90	675
940596H	299	229	2.6	1.58	2	120	< 0.5	< 2	0.13	< 0.5	17	120	3990	2.40	10	< 1	0.53	20	0.42	215	374
940597H	299	229	2.4	1.76	2	120	< 0.5	< 2	0.04	< 0.5	8	134	4510	1.63	10	< 1	0.56	30	0.48	75	265
940598H	299	229	2.6	1.74	6	130	< 0.5	< 2	0.03	< 0.5	11	130	4330	2.20	10	< 1	0.58	20	0.54	80	191
940599H	299	229	2.4	2.08	10	150	< 0.5	< 2	0.03	< 0.5	13	114	3340	1.88	10	< 1	0.75	30	0.40	35	211
940600H	299	229	2.2	2.08	< 2	140	< 0.5	< 2	0.03	< 0.5	16	101	3410	1.89	10	< 1	0.80	30	0.48	45	313
940601H	299	229	3.0	1.85	8	120	< 0.5	< 2	0.02	< 0.5	15	117	6220	2.45	10	< 1	0.57	20	0.44	55	264
940602H	299	229	2.6	2.31	2	210	< 0.5	< 2	0.06	< 0.5	12	76	4310	1.76	10	< 1	0.74	20	0.62	65	189
940603H	299	229	1.4	1.41	< 2	200	< 0.5	< 2	0.10	< 0.5	10	177	2680	1.64	< 10	< 1	0.58	20	0.35	140	216
940604H	299	229	1.6	1.36	< 2	100	< 0.5	< 2	0.06	< 0.5	8	94	3570	1.57	< 10	< 1	0.49	10	0.35	40	204
940605H	299	229	1.8	1.42	4	80	< 0.5	< 2	0.02	< 0.5	22	83	4740	2.69	< 10	< 1	0.39	10	0.46	50	101
940606H	299	229	2.8	1.27	< 2	80	< 0.5	< 2	0.09	0.5	17	87	4730	1.96	< 10	< 1	0.39	20	0.23	70	240
940607H	299	229	2.0	1.28	4	110	< 0.5	< 2	0.13	0.5	16	118	2710	2.01	< 10	< 1	0.46	10	0.30	165	185
940608H	299	229	1.4	1.97	2	110	< 0.5	< 2	0.10	< 0.5	8	46	2090	1.66	< 10	< 1	0.48	10	0.77	85	148
940609H	299	229	1.0	2.07	< 2	170	< 0.5	< 2	0.15	< 0.5	13	50	1440	2.46	< 10	< 1	0.80	10	1.14	160	117
940610H	299	229	1.2	2.16	< 2	130	< 0.5	< 2	0.28	0.5	31	58	1755	4.48	10	< 1	0.96	20	0.98	495	110
940611H	299	229	2.6	1.46	4	90	< 0.5	< 2	0.31	< 0.5	41	74	3190	4.82	< 10	< 1	0.57	20	0.50	735	227
940612H	299	229	2.0	1.67	< 2	110	< 0.5	< 2	0.28	< 0.5	30	90	2620	4.10	< 10	< 1	0.80	10	0.74	400	139
940613H	299	229	1.4	1.27	2	110	< 0.5	< 2	0.44	< 0.5	22	140	2180	3.99	< 10	< 1	0.68	10	0.77	310	146
940614H	299	229	2.4	2.80	6	170	< 0.5	< 2	0.86	< 0.5	19	159	3270	5.99	< 10	< 1	1.68	10	1.85	410	214

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ATTN: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-NOV-93
Invoice No. :I9324046
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324046

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940575H	299	229	0.01	9	770	< 2	2	7	11	0.04	< 10	< 10	60	< 10	22
940576H	299	229	0.01	11	940	12	< 2	7	12	0.03	< 10	< 10	47	10	16
940577H	299	229	0.02	6	440	4	< 2	2	7	< 0.01	< 10	< 10	14	< 10	10
940578H	299	229	0.02	7	520	8	2	7	25	0.06	< 10	10	49	< 10	20
940579H	299	229	0.01	2	360	12	2	7	23	< 0.01	< 10	< 10	34	< 10	16
940580H	299	229	0.01	4	330	14	< 2	8	18	0.03	< 10	< 10	62	< 10	16
940581H	299	229	0.02	3	400	8	4	8	16	0.03	< 10	< 10	78	< 10	18
940582H	299	229	0.02	2	370	8	4	4	12	0.02	< 10	< 10	39	< 10	18
940583H	299	229	0.02	2	310	2	6	2	5	< 0.01	< 10	< 10	17	< 10	16
940584H	299	229	0.03	4	340	8	4	2	11	< 0.01	< 10	< 10	22	< 10	14
940585H	299	229	0.02	6	320	< 2	< 2	2	10	< 0.01	< 10	< 10	26	< 10	12
940586H	299	229	0.02	5	340	< 2	2	4	13	< 0.01	< 10	< 10	38	< 10	18
940587H	299	229	0.02	7	320	12	< 2	2	11	< 0.01	< 10	10	29	< 10	14
940588H	299	229	0.03	4	290	4	< 2	6	36	0.02	< 10	< 10	45	< 10	10
940589H	299	229	0.03	9	100	6	4	6	28	0.01	< 10	< 10	41	10	6
940590H	299	229	0.04	7	110	< 2	2	5	19	0.02	< 10	< 10	41	< 10	6
940591H	299	229	0.02	8	280	8	4	6	18	< 0.01	< 10	< 10	35	< 10	10
940592H	299	229	0.03	8	470	< 2	< 2	10	14	0.06	< 10	10	65	< 10	12
940593H	299	229	0.04	10	400	8	4	10	15	0.07	< 10	10	69	10	20
940594H	299	229	0.02	7	300	4	2	6	63	0.01	< 10	< 10	31	10	8
940595H	299	229	0.03	7	410	< 2	6	3	19	< 0.01	< 10	10	30	< 10	24
940596H	299	229	0.02	10	360	< 2	2	6	18	0.03	< 10	< 10	48	< 10	40
940597H	299	229	0.03	8	340	< 2	2	6	23	0.04	< 10	< 10	52	< 10	8
940598H	299	229	0.04	7	360	< 2	2	6	23	0.04	< 10	< 10	61	< 10	10
940599H	299	229	0.03	6	310	< 2	< 2	4	27	0.02	< 10	< 10	35	< 10	8
940600H	299	229	0.03	21	280	< 2	2	5	25	0.02	< 10	< 10	42	< 10	8
940601H	299	229	0.06	18	210	2	6	4	19	0.01	< 10	< 10	54	< 10	4
940602H	299	229	0.04	8	670	< 2	2	7	43	0.05	< 10	< 10	54	< 10	10
940603H	299	229	0.04	6	410	< 2	2	5	21	0.02	< 10	< 10	37	< 10	22
940604H	299	229	0.04	14	300	2	2	4	14	0.01	< 10	< 10	35	< 10	8
940605H	299	229	0.04	7	330	4	< 2	3	52	< 0.01	< 10	< 10	39	< 10	4
940606H	299	229	0.04	6	350	4	< 2	4	14	< 0.01	< 10	10	34	< 10	10
940607H	299	229	0.05	8	260	4	4	3	13	0.01	< 10	< 10	33	< 10	32
940608H	299	229	0.06	9	340	8	< 2	4	15	0.03	< 10	< 10	45	< 10	16
940609H	299	229	0.06	10	410	4	4	9	15	0.09	< 10	< 10	68	< 10	30
940610H	299	229	0.06	12	710	< 2	< 2	8	15	0.10	< 10	< 10	75	< 10	90
940611H	299	229	0.02	12	390	< 2	4	8	11	0.03	< 10	< 10	49	< 10	90
940612H	299	229	0.03	16	400	< 2	4	9	11	0.07	< 10	< 10	70	< 10	46
940613H	299	229	0.03	10	170	4	2	7	12	0.04	< 10	< 10	36	< 10	48
940614H	299	229	0.04	22	410	2	2	18	17	0.13	< 10	< 10	101	10	52

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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TO: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-NOV-93
Invoice No. :19324046
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324046

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940615H	299	229	2.2	1.75	< 2	100	< 0.5	< 2	0.14	0.5	24	100	3010	3.41	< 10	< 1	0.66	20	0.37	145	376
940616H	299	229	1.4	1.68	< 2	130	< 0.5	< 2	0.13	< 0.5	16	74	1950	2.21	< 10	< 1	0.52	20	0.67	115	175
940617H	299	229	1.8	2.16	< 2	140	< 0.5	< 2	0.13	< 0.5	12	60	2380	2.27	< 10	< 1	0.66	10	0.92	70	229
940618H	299	229	1.6	2.16	< 2	160	< 0.5	< 2	0.15	< 0.5	11	85	2260	2.46	< 10	< 1	0.84	20	0.88	140	254
940619H	299	229	1.8	1.61	8	90	< 0.5	< 2	0.32	< 0.5	26	83	1995	5.58	< 10	< 1	0.67	20	0.41	575	152
940620H	299	229	1.6	1.88	2	120	< 0.5	< 2	0.20	0.5	15	123	1670	3.18	< 10	< 1	0.66	20	0.32	255	120
940621H	299	229	1.4	1.65	8	130	< 0.5	< 2	0.12	< 0.5	8	122	1725	1.99	< 10	< 1	0.56	20	0.28	85	166
940622H	299	229	1.6	1.77	< 2	120	< 0.5	< 2	0.11	< 0.5	10	106	2340	1.83	< 10	< 1	0.58	20	0.62	70	167
940623H	299	229	0.8	1.45	< 2	130	< 0.5	< 2	0.11	< 0.5	6	75	1270	1.77	< 10	< 1	0.48	20	0.51	70	201
940624H	299	229	1.0	1.63	4	130	< 0.5	< 2	0.09	< 0.5	9	112	1410	2.64	< 10	< 1	0.68	20	0.82	105	121
940625H	299	229	1.2	1.68	2	120	< 0.5	< 2	0.11	< 0.5	11	81	1910	3.01	< 10	< 1	0.61	20	0.82	85	107
940626H	299	229	1.0	2.11	4	120	< 0.5	< 2	0.13	< 0.5	8	125	1885	2.70	< 10	< 1	0.81	20	0.99	100	139
940627H	299	229	1.4	1.56	6	130	< 0.5	< 2	0.19	< 0.5	16	87	1765	3.53	< 10	< 1	0.69	30	0.61	275	150
940628H	299	229	1.6	2.04	< 2	130	< 0.5	< 2	0.09	0.5	14	121	2200	3.87	10	< 1	0.70	30	0.88	130	171
940629H	299	229	1.4	2.27	4	120	< 0.5	< 2	0.14	< 0.5	12	83	2010	3.14	10	< 1	0.93	30	1.18	115	509
940630H	299	229	1.6	2.09	< 2	110	< 0.5	< 2	0.12	< 0.5	11	72	2290	3.18	< 10	< 1	0.79	20	1.20	110	376
940631H	299	229	1.4	1.93	16	110	< 0.5	< 2	0.11	< 0.5	11	86	2190	4.04	< 10	< 1	0.78	30	1.11	120	184
940632H	299	229	1.0	1.93	6	160	< 0.5	2	0.14	< 0.5	11	117	1690	3.46	< 10	< 1	0.67	10	1.03	95	172
940633H	299	229	2.0	1.91	6	150	< 0.5	< 2	0.13	< 0.5	9	63	2610	2.57	< 10	< 1	0.71	10	1.03	90	190
940634H	299	229	2.0	1.51	2	110	< 0.5	< 2	0.11	< 0.5	13	75	2290	3.15	< 10	< 1	0.55	10	0.82	85	222
940635H	299	229	1.8	1.19	8	80	< 0.5	< 2	1.97	< 0.5	13	93	2340	3.62	< 10	< 1	0.43	10	0.79	105	236
940636H	299	229	1.4	1.25	2	90	< 0.5	< 2	3.04	< 0.5	8	95	1620	2.54	< 10	< 1	0.51	10	0.94	110	169
940637H	299	229	0.8	1.56	< 2	110	< 0.5	< 2	3.00	< 0.5	10	117	1240	2.49	< 10	< 1	0.73	10	1.25	135	165
940638H	299	229	0.8	1.56	4	160	< 0.5	< 2	2.02	< 0.5	6	119	1045	2.29	< 10	< 1	0.87	10	1.40	135	140
940639H	299	229	0.4	0.93	2	90	< 0.5	< 2	2.61	< 0.5	7	219	743	1.93	< 10	< 1	0.43	20	0.67	85	142
940640H	299	229	0.8	1.24	2	130	< 0.5	< 2	2.89	< 0.5	5	99	1085	1.64	< 10	< 1	0.46	10	0.69	95	154
940641H	299	229	0.8	1.34	4	130	< 0.5	< 2	2.81	< 0.5	7	116	1215	1.61	< 10	< 1	0.51	10	0.77	95	125
940642H	299	229	1.0	1.58	< 2	120	< 0.5	< 2	2.96	< 0.5	5	143	1200	1.80	< 10	< 1	0.77	10	1.20	100	461
940643H	299	229	1.4	1.21	6	70	< 0.5	< 2	2.49	< 0.5	14	143	1445	2.66	< 10	< 1	0.45	10	0.98	100	96
940644H	299	229	1.2	1.10	2	70	< 0.5	< 2	3.02	< 0.5	10	168	1390	2.00	< 10	< 1	0.43	10	0.86	90	169
940645H	299	229	1.0	1.08	2	80	< 0.5	< 2	2.33	0.5	6	92	1455	1.82	< 10	< 1	0.46	< 10	0.85	95	126
940646H	299	229	0.6	1.47	< 2	110	< 0.5	< 2	2.87	< 0.5	9	105	1030	2.39	< 10	< 1	0.76	10	1.28	120	141
940647H	299	229	1.0	1.03	6	60	< 0.5	< 2	1.89	< 0.5	11	64	1630	2.44	< 10	< 1	0.37	< 10	0.83	90	188
940648H	299	229	0.8	0.94	4	70	< 0.5	< 2	2.13	< 0.5	7	60	810	1.86	< 10	< 1	0.38	10	0.86	85	135
940649H	299	229	0.4	1.09	6	100	< 0.5	< 2	2.81	< 0.5	5	78	883	1.43	< 10	< 1	0.48	10	0.90	90	145
940650H	299	229	0.4	1.11	< 2	120	< 0.5	< 2	2.59	< 0.5	5	113	680	1.49	< 10	< 1	0.49	10	0.94	95	144
940651H	299	229	0.2	1.43	< 2	150	< 0.5	< 2	2.04	< 0.5	6	184	669	1.96	< 10	< 1	0.83	10	1.22	115	124
940652H	299	229	1.2	1.26	4	140	< 0.5	< 2	2.28	< 0.5	6	137	1130	1.79	< 10	< 1	0.64	10	1.06	105	102
940653H	299	229	0.8	1.42	8	160	< 0.5	2	2.65	< 0.5	4	127	1225	1.79	< 10	< 1	0.79	10	1.23	125	170
940654H	299	229	0.4	2.53	< 2	260	< 0.5	< 2	1.81	< 0.5	7	165	1110	3.23	< 10	< 1	1.75	< 10	2.58	200	120

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CERTIFICATE OF ANALYSIS A9324046

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940615H	299	229	0.04	12	450	< 2	2	3	16	0.01	< 10	< 10	28	< 10	38
940616H	299	229	0.04	11	460	6	2	3	18	0.02	< 10	< 10	36	< 10	30
940617H	299	229	0.07	11	450	2	2	6	15	0.02	< 10	< 10	51	< 10	22
940618H	299	229	0.07	11	480	4	< 2	8	25	0.07	< 10	< 10	63	< 10	36
940619H	299	229	0.03	11	440	< 2	4	6	13	0.01	< 10	< 10	41	< 10	76
940620H	299	229	0.05	8	500	6	< 2	4	16	0.01	< 10	< 10	43	< 10	56
940621H	299	229	0.05	13	430	6	< 2	3	27	0.01	< 10	< 10	29	< 10	24
940622H	299	229	0.04	15	500	< 2	< 2	4	27	0.04	< 10	< 10	42	< 10	20
940623H	299	229	0.04	7	410	< 2	< 2	3	31	0.02	< 10	< 10	31	< 10	16
940624H	299	229	0.04	9	350	< 2	2	6	24	0.07	< 10	< 10	52	< 10	24
940625H	299	229	0.04	11	430	< 2	< 2	7	35	0.07	< 10	< 10	54	20	20
940626H	299	229	0.06	13	470	2	< 2	8	37	0.09	< 10	< 10	65	< 10	26
940627H	299	229	0.04	8	350	4	2	7	19	0.06	< 10	< 10	47	< 10	56
940628H	299	229	0.04	11	320	6	< 2	8	37	0.07	< 10	< 10	72	< 10	30
940629H	299	229	0.05	10	680	8	6	12	142	0.09	< 10	< 10	71	20	24
940630H	299	229	0.06	9	510	4	< 2	10	81	0.07	< 10	< 10	67	< 10	24
940631H	299	229	0.05	9	490	6	2	9	75	0.08	< 10	< 10	77	< 10	26
940632H	299	229	0.08	11	590	4	< 2	9	41	0.07	< 10	< 10	86	< 10	24
940633H	299	229	0.07	9	520	2	2	8	36	0.06	< 10	< 10	62	< 10	24
940634H	299	229	0.06	8	460	6	2	5	31	0.02	< 10	< 10	52	< 10	20
940635H	299	229	0.04	8	360	2	4	6	83	0.03	< 10	< 10	74	< 10	18
940636H	299	229	0.04	5	360	12	< 2	7	124	0.05	< 10	< 10	68	< 10	18
940637H	299	229	0.04	6	450	14	2	9	123	0.08	< 10	< 10	76	< 10	22
940638H	299	229	0.04	4	470	6	< 2	11	79	0.13	< 10	< 10	88	< 10	24
940639H	299	229	0.04	7	240	8	< 2	4	139	0.03	< 10	< 10	39	< 10	14
940640H	299	229	0.06	2	280	6	< 2	3	131	0.01	< 10	< 10	29	< 10	14
940641H	299	229	0.06	5	230	4	< 2	3	125	0.01	< 10	< 10	32	< 10	16
940642H	299	229	0.05	6	340	4	2	10	125	0.09	< 10	< 10	71	< 10	16
940643H	299	229	0.04	8	280	6	2	6	97	0.04	< 10	< 10	55	< 10	18
940644H	299	229	0.04	5	310	< 2	2	6	118	0.02	< 10	< 10	52	< 10	16
940645H	299	229	0.06	4	310	12	2	6	98	0.04	< 10	< 10	46	< 10	24
940646H	299	229	0.05	4	590	2	< 2	10	135	0.11	< 10	< 10	81	< 10	20
940647H	299	229	0.04	6	290	8	2	3	71	0.01	< 10	< 10	34	< 10	16
940648H	299	229	0.03	3	260	4	< 2	4	91	0.02	< 10	< 10	37	< 10	16
940649H	299	229	0.04	4	270	4	< 2	6	127	0.04	< 10	< 10	48	< 10	16
940650H	299	229	0.04	5	290	4	4	7	113	0.04	< 10	< 10	46	< 10	18
940651H	299	229	0.06	8	360	6	< 2	13	81	0.11	< 10	< 10	77	< 10	20
940652H	299	229	0.06	4	320	10	< 2	10	96	0.11	< 10	< 10	71	< 10	20
940653H	299	229	0.07	5	350	12	< 2	12	107	0.13	< 10	< 10	82	< 10	24
940654H	299	229	0.08	9	530	6	< 2	25	77	0.31	< 10	< 10	175	< 10	32

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Nu... :3-A
Total Pages :3
Certificate Date: 10-NOV-93
Invoice No. :19324046
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324046

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
940655H	299	229	0.4	1.56	10	210	< 0.5	< 2	1.96	< 0.5	5	100	867	1.89	< 10	< 1	0.83	< 10	1.32	135	225
940656H	299	229	0.2	0.93	< 2	110	< 0.5	2	2.30	< 0.5	3	51	319	1.21	< 10	< 1	0.44	< 10	0.87	100	136
940657H	299	229	0.6	1.40	4	140	< 0.5	< 2	2.35	< 0.5	6	153	792	2.07	< 10	< 1	0.70	10	1.20	150	203
940658H	299	229	0.6	0.99	< 2	120	< 0.5	2	2.26	< 0.5	6	46	782	1.63	< 10	< 1	0.41	< 10	0.91	130	160
940659H	299	229	1.0	1.12	4	90	< 0.5	< 2	2.96	< 0.5	6	87	1360	2.48	< 10	< 1	0.51	10	0.93	120	164
940660H	299	229	1.0	1.56	4	110	< 0.5	< 2	2.19	< 0.5	10	149	1270	2.75	< 10	< 1	0.74	10	1.26	135	141
940661H	299	229	1.0	1.17	6	120	< 0.5	< 2	2.99	< 0.5	6	210	1370	1.89	< 10	< 1	0.62	20	1.03	115	121
940662H	299	229	1.4	0.73	6	110	< 0.5	< 2	2.43	< 0.5	6	174	1530	1.31	< 10	< 1	0.43	20	0.64	95	244
940663H	299	229	0.6	0.81	20	140	< 0.5	< 2	1.82	< 0.5	7	198	866	1.57	< 10	< 1	0.40	30	0.62	105	165
940664H	299	229	0.2	1.30	2	170	< 0.5	< 2	2.06	< 0.5	5	219	802	1.78	< 10	< 1	0.67	20	0.98	125	133
940665H	299	229	0.6	1.44	4	120	< 0.5	< 2	2.40	< 0.5	6	129	1000	2.41	< 10	< 1	0.65	20	1.12	140	142
940666H	299	229	0.4	0.87	4	90	< 0.5	< 2	2.16	< 0.5	8	157	670	1.63	< 10	< 1	0.40	20	0.62	95	93
940667H	299	229	0.2	1.18	2	100	< 0.5	< 2	2.50	< 0.5	9	156	687	2.12	< 10	< 1	0.60	20	0.86	105	90
940668H	299	229	0.4	1.35	4	210	< 0.5	< 2	1.35	< 0.5	7	204	767	1.56	< 10	< 1	0.68	30	0.83	105	75
940669H	299	229	0.6	1.31	< 2	240	< 0.5	< 2	1.82	< 0.5	5	204	625	1.63	< 10	< 1	0.62	20	0.90	135	99
940670H	299	229	0.4	1.73	2	190	< 0.5	< 2	1.45	< 0.5	11	189	753	1.90	< 10	< 1	0.76	20	0.95	110	101
940671H	299	229	0.6	1.23	< 2	130	< 0.5	< 2	1.37	< 0.5	11	166	712	2.24	< 10	< 1	0.63	20	0.93	110	124
940672H	299	229	0.4	1.24	< 2	150	< 0.5	< 2	1.50	< 0.5	12	178	732	2.27	< 10	< 1	0.72	20	0.95	135	78
940673H	299	229	1.4	1.30	6	130	< 0.5	< 2	1.75	< 0.5	13	127	1360	3.00	< 10	< 1	0.70	20	1.09	150	107
940674H	299	229	0.6	1.49	4	200	< 0.5	< 2	1.86	< 0.5	9	104	859	2.15	< 10	< 1	0.69	10	1.08	140	94
940675H	299	229	1.6	1.09	4	110	< 0.5	4	1.85	< 0.5	11	82	1385	3.16	< 10	< 1	0.55	10	0.99	150	133
940676H	299	229	1.2	1.35	< 2	140	< 0.5	< 2	2.02	< 0.5	8	121	1050	1.89	< 10	< 1	0.67	20	0.99	145	348
940677H	299	229	0.6	1.87	< 2	220	< 0.5	< 2	1.69	< 0.5	10	110	1030	2.83	< 10	< 1	1.07	20	1.42	160	216
940678H	299	229	0.6	1.44	< 2	120	< 0.5	< 2	2.23	< 0.5	8	133	822	2.99	< 10	< 1	0.68	10	1.05	170	157
940679H	299	229	0.8	1.36	< 2	150	< 0.5	< 2	1.53	< 0.5	10	133	1150	2.32	< 10	< 1	0.68	10	1.08	125	281
940680H	299	229	1.0	1.58	< 2	150	< 0.5	< 2	1.82	< 0.5	14	139	1255	2.65	< 10	< 1	0.95	20	1.30	120	404
940681H	299	229	1.0	1.76	4	80	< 0.5	< 2	2.54	< 0.5	42	120	1450	4.53	< 10	< 1	0.92	20	1.51	170	267
940682H	299	229	0.4	1.18	14	150	< 0.5	< 2	1.78	< 0.5	8	188	757	1.66	< 10	< 1	0.74	20	1.02	110	234
940683H	299	229	0.6	1.35	< 2	200	< 0.5	< 2	1.70	< 0.5	9	109	851	1.82	< 10	< 1	0.72	20	1.07	115	244
940684H	299	229	1.2	1.01	< 2	120	< 0.5	< 2	1.41	< 0.5	8	131	650	1.63	< 10	< 1	0.52	20	0.75	100	1720
940685H	299	229	0.6	1.09	< 2	120	< 0.5	< 2	2.23	0.5	7	91	574	1.65	< 10	< 1	0.76	10	1.10	120	212
940686H	299	229	0.4	1.31	< 2	170	< 0.5	< 2	2.02	< 0.5	7	139	446	1.68	< 10	< 1	0.89	20	1.21	130	262
940687H	299	229	0.4	1.08	< 2	160	< 0.5	< 2	2.05	< 0.5	6	88	637	1.67	< 10	< 1	0.66	20	0.97	110	141
940688H	299	229	0.6	0.97	< 2	160	< 0.5	< 2	1.88	< 0.5	7	90	602	1.16	< 10	< 1	0.52	20	0.77	90	227
940689H	299	229	0.6	0.79	< 2	160	< 0.5	< 2	1.49	< 0.5	7	93	573	1.23	< 10	< 1	0.45	20	0.73	85	136
940690H	299	229	0.6	1.21	< 2	170	< 0.5	< 2	1.77	< 0.5	8	111	622	1.62	< 10	< 1	0.75	20	1.05	105	153
940691H	299	229	0.2	1.21	< 2	200	< 0.5	< 2	1.56	< 0.5	5	109	210	1.39	< 10	< 1	0.82	10	1.18	105	137

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 234
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 10-NOV-93
Invoice No. :I9324046
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324046

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
940655H	299	229	0.09	5	450	2	2	14	94	0.16	< 10	< 10	82	< 10	24
940656H	299	229	0.03	3	200	8	2	7	95	0.07	< 10	< 10	43	< 10	20
940657H	299	229	0.06	7	360	8	2	10	95	0.10	< 10	< 10	74	< 10	22
940658H	299	229	0.03	6	360	6	2	7	91	0.06	< 10	< 10	52	< 10	20
940659H	299	229	0.03	6	280	4	2	8	137	0.08	< 10	< 10	71	< 10	20
940660H	299	229	0.06	8	480	2	< 2	10	92	0.11	< 10	< 10	84	< 10	22
940661H	299	229	0.04	8	280	12	4	9	162	0.08	< 10	< 10	60	< 10	22
940662H	299	229	0.03	4	270	4	2	6	176	0.03	< 10	< 10	40	< 10	16
940663H	299	229	0.03	5	250	2	< 2	5	212	0.01	< 10	< 10	29	< 10	18
940664H	299	229	0.06	6	430	< 2	< 2	9	119	0.08	< 10	< 10	60	< 10	22
940665H	299	229	0.04	6	450	6	4	10	90	0.08	< 10	< 10	73	< 10	24
940666H	299	229	0.04	5	210	10	2	5	87	0.03	< 10	< 10	42	< 10	20
940667H	299	229	0.06	6	290	10	2	9	118	0.08	< 10	< 10	59	< 10	18
940668H	299	229	0.06	7	270	6	< 2	9	68	0.06	< 10	< 10	58	< 10	16
940669H	299	229	0.06	4	530	2	< 2	7	63	0.04	< 10	< 10	48	< 10	18
940670H	299	229	0.07	7	380	10	< 2	8	59	0.04	< 10	< 10	54	< 10	18
940671H	299	229	0.04	7	230	12	2	7	75	0.06	< 10	< 10	59	< 10	18
940672H	299	229	0.06	8	250	4	2	8	82	0.07	< 10	< 10	54	< 10	18
940673H	299	229	0.05	8	310	8	< 2	11	218	0.08	< 10	< 10	72	< 10	20
940674H	299	229	0.06	5	330	8	4	9	85	0.08	< 10	< 10	63	< 10	20
940675H	299	229	0.04	6	400	2	4	7	92	0.06	< 10	< 10	59	< 10	18
940676H	299	229	0.06	5	340	12	< 2	8	87	0.04	< 10	< 10	55	< 10	18
940677H	299	229	0.08	6	490	< 2	2	13	80	0.17	< 10	< 10	96	< 10	22
940678H	299	229	0.05	8	300	2	2	8	116	0.06	< 10	< 10	75	< 10	22
940679H	299	229	0.04	7	250	6	4	9	92	0.08	< 10	< 10	80	< 10	20
940680H	299	229	0.04	6	410	6	2	11	101	0.11	< 10	< 10	85	< 10	20
940681H	299	229	0.06	10	490	14	2	14	101	0.13	< 10	< 10	93	10	28
940682H	299	229	0.05	6	250	2	2	9	98	0.09	< 10	< 10	62	< 10	18
940683H	299	229	0.04	6	350	10	2	10	88	0.08	< 10	< 10	64	< 10	18
940684H	299	229	0.04	4	310	14	14	6	52	0.03	< 10	< 10	46	< 10	14
940685H	299	229	0.04	4	270	4	2	8	128	0.09	< 10	< 10	51	< 10	20
940686H	299	229	0.05	6	430	< 2	< 2	11	106	0.12	< 10	< 10	68	< 10	20
940687H	299	229	0.04	3	430	6	< 2	10	109	0.09	< 10	< 10	65	< 10	18
940688H	299	229	0.06	4	320	6	2	7	88	0.05	< 10	< 10	45	< 10	16
940689H	299	229	0.03	3	390	2	< 2	7	100	0.04	< 10	< 10	40	< 10	12
940690H	299	229	0.05	4	320	< 2	< 2	10	103	0.10	< 10	< 10	65	< 10	18
940691H	299	229	0.05	4	200	2	< 2	11	78	0.13	< 10	< 10	65	< 10	20

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 235
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-NOV-93
Invoice No. :I9324319
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324319

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
588168H	208	274	0.04	0.010	0.10	1360
588169H	208	274	0.04	0.011	0.17	2400
588170H	208	274	0.04	0.012	0.34	5880
588171H	208	276	0.04	0.008	0.27	9640
588172H	208	274	0.03	0.010	0.17	5780
588173H	208	274	0.02	0.019	0.31	3480
588174H	208	274	0.08	0.004	0.10	6880
588175H	208	274	0.06	0.004	0.10	5700
588176H	208	274	0.05	0.008	0.27	3580
588177H	208	274	0.07	0.006	0.24	6740
588178H	208	274	0.17	0.011	0.24	4700
588179H	208	276	0.21	0.010	0.31	7340
588180H	208	274	0.17	0.019	0.31	5780
588181H	208	274	0.10	0.008	0.21	4880
588182H	208	274	0.24	0.011	0.17	6920
588183H	208	274	0.30	0.009	0.24	4840
588184H	208	276	0.27	0.145	0.17	7400
588185H	208	276	0.33	0.015	0.27	10870
588186H	208	274	0.25	0.020	0.14	7240
588187H	208	274	0.23	0.010	0.10	6600
588188H	208	273	0.23	0.011	0.07	12320
588189H	208	276	0.11	0.017	0.14	8700
588190H	208	276	0.16	0.025	0.14	10040
588191H	208	276	0.17	0.013	0.17	9320
588192H	208	276	0.17	0.011	0.21	10580
588193H	208	276	0.14	0.013	0.21	9540
588194H	208	276	0.24	0.010	0.24	9300
588195H	208	273	0.36	0.014	0.38	13020
588196H	208	276	0.49	0.009	0.34	11620
588197H	208	274	0.35	0.028	0.34	4440
588198H	208	276	0.19	0.015	0.21	10120
588199H	208	276	0.16	0.039	0.17	10320
588200H	208	274	0.25	0.029	0.24	3540
588201H	208	276	0.39	0.027	0.38	9280
588202H	208	273	0.16	0.012	0.27	12800
588203H	208	276	0.42	0.035	0.38	7340
588204H	208	276	0.18	0.033	0.21	9640
588205H	208	276	0.25	0.017	0.21	8660
588206H	208	276	0.25	0.025	0.21	8720
588207H	208	276	0.24	0.023	0.21	10040

CERTIFICATION: Said Zeinab

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Y1A 3S9

Project : CASINO 235
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-NOV-93
Invoice No. :I9324319
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324319

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
588208H	208 274	0.32	0.012	0.24	7000
588209H	208 276	0.27	0.047	0.31	7560
588210H	208 276	0.25	0.035	0.24	11350
588211H	208 274	0.20	0.054	0.21	7200
588212H	208 276	0.16	0.046	0.21	8500
588213H	208 276	0.19	0.012	0.21	11700
588214H	208 274	0.14	0.015	0.41	6760
588215H	208 273	0.17	0.018	0.17	12180
588216H	208 273	0.26	0.045	0.31	12140
588217H	208 273	0.23	0.023	0.21	12120
588218H	208 273	0.48	0.031	0.27	15320
588219H	208 273	0.20	0.112	0.21	12240
588220H	208 273	0.09	0.042	0.14	13560
588221H	208 273	0.16	0.022	0.21	12780
588222H	208 273	0.19	0.035	0.14	12240
588223H	208 273	0.09	0.045	0.10	13000
588224H	208 273	0.13	0.034	0.14	13740
588225H	208 273	0.09	0.020	0.14	14700
588226H	208 273	0.08	0.025	0.14	13600
588227H	208 273	0.13	0.052	0.14	13440
588228H	208 273	0.18	0.200	0.10	11900
588229H	208 273	0.10	0.049	0.07	13400
588230H	208 273	0.12	0.031	0.14	11980
588231H	208 273	0.14	0.035	0.14	14980
588232H	208 273	0.11	0.029	0.14	15060
588233H	208 273	0.15	0.024	0.10	12000
588234H	208 276	0.11	0.025	0.07	9580
588235H	208 276	0.11	0.022	0.10	8740
588236H	208 273	0.08	0.030	0.10	12540
588237H	208 276	0.12	0.037	0.10	10700
588238H	208 273	0.12	0.039	0.17	12560
588239H	208 273	0.16	0.032	0.27	12320
588240H	208 273	0.18	0.058	0.24	12800
588241H	208 276	0.12	0.051	0.14	11720
588242H	208 276	0.32	0.058	0.27	11560
588243H	208 276	0.31	0.072	0.31	11700
588244H	208 273	0.14	0.090	0.17	12800
588245H	208 276	0.10	0.062	0.10	11200
588246H	208 276	0.16	0.086	0.14	11360
588247H	208 273	0.10	0.064	0.14	12640

CERTIFICATION: Saul Zinnes

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 235
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-NOV-93
Invoice No. : 19324319
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324319

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
588248H	208 273	0.28	0.045	0.24	12320
588249H	208 276	0.16	0.081	0.17	11200
588250H	208 273	0.11	0.123	0.21	12140
588251H	208 273	0.09	0.037	0.10	11920
588252H	208 276	0.08	0.059	0.24	7900
588253H	208 276	0.11	0.030	0.10	11440
588254H	208 276	0.09	0.055	0.10	11580
588255H	208 276	0.10	0.043	0.14	8640
588256H	208 273	0.10	0.025	0.10	12580
588257H	208 273	0.05	0.097	0.10	12640
588258H	208 276	0.07	0.050	0.07	11760
588259H	208 273	0.07	0.061	0.10	12780
588260H	208 273	0.05	0.064	0.31	16040
588261H	208 276	0.06	0.066	0.10	11160
588262H	208 273	0.05	0.150	0.10	11980
588263H	208 276	0.03	0.082	0.07	11320
588264H	208 276	0.07	0.080	0.10	11120
588265H	208 276	0.06	0.059	0.17	11240
588266H	208 273	0.02	0.165	0.03	11860
588267H	208 276	0.04	0.088	0.07	11600
588268H	208 276	0.05	0.060	0.10	11200
588269H	208 276	0.08	0.147	0.14	11120

CERTIFICATION: Gerald Ristad

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Total Pages :3
Certificate Date: 12-NOV-93
Invoice No. :I9324320
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Account :FC

CERTIFICATE OF ANALYSIS A9324320

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
588168H	299	229	1.4	2.31	< 2	240	< 0.5	< 2	0.20	< 0.5	3	62	401	2.65	10	< 1	0.44	10	1.19	140	62
588169H	299	229	2.6	2.25	12	860	< 0.5	2	0.26	< 0.5	4	43	355	2.51	10	< 1	0.48	10	0.97	90	68
588170H	299	229	1.8	2.69	< 2	250	< 0.5	< 2	0.19	< 0.5	5	50	421	2.83	10	< 1	0.59	10	1.26	115	74
588171H	299	229	0.8	3.31	< 2	210	< 0.5	< 2	0.24	< 0.5	4	86	359	2.84	10	< 1	0.89	10	1.55	125	49
588172H	299	229	2.0	1.74	14	250	< 0.5	< 2	0.11	< 0.5	3	80	261	2.37	< 10	< 1	0.52	10	0.71	70	62
588173H	299	229	2.0	1.49	4	380	< 0.5	2	0.04	< 0.5	2	108	231	1.69	< 10	< 1	0.40	10	0.47	50	112
588174H	299	229	1.2	5.17	< 2	680	< 0.5	< 2	0.42	0.5	9	145	712	3.93	< 10	< 1	1.19	10	2.49	195	23
588175H	299	229	0.6	4.69	< 2	400	< 0.5	< 2	0.45	0.5	8	175	610	3.31	10	< 1	0.90	10	2.25	190	25
588176H	299	229	2.0	4.42	< 2	750	< 0.5	< 2	0.37	< 0.5	7	120	476	3.77	< 10	< 1	1.51	10	2.67	165	44
588177H	299	229	0.8	5.33	< 2	480	< 0.5	< 2	0.33	0.5	8	233	656	4.08	< 10	< 1	1.71	10	3.32	160	36
588178H	299	229	1.2	4.21	< 2	360	< 0.5	< 2	0.23	< 0.5	10	183	1615	3.31	10	< 1	1.30	10	2.72	140	58
588179H	299	229	2.2	4.09	< 2	440	< 0.5	< 2	0.23	< 0.5	10	172	2090	3.19	10	< 1	1.48	20	2.58	125	64
588180H	299	229	2.6	1.82	2	180	< 0.5	4	0.22	< 0.5	6	65	1815	2.22	10	< 1	0.52	30	0.73	55	129
588181H	299	229	1.4	1.97	< 2	210	< 0.5	< 2	0.16	< 0.5	6	57	1045	2.12	< 10	< 1	0.55	10	1.24	110	53
588182H	299	229	1.0	1.71	< 2	140	< 0.5	< 2	0.17	< 0.5	9	64	2440	1.92	< 10	< 1	0.48	20	1.11	95	69
588183H	299	229	1.4	1.17	< 2	50	< 0.5	4	0.14	< 0.5	11	90	3310	1.71	< 10	< 1	0.23	20	0.71	80	55
588184H	299	229	1.4	1.10	< 2	110	< 0.5	6	0.18	0.5	10	77	3000	1.44	10	< 1	0.33	30	0.61	65	972
588185H	299	229	1.6	1.56	6	180	< 0.5	4	0.24	0.5	15	101	3650	1.29	10	< 1	0.38	40	0.31	40	100
588186H	299	229	1.2	0.56	10	160	< 0.5	2	0.12	< 0.5	7	46	2810	0.98	< 10	< 1	0.16	30	0.03	10	128
588187H	299	229	1.0	0.47	6	230	< 0.5	2	0.19	0.5	6	39	2580	0.84	< 10	< 1	0.14	40	0.04	15	69
588188H	299	229	1.0	0.39	20	230	< 0.5	2	0.14	2.0	9	41	2590	0.80	< 10	< 1	0.11	30	0.02	10	78
588189H	299	229	0.6	0.28	8	330	< 0.5	2	0.74	1.0	6	36	1110	0.62	< 10	< 1	0.13	30	0.06	55	112
588190H	299	229	1.6	0.31	6	190	< 0.5	6	0.34	2.5	6	70	1705	0.95	< 10	< 1	0.13	30	0.04	45	152
588191H	299	229	1.2	1.16	4	230	< 0.5	4	1.91	0.5	11	34	1825	1.76	< 10	< 1	0.47	10	0.76	180	83
588192H	299	229	1.2	1.55	< 2	120	< 0.5	< 2	1.54	< 0.5	10	32	1705	2.28	10	< 1	0.61	10	1.20	215	70
588193H	299	229	1.2	2.40	18	260	< 0.5	< 2	3.51	< 0.5	13	22	1340	3.76	10	< 1	1.15	< 10	1.85	390	70
588194H	299	229	1.4	2.14	2	140	< 0.5	< 2	1.55	1.0	21	31	2530	4.47	10	< 1	1.09	20	1.65	365	59
588195H	299	229	4.2	0.54	38	70	< 0.5	4	2.48	0.5	27	10	3900	4.33	< 10	< 1	0.13	< 10	0.97	670	80
588196H	299	229	7.4	0.55	434	30	< 0.5	20	2.66	4.5	29	15	5450	5.86	< 10	< 1	0.19	< 10	0.76	1325	55
588197H	299	229	5.4	1.36	512	30	< 0.5	6	1.51	3.0	19	56	3930	5.92	10	< 1	0.32	< 10	0.32	980	166
588198H	299	229	6.6	0.48	166	60	< 0.5	14	2.93	1.5	14	50	2080	4.08	< 10	< 1	0.14	< 10	0.66	885	107
588199H	299	229	1.4	1.47	12	210	< 0.5	< 2	2.53	1.5	10	145	1590	1.97	10	< 1	0.61	10	0.98	290	239
588200H	299	229	1.4	2.02	12	130	< 0.5	2	2.41	1.0	22	88	2580	3.50	10	< 1	0.60	< 10	1.35	275	186
588201H	299	229	1.4	2.89	< 2	150	< 0.5	< 2	1.47	1.0	30	128	4110	4.52	10	< 1	1.11	10	2.02	250	157
588202H	299	229	0.2	2.96	4	380	< 0.5	< 2	1.70	< 0.5	20	228	1600	4.10	10	< 1	1.70	< 10	2.75	285	80
588203H	299	229	1.4	2.42	< 2	270	< 0.5	< 2	1.32	0.5	16	21	4260	3.35	< 10	< 1	1.29	< 10	1.90	205	219
588204H	299	229	0.4	2.78	< 2	370	< 0.5	< 2	1.93	0.5	13	28	1805	3.77	< 10	< 1	1.45	< 10	2.03	235	184
588205H	299	229	0.6	2.95	< 2	240	< 0.5	< 2	1.42	< 0.5	26	25	2540	4.45	< 10	< 1	1.60	< 10	2.32	225	106
588206H	299	229	0.6	2.76	< 2	300	< 0.5	< 2	1.50	< 0.5	17	30	2570	3.88	10	< 1	1.50	< 10	2.11	215	147
588207H	299	229	0.8	2.67	< 2	270	< 0.5	< 2	1.56	< 0.5	17	29	2390	3.89	10	< 1	1.41	< 10	1.90	205	131

CERTIFICATION:

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Page Number :1-B
Total Pages :3
Certificate Date: 12-NOV-93
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CERTIFICATE OF ANALYSIS A9324320

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
588168H	299	229	0.04	2	580	30	< 2	9	16	0.05	< 10	< 10	73	< 10	56
588169H	299	229	0.03	3	560	24	6	10	30	0.04	< 10	< 10	71	< 10	62
588170H	299	229	0.04	4	540	16	< 2	11	13	0.08	< 10	< 10	86	< 10	62
588171H	299	229	0.07	5	580	6	< 2	16	17	0.15	< 10	< 10	111	< 10	72
588172H	299	229	0.04	3	430	16	4	7	17	0.03	< 10	< 10	53	< 10	42
588173H	299	229	0.03	2	310	6	2	4	16	0.01	< 10	< 10	37	< 10	36
588174H	299	229	0.06	19	680	2	< 2	23	27	0.29	< 10	< 10	158	< 10	74
588175H	299	229	0.07	20	540	6	< 2	15	26	0.23	< 10	< 10	127	< 10	80
588176H	299	229	0.06	17	860	16	< 2	22	20	0.32	< 10	< 10	163	< 10	74
588177H	299	229	0.06	26	550	2	< 2	29	20	0.31	< 10	< 10	188	< 10	80
588178H	299	229	0.04	23	510	2	< 2	22	15	0.21	< 10	< 10	150	< 10	56
588179H	299	229	0.04	18	490	4	< 2	24	18	0.20	< 10	< 10	159	< 10	60
588180H	299	229	0.02	5	300	12	2	10	16	0.03	< 10	< 10	59	< 10	46
588181H	299	229	0.03	5	420	2	< 2	11	13	0.08	< 10	< 10	80	< 10	42
588182H	299	229	0.03	7	430	2	< 2	10	11	0.06	< 10	< 10	67	< 10	48
588183H	299	229	0.03	9	280	6	< 2	4	9	< 0.01	< 10	< 10	36	< 10	44
588184H	299	229	0.02	10	320	4	8	4	11	0.02	< 10	< 10	24	< 10	48
588185H	299	229	0.01	6	280	8	6	5	14	< 0.01	< 10	< 10	32	< 10	46
588186H	299	229	0.01	2	140	14	8	< 1	10	< 0.01	< 10	< 10	1	< 10	34
588187H	299	229	0.01	1	160	12	2	< 1	16	< 0.01	< 10	< 10	1	< 10	90
588188H	299	229	< 0.01	2	180	22	12	< 1	14	< 0.01	< 10	< 10	1	< 10	110
588189H	299	229	0.02	1	200	12	< 2	< 1	26	< 0.01	< 10	< 10	1	< 10	30
588190H	299	229	0.01	2	160	44	6	< 1	15	< 0.01	< 10	< 10	< 1	< 10	114
588191H	299	229	0.02	3	410	6	4	7	31	0.04	< 10	< 10	54	< 10	50
588192H	299	229	0.03	3	620	2	< 2	10	27	0.07	< 10	< 10	77	< 10	54
588193H	299	229	0.03	5	1170	2	6	21	59	0.14	< 10	< 10	127	< 10	74
588194H	299	229	0.04	7	1210	< 2	< 2	19	34	0.15	< 10	< 10	116	< 10	90
588195H	299	229	0.01	8	1400	8	60	12	34	< 0.01	< 10	< 10	49	< 10	80
588196H	299	229	0.01	19	930	82	66	6	28	< 0.01	< 10	< 10	27	< 10	282
588197H	299	229	0.01	20	1010	50	162	9	20	< 0.01	< 10	< 10	47	< 10	200
588198H	299	229	0.01	30	650	34	58	8	31	< 0.01	< 10	< 10	37	< 10	174
588199H	299	229	0.02	34	570	8	4	8	34	0.06	< 10	< 10	60	< 10	162
588200H	299	229	0.06	24	1790	34	< 2	13	47	0.08	< 10	< 10	142	< 10	112
588201H	299	229	0.06	31	1830	10	< 2	17	50	0.18	< 10	< 10	174	< 10	92
588202H	299	229	0.06	32	1560	< 2	< 2	18	47	0.21	< 10	< 10	149	< 10	68
588203H	299	229	0.06	6	1330	2	2	16	42	0.19	< 10	< 10	141	< 10	56
588204H	299	229	0.09	3	1320	< 2	< 2	15	51	0.23	< 10	< 10	145	< 10	56
588205H	299	229	0.10	6	1030	2	< 2	21	41	0.26	< 10	< 10	169	< 10	56
588206H	299	229	0.09	5	1040	< 2	< 2	19	49	0.23	< 10	< 10	156	< 10	50
588207H	299	229	0.07	3	1150	< 2	< 2	17	53	0.21	< 10	< 10	156	< 10	50

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CERTIFICATE OF ANALYSIS A9324320

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
588208H	299	229	1.4	2.49	8	190	< 0.5	< 2	1.50	0.5	28	30	3330	4.03	10	< 1	1.26	10	1.78	205	74
588209H	299	229	1.4	2.50	10	200	< 0.5	< 2	3.10	< 0.5	15	28	2780	2.97	10	< 1	1.08	< 10	1.37	230	265
588210H	299	229	1.6	1.28	8	130	< 0.5	4	4.28	< 0.5	20	19	2510	2.50	< 10	< 1	0.38	< 10	0.74	250	205
588211H	299	229	1.6	1.82	18	110	< 0.5	6	3.38	< 0.5	15	43	2070	2.11	10	< 1	0.59	< 10	0.73	195	320
588212H	299	229	2.4	1.42	14	90	< 0.5	4	3.63	6.0	11	66	1705	2.14	< 10	< 1	0.52	< 10	0.74	205	279
588213H	299	229	1.2	2.58	4	280	< 0.5	< 2	3.19	< 0.5	17	108	1990	3.75	10	< 1	1.05	< 10	1.43	230	68
588214H	299	229	2.0	1.06	28	190	< 0.5	6	3.65	< 0.5	11	86	1540	3.51	10	< 1	0.24	10	0.78	455	93
588215H	299	229	2.6	1.83	12	290	< 0.5	4	4.25	0.5	17	46	1810	3.24	10	< 1	0.33	< 10	0.71	440	101
588216H	299	229	3.4	1.92	80	110	< 0.5	8	3.76	0.5	18	44	2840	4.27	10	< 1	0.60	< 10	1.16	330	266
588217H	299	229	2.6	2.39	4	380	< 0.5	6	5.20	0.5	14	34	2390	3.18	10	< 1	0.87	< 10	1.23	260	129
588218H	299	229	18.0	1.24	52	260	< 0.5	34	7.28	27.5	13	37	5000	3.93	< 10	< 1	0.51	< 10	0.90	295	172
588219H	299	229	1.8	1.68	12	350	< 0.5	2	3.27	0.5	9	63	2010	2.47	10	< 1	0.88	10	1.31	215	720
588220H	299	229	1.0	2.06	< 2	310	< 0.5	< 2	2.44	0.5	10	77	936	3.30	10	< 1	1.07	10	1.40	235	246
588221H	299	229	0.8	1.92	< 2	340	< 0.5	< 2	2.67	< 0.5	10	56	1615	2.80	10	< 1	1.07	< 10	1.41	190	128
588222H	299	229	4.2	2.10	14	280	< 0.5	< 2	2.77	4.5	11	78	1905	3.18	< 10	< 1	1.19	< 10	1.50	240	194
588223H	299	229	0.6	2.13	< 2	560	< 0.5	< 2	3.33	< 0.5	9	66	902	2.85	10	< 1	1.28	< 10	1.46	220	246
588224H	299	229	0.6	1.88	< 2	420	< 0.5	< 2	2.33	< 0.5	9	113	1235	2.47	10	< 1	1.10	10	1.27	160	200
588225H	299	229	0.8	1.14	< 2	270	< 0.5	4	1.68	1.5	8	124	949	1.58	10	< 1	0.46	10	0.67	125	122
588226H	299	229	0.4	2.39	8	390	< 0.5	< 2	2.39	< 0.5	7	136	858	2.79	10	< 1	0.86	10	1.09	140	153
588227H	299	229	1.8	0.76	20	110	< 0.5	4	1.14	0.5	8	134	1395	1.27	< 10	< 1	0.25	20	0.40	145	350
588228H	299	229	8.2	0.81	56	90	< 0.5	6	1.81	11.5	8	122	1990	2.80	10	< 1	0.33	10	0.57	305	1220
588229H	299	229	2.0	1.35	18	450	< 0.5	4	1.93	5.0	9	63	984	2.82	10	< 1	0.47	10	0.83	255	293
588230H	299	229	0.6	1.75	< 2	470	< 0.5	2	1.91	< 0.5	8	102	1175	2.20	10	< 1	0.95	10	1.16	125	172
588231H	299	229	6.4	1.04	24	160	< 0.5	4	1.87	27.5	8	76	1365	2.22	10	< 1	0.54	20	0.92	150	198
588232H	299	229	0.6	1.17	4	340	< 0.5	2	1.34	0.5	7	109	1130	1.56	10	< 1	0.68	20	0.83	120	172
588233H	299	229	2.2	0.33	32	130	< 0.5	4	1.12	1.5	3	108	1575	0.84	< 10	< 1	0.18	20	0.32	205	145
588234H	299	229	1.4	0.47	20	290	< 0.5	2	1.09	1.0	3	129	1105	0.69	< 10	< 1	0.22	20	0.21	100	166
588235H	299	229	0.6	0.86	2	210	< 0.5	2	1.39	< 0.5	5	87	1070	1.29	10	< 1	0.36	20	0.62	100	142
588236H	299	229	0.8	0.68	10	210	< 0.5	4	1.54	0.5	5	132	841	1.05	10	< 1	0.25	10	0.36	105	179
588237H	299	229	0.6	0.87	2	150	< 0.5	2	1.43	< 0.5	6	96	1275	1.55	10	< 1	0.29	10	0.65	85	211
588238H	299	229	0.8	1.10	2	160	< 0.5	4	1.66	1.5	5	139	1210	1.54	10	< 1	0.36	10	0.64	115	249
588239H	299	229	1.2	0.79	12	160	< 0.5	4	2.17	< 0.5	6	109	1745	1.53	< 10	< 1	0.26	10	0.56	105	199
588240H	299	229	1.4	1.12	8	230	< 0.5	4	1.92	0.5	7	156	1850	1.38	10	< 1	0.38	10	0.69	95	361
588241H	299	229	0.8	0.85	8	180	< 0.5	4	1.63	0.5	6	93	1170	1.36	10	< 1	0.26	20	0.60	110	305
588242H	299	229	7.8	0.59	56	160	< 0.5	6	1.52	14.0	7	115	3350	1.46	< 10	< 1	0.27	20	0.49	275	369
588243H	299	229	5.2	0.41	56	260	< 0.5	4	1.64	8.0	6	80	3240	1.19	< 10	< 1	0.13	20	0.47	315	420
588244H	299	229	1.4	0.90	10	180	< 0.5	4	1.65	1.5	6	105	1350	1.04	10	< 1	0.25	20	0.52	180	568
588245H	299	229	0.8	0.85	20	170	< 0.5	2	1.36	< 0.5	6	122	1090	1.09	10	< 1	0.29	20	0.52	120	396
588246H	299	229	0.8	2.31	24	380	< 0.5	< 2	2.53	< 0.5	10	75	1625	3.10	10	< 1	1.03	10	1.47	275	509
588247H	299	229	0.2	1.98	2	240	< 0.5	< 2	2.11	< 0.5	10	77	971	2.98	10	< 1	1.18	< 10	1.48	165	371

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 235
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-NOV-93
Invoice No. :I9324320
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324320

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
588208H	299	229	0.07	5	1380	< 2	< 2	20	41	0.21	< 10	< 10	156	< 10	48
588209H	299	229	0.03	4	1100	4	2	18	103	0.15	< 10	< 10	130	< 10	54
588210H	299	229	0.01	4	1150	6	4	13	55	0.02	< 10	< 10	81	< 10	36
588211H	299	229	0.01	10	820	6	8	13	39	0.04	< 10	< 10	82	< 10	52
588212H	299	229	0.01	10	450	50	4	8	47	0.03	< 10	< 10	43	< 10	496
588213H	299	229	0.01	28	500	< 2	< 2	14	64	0.11	< 10	< 10	88	< 10	56
588214H	299	229	0.02	19	1120	12	4	7	77	< 0.01	< 10	< 10	36	< 10	70
588215H	299	229	0.02	14	1840	12	< 2	11	121	0.01	< 10	< 10	51	< 10	118
588216H	299	229	0.02	3	1140	18	12	13	81	0.04	< 10	< 10	81	< 10	90
588217H	299	229	0.03	2	1130	4	< 2	15	250	0.09	< 10	< 10	104	< 10	56
588218H	299	229	0.01	2	960	776	2	9	135	0.03	< 10	< 10	49	< 10	2270
588219H	299	229	0.04	3	650	12	6	12	143	0.13	< 10	< 10	80	< 10	72
588220H	299	229	0.09	3	780	6	< 2	16	141	0.21	< 10	< 10	113	< 10	68
588221H	299	229	0.06	2	730	4	< 2	15	211	0.20	< 10	< 10	114	< 10	48
588222H	299	229	0.08	3	770	176	2	18	176	0.23	< 10	< 10	132	< 10	336
588223H	299	229	0.06	2	690	14	< 2	17	144	0.24	< 10	< 10	125	< 10	46
588224H	299	229	0.08	6	580	4	< 2	16	90	0.20	< 10	< 10	100	< 10	32
588225H	299	229	0.03	6	390	42	< 2	7	77	0.06	< 10	< 10	46	< 10	134
588226H	299	229	0.13	9	520	24	4	12	208	0.13	< 10	< 10	81	< 10	50
588227H	299	229	0.01	4	400	36	14	6	26	< 0.01	< 10	< 10	22	< 10	64
588228H	299	229	0.01	5	410	432	54	6	23	< 0.01	< 10	< 10	15	< 10	1005
588229H	299	229	0.03	4	690	356	10	14	96	0.06	< 10	< 10	66	< 10	456
588230H	299	229	0.08	4	610	6	< 2	15	146	0.16	< 10	< 10	87	< 10	26
588231H	299	229	0.04	7	450	1770	6	9	109	0.09	< 10	< 10	63	< 10	2230
588232H	299	229	0.07	7	390	14	< 2	8	61	0.10	< 10	< 10	60	< 10	72
588233H	299	229	0.01	3	220	70	12	1	30	< 0.01	< 10	< 10	6	< 10	152
588234H	299	229	0.02	2	170	30	8	2	48	< 0.01	< 10	< 10	8	< 10	84
588235H	299	229	0.03	2	380	8	< 2	6	71	0.03	< 10	< 10	38	< 10	26
588236H	299	229	0.05	3	350	42	2	2	99	< 0.01	< 10	< 10	17	< 10	76
588237H	299	229	0.04	2	520	8	2	6	65	0.03	< 10	< 10	39	< 10	22
588238H	299	229	0.07	3	540	94	2	5	113	0.03	< 10	< 10	42	< 10	160
588239H	299	229	0.03	3	540	6	2	4	139	0.01	< 10	< 10	33	< 10	28
588240H	299	229	0.07	3	560	10	4	6	160	0.03	< 10	< 10	39	< 10	56
588241H	299	229	0.04	3	560	26	2	5	122	0.02	< 10	< 10	34	< 10	42
588242H	299	229	0.01	3	490	502	26	2	31	< 0.01	< 10	< 10	10	< 10	1050
588243H	299	229	0.01	4	640	356	34	6	58	< 0.01	< 10	< 10	14	< 10	592
588244H	299	229	0.03	3	490	106	12	7	111	< 0.01	< 10	< 10	27	< 10	140
588245H	299	229	0.03	2	350	20	6	6	151	0.02	< 10	< 10	27	< 10	36
588246H	299	229	0.06	3	1160	12	8	16	241	0.17	< 10	< 10	109	< 10	56
588247H	299	229	0.10	2	830	< 2	< 2	15	118	0.19	< 10	< 10	112	< 10	32

CERTIFICATION:_____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 235
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-NOV-93
Invoice No. :19324320
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324320

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
588248H	299	229	0.8	2.15	< 2	380	< 0.5	< 2	1.46	< 0.5	12	72	2900	2.63	10	< 1	1.05	10	1.42	160	250
588249H	299	229	0.4	1.86	4	280	< 0.5	< 2	1.35	< 0.5	11	78	1720	2.42	< 10	< 1	0.90	10	1.29	180	459
588250H	299	229	0.2	1.53	4	160	< 0.5	< 2	0.97	< 0.5	5	155	1200	1.52	< 10	< 1	0.77	20	1.13	125	758
588251H	299	229	0.6	1.52	< 2	200	< 0.5	< 2	1.01	< 0.5	7	118	939	1.86	10	< 1	0.68	10	1.15	145	221
588252H	299	229	0.4	1.52	4	230	< 0.5	2	1.24	< 0.5	6	181	866	1.22	10	< 1	0.53	20	0.82	115	379
588253H	299	229	0.4	1.24	6	260	< 0.5	2	1.25	< 0.5	3	124	1140	0.92	< 10	< 1	0.38	20	0.69	105	192
588254H	299	229	0.4	1.55	2	320	< 0.5	2	1.43	< 0.5	5	167	919	1.02	10	< 1	0.40	10	0.68	125	338
588255H	299	229	0.4	1.59	6	320	< 0.5	2	1.89	< 0.5	4	124	1115	1.09	< 10	< 1	0.38	10	0.57	120	263
588256H	299	229	< 0.2	1.79	2	740	< 0.5	2	2.28	< 0.5	6	130	1090	1.53	10	< 1	0.45	10	0.78	215	152
588257H	299	229	0.2	1.14	4	200	< 0.5	2	1.40	< 0.5	3	126	573	0.98	< 10	< 1	0.40	20	0.67	120	656
588258H	299	229	0.2	2.11	8	390	< 0.5	< 2	2.00	< 0.5	7	109	768	2.60	10	< 1	0.89	10	1.37	205	304
588259H	299	229	0.6	1.32	8	200	< 0.5	2	1.36	< 0.5	5	137	776	1.22	10	< 1	0.47	20	0.66	105	364
588260H	299	229	0.4	1.64	12	350	< 0.5	< 2	1.97	< 0.5	6	162	591	1.88	10	< 1	0.62	20	0.93	230	395
588261H	299	229	0.6	1.15	20	240	< 0.5	2	2.56	< 0.5	5	145	635	1.27	< 10	< 1	0.30	10	0.38	210	408
588262H	299	229	1.0	1.30	20	170	< 0.5	2	2.25	< 0.5	6	195	607	1.90	10	< 1	0.53	10	0.41	325	939
588263H	299	229	0.6	0.82	12	260	< 0.5	< 2	1.42	< 0.5	2	181	389	0.57	< 10	< 1	0.29	10	0.19	85	528
588264H	299	229	0.8	0.83	8	190	< 0.5	4	1.43	< 0.5	3	166	762	0.62	10	< 1	0.34	30	0.17	75	531
588265H	299	229	0.4	1.23	38	350	< 0.5	2	1.69	15.0	6	156	685	1.33	< 10	1	0.41	10	0.58	395	374
588266H	299	229	< 0.2	1.40	4	300	< 0.5	< 2	1.23	< 0.5	6	201	257	1.76	< 10	< 1	0.73	10	0.95	105	1045
588267H	299	229	0.6	1.45	6	300	< 0.5	< 2	2.34	< 0.5	5	142	439	1.65	10	< 1	0.54	10	0.67	160	551
588268H	299	229	< 0.2	2.05	14	290	< 0.5	< 2	2.09	0.5	6	133	598	1.61	10	< 1	0.39	30	0.60	180	353
588269H	299	229	1.0	1.00	2	440	< 0.5	< 2	1.98	< 0.5	4	126	883	0.78	< 10	< 1	0.20	20	0.34	170	870

CERTIFICATION:_____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 235
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-NOV-93
Invoice No. : I9324320
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324320

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
588248H	299	229	0.09	8	1100	6	2	14	65	0.17	< 10	10	111	< 10	30
588249H	299	229	0.07	13	890	4	4	11	40	0.15	< 10	< 10	90	< 10	34
588250H	299	229	0.08	6	500	2	10	11	41	0.10	< 10	10	71	< 10	24
588251H	299	229	0.07	6	460	4	< 2	10	40	0.10	< 10	10	71	< 10	26
588252H	299	229	0.08	4	360	6	4	7	49	0.04	< 10	10	46	< 10	20
588253H	299	229	0.09	3	310	2	4	6	52	0.02	< 10	10	35	< 10	22
588254H	299	229	0.10	4	320	6	2	5	64	0.02	< 10	20	32	< 10	22
588255H	299	229	0.06	2	310	6	6	3	86	< 0.01	< 10	20	21	< 10	18
588256H	299	229	0.06	4	430	6	2	8	182	0.02	< 10	10	44	< 10	24
588257H	299	229	0.06	3	360	6	8	5	57	0.02	< 10	10	29	< 10	20
588258H	299	229	0.08	3	810	4	4	13	58	0.14	< 10	10	100	< 10	36
588259H	299	229	0.07	4	380	4	4	7	53	0.04	< 10	20	40	< 10	22
588260H	299	229	0.07	4	480	6	6	10	56	0.06	< 10	10	54	< 10	34
588261H	299	229	0.05	3	300	12	4	3	116	< 0.01	< 10	10	12	< 10	26
588262H	299	229	0.05	4	340	22	12	4	146	0.01	< 10	20	18	< 10	46
588263H	299	229	0.06	3	120	8	4	1	87	< 0.01	< 10	20	2	< 10	16
588264H	299	229	0.07	3	150	12	6	1	69	< 0.01	< 10	20	2	< 10	16
588265H	299	229	0.06	4	370	160	32	7	78	0.03	< 10	20	34	< 10	822
588266H	299	229	0.09	5	410	4	10	10	107	0.11	< 10	20	54	< 10	22
588267H	299	229	0.06	3	410	34	6	8	413	0.06	< 10	30	40	< 10	40
588268H	299	229	0.05	2	400	22	6	8	274	0.01	< 10	< 10	41	< 10	68
588269H	299	229	0.01	1	320	18	16	3	86	< 0.01	< 10	10	18	< 10	40

CERTIFICATION: _____

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Project : CASINO 236
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :3
Certificate Date: 16-NOV-93
Invoice No. :19324321
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324321

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
941517H	208 276	0.05	0.012	0.34	8620
941518H	208 276	0.07	0.012	0.45	8260
941519H	208 276	0.45	0.017	0.41	9540
941520H	208 276	0.55	0.015	0.31	8620
941521H	208 273	0.34	0.011	0.17	12900
941522H	208 276	0.56	0.047	0.41	9660
941523H	208 276	0.44	0.012	0.27	11060
941524H	208 276	0.47	0.021	0.24	10340
941525H	208 276	0.36	0.015	0.31	8780
941526H	208 276	0.39	0.015	0.24	11380
941527H	208 276	0.28	0.022	0.34	11260
941528H	208 276	0.23	0.012	0.24	10960
941529H	208 276	0.46	0.011	0.38	7500
941530H	208 276	0.21	0.020	0.24	10380
941531H	208 276	0.27	0.017	0.24	10980
941532H	208 273	0.20	0.035	0.17	12400
941533H	208 276	0.19	0.037	0.17	8080
941534H	208 274	0.31	0.159	0.38	4860
941535H	208 274	0.17	0.012	0.17	6480
941536H	208 274	0.11	0.005	0.14	6600
941537H	208 276	0.21	0.030	0.27	7860
941538H	208 276	0.18	0.027	0.21	11020
941539H	208 276	0.12	0.010	0.10	10280
941540H	208 276	0.12	0.020	0.14	8180
941541H	208 276	0.20	0.010	0.21	10500
941542H	208 273	0.27	0.029	0.24	12160
941543H	208 276	0.26	0.015	0.24	10260
941544H	208 274	0.15	0.010	0.27	7040
941545H	208 276	0.16	0.017	0.21	11560
941546H	208 276	0.17	0.009	0.17	11100
941547H	208 273	0.19	0.018	0.17	11900
941548H	208 273	0.23	0.014	0.21	13580
941549H	208 274	0.11	0.019	0.17	5140
941550H	208 273	0.18	0.018	0.21	13760
941551H	208 276	0.19	0.012	0.24	11800
941552H	208 273	0.25	0.008	0.24	13640
941553H	208 273	0.17	0.012	0.17	13600
941554H	208 273	0.24	0.018	0.24	13860
941555H	208 273	0.36	0.015	0.38	12380
941556H	208 273	0.30	0.006	0.24	13120

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ATTN: CASINO PROJECT
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 236
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-NOV-93
Invoice No. :19324321
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324321

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
941557H	208 273	0.14	0.009	0.14	13840
941558H	208 276	0.30	0.012	0.31	9020
941559H	208 273	0.33	0.008	0.27	13460
941560H	208 273	0.19	0.007	0.14	13780
941561H	208 273	0.15	0.016	0.14	13460
941562H	208 276	0.24	0.049	0.24	9740
941563H	208 276	0.09	0.007	0.10	7960
941564H	208 273	0.18	0.027	0.17	12900
941565H	208 273	0.20	0.010	0.27	14220
941566H	208 273	0.22	0.009	0.41	13960
941567H	208 273	0.17	0.019	0.21	13560
941568H	208 273	0.15	0.015	0.17	13420
941569H	208 273	0.25	0.022	0.27	13100
941570H	208 273	0.22	0.017	0.17	12900
941571H	208 273	0.15	0.008	0.27	14080
941572H	208 273	0.13	0.007	0.14	14360
941573H	208 273	0.15	0.006	0.17	13240
941574H	208 273	0.28	0.016	0.27	14040
941575H	208 273	0.18	0.005	0.14	13960
941576H	208 273	0.26	0.027	0.24	14360
941577H	208 273	0.13	0.009	0.21	13100
941578H	208 273	0.18	0.019	0.14	13720
941579H	208 273	0.20	0.014	0.21	13460
941580H	208 273	0.16	0.012	0.14	14300
941581H	208 273	0.17	0.009	0.27	13280
941582H	208 276	0.23	0.040	0.21	10460
941583H	208 273	0.11	0.016	0.10	12260
941584H	208 273	0.16	0.030	0.10	14920
941585H	208 273	0.28	0.088	0.21	14240
941586H	208 273	0.19	0.026	0.10	11860
941587H	208 273	0.38	0.025	0.34	12720
941588H	208 276	0.08	0.013	0.03	9780
941589H	208 273	0.08	0.011	0.10	12640
941590H	208 276	0.10	0.083	0.07	10260
941591H	208 273	0.22	0.062	0.14	12460
941592H	208 273	0.15	0.072	0.17	13220
941593H	208 273	0.08	0.023	0.10	12420
941594H	208 276	0.07	0.041	0.07	11520
941595H	208 273	0.06	0.052	0.07	12540
941596H	208 276	0.12	0.032	0.10	11800

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 236
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 16-NOV-93
Invoice No. :19324321
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324321

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
941597H	208	273	0.11	0.023	0.14	12900
941598H	208	273	0.20	0.039	0.17	13160
941599H	208	276	0.24	0.020	0.17	8220
941600H	208	274	0.14	0.091	0.14	6560
941601H	208	274	0.10	0.066	0.10	7040
941602H	208	273	0.18	0.013	0.17	12540
941603H	208	273	0.20	0.086	0.17	12140
941604H	208	273	0.36	0.080	0.21	12640
941605H	208	273	0.34	0.118	0.38	12480
941606H	208	273	0.23	0.030	0.21	12860
941607H	208	273	0.18	0.027	0.10	12340
941608H	208	276	0.15	0.028	0.14	11560
941609H	208	273	0.13	0.025	0.14	12000
941610H	208	273	0.10	0.014	0.10	12040
941611H	208	273	0.12	0.130	0.10	12340
941612H	208	273	0.11	0.055	0.10	12920
941613H	208	273	0.21	0.037	0.14	14280
941614H	208	276	0.18	0.118	0.10	10740
941615H	208	276	0.10	0.022	0.14	11460
941616H	208	273	0.07	0.021	0.03	12880
941617H	208	273	0.07	0.111	0.07	12900
941618H	208	273	0.17	0.027	0.10	12540
941619H	208	273	0.12	0.028	0.10	12200
941620H	208	276	0.08	0.109	0.07	11360
941621H	208	276	0.08	0.013	0.10	11500

CERTIFICATION: A. Chretien

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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Project : CASINO 236
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Total Pages :3
Certificate Date: 13-NOV-93
Invoice No. :I9324322
P.O. Number :
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CERTIFICATE OF ANALYSIS A9324322

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
941517H	299	229	0.4	3.31	10	390	< 0.5	< 2	0.13	< 0.5	4	80	510	2.84	10	< 1	0.39	30	0.98	125	72
941518H	299	229	7.0	1.97	30	580	< 0.5	22	0.10	< 0.5	4	63	657	2.82	< 10	< 1	0.47	30	0.51	70	70
941519H	299	229	1.6	1.93	10	410	< 0.5	8	0.28	< 0.5	11	45	4390	1.82	< 10	< 1	0.49	30	0.90	70	90
941520H	299	229	0.6	2.14	14	150	< 0.5	4	0.48	< 0.5	15	47	5770	2.36	< 10	< 1	0.44	30	1.32	110	89
941521H	299	229	0.4	2.11	12	340	< 0.5	4	0.38	< 0.5	19	69	3470	2.69	10	< 1	0.56	20	1.06	95	61
941522H	299	229	3.4	1.13	20	260	< 0.5	6	0.23	1.0	13	71	6200	1.11	< 10	< 1	0.32	20	0.15	20	295
941523H	299	229	2.8	1.29	24	240	< 0.5	6	0.33	4.0	13	65	4490	1.32	< 10	< 1	0.31	30	0.24	45	60
941524H	299	229	2.6	1.73	2	400	< 0.5	6	0.38	1.5	13	87	4890	1.40	< 10	< 1	0.48	30	0.44	65	118
941525H	299	229	1.2	1.76	14	370	< 0.5	4	0.65	3.0	17	92	3900	1.92	< 10	< 1	0.43	30	0.44	235	83
941526H	299	229	1.8	1.67	12	310	< 0.5	22	0.33	4.0	16	110	3970	2.29	< 10	< 1	0.47	30	0.67	160	78
941527H	299	229	2.0	1.44	54	120	< 0.5	4	1.27	6.5	18	95	2840	3.11	< 10	< 1	0.39	30	0.49	370	118
941528H	299	229	1.4	1.24	24	180	< 0.5	< 2	2.52	1.5	18	103	2330	2.75	< 10	< 1	0.35	20	0.44	465	66
941529H	299	229	3.4	1.00	38	40	< 0.5	4	0.23	2.0	16	83	5140	2.17	< 10	< 1	0.23	50	0.06	30	61
941530H	299	229	0.6	0.47	10	30	< 0.5	2	0.14	1.0	8	62	1185	0.99	< 10	< 1	0.08	10	0.06	185	61
941531H	299	229	0.8	0.61	10	160	< 0.5	2	0.21	3.0	15	98	2730	1.47	< 10	< 1	0.13	30	0.08	180	101
941532H	299	229	0.4	1.42	< 2	250	< 0.5	2	1.78	< 0.5	13	93	1930	1.79	< 10	< 1	0.51	10	0.87	190	189
941533H	299	229	1.4	1.49	8	320	< 0.5	< 2	2.23	5.0	13	81	1865	2.30	< 10	< 1	0.55	< 10	1.03	290	211
941534H	299	229	3.8	1.43	46	120	< 0.5	22	1.37	1.5	12	108	3130	2.37	< 10	< 1	0.41	10	0.64	135	903
941535H	299	229	0.2	1.95	8	320	< 0.5	< 2	1.63	< 0.5	10	75	1765	2.10	< 10	< 1	0.60	10	1.07	150	73
941536H	299	229	< 0.2	1.93	< 2	580	< 0.5	< 2	0.86	< 0.5	10	126	1100	2.79	< 10	< 1	0.79	10	1.21	135	35
941537H	299	229	0.8	1.58	< 2	400	< 0.5	2	0.82	0.5	12	94	2060	2.34	< 10	< 1	0.56	10	0.83	135	176
941538H	299	229	0.6	1.21	14	510	< 0.5	< 2	1.07	0.5	11	143	1780	1.55	< 10	< 1	0.33	20	0.27	255	149
941539H	299	229	0.8	0.57	6	250	< 0.5	< 2	0.63	0.5	8	108	1185	0.99	< 10	< 1	0.21	20	0.07	60	60
941540H	299	229	1.2	0.98	14	240	< 0.5	< 2	0.52	1.0	8	109	1220	1.36	< 10	< 1	0.22	30	0.14	110	122
941541H	299	229	0.6	2.45	4	690	< 0.5	< 2	1.60	< 0.5	13	126	1840	3.21	10	< 1	0.96	10	1.51	195	55
941542H	299	229	1.0	2.70	12	560	< 0.5	< 2	1.79	< 0.5	13	64	2600	2.96	< 10	< 1	1.08	10	1.46	165	151
941543H	299	229	1.8	1.94	6	370	< 0.5	2	1.62	2.0	11	86	2500	2.72	10	< 1	0.75	10	1.09	190	81
941544H	299	229	2.2	2.01	58	210	< 0.5	< 2	1.96	0.5	13	87	1370	3.28	< 10	< 1	0.66	10	1.21	680	54
941545H	299	229	0.8	1.79	2	310	< 0.5	< 2	1.42	< 0.5	10	118	1495	2.46	< 10	< 1	0.72	< 10	1.30	160	85
941546H	299	229	3.2	1.45	18	150	< 0.5	2	2.07	0.5	12	95	1615	2.10	< 10	< 1	0.50	< 10	1.02	260	46
941547H	299	229	1.8	0.99	12	220	< 0.5	2	1.45	0.5	12	154	2010	1.54	< 10	< 1	0.35	30	0.47	145	114
941548H	299	229	1.0	1.53	8	310	< 0.5	2	1.19	< 0.5	13	145	2370	2.49	< 10	< 1	0.50	20	0.81	135	82
941549H	299	229	0.6	1.08	2	170	< 0.5	2	0.80	< 0.5	11	148	1105	1.70	< 10	< 1	0.27	20	0.58	90	112
941550H	299	229	0.4	2.36	4	390	< 0.5	< 2	1.54	< 0.5	13	83	1840	2.85	< 10	< 1	0.91	10	1.52	135	102
941551H	299	229	0.6	2.25	8	310	< 0.5	< 2	1.51	1.0	15	122	1875	3.25	< 10	< 1	0.91	10	1.47	155	64
941552H	299	229	0.6	2.94	12	190	< 0.5	< 2	1.97	< 0.5	19	104	2490	3.65	< 10	< 1	1.27	< 10	1.89	150	48
941553H	299	229	0.4	2.38	4	200	< 0.5	< 2	1.85	< 0.5	15	111	1700	3.39	< 10	< 1	1.20	< 10	1.65	140	65
941554H	299	229	0.8	2.18	8	240	< 0.5	< 2	1.66	< 0.5	15	81	2530	3.60	< 10	< 1	1.35	< 10	1.83	145	104
941555H	299	229	2.0	2.05	8	190	< 0.5	< 2	2.31	< 0.5	11	108	3440	2.30	< 10	< 1	1.07	10	1.61	150	83
941556H	299	229	0.6	3.21	< 2	410	< 0.5	< 2	1.99	< 0.5	13	91	3030	3.29	< 10	< 1	1.36	< 10	2.19	165	32

CERTIFICATION:

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 236
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Certificate Date: 13-NOV-93
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CERTIFICATE OF ANALYSIS A9324322

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
941517H	299	229	0.03	3	500	18	< 2	10	16	0.05	< 10	< 10	84	< 10	66
941518H	299	229	0.03	2	550	52	2	6	88	0.01	< 10	< 10	52	< 10	54
941519H	299	229	0.02	4	800	14	2	6	41	0.01	< 10	< 10	60	< 10	60
941520H	299	229	0.03	5	1000	6	4	7	16	0.02	< 10	< 10	78	< 10	70
941521H	299	229	0.03	5	1020	8	2	8	18	0.06	< 10	< 10	79	< 10	52
941522H	299	229	0.01	6	670	30	32	4	15	< 0.01	< 10	< 10	23	< 10	118
941523H	299	229	0.01	4	670	52	12	6	18	0.01	< 10	< 10	37	< 10	238
941524H	299	229	0.03	4	650	38	< 2	8	24	0.03	< 10	< 10	53	< 10	126
941525H	299	229	0.02	7	750	62	12	10	20	0.03	< 10	< 10	63	< 10	134
941526H	299	229	0.03	6	840	76	6	10	21	0.04	< 10	< 10	70	< 10	326
941527H	299	229	0.02	5	830	64	< 2	7	27	0.01	< 10	< 10	48	< 10	180
941528H	299	229	0.02	5	620	30	2	8	40	0.01	< 10	< 10	46	< 10	118
941529H	299	229	< 0.01	6	710	84	14	6	9	< 0.01	< 10	< 10	31	< 10	202
941530H	299	229	< 0.01	2	320	14	4	5	5	< 0.01	< 10	< 10	20	< 10	40
941531H	299	229	< 0.01	5	480	28	12	5	11	< 0.01	< 10	< 10	19	< 10	60
941532H	299	229	0.03	4	450	4	< 2	8	28	0.04	< 10	< 10	58	< 10	38
941533H	299	229	0.03	3	460	166	2	8	32	0.08	< 10	< 10	63	< 10	470
941534H	299	229	0.02	6	480	148	36	6	33	0.02	< 10	< 10	35	< 10	190
941535H	299	229	0.03	4	480	4	< 2	10	32	0.07	< 10	< 10	66	< 10	40
941536H	299	229	0.10	4	480	4	< 2	12	36	0.14	< 10	< 10	86	< 10	38
941537H	299	229	0.03	4	450	6	< 2	9	31	0.08	< 10	< 10	63	< 10	34
941538H	299	229	0.01	6	400	52	4	8	32	0.01	< 10	< 10	33	< 10	124
941539H	299	229	0.01	2	190	32	10	< 1	21	< 0.01	< 10	< 10	1	< 10	50
941540H	299	229	0.01	3	470	20	14	4	16	< 0.01	< 10	< 10	19	< 10	46
941541H	299	229	0.04	11	590	4	< 2	15	67	0.13	< 10	< 10	104	< 10	38
941542H	299	229	0.04	7	560	6	< 2	14	77	0.15	< 10	< 10	103	< 10	36
941543H	299	229	0.03	3	590	38	< 2	11	130	0.10	< 10	< 10	83	< 10	224
941544H	299	229	0.06	4	560	50	2	10	53	0.09	< 10	< 10	80	< 10	80
941545H	299	229	0.07	5	550	2	< 2	12	45	0.16	< 10	< 10	93	< 10	30
941546H	299	229	0.04	3	430	62	< 2	7	87	0.05	< 10	< 10	63	< 10	74
941547H	299	229	0.04	4	280	62	2	2	70	< 0.01	< 10	< 10	19	< 10	92
941548H	299	229	0.04	4	230	16	< 2	5	53	0.03	< 10	< 10	50	< 10	38
941549H	299	229	0.06	4	250	8	< 2	3	30	0.01	< 10	< 10	31	< 10	24
941550H	299	229	0.12	4	620	2	< 2	12	81	0.16	< 10	< 10	102	< 10	26
941551H	299	229	0.13	4	760	54	< 2	15	67	0.17	< 10	< 10	132	< 10	146
941552H	299	229	0.19	7	890	2	< 2	16	87	0.26	< 10	< 10	144	< 10	36
941553H	299	229	0.15	4	930	8	< 2	14	86	0.23	< 10	< 10	128	< 10	48
941554H	299	229	0.11	6	760	2	< 2	18	76	0.28	< 10	< 10	148	< 10	40
941555H	299	229	0.12	6	630	8	< 2	15	65	0.17	< 10	< 10	128	< 10	42
941556H	299	229	0.21	7	840	< 2	< 2	22	85	0.26	< 10	< 10	178	< 10	36

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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CERTIFICATE OF ANALYSIS A9324322

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
941557H	299	229	< 0.2	2.99	14	370	< 0.5	< 2	1.90	1.0	17	62	1390	4.54	< 10	< 1	1.22	< 10	2.21	340	46
941558H	299	229	< 0.2	4.01	4	180	< 0.5	< 2	3.23	< 0.5	24	48	2930	4.45	< 10	< 1	1.54	< 10	2.41	200	67
941559H	299	229	0.4	2.80	14	300	< 0.5	< 2	2.05	< 0.5	18	70	3160	3.95	< 10	< 1	1.59	< 10	2.25	180	43
941560H	299	229	2.4	1.56	32	220	< 0.5	4	2.45	5.0	12	82	1820	2.39	10	< 1	0.54	10	0.99	195	41
941561H	299	229	< 0.2	3.23	2	430	< 0.5	< 2	2.32	< 0.5	13	52	1415	3.49	< 10	< 1	1.46	< 10	2.10	190	96
941562H	299	229	0.6	1.70	8	180	< 0.5	2	1.52	< 0.5	13	69	2350	3.03	10	< 1	0.87	< 10	1.39	215	272
941563H	299	229	< 0.2	3.89	14	460	< 0.5	< 2	2.59	< 0.5	18	43	871	4.22	< 10	< 1	1.58	< 10	2.28	195	36
941564H	299	229	< 0.2	3.90	< 2	340	< 0.5	< 2	2.66	< 0.5	18	55	1785	3.80	< 10	< 1	1.29	< 10	2.01	195	135
941565H	299	229	< 0.2	3.10	12	320	< 0.5	< 2	2.13	< 0.5	14	150	2010	3.61	< 10	< 1	1.45	< 10	2.14	165	48
941566H	299	229	0.6	2.57	< 2	240	< 0.5	< 2	1.98	0.5	12	66	2010	3.07	10	< 1	1.23	< 10	1.92	170	46
941567H	299	229	0.4	1.98	< 2	230	< 0.5	< 2	1.86	< 0.5	8	144	1605	1.88	< 10	< 1	1.04	10	1.58	110	102
941568H	299	229	0.2	2.31	8	190	< 0.5	< 2	2.22	< 0.5	9	82	1535	2.66	< 10	< 1	1.19	< 10	1.74	155	81
941569H	299	229	2.2	2.04	10	110	< 0.5	20	2.09	< 0.5	9	143	2470	2.97	< 10	< 1	0.98	10	1.44	175	123
941570H	299	229	0.6	2.75	2	230	< 0.5	< 2	2.18	< 0.5	18	62	2150	3.66	10	< 1	1.08	< 10	1.93	205	91
941571H	299	229	0.2	2.53	12	180	< 0.5	< 2	2.28	< 0.5	12	128	1485	3.15	< 10	< 1	1.22	< 10	1.74	190	48
941572H	299	229	0.2	0.98	4	260	< 0.5	2	1.19	< 0.5	8	74	1260	1.61	< 10	< 1	0.40	< 10	0.68	75	37
941573H	299	229	0.4	1.70	4	350	< 0.5	< 2	1.49	< 0.5	10	157	1575	2.40	< 10	< 1	0.77	10	1.14	115	39
941574H	299	229	0.4	2.65	6	180	< 0.5	< 2	2.41	< 0.5	13	75	2860	3.38	< 10	< 1	1.25	< 10	1.83	180	106
941575H	299	229	< 0.2	4.26	8	190	< 0.5	< 2	3.31	< 0.5	18	101	1940	4.94	< 10	< 1	1.47	< 10	2.34	270	28
941576H	299	229	0.8	4.03	16	70	< 0.5	< 2	3.57	1.0	15	63	2600	4.22	< 10	< 1	1.70	< 10	2.54	250	137
941577H	299	229	< 0.2	3.63	< 2	240	< 0.5	< 2	2.96	< 0.5	15	94	1255	3.89	< 10	< 1	1.40	< 10	2.08	225	44
941578H	299	229	< 0.2	3.96	2	330	< 0.5	< 2	3.23	< 0.5	16	53	1755	3.79	< 10	< 1	1.42	< 10	2.10	225	91
941579H	299	229	0.2	4.66	20	220	< 0.5	< 2	3.49	1.0	15	88	1945	4.26	< 10	< 1	1.55	< 10	2.32	235	79
941580H	299	229	< 0.2	4.53	16	440	< 0.5	< 2	3.48	< 0.5	14	43	1410	3.79	< 10	< 1	1.59	< 10	2.40	225	71
941581H	299	229	< 0.2	5.19	18	500	< 0.5	< 2	3.77	< 0.5	16	54	1690	4.07	< 10	< 1	1.31	< 10	2.50	315	45
941582H	299	229	0.2	4.10	4	360	< 0.5	< 2	2.98	< 0.5	15	45	2290	3.38	< 10	< 1	1.37	< 10	2.34	225	205
941583H	299	229	0.2	1.18	6	100	< 0.5	4	1.49	< 0.5	7	119	1080	1.10	< 10	< 1	0.59	10	0.63	110	96
941584H	299	229	0.4	1.33	12	230	< 0.5	4	1.88	< 0.5	10	84	1585	1.52	< 10	< 1	0.57	10	0.88	140	170
941585H	299	229	1.4	1.37	8	230	< 0.5	8	1.89	< 0.5	9	93	2870	1.55	< 10	< 1	0.56	10	0.77	170	500
941586H	299	229	0.6	3.23	18	320	< 0.5	< 2	2.12	< 0.5	12	57	1810	2.82	< 10	< 1	1.01	< 10	1.66	295	143
941587H	299	229	0.6	4.16	22	250	< 0.5	< 2	2.94	< 0.5	24	56	3770	4.03	< 10	< 1	2.01	< 10	2.59	385	125
941588H	299	229	0.4	0.63	24	480	< 0.5	2	1.24	< 0.5	4	115	794	0.74	< 10	< 1	0.34	20	0.19	130	73
941589H	299	229	0.6	0.71	12	360	< 0.5	2	1.17	< 0.5	4	125	770	0.53	< 10	< 1	0.36	20	0.09	105	65
941590H	299	229	1.6	0.39	40	130	< 0.5	2	1.12	1.0	4	107	1005	0.81	< 10	< 1	0.20	20	0.03	115	505
941591H	299	229	3.0	0.72	68	180	< 0.5	8	0.90	< 0.5	4	122	2310	0.81	< 10	< 1	0.30	40	0.06	90	383
941592H	299	229	0.6	1.61	10	280	< 0.5	4	2.19	< 0.5	10	61	1520	1.90	< 10	< 1	0.63	10	0.81	225	437
941593H	299	229	0.2	0.85	12	420	< 0.5	2	1.64	< 0.5	4	94	762	0.86	< 10	< 1	0.31	10	0.24	165	133
941594H	299	229	0.6	0.46	6	520	< 0.5	2	1.47	< 0.5	3	111	694	0.66	< 10	< 1	0.22	20	0.06	145	261
941595H	299	229	0.8	0.55	22	470	< 0.5	2	1.42	< 0.5	3	139	632	0.53	< 10	< 1	0.27	20	0.06	155	303
941596H	299	229	1.0	0.93	10	390	< 0.5	6	2.44	< 0.5	7	88	1210	1.11	< 10	< 1	0.31	10	0.37	310	187

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 236
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
941557H	299	229	0.14	8	810	72	< 2	19	78	0.24	< 10	< 10	172	10	138
941558H	299	229	0.22	8	680	2	< 2	23	115	0.27	< 10	< 10	201	10	40
941559H	299	229	0.12	8	640	12	< 2	24	69	0.25	< 10	< 10	186	< 10	48
941560H	299	229	0.08	5	480	114	< 2	11	48	0.10	< 10	< 10	86	< 10	358
941561H	299	229	0.19	6	960	< 2	< 2	21	89	0.29	< 10	< 10	176	< 10	46
941562H	299	229	0.08	5	600	6	< 2	12	36	0.20	< 10	< 10	103	< 10	46
941563H	299	229	0.27	6	710	< 2	< 2	21	221	0.35	< 10	< 10	218	10	42
941564H	299	229	0.28	7	600	2	< 2	19	215	0.32	< 10	< 10	184	< 10	40
941565H	299	229	0.22	8	650	< 2	< 2	21	153	0.32	< 10	< 10	171	< 10	36
941566H	299	229	0.15	8	590	6	< 2	20	86	0.25	< 10	< 10	143	< 10	52
941567H	299	229	0.14	5	480	4	< 2	14	64	0.17	< 10	< 10	122	< 10	30
941568H	299	229	0.13	7	420	6	< 2	18	61	0.22	< 10	< 10	136	< 10	38
941569H	299	229	0.10	6	650	8	< 2	14	41	0.16	< 10	< 10	108	< 10	62
941570H	299	229	0.14	5	1070	< 2	< 2	18	167	0.21	< 10	< 10	157	< 10	42
941571H	299	229	0.17	5	1010	26	< 2	16	117	0.27	< 10	< 10	146	< 10	40
941572H	299	229	0.08	3	430	4	< 2	4	38	0.12	< 10	< 10	59	< 10	16
941573H	299	229	0.15	5	550	4	< 2	11	54	0.18	< 10	< 10	93	< 10	22
941574H	299	229	0.16	7	750	2	< 2	19	114	0.27	< 10	< 10	163	< 10	32
941575H	299	229	0.35	7	1060	4	< 2	21	167	0.37	< 10	< 10	246	< 10	54
941576H	299	229	0.28	8	770	30	< 2	26	149	0.38	< 10	< 10	258	< 10	148
941577H	299	229	0.28	7	760	< 2	< 2	19	171	0.32	< 10	< 10	229	10	34
941578H	299	229	0.29	7	840	2	< 2	18	184	0.30	< 10	< 10	223	10	40
941579H	299	229	0.37	8	810	44	< 2	21	214	0.34	< 10	< 10	231	10	104
941580H	299	229	0.37	8	970	< 2	< 2	21	272	0.35	< 10	< 10	231	10	42
941581H	299	229	0.40	9	940	8	< 2	19	448	0.29	< 10	< 10	221	10	58
941582H	299	229	0.25	8	980	< 2	< 2	20	185	0.25	< 10	< 10	192	10	40
941583H	299	229	0.04	4	210	8	2	8	41	0.03	< 10	< 10	47	< 10	20
941584H	299	229	0.04	3	750	18	2	6	83	0.04	< 10	< 10	57	< 10	38
941585H	299	229	0.04	3	820	16	6	7	69	0.02	< 10	< 10	48	< 10	26
941586H	299	229	0.18	4	920	24	6	14	187	0.16	< 10	< 10	128	< 10	56
941587H	299	229	0.18	8	1170	6	2	24	119	0.29	< 10	< 10	209	10	60
941588H	299	229	0.03	3	230	20	2	1	51	< 0.01	< 10	< 10	11	< 10	24
941589H	299	229	0.02	2	170	16	2	< 1	42	< 0.01	< 10	< 10	2	< 10	20
941590H	299	229	0.01	2	150	110	20	< 1	24	< 0.01	< 10	< 10	< 1	< 10	98
941591H	299	229	0.02	3	290	36	28	< 1	27	< 0.01	< 10	< 10	< 1	< 10	40
941592H	299	229	0.06	3	880	6	4	7	129	0.06	< 10	< 10	51	< 10	26
941593H	299	229	0.03	2	410	16	2	2	64	< 0.01	< 10	< 10	15	< 10	20
941594H	299	229	0.02	2	150	20	4	< 1	68	< 0.01	< 10	< 10	< 1	< 10	22
941595H	299	229	0.04	2	140	34	8	< 1	41	< 0.01	< 10	< 10	< 1	< 10	30
941596H	299	229	0.03	3	440	12	2	3	87	< 0.01	< 10	< 10	23	< 10	28

CERTIFICATION: Ivan Bruckler

Chemex Labs Ltd.

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): ARCHER CATHRO & ASSOC. (1981) LTD.
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CERTIFICATE OF ANALYSIS A9324322

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
941597H	299	229	1.2	0.58	6	240	0.5	10	1.47	< 0.5	6	96	1030	1.20	< 10	< 1	0.25	10	0.26	150	150
941598H	299	229	1.4	2.57	18	230	1.0	< 2	2.35	< 0.5	12	120	1935	3.41	< 10	< 1	0.92	< 10	1.54	405	213
941599H	299	229	2.0	2.09	12	310	< 0.5	< 2	1.77	< 0.5	11	60	2270	3.31	< 10	< 1	0.55	10	1.42	440	104
941600H	299	229	0.6	2.52	4	450	< 0.5	< 2	2.38	< 0.5	9	121	1305	2.68	< 10	< 1	0.86	10	1.55	260	491
941601H	299	229	0.4	2.74	12	450	< 0.5	< 2	2.09	< 0.5	11	69	1015	3.30	< 10	< 1	0.95	10	1.66	230	358
941602H	299	229	0.4	4.35	< 2	490	1.0	< 2	2.17	< 0.5	24	99	1695	5.23	< 10	< 1	1.34	< 10	2.33	340	64
941603H	299	229	0.4	3.24	< 2	870	< 0.5	< 2	1.28	< 0.5	14	85	1955	3.51	< 10	< 1	1.76	10	2.32	195	470
941604H	299	229	0.8	3.79	8	210	< 0.5	< 2	2.09	< 0.5	23	109	3470	4.25	< 10	< 1	2.03	< 10	2.67	205	420
941605H	299	229	1.2	2.49	4	410	2.0	< 2	1.80	< 0.5	9	56	3370	2.78	< 10	< 1	1.08	< 10	1.62	150	676
941606H	299	229	0.8	2.46	2	350	0.5	< 2	1.38	< 0.5	13	157	2240	3.03	< 10	< 1	1.03	10	1.53	160	166
941607H	299	229	0.4	2.66	12	480	0.5	< 2	2.06	< 0.5	11	70	1840	3.35	< 10	< 1	1.15	< 10	1.76	170	155
941608H	299	229	0.6	3.00	4	460	0.5	< 2	2.30	< 0.5	12	125	1415	3.44	< 10	< 1	1.02	< 10	1.64	200	150
941609H	299	229	1.4	2.69	< 2	200	0.5	< 2	3.36	< 0.5	14	77	1245	3.18	< 10	< 1	0.67	< 10	1.44	225	142
941610H	299	229	0.4	2.87	2	140	1.5	< 2	2.12	< 0.5	12	189	975	3.40	10	< 1	0.44	10	1.93	325	78
941611H	299	229	0.6	2.44	2	350	< 0.5	< 2	1.37	< 0.5	8	150	1140	2.08	< 10	< 1	1.03	10	1.53	135	736
941612H	299	229	0.4	1.93	4	340	0.5	< 2	1.36	< 0.5	8	88	1000	1.90	< 10	< 1	0.92	10	1.37	110	329
941613H	299	229	0.6	3.32	< 2	530	1.0	< 2	2.30	< 0.5	14	115	1970	3.56	< 10	< 1	1.55	< 10	2.06	175	198
941614H	299	229	1.2	1.89	6	470	< 0.5	< 2	2.45	< 0.5	10	48	1765	2.16	< 10	< 1	0.70	< 10	0.98	155	673
941615H	299	229	1.8	0.78	12	140	< 0.5	8	1.71	< 0.5	3	234	939	1.95	< 10	< 1	0.40	10	0.34	345	129
941616H	299	229	1.2	0.52	16	160	0.5	2	1.67	< 0.5	3	126	655	1.17	< 10	< 1	0.26	10	0.15	155	124
941617H	299	229	0.4	2.15	2	320	< 0.5	< 2	2.70	< 0.5	10	183	719	2.01	< 10	< 1	0.72	10	0.91	255	637
941618H	299	229	0.6	2.32	12	230	0.5	< 2	2.15	< 0.5	15	151	1710	2.82	< 10	< 1	1.10	10	1.33	220	152
941619H	299	229	0.4	2.17	10	180	< 0.5	< 2	1.46	< 0.5	13	188	1265	2.43	< 10	< 1	0.79	10	1.04	155	164
941620H	299	229	0.8	0.51	12	90	< 0.5	< 2	2.25	< 0.5	4	67	803	0.90	< 10	< 1	0.17	10	0.14	185	709
941621H	299	229	0.2	1.11	6	640	< 0.5	< 2	1.40	< 0.5	8	208	885	0.91	< 10	< 1	0.22	30	0.17	65	85

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 236
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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
941597H	299	229	0.03	2	250	16	< 2	2	43	< 0.01	< 10	< 10	14	< 10	18
941598H	299	229	0.08	6	890	6	< 2	13	82	0.12	< 10	< 10	107	< 10	44
941599H	299	229	0.04	3	930	10	< 2	9	45	0.07	< 10	< 10	86	< 10	76
941600H	299	229	0.07	3	990	4	2	11	49	0.13	< 10	< 10	94	< 10	42
941601H	299	229	0.16	3	1120	2	4	13	198	0.19	< 10	< 10	116	< 10	42
941602H	299	229	0.36	6	1380	< 2	< 2	19	499	0.34	< 10	< 10	201	< 10	56
941603H	299	229	0.20	7	1220	< 2	< 2	23	532	0.37	< 10	< 10	189	< 10	34
941604H	299	229	0.26	9	1040	< 2	4	27	380	0.44	< 10	< 10	227	< 10	46
941605H	299	229	0.13	3	1160	< 2	4	14	512	0.22	< 10	< 10	119	< 10	32
941606H	299	229	0.20	3	1060	2	< 2	14	350	0.23	< 10	< 10	129	< 10	32
941607H	299	229	0.14	3	1270	2	2	16	313	0.23	< 10	< 10	148	< 10	36
941608H	299	229	0.17	6	1220	< 2	< 2	14	357	0.23	< 10	< 10	134	< 10	38
941609H	299	229	0.06	6	1000	< 2	< 2	10	145	0.05	< 10	< 10	93	< 10	48
941610H	299	229	0.04	37	560	2	< 2	10	58	0.05	< 10	< 10	79	< 10	66
941611H	299	229	0.10	10	600	2	4	16	164	0.21	< 10	< 10	104	< 10	24
941612H	299	229	0.06	10	450	2	2	13	71	0.17	< 10	< 10	94	< 10	20
941613H	299	229	0.20	3	1080	2	< 2	20	111	0.28	< 10	< 10	177	< 10	36
941614H	299	229	0.06	2	910	2	6	10	137	0.10	< 10	< 10	74	< 10	28
941615H	299	229	0.01	2	100	10	< 2	< 1	32	< 0.01	< 10	< 10	2	< 10	20
941616H	299	229	0.01	2	140	8	< 2	1	25	< 0.01	< 10	< 10	5	< 10	12
941617H	299	229	0.02	9	640	< 2	2	12	70	0.08	< 10	< 10	71	< 10	20
941618H	299	229	0.03	20	540	2	< 2	14	83	0.12	< 10	< 10	82	< 10	26
941619H	299	229	0.02	16	430	4	< 2	11	56	0.08	< 10	< 10	72	< 10	20
941620H	299	229	0.01	1	200	8	6	< 1	41	< 0.01	< 10	< 10	< 1	< 10	24
941621H	299	229	0.05	3	250	12	< 2	1	194	< 0.01	< 10	< 10	8	< 10	14

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
589487H	208	274	0.03	0.041	0.21	3560						
589488H	208	274	0.03	0.054	0.17	6280						
589489H	208	274	0.03	0.044	0.17	6440						
589490H	208	274	0.03	0.043	0.17	7700						
589491H	208	274	0.03	0.027	0.17	7020						
589492H	208	274	0.03	0.044	0.24	6200						
589493H	208	274	0.02	0.046	0.17	4740						
589494H	208	274	0.03	0.042	0.24	4920						
589495H	208	274	0.22	0.022	0.21	7580						
589496H	208	274	0.29	0.035	0.21	5480						
589497H	208	274	0.40	0.034	0.24	4460						
589498H	208	274	0.41	0.033	0.14	5360						
589499H	208	274	0.48	0.017	0.21	4700						
589500H	208	274	0.20	0.040	0.07	6880						
941001H	208	274	0.35	0.036	0.10	4880						
941002H	208	274	0.51	0.023	0.17	5760						
941003H	208	274	0.55	0.047	0.17	6540						
941004H	208	274	0.21	0.023	0.14	7660						
941005H	208	274	0.44	0.123	0.17	6400						
941006H	208	274	0.42	0.503	0.14	5560						
941007H	208	274	0.32	0.027	0.24	7500						
941008H	208	274	0.24	0.027	0.17	4300						
941009H	208	274	0.21	0.012	0.17	8940						
941010H	208	274	0.22	0.016	0.17	10960						
941011H	208	274	0.20	0.029	0.17	9560						
941012H	208	274	0.24	0.017	0.14	8320						
941013H	208	274	0.16	0.131	0.14	11840						
941014H	208	274	0.16	0.255	0.21	6620						
941015H	208	274	0.15	0.082	0.17	10780						
941016H	208	274	0.11	0.056	0.14	11780						
941017H	208	274	0.08	0.160	0.10	11340						
941018H	208	274	0.15	0.051	0.17	11360						
941019H	208	274	0.20	0.174	0.14	3220						
941020H	208	274	0.15	0.070	0.17	11540						
941021H	208	274	0.10	0.102	0.10	10400						
941022H	208	274	0.18	0.070	0.14	10080						
941023H	208	274	0.16	0.055	0.17	5140						
941024H	208	274	0.11	0.044	0.10	11640						
941025H	208	274	0.08	0.009	0.10	7260						
941026H	208	274	0.12	0.022	0.14	12320						

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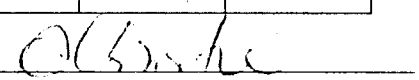
SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
941027H	208	274	0.11	0.047	0.14	10400						
941028H	208	274	0.10	0.058	0.10	11560						
941029H	208	274	0.09	0.050	0.10	13030						
941030H	208	274	0.08	0.038	0.10	13500						
941031H	208	274	0.04	0.098	0.03	10920						
941032H	208	274	0.14	0.022	0.17	12900						
941033H	208	274	0.13	0.108	0.14	12940						
941034H	208	274	0.13	0.107	0.10	13260						
941035H	208	274	0.11	0.083	0.07	12680						
941036H	208	274	0.12	0.071	0.14	11940						
941037H	208	274	0.07	0.044	0.10	13360						
941038H	208	274	0.09	0.051	0.03	12060						
941039H	208	274	0.10	0.046	0.07	11580						
941040H	208	274	0.15	0.042	0.10	11360						
941041H	208	274	0.13	0.024	0.10	13100						
941042H	208	274	0.14	0.098	0.07	11820						
941043H	208	274	0.13	0.096	0.07	13860						
941044H	208	274	0.10	0.051	0.07	12000						
941045H	208	274	0.17	0.049	0.14	13200						
941046H	208	274	0.11	0.084	0.34	12420						
941047H	208	274	0.09	0.052	0.17	15020						
941048H	208	274	0.15	0.050	0.21	14120						
941049H	208	274	0.15	0.052	0.17	13000						
941050H	208	274	0.15	0.050	0.14	12680						
941051H	208	274	0.12	0.053	0.10	13100						
941052H	208	274	0.12	0.063	0.10	13700						
941053H	208	274	0.13	0.039	0.07	12360						
941054H	208	274	0.13	0.023	0.14	13560						
941055H	208	274	0.10	0.088	0.10	12480						
941056H	208	274	0.06	0.047	0.10	13160						
941057H	208	274	0.08	0.036	0.10	12740						
941058H	208	274	0.13	0.037	0.14	12760						
941059H	208	274	0.10	0.065	0.14	9460						
941060H	208	274	0.07	0.058	0.10	7380						
941061H	208	274	0.12	0.124	0.17	11720						
941062H	208	274	0.16	0.039	0.17	9160						
941063H	208	274	0.19	0.055	0.27	5160						

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 237
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :2
Certificate Date: 13-NOV-93
Invoice No. :I9324324
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324324

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
589487H	299	229	0.8	2.53	6	230	< 0.5	< 2	0.07	< 0.5	1	65	309	2.09	< 10	< 1	0.30	< 10	0.18	15	245
589488H	299	229	1.0	1.21	16	180	< 0.5	< 2	0.03	< 0.5	1	55	341	2.70	< 10	< 1	0.19	< 10	0.17	10	328
589489H	299	229	1.0	3.33	46	360	< 0.5	< 2	0.04	< 0.5	1	55	284	3.36	< 10	< 1	0.30	10	0.42	35	261
589490H	299	229	0.8	3.61	28	440	< 0.5	< 2	0.05	< 0.5	2	36	277	2.61	< 10	< 1	0.31	10	0.58	50	257
589491H	299	229	1.4	4.33	18	590	< 0.5	< 2	0.10	< 0.5	2	39	280	2.31	< 10	< 1	0.35	10	0.81	55	166
589492H	299	229	0.8	4.26	12	560	< 0.5	< 2	0.06	< 0.5	1	27	299	2.00	< 10	< 1	0.41	10	0.85	55	273
589493H	299	229	1.2	3.80	2	550	< 0.5	< 2	0.06	< 0.5	2	28	225	1.60	< 10	< 1	0.41	< 10	0.74	50	263
589494H	299	229	1.4	3.74	< 2	600	< 0.5	< 2	0.06	< 0.5	1	28	228	1.59	< 10	< 1	0.44	< 10	0.80	60	238
589495H	299	229	0.8	3.45	< 2	410	< 0.5	< 2	0.12	< 0.5	6	34	2250	1.95	< 10	< 1	0.43	10	0.82	60	127
589496H	299	229	1.4	3.04	< 2	310	< 0.5	< 2	0.06	< 0.5	7	27	3270	1.78	< 10	< 1	0.30	20	0.65	45	218
589497H	299	229	1.6	3.12	2	380	< 0.5	< 2	0.03	< 0.5	8	38	4320	2.06	< 10	< 1	0.32	10	0.69	55	198
589498H	299	229	0.8	3.70	< 2	230	< 0.5	< 2	0.13	< 0.5	11	27	4680	1.86	< 10	< 1	0.25	10	0.67	60	202
589499H	299	229	1.0	3.87	< 2	150	< 0.5	< 2	0.11	< 0.5	10	28	5450	1.65	< 10	< 1	0.22	10	0.54	45	102
589500H	299	229	0.8	1.40	20	170	< 0.5	< 2	0.08	< 0.5	3	76	2160	2.05	< 10	< 1	0.33	10	0.16	15	246
941001H	299	229	1.4	2.34	6	110	< 0.5	< 2	0.04	< 0.5	6	65	3950	2.20	< 10	< 1	0.31	10	0.38	35	208
941002H	299	229	1.6	3.15	< 2	140	< 0.5	< 2	0.07	< 0.5	12	38	5420	1.93	< 10	< 1	0.29	10	0.65	65	129
941003H	299	229	1.6	2.73	16	180	< 0.5	< 2	0.03	< 0.5	10	45	5750	1.65	< 10	< 1	0.21	10	0.37	25	268
941004H	299	229	1.6	3.97	16	190	0.5	< 2	0.25	3.5	17	30	2350	2.78	< 10	< 1	0.61	30	1.34	155	141
941005H	299	229	1.6	3.69	4	220	< 0.5	< 2	0.09	< 0.5	11	40	4540	2.55	< 10	< 1	0.72	10	1.11	145	720
941006H	299	229	1.8	2.41	< 2	150	< 0.5	< 2	0.06	< 0.5	10	34	4550	1.72	< 10	< 1	0.39	10	0.41	40	2930
941007H	299	229	1.2	4.18	4	260	< 0.5	< 2	0.20	0.5	15	43	3270	2.91	< 10	< 1	1.19	20	1.41	155	150
941008H	299	229	1.2	3.93	2	300	< 0.5	< 2	0.19	0.5	19	18	2550	2.80	10	< 1	0.95	50	1.41	135	149
941009H	299	229	0.8	4.52	4	250	< 0.5	< 2	0.23	0.5	13	67	2110	3.61	< 10	< 1	1.25	10	1.81	170	66
941010H	299	229	0.8	4.07	< 2	260	< 0.5	< 2	0.20	1.0	15	33	2280	3.68	< 10	< 1	1.32	10	1.87	185	94
941011H	299	229	0.8	4.56	6	200	< 0.5	< 2	0.16	1.5	11	51	2070	3.66	< 10	< 1	1.24	20	1.80	210	163
941012H	299	229	1.6	4.25	< 2	150	< 0.5	< 2	0.17	4.0	11	38	2460	3.73	< 10	< 1	0.97	10	1.76	290	97
941013H	299	229	1.6	2.94	4	170	1.5	< 2	0.48	1.0	24	65	1745	4.30	< 10	< 1	0.86	20	1.09	590	719
941014H	299	229	4.2	1.85	36	150	< 0.5	< 2	0.36	46.5	17	102	1775	3.40	< 10	< 1	0.64	10	0.43	485	1450
941015H	299	229	1.4	1.92	4	250	< 0.5	< 2	0.41	1.0	18	105	1550	2.62	< 10	< 1	0.46	20	0.37	355	452
941016H	299	229	1.2	1.06	14	130	< 0.5	< 2	1.09	0.5	9	124	1190	2.24	< 10	< 1	0.42	10	0.21	190	326
941017H	299	229	1.2	0.84	< 2	140	< 0.5	< 2	2.06	0.5	6	145	843	2.20	< 10	< 1	0.38	10	0.17	160	883
941018H	299	229	1.4	1.05	4	240	< 0.5	< 2	1.85	< 0.5	9	125	1535	1.73	< 10	< 1	0.40	20	0.48	185	285
941019H	299	229	2.0	0.94	6	160	< 0.5	< 2	2.31	0.5	7	135	2010	1.82	< 10	< 1	0.40	10	0.41	130	897
941020H	299	229	1.0	1.12	6	190	< 0.5	< 2	2.80	< 0.5	9	104	1560	1.44	< 10	< 1	0.36	10	0.39	160	407
941021H	299	229	0.8	0.89	4	190	< 0.5	< 2	1.55	< 0.5	7	138	1035	1.33	< 10	< 1	0.36	10	0.30	115	567
941022H	299	229	3.4	0.81	2	120	< 0.5	< 2	2.36	0.5	9	101	1880	1.42	< 10	< 1	0.26	< 10	0.25	155	395
941023H	299	229	1.4	0.94	< 2	100	< 0.5	< 2	3.73	< 0.5	6	114	1660	1.65	< 10	< 1	0.27	< 10	0.24	260	302
941024H	299	229	0.8	1.07	2	150	< 0.5	< 2	2.38	< 0.5	8	80	1105	1.58	< 10	< 1	0.28	10	0.32	135	234
941025H	299	229	0.6	1.33	< 2	140	< 0.5	< 2	1.21	< 0.5	5	119	746	2.09	< 10	< 1	0.36	20	0.77	145	52
941026H	299	229	0.8	1.51	< 2	240	< 0.5	< 2	1.02	< 0.5	10	119	1270	2.03	< 10	< 1	0.53	20	0.88	135	123

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9324324

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
589487H	299	229	0.02	2	280	6	< 2	1	14	< 0.01	< 10	< 10	8	< 10	14
589488H	299	229	0.01	< 1	250	4	< 2	1	10	< 0.01	< 10	< 10	2	< 10	16
589489H	299	229	0.02	2	340	4	4	2	33	< 0.01	< 10	< 10	19	< 10	28
589490H	299	229	0.02	2	490	4	< 2	3	41	0.01	< 10	< 10	28	< 10	26
589491H	299	229	0.04	1	590	6	< 2	6	110	0.04	< 10	< 10	40	< 10	24
589492H	299	229	0.03	2	460	6	2	6	68	0.05	< 10	< 10	38	< 10	24
589493H	299	229	0.04	1	430	4	< 2	6	109	0.06	< 10	< 10	36	< 10	20
589494H	299	229	0.03	1	410	4	< 2	7	113	0.09	< 10	< 10	46	< 10	20
589495H	299	229	0.04	2	410	6	< 2	7	117	0.07	< 10	< 10	46	< 10	20
589496H	299	229	0.02	4	520	6	< 2	4	17	0.01	< 10	< 10	35	< 10	16
589497H	299	229	0.02	2	460	2	< 2	6	11	0.01	< 10	< 10	42	< 10	20
589498H	299	229	0.02	3	400	2	< 2	3	71	0.03	< 10	< 10	31	< 10	22
589499H	299	229	0.04	2	370	< 2	< 2	1	80	< 0.01	< 10	< 10	19	< 10	20
589500H	299	229	0.01	2	1040	4	< 2	1	9	< 0.01	< 10	< 10	8	230	8
941001H	299	229	0.02	3	440	2	< 2	1	9	< 0.01	< 10	< 10	10	10	14
941002H	299	229	0.02	3	410	2	< 2	3	13	< 0.01	< 10	< 10	26	< 10	26
941003H	299	229	0.01	2	340	2	2	1	10	< 0.01	< 10	< 10	10	< 10	18
941004H	299	229	0.02	6	1000	6	6	7	17	0.02	< 10	< 10	60	< 10	80
941005H	299	229	0.02	4	870	2	2	8	31	0.04	< 10	< 10	56	< 10	52
941006H	299	229	0.02	6	880	< 2	26	2	32	< 0.01	< 10	< 10	< 1	< 10	22
941007H	299	229	0.03	6	1390	2	< 2	10	14	0.12	< 10	< 10	91	< 10	60
941008H	299	229	0.02	4	1210	4	2	8	20	0.06	< 10	< 10	74	< 10	54
941009H	299	229	0.06	12	970	2	< 2	16	23	0.16	< 10	< 10	120	< 10	62
941010H	299	229	0.03	9	950	8	< 2	17	63	0.18	< 10	< 10	138	< 10	64
941011H	299	229	0.03	6	1060	2	2	14	31	0.13	< 10	< 10	111	< 10	68
941012H	299	229	0.02	4	1110	12	< 2	12	19	0.08	< 10	< 10	96	< 10	86
941013H	299	229	0.02	5	1070	8	6	9	20	0.07	< 10	< 10	56	< 10	146
941014H	299	229	0.01	7	860	510	38	5	13	0.02	< 10	< 10	21	< 10	1440
941015H	299	229	0.01	6	780	8	8	6	19	0.01	< 10	< 10	30	< 10	104
941016H	299	229	0.02	4	450	14	12	2	25	< 0.01	< 10	< 10	9	< 10	54
941017H	299	229	0.02	2	420	8	8	2	26	< 0.01	< 10	< 10	< 1	< 10	30
941018H	299	229	0.04	3	460	4	2	4	30	0.01	< 10	< 10	22	< 10	34
941019H	299	229	0.03	3	500	14	8	3	29	< 0.01	< 10	< 10	3	< 10	46
941020H	299	229	0.03	2	570	8	4	4	32	< 0.01	< 10	< 10	14	< 10	36
941021H	299	229	0.04	3	420	10	4	2	33	< 0.01	< 10	< 10	7	< 10	32
941022H	299	229	0.02	3	450	6	6	2	40	< 0.01	< 10	< 10	3	< 10	26
941023H	299	229	0.01	3	480	6	4	1	32	< 0.01	< 10	< 10	2	< 10	24
941024H	299	229	0.02	2	470	6	2	1	38	< 0.01	< 10	< 10	6	< 10	20
941025H	299	229	0.06	3	510	2	< 2	6	28	0.01	< 10	< 10	35	< 10	32
941026H	299	229	0.06	3	570	6	< 2	8	29	0.04	< 10	< 10	47	< 10	36

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9324324

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
941027H	299	229	1.0	1.10	2	140	< 0.5	< 2	2.30	< 0.5	6	61	930	1.85	< 10	< 1	0.30	20	0.42	135	255
941028H	299	229	0.6	1.06	4	100	< 0.5	< 2	2.17	< 0.5	8	76	937	2.68	< 10	< 1	0.42	< 10	0.33	135	313
941029H	299	229	0.6	0.78	2	170	< 0.5	< 2	1.87	< 0.5	7	84	848	1.76	< 10	< 1	0.36	10	0.34	110	309
941030H	299	229	0.6	1.48	14	90	< 0.5	< 2	1.62	< 0.5	8	90	823	3.24	< 10	< 1	0.65	20	0.53	165	221
941031H	299	229	2.2	0.66	22	100	< 0.5	< 2	0.48	0.5	3	101	429	1.96	< 10	< 1	0.42	10	0.06	80	569
941032H	299	229	3.0	0.96	22	140	< 0.5	< 2	1.44	29.0	9	69	1395	1.87	< 10	< 1	0.35	10	0.42	270	126
941033H	299	229	1.0	1.12	6	150	< 0.5	< 2	2.30	< 0.5	8	77	1300	2.16	< 10	< 1	0.39	10	0.41	165	608
941034H	299	229	5.4	0.72	84	120	< 0.5	< 2	2.16	26.0	8	81	1290	1.77	< 10	< 1	0.34	< 10	0.20	655	589
941035H	299	229	10.0	0.60	154	70	< 0.5	< 2	1.73	26.5	7	89	1120	2.65	< 10	< 1	0.34	< 10	0.14	610	479
941036H	299	229	0.8	1.01	4	130	< 0.5	< 2	2.10	0.5	7	65	1235	1.98	< 10	< 1	0.35	10	0.46	280	392
941037H	299	229	0.4	0.79	2	160	< 0.5	< 2	2.36	< 0.5	6	63	692	1.45	< 10	< 1	0.29	10	0.25	165	232
941038H	299	229	0.6	0.75	16	150	< 0.5	< 2	1.84	0.5	6	81	950	1.53	< 10	< 1	0.32	10	0.24	235	311
941039H	299	229	0.6	1.29	< 2	130	< 0.5	< 2	1.83	< 0.5	7	115	1000	2.18	< 10	< 1	0.48	10	0.55	150	284
941040H	299	229	11.8	0.75	56	120	< 0.5	< 2	1.62	22.5	11	98	1525	2.30	< 10	< 1	0.37	10	0.40	695	233
941041H	299	229	24.4	0.75	122	70	< 0.5	< 2	1.53	83.0	8	111	1275	3.12	< 10	< 1	0.37	< 10	0.34	815	135
941042H	299	229	16.8	0.60	146	70	< 0.5	< 2	2.27	37.5	8	115	1370	3.43	< 10	< 1	0.35	< 10	0.17	335	551
941043H	299	229	1.2	0.77	2	130	< 0.5	< 2	1.51	0.5	10	135	1300	2.40	< 10	< 1	0.38	10	0.24	210	565
941044H	299	229	0.8	1.00	4	140	< 0.5	< 2	1.84	< 0.5	7	128	1020	2.12	< 10	< 1	0.42	10	0.31	240	280
941045H	299	229	2.0	1.21	18	140	< 0.5	< 2	2.53	0.5	9	141	1630	2.14	< 10	< 1	0.54	10	0.70	475	265
941046H	299	229	126.0	0.41	190	10	< 0.5	< 2	3.72	>100.0	4	92	1065	6.25	< 10	< 1	0.21	< 10	0.27	660	440
941047H	299	229	64.2	0.52	170	20	< 0.5	8	2.09	66.0	6	128	864	5.19	< 10	< 1	0.32	< 10	0.19	395	284
941048H	299	229	4.0	0.98	8	70	< 0.5	6	2.70	1.0	9	103	1485	2.53	< 10	< 1	0.37	10	0.38	165	266
941049H	299	229	1.2	1.02	4	140	< 0.5	4	1.89	< 0.5	6	142	1450	1.46	< 10	< 1	0.43	10	0.50	75	282
941050H	299	229	1.2	1.39	< 2	140	< 0.5	4	1.65	< 0.5	7	126	1450	1.77	10	< 1	0.60	30	0.93	95	283
941051H	299	229	1.0	1.17	4	130	< 0.5	4	1.95	< 0.5	8	148	1165	1.54	< 10	< 1	0.51	10	0.81	95	302
941052H	299	229	0.8	0.78	6	90	< 0.5	4	2.01	< 0.5	10	135	1290	1.84	< 10	< 1	0.38	10	0.51	75	383
941053H	299	229	1.0	0.67	6	100	< 0.5	2	2.43	< 0.5	7	101	1270	1.73	< 10	< 1	0.28	< 10	0.20	190	218
941054H	299	229	16.0	0.60	28	110	< 0.5	6	4.05	9.5	7	93	1260	2.19	< 10	< 1	0.25	< 10	0.20	310	122
941055H	299	229	0.8	1.17	8	90	< 0.5	4	1.86	< 0.5	12	118	990	2.43	< 10	< 1	0.44	10	0.63	115	467
941056H	299	229	0.2	2.30	< 2	420	< 0.5	< 2	1.28	< 0.5	6	115	587	2.76	10	< 1	1.00	10	1.46	145	257
941057H	299	229	0.4	1.80	< 2	180	< 0.5	< 2	1.26	< 0.5	9	119	768	2.03	< 10	< 1	0.67	20	1.05	95	212
941058H	299	229	0.8	1.60	4	170	< 0.5	4	1.63	< 0.5	9	103	1345	2.09	< 10	< 1	0.69	10	1.12	105	211
941059H	299	229	0.4	1.53	2	170	< 0.5	2	1.20	< 0.5	8	81	978	1.91	< 10	< 1	0.63	10	1.16	90	370
941060H	299	229	0.2	1.32	4	200	< 0.5	2	1.15	< 0.5	7	86	722	1.53	< 10	< 1	0.56	10	1.06	95	344
941061H	299	229	0.2	1.66	4	200	< 0.5	< 2	0.94	< 0.5	11	82	1115	2.18	< 10	< 1	0.84	< 10	1.32	100	698
941062H	299	229	1.2	1.48	< 2	190	< 0.5	2	1.03	< 0.5	8	104	1575	1.70	< 10	< 1	0.68	10	1.18	90	221
941063H	299	229	0.8	1.42	2	170	< 0.5	4	1.25	< 0.5	9	138	1825	1.86	< 10	< 1	0.62	10	1.07	110	309

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 237
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :2
Certificate Date: 13-NOV-93
Invoice No. :I9324324
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324324

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
941027H	299	229	0.02	1	540	2	2	2	28	< 0.01	< 10	< 10	18	< 10	19
941028H	299	229	0.02	3	470	2	2	2	25	< 0.01	< 10	< 10	8	< 10	18
941029H	299	229	0.02	1	450	2	2	1	28	< 0.01	< 10	< 10	4	< 10	14
941030H	299	229	0.02	3	600	4	2	7	25	0.03	< 10	< 10	37	< 10	24
941031H	299	229	0.01	1	230	42	16	< 1	9	< 0.01	< 10	< 10	< 1	< 10	20
941032H	299	229	0.01	2	490	184	28	2	36	< 0.01	< 10	< 10	8	< 10	712
941033H	299	229	0.02	3	500	2	6	3	41	< 0.01	< 10	< 10	10	< 10	26
941034H	299	229	0.01	2	490	216	82	2	32	< 0.01	< 10	< 10	< 1	< 10	758
941035H	299	229	0.01	3	490	572	114	1	23	< 0.01	< 10	< 10	< 1	< 10	820
941036H	299	229	0.02	3	510	8	6	2	51	< 0.01	< 10	< 10	11	< 10	40
941037H	299	229	0.02	2	440	4	4	1	52	< 0.01	< 10	< 10	6	< 10	18
941038H	299	229	0.02	3	460	14	12	1	65	< 0.01	< 10	< 10	4	< 10	34
941039H	299	229	0.02	3	530	4	4	3	42	< 0.01	< 10	< 10	20	< 10	20
941040H	299	229	0.02	3	480	302	54	2	41	< 0.01	< 10	< 10	9	< 10	678
941041H	299	229	0.01	3	480	642	170	1	36	< 0.01	< 10	< 10	7	< 10	2200
941042H	299	229	0.01	3	340	212	102	1	24	< 0.01	< 10	< 10	< 1	< 10	1010
941043H	299	229	0.02	3	390	12	18	1	41	< 0.01	< 10	< 10	1	< 10	32
941044H	299	229	0.02	3	430	4	30	2	48	< 0.01	< 10	< 10	11	< 10	24
941045H	299	229	0.02	3	540	26	32	6	66	0.01	< 10	< 10	27	< 10	52
941046H	299	229	0.01	3	310	9600	750	2	36	< 0.01	< 10	< 10	1	< 10	6940
941047H	299	229	0.01	2	400	3070	316	1	17	< 0.01	< 10	< 10	2	< 10	1855
941048H	299	229	0.02	2	500	384	26	3	52	< 0.01	< 10	< 10	18	< 10	54
941049H	299	229	0.04	3	450	14	2	4	54	0.02	< 10	< 10	24	< 10	22
941050H	299	229	0.05	3	500	4	2	8	39	0.05	< 10	< 10	45	< 10	22
941051H	299	229	0.06	3	470	4	4	8	59	0.05	< 10	< 10	42	< 10	22
941052H	299	229	0.04	3	440	2	4	4	81	0.02	< 10	< 10	25	< 10	18
941053H	299	229	0.02	3	500	6	4	2	61	< 0.01	< 10	< 10	9	< 10	18
941054H	299	229	0.01	2	490	286	24	3	80	< 0.01	< 10	< 10	13	< 10	334
941055H	299	229	0.03	4	610	4	4	6	54	0.02	< 10	< 10	29	< 10	28
941056H	299	229	0.08	3	740	2	< 2	14	66	0.15	< 10	< 10	89	< 10	34
941057H	299	229	0.04	3	580	< 2	< 2	8	56	0.06	< 10	< 10	48	< 10	24
941058H	299	229	0.05	4	590	< 2	2	10	54	0.07	< 10	< 10	57	< 10	24
941059H	299	229	0.04	3	640	< 2	2	8	45	0.06	< 10	< 10	49	< 10	22
941060H	299	229	0.05	3	540	< 2	4	8	46	0.06	< 10	< 10	48	< 10	24
941061H	299	229	0.06	4	600	< 2	4	12	158	0.11	< 10	< 10	69	< 10	28
941062H	299	229	0.06	3	590	2	< 2	9	95	0.08	< 10	< 10	55	< 10	26
941063H	299	229	0.07	4	570	< 2	< 2	10	47	0.08	< 10	< 10	60	< 10	28

CERTIFICATION:

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Project : CASINO 238
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page ber :1
Total Pages :3
Certificate Date: 14-NOV-93
Invoice No. :19324327
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324327

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
567118H	208	274	0.05	0.005	0.07	11160						
567119H	208	274	0.05	0.004	0.07	12060						
567120H	208	274	0.11	0.005	0.03	11000						
567121H	208	274	0.08	0.004	0.07	5820						
567122H	208	274	0.06	0.004	0.03	12020						
567123H	208	274	0.01	0.008	0.07	8380						
567124H	208	274	0.01	0.006	0.07	9600						
567125H	208	274	0.01	0.007	0.10	14100						
567126H	208	274	0.02	0.012	0.14	11800						
567127H	208	274	0.01	0.013	0.24	11500						
567128H	208	274	0.01	0.006	0.07	11260						
567129H	208	274	0.02	0.011	0.17	11300						
567130H	208	274	0.02	0.010	0.27	11780						
567131H	208	274	0.05	0.013	0.31	13100						
567132H	208	274	0.04	0.006	0.07	9300						
567133H	208	274	0.04	0.005	0.07	13480						
567134H	208	274	0.04	0.003	0.07	8040						
567135H	208	274	0.04	0.005	0.03	11680						
567136H	208	274	0.13	0.004	< 0.03	13800						
567137H	208	274	0.21	0.012	< 0.03	6960						
567138H	208	274	0.13	0.004	< 0.03	12880						
567139H	208	274	0.14	0.006	< 0.03	11900						
567140H	208	274	0.19	0.006	0.07	9920						
567141H	208	274	0.13	0.004	0.07	11900						
567142H	208	274	0.07	0.004	0.03	11500						
567143H	208	274	0.08	0.010	0.10	11600						
567144H	208	274	0.09	0.011	< 0.03	10740						
567145H	208	274	0.07	0.004	0.07	11880						
567146H	208	274	0.07	0.006	0.07	13100						
567147H	208	274	0.08	0.009	0.07	11500						
567148H	208	274	0.10	0.012	0.07	12700						
567149H	208	274	0.18	0.011	0.14	13360						
567150H	208	274	0.11	0.010	0.10	12540						
567151H	208	274	0.04	0.007	0.07	15340						
567152H	208	274	0.04	0.005	0.07	9900						
567153H	208	274	0.02	0.001	0.03	9860						
567154H	208	274	0.05	0.002	0.07	11800						
567155H	208	274	0.02	0.002	0.72	10680						
567156H	208	274	0.02	0.010	0.34	6620						
567157H	208	274	0.12	0.027	0.62	11860						

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Project : CASINO 238
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :3
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Invoice No. :I9324327
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324327

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
567158H	208	274	0.11	0.031	0.27	11840						
567159H	208	274	0.10	0.024	0.10	8460						
567160H	208	274	0.08	0.020	0.10	8620						
567161H	208	274	0.03	0.039	< 0.03	12000						
567162H	208	274	0.03	0.004	< 0.03	11640						
567163H	208	274	0.05	0.008	< 0.03	14060						
567164H	208	274	0.03	0.003	< 0.03	12120						
567165H	208	274	0.03	0.003	< 0.03	12020						
567166H	208	274	0.05	0.008	< 0.03	12300						
567167H	208	274	0.05	0.004	0.07	10420						
567168H	208	274	0.03	0.005	0.24	13280						
567169H	208	274	0.03	0.023	0.03	11500						
567170H	208	274	0.03	0.004	0.07	11860						
567171H	208	274	0.02	0.005	0.07	12660						
567172H	208	274	0.04	0.004	0.07	12100						
567173H	208	274	0.03	0.007	0.07	11860						
567174H	208	274	0.03	0.006	0.07	12540						
567175H	208	274	0.01	0.008	0.07	9980						
567176H	208	274	0.03	0.004	0.07	12460						
567177H	208	274	0.05	0.015	0.10	10720						
567178H	208	274	0.04	0.005	0.10	12000						
567179H	208	274	0.07	0.011	0.14	11840						
567180H	208	274	0.04	0.013	0.07	11860						
567181H	208	274	0.02	0.002	0.07	15460						
567182H	208	274	0.03	0.009	< 0.03	12060						
567183H	208	274	0.03	0.006	< 0.03	12860						
567184H	208	274	0.04	0.006	< 0.03	9560						
567185H	208	274	0.05	0.011	< 0.03	13040						
567186H	208	274	0.03	0.005	< 0.03	13060						
567187H	208	274	0.02	0.005	< 0.03	12400						
567188H	208	274	0.02	0.003	0.07	12720						
567189H	208	274	0.02	0.002	0.03	11820						
567190H	208	274	0.02	0.003	0.07	12180						
567191H	208	274	0.06	0.014	0.07	12700						
567192H	208	274	0.02	0.002	< 0.03	11740						
567193H	208	274	0.02	0.005	0.03	10420						
567194H	208	274	0.02	0.003	< 0.03	13120						
567195H	208	274	0.02	0.004	< 0.03	11300						
567196H	208	274	0.11	0.012	0.14	11900						
567197H	208	274	0.03	0.005	0.03	12580						

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Project : CASINO 238
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Certificate Date: 14-NOV-93
Invoice No. : I9324327
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CERTIFICATE OF ANALYSIS A9324327

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
567198H	208	274	0.07	0.010	0.07	13540
567199H	208	274	0.02	0.004	< 0.03	12860
567200H	208	274	0.04	0.003	< 0.03	13080
567201H	208	274	0.03	0.016	< 0.03	12300
567202H	208	274	0.02	0.009	0.10	11540
567203H	208	274	0.03	0.019	0.10	12360
567204H	208	274	0.03	0.003	0.10	11760
567205H	208	274	0.04	0.007	0.07	12620
567206H	208	274	0.02	0.007	< 0.03	11880
567207H	208	274	0.02	0.006	< 0.03	13000
567208H	208	274	0.05	0.024	0.07	12240
567209H	208	274	0.02	0.015	< 0.03	12940
567210H	208	274	0.04	0.003	0.10	13460
567211H	208	274	0.02	0.009	0.07	14440
567212H	208	274	0.03	0.005	0.10	11000
567213H	208	274	0.02	0.004	0.10	10960
567214H	208	274	0.02	0.004	< 0.03	11740
567215H	208	274	0.02	0.004	< 0.03	11260
567216H	208	274	0.02	0.008	< 0.03	12020
567217H	208	274	0.09	0.006	0.07	12700
567218H	208	274	0.02	0.008	0.07	11240
567219H	208	274	0.04	0.012	0.07	12840
567220H	208	274	0.01	0.007	< 0.03	11120
567221H	208	274	0.02	0.005	< 0.03	12740
567222H	208	274	0.01	0.002	< 0.03	12640
567223H	208	274	0.01	0.001	< 0.03	12340
567224H	208	274	0.01	0.001	< 0.03	12200
567225H	208	274	0.03	0.004	0.03	13060
567226H	208	274	0.05	0.017	0.10	11920
567227H	208	274	0.02	0.001	0.07	11380
567228H	208	274	0.02	0.007	0.07	12080
567229H	208	274	0.03	0.007	0.10	11420
567230H	208	274	0.02	0.004	< 0.03	13030
567231H	208	274	0.01	0.002	< 0.03	11960
567232H	208	274	0.01	0.001	< 0.03	12020

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 238
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page . ...er : 1-A
Total Pages : 3
Certificate Date: 12-NOV-93
Invoice No. : I9324328
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324328

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567118H	299	229	0.8	1.01	20	300	< 0.5	24	0.06	0.5	2	140	491	6.31	< 10	< 1	0.68	10	0.21	25	31
567119H	299	229	0.4	1.42	24	280	< 0.5	< 2	0.06	0.5	1	207	550	6.59	< 10	< 1	0.75	10	0.41	50	27
567120H	299	229	< 0.2	2.95	18	210	< 0.5	< 2	0.03	0.5	4	100	1120	7.79	< 10	< 1	1.10	40	1.07	85	31
567121H	299	229	0.2	1.64	6	140	< 0.5	< 2	0.02	0.5	4	57	826	6.93	< 10	< 1	0.48	10	0.29	50	26
567122H	299	229	0.2	1.07	8	160	< 0.5	4	0.02	< 0.5	6	81	573	6.75	< 10	< 1	0.44	10	0.21	40	24
567123H	299	229	0.6	0.61	6	210	< 0.5	< 2	0.01	< 0.5	2	155	119	3.28	< 10	< 1	0.59	10	0.06	15	50
567124H	299	229	0.4	0.62	2	210	< 0.5	< 2	0.01	< 0.5	2	136	75	2.61	< 10	< 1	0.68	< 10	0.06	10	36
567125H	299	229	1.0	1.14	34	240	< 0.5	< 2	0.01	< 0.5	< 1	119	111	2.77	< 10	< 1	0.71	10	0.13	15	44
567126H	299	229	0.6	0.76	36	220	< 0.5	< 2	0.01	< 0.5	2	84	147	4.11	< 10	< 1	0.64	10	0.10	15	72
567127H	299	229	0.6	0.76	4	200	< 0.5	< 2	0.01	< 0.5	1	112	122	2.79	< 10	< 1	0.64	< 10	0.11	15	73
567128H	299	229	0.4	0.62	8	190	< 0.5	< 2	0.01	< 0.5	1	94	124	3.42	< 10	< 1	0.68	10	0.09	10	40
567129H	299	229	1.4	0.82	32	200	< 0.5	2	0.01	< 0.5	2	102	187	4.06	< 10	< 1	0.78	10	0.14	15	64
567130H	299	229	1.6	0.77	12	270	< 0.5	< 2	0.01	< 0.5	2	78	177	4.05	< 10	< 1	0.55	10	0.12	20	60
567131H	299	229	2.4	1.28	16	100	< 0.5	< 2	0.01	< 0.5	10	140	463	3.76	< 10	< 1	0.66	10	0.24	35	80
567132H	299	229	0.4	1.39	6	90	< 0.5	< 2	0.02	< 0.5	6	117	391	3.37	< 10	< 1	0.50	< 10	0.30	60	40
567133H	299	229	0.4	1.87	6	40	< 0.5	4	0.02	0.5	11	177	402	5.03	< 10	< 1	0.83	< 10	0.54	75	25
567134H	299	229	0.4	1.43	16	60	< 0.5	< 2	0.02	< 0.5	12	139	438	4.02	< 10	< 1	0.52	10	0.24	35	19
567135H	299	229	0.4	1.48	20	70	< 0.5	< 2	0.05	< 0.5	13	119	414	3.80	< 10	< 1	0.59	10	0.28	30	30
567136H	299	229	0.2	1.67	8	80	< 0.5	< 2	0.04	0.5	13	136	1395	3.25	< 10	< 1	0.61	10	0.30	35	24
567137H	299	229	0.4	1.51	2	60	< 0.5	4	0.07	0.5	13	118	2190	3.59	< 10	< 1	0.50	10	0.24	20	71
567138H	299	229	0.4	1.56	14	70	< 0.5	4	0.08	< 0.5	11	168	1330	3.36	< 10	< 1	0.61	< 10	0.30	40	26
567139H	299	229	0.6	1.38	10	110	< 0.5	< 2	0.09	< 0.5	10	102	1440	2.30	< 10	< 1	0.49	10	0.34	50	36
567140H	299	229	0.6	1.58	20	70	< 0.5	< 2	0.12	0.5	12	132	1980	4.49	< 10	< 1	0.62	10	0.33	55	33
567141H	299	229	0.4	1.37	12	100	< 0.5	< 2	0.13	0.5	10	80	1360	2.51	< 10	< 1	0.39	10	0.46	115	24
567142H	299	229	0.4	1.09	< 2	70	< 0.5	< 2	0.17	1.0	19	142	741	4.81	< 10	< 1	0.41	10	0.34	335	22
567143H	299	229	0.4	1.22	< 2	80	< 0.5	< 2	0.16	1.5	13	114	843	4.30	< 10	< 1	0.39	< 10	0.61	260	54
567144H	299	229	0.4	1.50	< 2	70	< 0.5	< 2	0.26	1.5	12	130	906	2.78	< 10	< 1	0.34	10	0.64	250	62
567145H	299	229	0.6	1.20	4	60	< 0.5	< 2	0.19	1.0	12	102	728	2.70	< 10	< 1	0.26	10	0.71	220	27
567146H	299	229	0.2	1.13	< 2	90	< 0.5	< 2	0.22	1.0	16	133	707	3.01	< 10	< 1	0.36	10	0.38	300	30
567147H	299	229	0.8	1.32	2	100	< 0.5	< 2	0.59	1.5	15	187	771	3.25	< 10	< 1	0.59	10	0.48	530	54
567148H	299	229	1.2	1.09	< 2	80	< 0.5	< 2	0.48	1.0	21	146	979	3.87	< 10	< 1	0.44	10	0.61	265	70
567149H	299	229	1.2	1.25	< 2	60	< 0.5	4	0.41	1.0	21	154	1800	5.28	< 10	< 1	0.52	10	0.45	400	61
567150H	299	229	0.8	1.03	2	90	< 0.5	< 2	0.30	1.0	20	128	1175	3.88	< 10	< 1	0.38	20	0.47	385	60
567151H	299	229	0.4	1.46	< 2	90	< 0.5	< 2	0.33	1.5	21	161	392	4.38	< 10	< 1	0.61	10	0.62	415	38
567152H	299	229	0.2	0.83	< 2	110	< 0.5	< 2	0.85	1.0	17	150	432	3.16	< 10	< 1	0.35	10	0.56	405	25
567153H	299	229	0.2	2.19	4	90	< 0.5	2	0.67	1.0	21	107	164	4.61	< 10	< 1	0.86	10	0.89	535	7
567154H	299	229	0.4	1.98	6	50	< 0.5	2	0.79	0.5	26	92	446	4.95	< 10	< 1	0.94	20	0.81	435	9
567155H	299	229	0.2	2.20	2	30	< 0.5	4	1.51	1.0	44	161	167	7.19	< 10	< 1	0.85	10	1.15	510	11
567156H	299	229	0.2	0.52	2	20	< 0.5	< 2	1.32	2.5	89	115	235	8.09	< 10	< 1	0.25	10	0.61	755	52
567157H	299	229	2.6	1.01	10	40	< 0.5	< 2	1.10	0.5	24	163	1180	3.88	< 10	< 1	0.35	10	0.55	375	144

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 238
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :3
Certificate Date: 12-NOV-93
Invoice No. :I9324328
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324328

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567118H	299	229	0.02	2	700	12	< 2	2	33	0.01	< 10	< 10	21	< 10	14
567119H	299	229	0.01	4	1000	20	< 2	4	52	0.03	< 10	< 10	42	< 10	18
567120H	299	229	0.01	15	1120	8	2	10	140	0.09	< 10	< 10	66	< 10	56
567121H	299	229	0.01	7	590	14	< 2	4	29	0.02	< 10	< 10	53	< 10	60
567122H	299	229	0.02	5	500	6	< 2	3	17	0.01	< 10	< 10	44	< 10	68
567123H	299	229	0.02	2	240	< 2	< 2	1	19	< 0.01	< 10	< 10	14	< 10	24
567124H	299	229	0.02	1	210	4	< 2	< 1	17	< 0.01	< 10	< 10	4	< 10	8
567125H	299	229	0.02	1	270	10	2	2	23	< 0.01	< 10	< 10	14	< 10	12
567126H	299	229	0.04	2	310	14	< 2	2	23	< 0.01	< 10	< 10	32	< 10	22
567127H	299	229	0.04	2	290	4	< 2	2	23	< 0.01	< 10	< 10	16	< 10	10
567128H	299	229	0.07	1	390	4	< 2	2	29	< 0.01	< 10	< 10	16	< 10	10
567129H	299	229	0.07	3	550	4	< 2	2	42	0.01	< 10	< 10	23	< 10	14
567130H	299	229	0.04	1	470	14	< 2	1	46	< 0.01	< 10	< 10	29	< 10	20
567131H	299	229	0.03	6	370	4	< 2	2	22	0.01	< 10	< 10	23	< 10	16
567132H	299	229	0.03	6	280	14	< 2	3	13	0.01	< 10	< 10	28	< 10	20
567133H	299	229	0.03	9	380	< 2	< 2	6	11	0.04	< 10	< 10	36	< 10	20
567134H	299	229	0.02	9	350	6	< 2	2	12	0.01	< 10	< 10	19	< 10	14
567135H	299	229	0.02	8	490	6	< 2	2	9	0.01	< 10	< 10	18	< 10	14
567136H	299	229	0.03	10	480	6	< 2	3	15	0.02	< 10	< 10	21	< 10	12
567137H	299	229	0.01	12	600	6	< 2	2	16	< 0.01	< 10	< 10	14	< 10	12
567138H	299	229	0.03	10	500	< 2	< 2	2	19	0.01	< 10	< 10	19	< 10	12
567139H	299	229	0.04	12	550	6	< 2	3	28	0.03	< 10	< 10	28	< 10	14
567140H	299	229	0.03	12	660	6	< 2	3	22	0.02	< 10	< 10	24	< 10	14
567141H	299	229	0.03	11	620	8	2	3	25	0.01	< 10	10	27	< 10	24
567142H	299	229	0.03	12	500	8	< 2	3	20	0.01	< 10	< 10	32	< 10	52
567143H	299	229	0.04	11	410	2	< 2	2	17	0.01	< 10	< 10	34	< 10	38
567144H	299	229	0.05	14	720	2	< 2	3	19	0.01	< 10	< 10	32	< 10	42
567145H	299	229	0.03	11	550	6	< 2	2	14	0.01	< 10	< 10	27	< 10	36
567146H	299	229	0.04	13	570	6	< 2	2	26	< 0.01	< 10	< 10	19	< 10	60
567147H	299	229	0.06	10	460	8	< 2	2	24	< 0.01	< 10	< 10	18	< 10	54
567148H	299	229	0.04	10	450	6	< 2	2	19	< 0.01	< 10	< 10	21	< 10	44
567149H	299	229	0.03	12	550	8	< 2	2	25	< 0.01	< 10	< 10	17	< 10	60
567150H	299	229	0.04	12	560	< 2	< 2	2	36	< 0.01	< 10	< 10	20	< 10	66
567151H	299	229	0.05	16	590	6	< 2	2	32	0.01	< 10	< 10	27	< 10	68
567152H	299	229	0.03	11	500	4	< 2	1	29	< 0.01	< 10	< 10	13	< 10	58
567153H	299	229	0.05	21	860	8	< 2	4	26	0.02	< 10	< 10	39	< 10	74
567154H	299	229	0.06	19	880	14	< 2	3	27	0.02	< 10	< 10	30	< 10	64
567155H	299	229	0.02	24	680	12	< 2	4	26	0.02	< 10	< 10	35	10	56
567156H	299	229	0.01	19	340	8	2	1	18	< 0.01	< 10	< 10	7	< 10	78
567157H	299	229	0.01	13	390	6	< 2	1	22	< 0.01	< 10	< 10	15	< 10	40

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Page Number :2-A
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Account :FC

CERTIFICATE OF ANALYSIS A9324328

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567158H	299	229	1.2	0.70	2	30	< 0.5	< 2	0.84	< 0.5	12	75	1075	2.19	< 10	< 1	0.22	10	0.37	150	167
567159H	299	229	1.0	0.73	< 2	30	< 0.5	< 2	1.16	0.5	15	89	997	2.89	< 10	< 1	0.24	10	0.51	250	129
567160H	299	229	0.8	1.01	< 2	40	< 0.5	< 2	1.40	< 0.5	10	74	777	3.45	< 10	< 1	0.32	10	0.69	205	108
567161H	299	229	0.2	0.71	2	70	< 0.5	2	1.35	< 0.5	6	94	268	2.79	< 10	< 1	0.25	10	0.73	160	222
567162H	299	229	0.2	0.70	< 2	90	< 0.5	< 2	1.42	0.5	9	69	273	2.57	< 10	< 1	0.29	10	0.60	135	20
567163H	299	229	0.4	0.82	2	60	< 0.5	< 2	1.26	< 0.5	11	88	512	3.59	< 10	< 1	0.35	10	0.69	165	37
567164H	299	229	0.2	0.82	< 2	80	< 0.5	< 2	1.47	0.5	10	84	290	2.97	< 10	< 1	0.30	10	0.68	175	16
567165H	299	229	0.2	0.87	12	80	< 0.5	< 2	0.79	0.5	25	81	355	3.35	< 10	< 1	0.37	10	0.49	275	16
567166H	299	229	0.4	0.99	< 2	70	< 0.5	< 2	0.83	1.0	18	90	485	3.50	< 10	< 1	0.36	10	0.54	250	40
567167H	299	229	0.4	0.69	2	80	< 0.5	< 2	0.93	1.0	12	64	538	2.77	< 10	< 1	0.29	10	0.59	285	16
567168H	299	229	0.4	0.62	8	80	< 0.5	< 2	1.13	< 0.5	7	88	339	3.29	< 10	< 1	0.28	10	0.54	260	34
567169H	299	229	0.2	0.63	< 2	100	< 0.5	2	1.20	< 0.5	6	98	331	2.22	< 10	< 1	0.32	10	0.53	130	113
567170H	299	229	0.2	0.96	2	70	< 0.5	< 2	0.97	< 0.5	7	83	256	2.62	< 10	< 1	0.30	10	0.63	105	19
567171H	299	229	0.2	1.00	< 2	70	< 0.5	< 2	0.94	0.5	8	90	223	2.25	< 10	< 1	0.28	10	0.70	110	30
567172H	299	229	0.6	0.95	2	70	< 0.5	2	1.05	0.5	11	98	420	2.88	< 10	< 1	0.39	10	0.63	120	26
567173H	299	229	0.4	0.88	< 2	80	< 0.5	< 2	1.34	0.5	10	90	320	2.48	< 10	< 1	0.39	10	0.56	145	44
567174H	299	229	0.4	0.69	2	90	< 0.5	2	1.20	0.5	10	92	319	2.87	< 10	< 1	0.31	10	0.63	170	34
567175H	299	229	0.2	0.88	6	80	< 0.5	< 2	0.61	0.5	15	106	151	3.48	< 10	< 1	0.34	10	0.49	260	52
567176H	299	229	0.4	1.13	< 2	80	< 0.5	4	0.82	0.5	11	85	340	3.56	< 10	< 1	0.37	10	0.65	245	27
567177H	299	229	0.6	1.10	< 2	90	< 0.5	< 2	0.73	< 0.5	11	100	572	2.87	< 10	< 1	0.36	10	0.68	220	85
567178H	299	229	0.4	0.96	< 2	80	< 0.5	< 2	0.41	0.5	16	104	454	3.79	< 10	< 1	0.46	10	0.52	270	30
567179H	299	229	0.8	1.27	2	90	< 0.5	< 2	0.45	0.5	14	105	667	3.65	< 10	< 1	0.41	10	0.57	305	66
567180H	299	229	0.4	0.90	< 2	80	< 0.5	< 2	0.85	0.5	10	104	411	3.09	< 10	< 1	0.32	10	0.64	180	77
567181H	299	229	< 0.2	1.47	8	80	< 0.5	2	1.20	0.5	15	97	229	4.43	< 10	< 1	0.78	10	1.08	235	13
567182H	299	229	< 0.2	1.08	< 2	90	< 0.5	< 2	0.99	0.5	10	122	309	3.07	< 10	< 1	0.52	< 10	0.65	140	49
567183H	299	229	0.2	1.09	6	60	< 0.5	< 2	0.41	0.5	22	150	306	4.36	< 10	< 1	0.56	10	0.52	270	38
567184H	299	229	0.2	0.81	< 2	90	< 0.5	< 2	0.54	0.5	12	168	358	3.22	< 10	< 1	0.37	< 10	0.50	405	33
567185H	299	229	11.2	0.59	30	30	< 0.5	< 2	0.80	16.0	18	66	546	3.35	< 10	< 1	0.20	< 10	0.45	735	59
567186H	299	229	0.2	0.98	< 2	60	< 0.5	4	0.86	0.5	10	133	283	3.25	< 10	< 1	0.46	10	0.64	160	23
567187H	299	229	0.2	1.08	< 2	80	< 0.5	< 2	0.36	0.5	10	150	212	3.15	< 10	< 1	0.44	10	0.66	205	28
567188H	299	229	0.2	0.88	< 2	80	< 0.5	< 2	0.55	0.5	10	157	244	3.45	< 10	< 1	0.42	10	0.64	200	19
567189H	299	229	0.2	0.95	< 2	90	< 0.5	< 2	0.66	0.5	13	189	210	3.42	< 10	< 1	0.42	10	0.60	235	9
567190H	299	229	0.2	0.98	10	60	< 0.5	< 2	2.08	0.5	13	151	233	3.07	< 10	< 1	0.29	< 10	0.99	400	14
567191H	299	229	0.6	1.17	< 2	60	< 0.5	2	1.31	0.5	12	125	640	2.79	< 10	< 1	0.34	10	0.69	240	81
567192H	299	229	0.4	1.67	2	60	< 0.5	< 2	1.07	0.5	11	146	242	4.03	< 10	< 1	0.36	10	0.70	355	16
567193H	299	229	0.2	1.83	14	60	< 0.5	< 2	0.49	1.0	21	134	264	4.21	< 10	< 1	0.40	10	0.55	300	30
567194H	299	229	< 0.2	1.56	6	110	< 0.5	< 2	0.69	< 0.5	10	152	183	2.97	< 10	< 1	0.38	10	0.65	160	17
567195H	299	229	0.2	1.32	< 2	90	< 0.5	< 2	0.83	0.5	10	130	208	2.62	< 10	< 1	0.34	10	0.66	125	23
567196H	299	229	0.6	1.02	20	50	< 0.5	< 2	1.39	< 0.5	8	185	1075	3.54	< 10	< 1	0.30	10	0.53	195	60
567197H	299	229	0.4	1.12	6	70	< 0.5	< 2	1.27	< 0.5	7	140	310	3.02	< 10	< 1	0.27	10	0.45	195	26

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567158H	299	229	0.01	8	430	6	< 2	< 1	18	< 0.01	< 10	< 10	7	10	20
567159H	299	229	0.01	7	420	< 2	< 2	1	20	< 0.01	< 10	< 10	7	10	24
567160H	299	229	0.01	8	570	2	2	2	23	< 0.01	< 10	< 10	19	< 10	22
567161H	299	229	0.02	7	450	4	2	1	29	< 0.01	< 10	< 10	21	< 10	18
567162H	299	229	0.03	8	500	6	< 2	1	30	< 0.01	< 10	< 10	15	< 10	16
567163H	299	229	0.03	11	470	8	< 2	2	27	< 0.01	< 10	< 10	18	< 10	20
567164H	299	229	0.02	8	440	< 2	< 2	1	25	< 0.01	< 10	< 10	14	< 10	18
567165H	299	229	0.02	10	470	6	< 2	1	22	< 0.01	< 10	< 10	11	10	34
567166H	299	229	0.02	10	510	2	< 2	1	30	< 0.01	< 10	< 10	12	< 10	44
567167H	299	229	0.02	9	460	4	2	1	22	< 0.01	< 10	< 10	12	< 10	36
567168H	299	229	0.03	9	450	6	< 2	1	26	< 0.01	< 10	< 10	16	< 10	26
567169H	299	229	0.03	5	430	4	< 2	1	28	< 0.01	< 10	< 10	16	< 10	16
567170H	299	229	0.03	9	500	8	< 2	2	25	< 0.01	< 10	< 10	20	< 10	16
567171H	299	229	0.03	9	500	2	< 2	2	25	0.01	< 10	< 10	22	< 10	18
567172H	299	229	0.03	8	440	4	< 2	1	18	0.01	< 10	< 10	15	< 10	18
567173H	299	229	0.03	9	500	4	< 2	1	21	0.01	< 10	< 10	18	< 10	22
567174H	299	229	0.02	9	450	4	< 2	1	24	< 0.01	< 10	< 10	18	< 10	18
567175H	299	229	0.03	10	510	6	2	1	19	< 0.01	< 10	< 10	18	< 10	36
567176H	299	229	0.03	9	550	4	< 2	1	22	< 0.01	< 10	< 10	22	< 10	34
567177H	299	229	0.04	8	480	6	< 2	1	22	< 0.01	< 10	< 10	21	< 10	30
567178H	299	229	0.03	12	460	< 2	< 2	2	17	0.01	< 10	< 10	22	< 10	36
567179H	299	229	0.04	10	550	4	< 2	2	17	0.01	< 10	< 10	23	< 10	38
567180H	299	229	0.03	8	460	< 2	< 2	2	23	0.01	< 10	< 10	29	< 10	22
567181H	299	229	0.02	14	430	4	< 2	7	23	0.05	< 10	< 10	43	< 10	28
567182H	299	229	0.03	8	340	8	2	3	23	0.03	< 10	< 10	30	< 10	16
567183H	299	229	0.03	8	380	4	< 2	2	15	0.03	< 10	< 10	28	< 10	36
567184H	299	229	0.03	10	420	4	2	2	18	0.01	< 10	< 10	21	< 10	30
567185H	299	229	0.01	8	310	470	34	1	15	< 0.01	< 10	10	12	10	996
567186H	299	229	0.03	9	440	< 2	< 2	2	22	0.02	< 10	< 10	21	< 10	24
567187H	299	229	0.04	9	380	4	< 2	2	16	0.02	< 10	< 10	25	< 10	28
567188H	299	229	0.04	11	470	2	< 2	2	22	0.02	< 10	< 10	31	< 10	26
567189H	299	229	0.04	9	390	8	< 2	2	22	0.02	< 10	< 10	30	< 10	24
567190H	299	229	0.01	9	360	< 2	2	1	26	< 0.01	< 10	< 10	17	10	24
567191H	299	229	0.01	7	360	6	2	2	21	0.01	< 10	< 10	22	10	24
567192H	299	229	0.01	11	480	16	< 2	2	17	0.01	< 10	< 10	29	< 10	38
567193H	299	229	0.01	12	450	6	< 2	2	14	0.01	< 10	< 10	23	< 10	46
567194H	299	229	0.02	8	480	4	< 2	2	21	0.01	< 10	< 10	24	< 10	22
567195H	299	229	0.02	8	480	6	< 2	2	21	0.01	< 10	< 10	22	< 10	16
567196H	299	229	0.01	9	300	6	2	2	19	< 0.01	< 10	< 10	27	< 10	16
567197H	299	229	0.01	8	350	6	< 2	2	24	< 0.01	< 10	< 10	30	< 10	20

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 238
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 12-NOV-93
Invoice No. :I9324328
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324328

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
567198H	299	229	0.6	0.92	< 2	120	< 0.5	2	0.91	0.5	10	104	688	2.52	< 10	< 1	0.40	20	0.64	135	54
567199H	299	229	0.2	0.84	8	130	< 0.5	4	1.15	< 0.5	8	111	241	2.49	< 10	< 1	0.37	10	0.59	110	24
567200H	299	229	0.4	0.71	< 2	50	< 0.5	< 2	1.67	< 0.5	6	118	404	2.49	< 10	< 1	0.25	10	0.64	160	15
567201H	299	229	0.4	0.67	6	30	< 0.5	< 2	0.91	< 0.5	11	133	342	2.08	< 10	< 1	0.24	10	0.36	215	88
567202H	299	229	0.2	0.83	2	30	< 0.5	< 2	1.72	< 0.5	8	96	179	2.16	< 10	< 1	0.25	10	0.71	170	45
567203H	299	229	0.2	0.94	< 2	100	< 0.5	< 2	1.06	0.5	8	141	342	3.04	< 10	< 1	0.32	10	0.58	155	122
567204H	299	229	0.4	0.86	6	70	< 0.5	< 2	0.49	< 0.5	8	135	289	2.85	< 10	< 1	0.33	10	0.63	170	16
567205H	299	229	0.2	1.14	4	80	< 0.5	< 2	0.52	< 0.5	9	161	365	2.45	< 10	< 1	0.45	10	0.66	170	37
567206H	299	229	0.2	1.04	2	150	< 0.5	2	0.69	< 0.5	10	120	222	2.65	< 10	< 1	0.46	10	0.70	175	41
567207H	299	229	0.2	0.92	< 2	140	< 0.5	< 2	1.17	< 0.5	9	125	223	2.54	< 10	< 1	0.39	10	0.67	120	30
567208H	299	229	0.6	0.90	8	70	< 0.5	< 2	1.25	0.5	11	109	474	2.74	< 10	< 1	0.27	10	0.55	155	126
567209H	299	229	0.2	1.25	< 2	40	< 0.5	2	1.40	0.5	5	129	172	2.67	< 10	< 1	0.23	10	0.70	100	79
567210H	299	229	0.2	0.56	< 2	40	< 0.5	< 2	2.50	< 0.5	3	111	354	1.95	< 10	< 1	0.20	< 10	1.11	135	16
567211H	299	229	0.2	1.03	2	50	< 0.5	< 2	2.28	< 0.5	8	133	210	2.53	< 10	< 1	0.35	10	0.83	105	51
567212H	299	229	0.4	0.96	2	150	< 0.5	< 2	0.95	< 0.5	7	104	307	2.54	< 10	< 1	0.44	10	0.72	115	28
567213H	299	229	0.2	0.93	2	120	< 0.5	< 2	1.03	< 0.5	6	116	199	2.75	< 10	< 1	0.40	10	0.71	115	21
567214H	299	229	< 0.2	1.46	2	130	< 0.5	2	1.00	< 0.5	6	269	166	2.85	< 10	< 1	0.56	10	0.79	135	28
567215H	299	229	0.4	1.11	< 2	90	< 0.5	< 2	1.03	0.5	7	137	190	2.47	< 10	< 1	0.39	10	0.71	130	25
567216H	299	229	0.2	1.42	< 2	80	< 0.5	2	1.76	< 0.5	6	181	246	2.10	< 10	< 1	0.44	10	0.60	125	48
567217H	299	229	1.2	1.36	4	70	< 0.5	8	1.23	0.5	7	184	899	3.77	< 10	< 1	0.50	10	0.68	120	34
567218H	299	229	0.4	1.47	6	90	< 0.5	< 2	1.35	< 0.5	6	251	228	2.96	< 10	< 1	0.47	10	0.63	105	43
567219H	299	229	0.4	1.29	< 2	100	< 0.5	< 2	1.26	< 0.5	8	221	434	2.72	< 10	< 1	0.53	10	0.68	120	68
567220H	299	229	0.2	1.64	< 2	90	< 0.5	< 2	1.10	0.5	9	259	111	2.52	< 10	< 1	0.53	10	0.60	115	43
567221H	299	229	0.2	1.53	< 2	100	< 0.5	< 2	1.16	< 0.5	9	197	178	2.44	< 10	< 1	0.58	10	0.66	90	33
567222H	299	229	< 0.2	1.43	8	70	< 0.5	2	0.37	< 0.5	18	256	86	3.30	< 10	< 1	0.74	10	0.67	85	13
567223H	299	229	< 0.2	1.24	8	70	< 0.5	< 2	0.45	< 0.5	12	190	143	2.85	< 10	< 1	0.57	10	0.77	85	11
567224H	299	229	0.2	1.22	4	80	< 0.5	< 2	0.35	< 0.5	8	123	111	2.67	< 10	< 1	0.48	10	0.88	150	6
567225H	299	229	0.2	1.18	4	70	< 0.5	< 2	0.36	< 0.5	7	117	266	2.58	< 10	< 1	0.48	< 10	0.88	140	31
567226H	299	229	0.4	1.40	< 2	90	< 0.5	2	0.37	< 0.5	10	136	485	3.27	< 10	< 1	0.71	10	0.98	180	85
567227H	299	229	0.2	1.10	< 2	70	< 0.5	4	0.47	0.5	9	122	237	3.10	< 10	< 1	0.43	10	0.77	185	13
567228H	299	229	0.4	1.02	4	80	< 0.5	< 2	0.60	0.5	8	143	191	3.05	< 10	< 1	0.51	10	0.61	195	40
567229H	299	229	0.4	1.00	8	80	< 0.5	< 2	0.37	0.5	15	123	329	2.96	< 10	< 1	0.52	10	0.61	255	41
567230H	299	229	0.2	0.99	< 2	80	< 0.5	< 2	0.48	0.5	9	151	242	3.15	< 10	< 1	0.53	10	0.54	205	22
567231H	299	229	0.2	1.02	6	60	< 0.5	< 2	0.49	1.0	19	112	119	3.52	< 10	< 1	0.44	10	0.51	260	13
567232H	299	229	0.2	1.03	< 2	80	< 0.5	< 2	0.70	0.5	9	157	138	3.14	< 10	< 1	0.46	10	0.64	250	8

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 238
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :3
Certificate Date: 12-NOV-93
Invoice No. :19324328
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324328

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
567198H	299	229	0.02	9	470	6	< 2	2	26	0.02	< 10	< 10	24	< 10	16
567199H	299	229	0.02	7	410	6	< 2	2	37	0.01	< 10	< 10	20	< 10	14
567200H	299	229	0.01	6	290	8	< 2	1	27	< 0.01	< 10	< 10	18	< 10	8
567201H	299	229	0.01	7	350	4	< 2	1	18	< 0.01	< 10	< 10	11	< 10	26
567202H	299	229	0.01	7	450	4	2	2	31	< 0.01	< 10	< 10	17	< 10	12
567203H	299	229	0.03	7	470	8	4	2	30	0.01	< 10	< 10	27	< 10	18
567204H	299	229	0.04	9	510	< 2	< 2	3	23	0.02	< 10	< 10	34	< 10	22
567205H	299	229	0.04	9	430	4	< 2	3	20	0.03	< 10	< 10	31	< 10	26
567206H	299	229	0.04	9	540	10	< 2	4	28	0.04	< 10	< 10	33	< 10	24
567207H	299	229	0.04	9	490	14	2	3	37	0.02	< 10	< 10	30	< 10	14
567208H	299	229	0.02	8	410	4	2	2	41	< 0.01	< 10	< 10	22	< 10	14
567209H	299	229	0.01	8	490	6	< 2	2	45	< 0.01	< 10	< 10	22	< 10	16
567210H	299	229	0.01	7	360	4	< 2	1	33	< 0.01	< 10	10	13	< 10	8
567211H	299	229	0.01	7	390	6	< 2	2	44	0.01	< 10	< 10	19	< 10	12
567212H	299	229	0.03	8	480	2	2	4	49	0.04	< 10	< 10	32	< 10	14
567213H	299	229	0.04	8	460	6	< 2	4	298	0.03	< 10	< 10	33	< 10	16
567214H	299	229	0.09	10	450	2	< 2	4	107	0.04	< 10	< 10	40	< 10	20
567215H	299	229	0.03	8	480	4	< 2	3	42	0.03	< 10	< 10	33	< 10	22
567216H	299	229	0.03	7	390	10	< 2	3	48	0.02	< 10	< 10	28	< 10	16
567217H	299	229	0.04	9	430	6	< 2	3	31	0.02	< 10	< 10	28	< 10	14
567218H	299	229	0.06	9	440	4	< 2	2	39	0.01	< 10	< 10	28	< 10	12
567219H	299	229	0.06	9	420	4	< 2	3	31	0.03	< 10	< 10	34	< 10	14
567220H	299	229	0.03	9	430	14	< 2	3	30	0.02	< 10	< 10	27	< 10	18
567221H	299	229	0.03	10	460	6	< 2	3	29	0.03	< 10	< 10	31	< 10	12
567222H	299	229	0.06	10	440	4	< 2	2	19	0.02	< 10	< 10	24	< 10	14
567223H	299	229	0.04	11	440	2	< 2	2	18	0.02	< 10	< 10	24	< 10	14
567224H	299	229	0.06	9	470	4	< 2	3	23	0.06	< 10	< 10	38	< 10	22
567225H	299	229	0.04	8	430	< 2	2	3	20	0.06	< 10	< 10	39	< 10	22
567226H	299	229	0.04	11	430	6	< 2	4	19	0.06	< 10	< 10	42	< 10	26
567227H	299	229	0.04	8	420	6	< 2	3	19	0.03	< 10	< 10	42	< 10	32
567228H	299	229	0.05	10	470	2	< 2	4	23	0.04	< 10	< 10	35	< 10	32
567229H	299	229	0.03	8	400	2	2	3	18	0.04	< 10	< 10	34	< 10	40
567230H	299	229	0.04	9	460	8	< 2	4	19	0.04	< 10	< 10	36	< 10	36
567231H	299	229	0.02	9	450	4	< 2	3	15	0.02	< 10	< 10	26	< 10	54
567232H	299	229	0.04	10	450	6	< 2	3	22	0.03	< 10	< 10	32	< 10	38

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 239
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 18-NOV-93
Invoice No. :I9324477
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324477

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H940692	208 276	0.16	0.116	0.21	8860
H940693	208 274	0.11	0.091	0.14	5020
H940694	208 276	0.08	0.047	0.10	7780
H940695	208 276	0.04	0.023	0.27	8500
H940696	208 274	0.02	0.066	0.24	6140
H940697	208 274	0.02	0.044	0.17	4740
H940698	208 276	0.02	0.084	0.24	7560
H940699	208 276	0.02	0.021	0.21	10520
H940700	208 276	0.02	0.049	0.17	9140
H940701	208 274	0.01	0.017	0.14	3880
H940702	208 276	0.05	0.023	0.27	7380
H940703	208 274	0.03	0.015	0.17	6040
H940704	208 274	0.27	0.019	0.24	6920
H940705	208 276	0.31	0.020	0.27	10900
H940706	208 276	0.30	0.031	0.31	9860
H940707	208 274	0.29	0.032	0.21	4920
H940708	208 276	0.34	0.044	0.17	7800
H940709	208 276	0.15	0.023	0.10	7480
H940710	208 276	0.35	0.025	0.10	11180
H940711	208 276	0.32	0.096	0.07	11620
H940712	208 276	0.33	0.015	0.10	8980
H940713	208 274	0.29	0.015	0.07	6780
H940714	208 276	0.37	0.032	0.03	9660
H940715	208 276	0.23	0.031	0.07	9220
H940716	208 274	0.17	0.007	0.10	5840
H940717	208 276	0.44	0.040	0.17	7700
H940718	208 276	0.35	0.024	0.07	8640
H940719	208 276	0.39	0.019	0.10	11120
H940720	208 276	0.13	0.029	0.14	8720
H940721	208 276	0.15	0.038	0.10	10140
H940722	208 274	0.29	0.060	0.17	3860
H940723	208 274	0.16	0.016	0.10	4860
H940724	208 276	0.14	0.044	0.14	10900
H940725	208 274	0.07	0.036	0.07	7220
H940726	208 276	0.09	0.018	0.10	7580
H940727	208 276	0.10	0.022	0.03	9860
H940728	208 276	0.14	0.038	0.10	11540
H940729	208 276	0.12	0.020	0.10	10200
H940730	208 276	0.16	0.019	0.14	9700
H940731	208 276	0.12	0.035	0.10	8000

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9324477

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H940732	208	276	0.09	0.018	0.03	9860
H940733	208	276	0.13	0.009	0.07	11300
H940734 **	208	273	0.11	0.030	0.10	11980
H940735	208	276	0.09	0.020	0.10	9080
H940736	208	276	0.10	0.016	0.07	8500
H940737	208	276	0.14	0.041	0.14	11640
H940738 **	208	276	0.15	0.021	0.24	10420
H940739 **	208	273	0.05	0.011	0.07	12180
H940740 **	208	276	0.12	0.030	0.14	10980
H940741 **	208	276	0.21	0.035	0.24	11780
H940742	208	276	0.13	0.039	0.10	10680
H940743	208	274	0.11	0.017	0.10	4760
H940744 **	208	276	0.11	0.019	0.17	10600
H940745	208	276	0.09	0.016	0.14	7600
H940746	208	273	0.12	0.017	0.24	12720
H940747	208	273	0.09	0.016	0.10	12780
H940748	208	273	0.09	0.027	0.10	12900
H940749	208	273	0.09	0.016	0.07	13000
H940750 **	208	276	0.10	0.011	0.10	11180
H940751	208	276	0.08	0.009	0.10	10740
H940752	208	274	0.09	0.014	0.14	6560
H940753	208	276	0.10	0.015	0.10	10900
H940754 **	208	274	0.14	0.014	0.14	6940
H940755	208	273	0.11	0.079	0.14	13560
H940756	208	276	0.12	0.012	0.14	11340
H940757	208	276	0.18	0.020	0.17	9860
H940758 **	208	273	0.18	0.028	0.17	12120
H940759	208	276	0.06	0.025	0.03	10520
H940760	208	273	0.06	0.013	0.07	12100
H940761	208	273	0.09	0.012	0.07	14560
H940762	208	273	0.09	0.014	0.10	13140
H940763	208	273	0.05	0.016	0.07	12580
H940764	208	273	0.09	0.012	0.10	12040
H940765	208	273	0.12	0.025	0.07	12220
H940766	208	273	0.22	0.025	0.21	12020
H940767	208	273	0.09	0.071	0.10	12160
H940768	208	276	0.06	0.019	0.07	11100
H940769	208	276	0.11	0.043	0.07	11740
H940770	208	276	0.12	0.070	0.10	11360
H940771	208	276	0.12	0.067	0.07	11460

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Page Number :3
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CERTIFICATE OF ANALYSIS A9324477

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H940772	208 273	0.04	0.017	0.03	13200
H940773	208 276	0.07	0.008	0.07	11720
H940774	208 273	0.05	0.021	0.03	12380
H940775	208 273	0.05	0.016	0.07	12180
H940776	208 273	0.07	0.019	0.07	13260
H940777	208 273	0.09	0.012	0.07	12880
H940778	208 273	0.08	0.015	0.07	12460
H940779	208 273	0.03	0.020	< 0.03	12940
H940780	208 273	0.05	0.020	0.03	12420
H940781	208 273	0.06	0.012	0.07	12980
H940782	208 273	0.06	0.011	0.07	12400
H940783	208 273	0.05	0.010	0.03	13200
H940784	208 276	0.02	0.004	< 0.03	11700
H940785	208 273	0.02	0.006	< 0.03	12860
H940786	208 273	0.04	0.010	< 0.03	12880
H940787	208 273	0.06	0.007	0.03	12560
H940788	208 273	0.17	0.024	0.21	12400
H940789	208 273	0.10	0.016	0.10	12860
H940790	208 273	0.12	0.018	0.07	12820
H940791	208 273	0.09	0.011	0.10	12600
H940792	208 273	0.06	0.013	0.07	13300
H940793	208 276	0.07	0.014	0.10	11640
H940794	208 273	0.03	0.009	0.07	12220
H940795	208 273	0.04	0.013	0.03	12660
H940796	208 273	0.07	0.009	0.07	13360
H940797	208 276	0.04	0.013	< 0.03	11800
H940798	208 276	0.06	0.123	0.14	11660
H940799	208 273	0.08	0.016	0.07	11860
H940800	208 276	0.07	0.014	0.03	11620
H940801	208 273	0.03	0.015	0.03	11900
H940802	208 276	0.03	0.014	< 0.03	11680
H940803	208 273	0.04	0.007	< 0.03	12260
H940804	208 273	0.03	0.012	0.14	12000
H940805	208 273	0.04	0.008	< 0.03	12300
H940806	208 273	0.04	0.011	< 0.03	12320
H940807	208 273	0.03	0.009	< 0.03	12180
H940808	208 273	0.04	0.033	< 0.03	13580
H940809	208 273	0.05	0.018	< 0.03	12640
H940810	208 273	0.05	0.012	< 0.03	12440
H940811	208 273	0.03	0.011	< 0.03	12380

CERTIFICATION: D.G. Stone

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 239
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324477

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H940812	208	273	0.02	0.007	< 0.03	12560
H940813	208	273	0.08	0.010	0.07	12000
H940814	208	273	0.11	0.057	0.07	13440
H940815	208	273	0.13	0.053	0.14	12140
H940816	208	276	0.09	0.094	0.10	8860

CERTIFICATION:

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Page Number :1-A
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CERTIFICATE OF ANALYSIS A9324479

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940692	299	229	0.6	2.89	< 2	430	< 0.5	< 2	0.03	< 0.5	3	32	1520	11.05	< 10	< 1	0.50	< 10	0.60	110	629
H940693	299	229	0.4	3.08	4	210	< 0.5	< 2	0.02	< 0.5	5	30	1085	7.45	< 10	< 1	0.49	< 10	0.64	90	516
H940694	299	229	0.4	2.32	12	110	< 0.5	< 2	0.02	< 0.5	3	22	766	6.00	< 10	< 1	0.34	< 10	0.40	55	279
H940695	299	229	1.6	1.64	< 2	290	< 0.5	2	0.02	< 0.5	4	41	409	3.59	< 10	< 1	0.36	< 10	0.28	35	141
H940696	299	229	2.0	1.08	< 2	110	< 0.5	2	0.02	< 0.5	2	79	178	2.30	< 10	< 1	0.38	10	0.31	35	417
H940697	299	229	1.8	1.75	< 2	320	< 0.5	2	0.02	< 0.5	2	66	189	2.39	< 10	< 1	0.65	10	0.47	40	273
H940698	299	229	2.6	1.82	< 2	250	< 0.5	2	0.02	< 0.5	1	71	160	2.08	< 10	< 1	0.63	30	0.62	60	516
H940699	299	229	1.8	2.62	< 2	250	< 0.5	< 2	0.03	< 0.5	2	54	219	2.58	< 10	< 1	0.73	20	0.86	95	132
H940700	299	229	1.8	2.06	< 2	220	< 0.5	2	0.02	< 0.5	2	49	210	2.46	< 10	< 1	0.69	30	0.75	80	295
H940701	299	229	1.4	1.34	6	190	< 0.5	4	0.01	< 0.5	1	72	157	1.72	< 10	< 1	0.41	20	0.36	50	106
H940702	299	229	2.2	3.02	< 2	260	< 0.5	< 2	0.01	< 0.5	4	49	459	3.13	< 10	< 1	0.91	20	1.03	120	138
H940703	299	229	2.2	2.55	< 2	210	< 0.5	2	0.02	< 0.5	2	54	310	2.78	< 10	< 1	0.65	10	0.70	80	91
H940704	299	229	2.8	5.56	< 2	430	< 0.5	< 2	0.05	< 0.5	11	117	2620	4.55	< 10	< 1	1.46	20	1.74	225	106
H940705	299	229	2.8	4.36	4	290	< 0.5	< 2	0.03	< 0.5	12	81	3180	3.74	< 10	< 1	1.14	10	1.28	205	117
H940706	299	229	2.6	3.08	84	160	< 0.5	26	0.02	0.5	14	115	3160	3.49	< 10	< 1	0.71	20	0.54	75	182
H940707	299	229	2.0	2.11	2	180	< 0.5	2	0.01	< 0.5	11	101	3060	2.10	< 10	< 1	0.51	20	0.22	20	199
H940708	299	229	1.8	2.60	6	120	< 0.5	2	0.02	< 0.5	11	179	3580	1.87	< 10	< 1	0.67	20	0.50	45	274
H940709	299	229	1.2	1.63	< 2	230	< 0.5	4	0.01	< 0.5	7	185	1645	1.23	< 10	< 1	0.50	30	0.13	15	147
H940710	299	229	1.2	1.93	2	140	< 0.5	< 2	0.02	< 0.5	9	107	3900	1.85	< 10	< 1	0.38	10	0.20	15	167
H940711	299	229	1.4	1.74	< 2	110	< 0.5	2	0.01	< 0.5	8	126	3470	1.68	< 10	< 1	0.48	20	0.20	15	627
H940712	299	229	1.2	1.38	< 2	100	< 0.5	2	0.01	< 0.5	9	100	3370	1.87	< 10	< 1	0.35	20	0.21	15	88
H940713	299	229	1.0	1.97	< 2	210	< 0.5	4	0.04	< 0.5	6	156	3050	1.62	< 10	< 1	0.43	10	0.20	25	98
H940714	299	229	1.2	2.00	< 2	180	< 0.5	4	0.02	< 0.5	8	148	3880	1.97	< 10	< 1	0.43	10	0.23	20	206
H940715	299	229	1.2	1.64	4	100	< 0.5	4	0.02	< 0.5	9	110	2420	2.83	< 10	< 1	0.36	20	0.16	10	193
H940716	299	229	1.2	1.90	< 2	110	< 0.5	2	0.06	1.0	12	117	1690	2.10	< 10	< 1	0.37	20	0.19	20	44
H940717	299	229	2.2	1.87	4	150	< 0.5	2	0.03	< 0.5	14	87	4740	3.60	< 10	< 1	0.51	20	0.22	30	246
H940718	299	229	1.2	2.02	< 2	180	< 0.5	2	0.02	< 0.5	10	125	3630	2.14	< 10	< 1	0.47	20	0.23	10	145
H940719	299	229	1.2	1.66	12	150	< 0.5	4	0.02	< 0.5	10	81	3920	2.74	< 10	< 1	0.47	20	0.18	15	111
H940720	299	229	1.0	1.86	< 2	130	< 0.5	2	0.13	1.5	11	113	1250	2.09	< 10	< 1	0.37	20	0.27	100	166
H940721	299	229	1.4	1.96	< 2	110	< 0.5	2	0.10	1.0	9	108	1570	1.92	< 10	< 1	0.45	20	0.30	40	228
H940722	299	229	3.2	1.78	6	140	< 0.5	6	0.07	0.5	14	86	2850	2.71	< 10	< 1	0.57	20	0.21	30	359
H940723	299	229	1.2	0.96	2	100	< 0.5	2	0.07	0.5	14	23	1640	2.41	< 10	< 1	0.22	20	0.14	20	104
H940724	299	229	0.8	0.89	< 2	130	< 0.5	< 2	0.12	0.5	13	41	1325	1.92	< 10	< 1	0.27	10	0.16	100	258
H940725	299	229	0.8	0.61	< 2	50	< 0.5	< 2	0.36	< 0.5	24	42	729	3.84	< 10	< 1	0.21	10	0.22	490	235
H940726	299	229	0.8	0.74	< 2	100	< 0.5	2	0.14	< 0.5	9	82	969	1.62	< 10	< 1	0.21	10	0.12	130	115
H940727	299	229	1.2	0.77	4	130	< 0.5	2	0.49	0.5	16	53	986	2.82	< 10	< 1	0.21	20	0.27	305	122
H940728	299	229	1.4	0.80	2	120	< 0.5	< 2	0.63	< 0.5	19	40	1400	3.24	< 10	< 1	0.25	20	0.32	305	211
H940729	299	229	1.6	0.75	< 2	90	< 0.5	2	0.47	< 0.5	16	70	1285	2.77	< 10	< 1	0.27	20	0.27	260	122
H940730	299	229	1.6	1.10	2	130	< 0.5	< 2	0.22	0.5	21	49	1605	3.39	< 10	< 1	0.36	20	0.22	350	114
H940731	299	229	1.2	0.93	< 2	180	< 0.5	2	0.09	0.5	12	80	1235	2.01	< 10	< 1	0.32	20	0.14	105	197

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940692	299	229	0.01	3	670	6	< 2	10	4	0.08	10	10	61	10	48
H940693	299	229	0.01	6	540	< 2	< 2	10	3	0.10	10	< 10	56	< 10	50
H940694	299	229	< 0.01	5	940	< 2	< 2	7	3	0.03	< 10	10	35	< 10	44
H940695	299	229	0.01	4	520	4	< 2	6	7	0.01	< 10	10	28	< 10	34
H940696	299	229	0.01	3	300	4	< 2	5	7	0.02	< 10	< 10	28	< 10	24
H940697	299	229	0.03	2	180	2	< 2	4	12	0.02	< 10	< 10	35	< 10	18
H940698	299	229	0.03	2	310	2	2	6	58	0.04	< 10	10	37	< 10	18
H940699	299	229	0.05	3	410	2	< 2	11	20	0.08	< 10	< 10	67	< 10	26
H940700	299	229	0.03	3	650	< 2	< 2	8	71	0.07	< 10	10	50	< 10	22
H940701	299	229	0.03	2	340	2	< 2	4	44	0.03	< 10	10	30	< 10	14
H940702	299	229	0.03	3	470	< 2	< 2	12	34	0.12	< 10	< 10	94	< 10	34
H940703	299	229	0.03	2	600	2	< 2	8	21	0.06	< 10	10	56	< 10	22
H940704	299	229	0.03	11	870	2	< 2	18	163	0.22	< 10	10	148	< 10	52
H940705	299	229	0.04	13	770	4	< 2	11	86	0.13	< 10	10	88	< 10	40
H940706	299	229	0.03	9	590	12	10	6	20	0.04	< 10	10	41	< 10	30
H940707	299	229	0.01	6	400	10	< 2	5	11	< 0.01	< 10	10	23	< 10	14
H940708	299	229	0.01	18	690	4	< 2	9	11	0.03	< 10	20	53	< 10	18
H940709	299	229	0.02	5	140	4	< 2	2	12	< 0.01	< 10	10	8	< 10	8
H940710	299	229	0.01	5	410	2	2	3	7	< 0.01	< 10	10	17	< 10	14
H940711	299	229	0.01	4	270	2	4	3	6	< 0.01	< 10	10	10	< 10	8
H940712	299	229	< 0.01	4	320	6	< 2	3	4	< 0.01	< 10	10	16	< 10	14
H940713	299	229	0.03	4	530	4	< 2	4	9	< 0.01	< 10	20	26	< 10	12
H940714	299	229	0.02	4	450	4	< 2	3	8	< 0.01	< 10	10	19	< 10	14
H940715	299	229	0.01	5	500	4	< 2	3	4	< 0.01	< 10	20	17	< 10	18
H940716	299	229	0.02	6	580	4	< 2	3	8	< 0.01	< 10	20	23	< 10	24
H940717	299	229	0.01	6	560	12	< 2	2	12	< 0.01	< 10	20	13	< 10	36
H940718	299	229	0.01	5	500	< 2	< 2	2	21	< 0.01	< 10	20	13	< 10	14
H940719	299	229	0.01	6	440	4	< 2	2	37	< 0.01	< 10	20	13	< 10	16
H940720	299	229	0.03	6	520	2	< 2	2	11	< 0.01	< 10	10	19	< 10	32
H940721	299	229	0.01	6	540	4	< 2	2	9	< 0.01	< 10	10	17	< 10	26
H940722	299	229	0.01	7	480	8	4	2	21	< 0.01	< 10	10	10	< 10	24
H940723	299	229	0.01	5	510	8	< 2	1	10	< 0.01	< 10	10	9	< 10	20
H940724	299	229	0.02	6	490	2	< 2	1	12	< 0.01	< 10	10	6	< 10	36
H940725	299	229	0.01	6	360	4	< 2	2	11	< 0.01	< 10	10	4	< 10	88
H940726	299	229	0.01	4	290	4	< 2	1	13	< 0.01	< 10	< 10	5	< 10	34
H940727	299	229	0.01	5	390	4	< 2	1	12	< 0.01	< 10	10	5	< 10	62
H940728	299	229	0.01	5	510	2	< 2	1	15	< 0.01	< 10	10	7	< 10	64
H940729	299	229	0.01	4	390	2	< 2	1	12	< 0.01	< 10	10	5	< 10	50
H940730	299	229	0.01	6	480	2	< 2	2	10	< 0.01	< 10	10	11	< 10	96
H940731	299	229	0.01	6	320	2	< 2	2	11	< 0.01	< 10	10	12	< 10	30

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940732	299	229	0.6	1.37	< 2	220	< 0.5	2	0.13	< 0.5	12	122	848	1.82	< 10	< 1	0.49	20	0.20	125	112
H940733	299	229	0.8	1.75	< 2	150	< 0.5	2	0.22	0.5	16	107	1265	2.98	< 10	< 1	0.57	10	0.41	215	56
H940734	299	229	1.0	1.78	< 2	140	< 0.5	< 2	0.42	< 0.5	27	91	1130	3.99	< 10	< 1	0.74	20	0.64	405	180
H940735	299	229	0.8	1.70	< 2	160	< 0.5	< 2	0.24	< 0.5	25	139	863	3.32	< 10	< 1	0.74	20	0.44	335	125
H940736	299	229	0.8	2.03	< 2	140	< 0.5	< 2	0.47	< 0.5	26	112	961	4.74	< 10	< 1	0.97	10	0.94	400	97
H940737	299	229	1.2	1.32	34	140	< 0.5	2	0.80	0.5	17	123	1425	2.81	< 10	< 1	0.56	20	0.48	575	251
H940738	299	229	1.4	2.41	< 2	120	0.5	< 2	0.33	0.5	28	112	1485	5.30	< 10	< 1	1.26	20	1.41	435	125
H940739	299	229	0.6	1.46	< 2	210	< 0.5	< 2	0.76	< 0.5	17	141	516	2.59	< 10	< 1	0.67	20	0.79	335	67
H940740	299	229	1.4	1.70	< 2	150	< 0.5	6	1.17	< 0.5	22	91	1255	3.98	< 10	< 1	0.77	10	0.93	375	187
H940741	299	229	1.8	1.71	< 2	180	< 0.5	< 2	1.41	0.5	15	112	1970	2.69	< 10	< 1	0.80	10	1.06	250	190
H940742	299	229	1.4	1.72	< 2	190	< 0.5	2	0.16	0.5	13	112	1240	2.20	< 10	< 1	0.71	20	0.61	160	235
H940743	299	229	1.2	2.18	< 2	240	< 0.5	< 2	0.19	< 0.5	13	139	1105	2.50	< 10	< 1	0.73	10	0.81	105	103
H940744	299	229	1.2	1.91	< 2	220	< 0.5	2	0.55	< 0.5	14	105	1100	2.82	< 10	< 1	0.65	20	0.73	235	109
H940745	299	229	1.2	1.24	< 2	120	< 0.5	< 2	1.91	< 0.5	16	75	874	3.56	< 10	< 1	0.53	20	0.63	200	93
H940746	299	229	1.2	1.77	< 2	220	< 0.5	< 2	2.27	< 0.5	13	93	1115	2.93	< 10	< 1	0.59	10	0.78	230	96
H940747	299	229	1.2	1.24	< 2	140	< 0.5	2	1.70	< 0.5	10	93	844	2.15	< 10	< 1	0.44	20	0.48	160	93
H940748	299	229	1.0	1.02	< 2	150	< 0.5	2	1.07	< 0.5	12	132	902	2.28	< 10	< 1	0.46	20	0.41	165	157
H940749	299	229	1.0	1.69	< 2	220	< 0.5	< 2	1.49	< 0.5	12	96	828	3.20	< 10	< 1	0.70	20	0.92	220	101
H940750	299	229	1.0	2.03	< 2	210	0.5	< 2	0.59	< 0.5	17	119	1030	3.79	< 10	< 1	0.72	20	1.02	260	72
H940751	299	229	0.6	1.80	< 2	170	< 0.5	< 2	0.24	< 0.5	12	99	745	3.01	< 10	< 1	0.52	10	1.02	105	58
H940752	299	229	0.8	1.95	< 2	140	< 0.5	< 2	0.29	< 0.5	11	99	835	3.57	< 10	< 1	0.50	10	1.17	140	86
H940753	299	229	0.8	1.60	< 2	150	< 0.5	< 2	0.22	< 0.5	12	105	1020	2.91	< 10	< 1	0.45	10	1.01	115	102
H940754	299	229	1.4	1.68	< 2	150	< 0.5	< 2	0.25	< 0.5	8	103	1140	2.61	< 10	< 1	0.70	10	1.18	135	70
H940755	299	229	1.0	2.64	< 2	190	< 0.5	< 2	0.82	< 0.5	19	118	1080	4.43	< 10	< 1	1.22	10	1.84	250	443
H940756	299	229	1.2	1.61	< 2	210	< 0.5	2	0.22	< 0.5	10	120	1140	2.27	< 10	< 1	0.54	10	0.93	125	72
H940757	299	229	1.8	2.16	< 2	400	< 0.5	< 2	0.26	< 0.5	12	95	1705	3.30	< 10	< 1	0.90	10	1.45	155	120
H940758	299	229	1.6	1.46	4	320	< 0.5	4	0.50	< 0.5	13	98	1735	2.00	< 10	< 1	0.70	20	0.76	125	160
H940759	299	229	0.6	0.70	2	240	< 0.5	2	1.55	< 0.5	8	83	600	1.33	< 10	< 1	0.29	10	0.63	150	146
H940760	299	229	0.6	0.65	< 2	160	< 0.5	2	1.73	< 0.5	9	63	571	1.55	< 10	< 1	0.25	10	0.52	150	72
H940761	299	229	1.0	0.91	< 2	160	< 0.5	4	1.13	< 0.5	12	89	919	2.05	< 10	< 1	0.36	20	0.56	170	86
H940762	299	229	0.8	0.94	4	180	< 0.5	2	1.53	< 0.5	12	109	832	1.76	< 10	< 1	0.39	10	0.57	110	71
H940763	299	229	0.4	0.81	4	150	< 0.5	4	2.14	< 0.5	8	77	540	1.59	< 10	< 1	0.29	10	0.58	90	89
H940764	299	229	0.6	0.64	< 2	140	< 0.5	2	2.22	< 0.5	8	101	854	1.41	< 10	< 1	0.30	10	0.54	100	68
H940765	299	229	1.2	0.59	8	120	< 0.5	2	1.97	< 0.5	14	101	1210	1.45	< 10	< 1	0.32	10	0.28	50	144
H940766	299	229	1.6	0.74	4	130	< 0.5	2	1.34	< 0.5	15	104	2190	1.79	< 10	< 1	0.34	10	0.48	90	151
H940767	299	229	0.8	0.78	8	200	< 0.5	2	2.25	< 0.5	8	97	945	1.50	< 10	< 1	0.35	20	0.67	130	419
H940768	299	229	0.6	1.01	4	140	< 0.5	2	2.08	< 0.5	8	126	620	1.79	< 10	< 1	0.49	10	0.70	140	113
H940769	299	229	1.2	0.78	12	190	< 0.5	2	1.69	< 0.5	11	102	1035	1.75	< 10	< 1	0.38	10	0.61	125	249
H940770	299	229	1.2	1.01	4	140	< 0.5	2	2.63	< 0.5	6	120	1080	1.71	< 10	< 1	0.49	20	0.90	155	383
H940771	299	229	1.2	0.75	8	150	< 0.5	2	2.38	< 0.5	8	121	1170	1.52	< 10	< 1	0.35	10	0.63	145	391

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 239
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9324479

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940732	299	229	0.02	5	340	< 2	< 2	1	12	< 0.01	< 10	< 10	9	< 10	42
H940733	299	229	0.02	9	550	2	< 2	3	11	0.01	< 10	< 10	26	< 10	74
H940734	299	229	0.03	9	440	2	< 2	6	10	0.03	< 10	< 10	36	< 10	80
H940735	299	229	0.04	8	400	2	< 2	2	9	0.01	< 10	< 10	18	< 10	62
H940736	299	229	0.04	10	450	< 2	< 2	7	12	0.04	10	< 10	49	< 10	68
H940737	299	229	0.02	7	1030	< 2	8	2	16	< 0.01	< 10	10	12	< 10	78
H940738	299	229	0.04	10	790	2	< 2	15	12	0.17	< 10	< 10	98	< 10	72
H940739	299	229	0.04	7	530	< 2	< 2	5	18	0.02	< 10	10	35	< 10	50
H940740	299	229	0.02	8	510	4	< 2	6	18	0.03	< 10	10	39	< 10	60
H940741	299	229	0.04	4	630	2	< 2	7	23	0.06	< 10	10	54	< 10	36
H940742	299	229	0.03	6	420	2	< 2	3	23	0.01	< 10	< 10	20	< 10	42
H940743	299	229	0.06	9	770	2	< 2	4	51	0.03	< 10	< 10	35	< 10	44
H940744	299	229	0.04	6	720	< 2	< 2	5	20	0.02	< 10	10	35	< 10	46
H940745	299	229	0.02	3	640	2	< 2	2	22	< 0.01	< 10	10	19	< 10	26
H940746	299	229	0.03	4	960	2	< 2	6	27	0.03	< 10	< 10	37	< 10	24
H940747	299	229	0.03	3	590	2	< 2	4	24	0.01	< 10	10	24	< 10	18
H940748	299	229	0.04	4	490	4	< 2	3	22	0.01	< 10	10	19	< 10	20
H940749	299	229	0.03	4	740	2	< 2	8	23	0.06	< 10	10	52	< 10	28
H940750	299	229	0.04	7	810	< 2	< 2	9	18	0.07	< 10	10	60	< 10	52
H940751	299	229	0.06	4	780	< 2	< 2	5	15	0.03	< 10	< 10	51	< 10	30
H940752	299	229	0.07	4	990	< 2	< 2	5	19	0.04	< 10	< 10	54	< 10	32
H940753	299	229	0.06	5	610	2	< 2	6	22	0.04	< 10	< 10	50	< 10	28
H940754	299	229	0.05	7	490	2	< 2	9	12	0.09	< 10	< 10	70	< 10	30
H940755	299	229	0.04	12	640	< 2	< 2	15	14	0.15	< 10	< 10	101	< 10	46
H940756	299	229	0.07	6	560	4	< 2	7	16	0.05	< 10	< 10	51	< 10	30
H940757	299	229	0.07	7	780	< 2	< 2	13	15	0.15	< 10	< 10	103	< 10	38
H940758	299	229	0.05	6	620	4	< 2	8	22	0.06	< 10	10	51	< 10	32
H940759	299	229	0.03	3	350	2	< 2	2	38	< 0.01	< 10	10	12	< 10	22
H940760	299	229	0.02	2	430	6	< 2	2	32	< 0.01	< 10	10	13	< 10	20
H940761	299	229	0.03	3	450	6	< 2	2	33	< 0.01	< 10	10	16	< 10	26
H940762	299	229	0.05	4	420	4	< 2	3	79	< 0.01	< 10	10	18	< 10	22
H940763	299	229	0.04	3	420	12	< 2	2	134	< 0.01	< 10	10	16	< 10	18
H940764	299	229	0.04	3	470	4	< 2	2	122	< 0.01	< 10	10	14	< 10	18
H940765	299	229	0.01	3	280	20	2	< 1	75	< 0.01	< 10	10	5	< 10	20
H940766	299	229	0.03	4	310	8	< 2	1	49	< 0.01	< 10	< 10	6	< 10	14
H940767	299	229	0.03	3	450	4	2	3	71	< 0.01	< 10	< 10	12	< 10	20
H940768	299	229	0.02	3	370	4	< 2	3	44	< 0.01	< 10	< 10	16	< 10	20
H940769	299	229	0.03	3	420	6	< 2	3	55	< 0.01	< 10	10	17	< 10	20
H940770	299	229	0.03	3	430	2	4	5	50	0.02	< 10	< 10	25	< 10	20
H940771	299	229	0.03	3	540	< 2	2	3	69	< 0.01	< 10	< 10	15	< 10	18

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9324479

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940772	299	229	0.4	1.07	2	140	< 0.5	2	2.29	< 0.5	5	130	400	1.36	< 10	< 1	0.47	10	0.73	110	96
H940773	299	229	0.6	1.16	2	110	< 0.5	< 2	2.30	< 0.5	7	102	635	1.67	< 10	< 1	0.38	10	0.64	125	45
H940774	299	229	0.4	0.92	< 2	120	< 0.5	< 2	2.24	< 0.5	7	128	496	1.34	< 10	< 1	0.41	10	0.39	110	131
H940775	299	229	0.6	0.96	14	110	< 0.5	< 2	2.23	< 0.5	13	100	557	2.42	< 10	< 1	0.50	10	0.56	140	92
H940776	299	229	0.8	1.09	< 2	100	< 0.5	2	1.94	< 0.5	7	131	665	1.67	< 10	< 1	0.48	10	0.63	120	106
H940777	299	229	0.8	1.04	< 2	120	< 0.5	< 2	2.09	< 0.5	6	81	835	1.49	< 10	< 1	0.39	10	0.76	120	65
H940778	299	229	0.4	1.15	< 2	150	< 0.5	< 2	1.90	< 0.5	9	136	751	1.96	< 10	< 1	0.44	10	0.77	120	87
H940779	299	229	0.2	1.31	2	190	< 0.5	< 2	1.56	< 0.5	8	104	321	2.12	< 10	< 1	0.57	10	0.93	115	113
H940780	299	229	0.4	1.28	2	210	< 0.5	< 2	1.71	< 0.5	6	112	525	2.11	< 10	< 1	0.56	10	0.89	125	120
H940781	299	229	0.4	1.29	2	190	< 0.5	< 2	1.77	< 0.5	8	102	661	2.15	< 10	< 1	0.59	10	0.94	115	73
H940782	299	229	0.4	1.39	4	210	< 0.5	< 2	1.26	< 0.5	6	129	571	2.04	< 10	< 1	0.65	< 10	0.99	120	69
H940783	299	229	0.4	1.45	< 2	230	< 0.5	< 2	1.26	< 0.5	6	135	446	2.19	< 10	< 1	0.69	10	1.06	125	56
H940784	299	229	0.2	1.43	< 2	180	< 0.5	< 2	1.46	< 0.5	6	107	181	2.22	< 10	< 1	0.63	< 10	1.11	110	20
H940785	299	229	0.2	1.33	2	110	< 0.5	< 2	1.69	< 0.5	6	94	182	1.83	< 10	< 1	0.53	< 10	0.97	85	30
H940786	299	229	0.2	1.49	< 2	170	< 0.5	< 2	1.51	< 0.5	7	129	387	1.83	< 10	< 1	0.63	< 10	1.05	85	48
H940787	299	229	0.4	1.55	< 2	200	< 0.5	< 2	1.65	< 0.5	9	103	567	2.22	< 10	< 1	0.71	10	1.11	85	36
H940788	299	229	1.2	1.43	6	170	< 0.5	< 2	1.62	< 0.5	10	137	1650	2.06	< 10	< 1	0.64	30	0.90	80	138
H940789	299	229	0.8	1.41	< 2	170	< 0.5	< 2	1.48	< 0.5	10	94	985	2.20	< 10	< 1	0.61	10	0.97	90	90
H940790	299	229	0.8	1.27	< 2	140	< 0.5	< 2	1.39	< 0.5	14	112	1120	2.49	< 10	< 1	0.55	10	0.79	75	102
H940791	299	229	0.6	1.25	2	120	< 0.5	< 2	1.47	< 0.5	9	79	881	1.98	< 10	< 1	0.52	10	0.99	90	64
H940792	299	229	0.6	1.10	< 2	160	< 0.5	< 2	1.77	< 0.5	9	106	618	1.64	< 10	< 1	0.49	10	0.84	85	72
H940793	299	229	0.6	1.11	2	150	< 0.5	< 2	1.96	< 0.5	6	92	674	1.77	< 10	< 1	0.49	10	0.88	105	75
H940794	299	229	0.2	1.18	< 2	150	< 0.5	< 2	1.95	< 0.5	8	103	269	2.14	< 10	< 1	0.53	10	0.86	100	52
H940795	299	229	0.4	1.21	< 2	200	< 0.5	< 2	1.69	< 0.5	8	93	369	1.77	< 10	< 1	0.55	10	0.88	90	75
H940796	299	229	0.6	1.36	< 2	230	< 0.5	< 2	1.45	< 0.5	9	131	648	2.29	< 10	< 1	0.65	10	0.99	115	55
H940797	299	229	0.4	1.16	< 2	210	< 0.5	< 2	2.07	< 0.5	7	93	418	1.94	< 10	< 1	0.53	10	0.88	115	77
H940798	299	229	0.8	0.96	8	200	< 0.5	< 2	2.75	< 0.5	7	112	575	1.59	< 10	< 1	0.22	< 10	0.90	120	694
H940799	299	229	0.8	1.09	6	240	< 0.5	< 2	3.33	< 0.5	7	77	823	2.07	< 10	< 1	0.28	< 10	1.05	130	91
H940800	299	229	0.6	1.18	16	200	< 0.5	< 2	3.78	< 0.5	8	115	703	2.00	< 10	< 1	0.33	< 10	1.23	120	86
H940801	299	229	0.6	1.18	6	170	< 0.5	< 2	2.00	< 0.5	7	97	345	2.09	< 10	< 1	0.52	10	0.78	105	88
H940802	299	229	0.4	0.96	< 2	170	< 0.5	< 2	1.76	< 0.5	7	118	348	1.60	< 10	< 1	0.42	10	0.63	90	84
H940803	299	229	0.4	1.00	2	130	< 0.5	< 2	2.33	< 0.5	9	74	428	2.18	< 10	< 1	0.41	< 10	0.73	95	37
H940804	299	229	0.4	0.95	< 2	170	< 0.5	< 2	2.01	< 0.5	9	99	260	2.04	< 10	< 1	0.31	< 10	0.77	100	64
H940805	299	229	0.4	1.30	< 2	250	< 0.5	< 2	1.81	< 0.5	5	93	397	2.26	< 10	< 1	0.66	10	1.04	130	48
H940806	299	229	0.2	1.27	2	160	< 0.5	< 2	2.12	< 0.5	8	119	420	2.15	< 10	< 1	0.58	< 10	0.90	105	62
H940807	299	229	0.4	1.08	< 2	170	< 0.5	< 2	1.83	< 0.5	7	93	314	1.75	< 10	< 1	0.44	10	0.82	90	56
H940808	299	229	0.4	1.20	< 2	150	< 0.5	< 2	2.33	< 0.5	8	118	409	2.32	< 10	< 1	0.56	10	0.86	100	198
H940809	299	229	0.6	1.04	< 2	160	< 0.5	< 2	1.81	< 0.5	12	78	471	2.04	< 10	< 1	0.49	10	0.67	70	102
H940810	299	229	0.4	1.41	< 2	180	< 0.5	< 2	1.69	< 0.5	10	113	498	2.45	< 10	< 1	0.65	10	0.82	80	70
H940811	299	229	0.2	1.41	< 2	210	< 0.5	< 2	1.50	< 0.5	10	101	280	2.09	< 10	< 1	0.70	10	0.94	80	67

CERTIFICATION: Stan Bichler

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H940772	299	229	0.06	3	500	4	< 2	4	148	0.01	< 10	< 10	30	< 10	22
H940773	299	229	0.05	3	500	8	< 2	4	68	< 0.01	< 10	< 10	32	< 10	22
H940774	299	229	0.04	3	470	8	< 2	4	58	0.01	< 10	< 10	25	< 10	16
H940775	299	229	0.02	4	380	16	< 2	3	48	< 0.01	< 10	< 10	19	< 10	24
H940776	299	229	0.04	3	450	2	< 2	6	50	0.01	< 10	< 10	33	< 10	20
H940777	299	229	0.04	3	420	2	< 2	5	78	0.02	< 10	< 10	37	< 10	22
H940778	299	229	0.06	4	430	4	< 2	6	71	0.02	< 10	< 10	40	< 10	22
H940779	299	229	0.06	3	450	4	< 2	8	66	0.07	< 10	< 10	58	< 10	22
H940780	299	229	0.06	3	420	4	< 2	8	105	0.07	< 10	< 10	52	< 10	24
H940781	299	229	0.05	4	420	6	< 2	8	68	0.08	< 10	< 10	50	< 10	24
H940782	299	229	0.07	4	420	8	< 2	9	45	0.11	< 10	< 10	62	< 10	24
H940783	299	229	0.07	4	440	4	< 2	9	55	0.13	< 10	< 10	67	< 10	24
H940784	299	229	0.06	5	480	2	< 2	8	54	0.15	< 10	< 10	61	< 10	22
H940785	299	229	0.05	3	360	6	< 2	8	56	0.10	< 10	< 10	42	< 10	22
H940786	299	229	0.08	3	380	2	< 2	9	55	0.10	< 10	< 10	50	< 10	20
H940787	299	229	0.06	3	450	4	< 2	9	67	0.08	< 10	< 10	53	< 10	20
H940788	299	229	0.06	3	510	4	< 2	7	70	0.06	< 10	< 10	47	< 10	20
H940789	299	229	0.05	3	400	4	< 2	6	78	0.04	< 10	< 10	40	< 10	20
H940790	299	229	0.04	3	350	2	< 2	4	83	0.03	< 10	10	33	< 10	18
H940791	299	229	0.04	4	410	4	< 2	7	49	0.04	< 10	< 10	45	< 10	24
H940792	299	229	0.04	4	400	< 2	< 2	5	70	0.04	< 10	< 10	34	< 10	18
H940793	299	229	0.03	4	390	< 2	< 2	6	86	0.06	< 10	< 10	41	< 10	20
H940794	299	229	0.04	3	410	< 2	< 2	7	75	0.08	< 10	10	47	< 10	20
H940795	299	229	0.04	3	380	< 2	< 2	7	64	0.07	< 10	10	44	< 10	16
H940796	299	229	0.06	3	430	< 2	< 2	10	59	0.11	< 10	< 10	63	< 10	22
H940797	299	229	0.04	4	410	4	< 2	8	111	0.06	< 10	10	47	< 10	22
H940798	299	229	0.01	3	330	2	4	7	97	< 0.01	< 10	< 10	21	< 10	20
H940799	299	229	0.01	3	370	4	< 2	7	201	< 0.01	< 10	< 10	30	< 10	22
H940800	299	229	0.03	3	370	6	< 2	7	186	0.01	< 10	< 10	35	< 10	26
H940801	299	229	0.04	3	410	4	< 2	7	262	0.04	< 10	20	42	< 10	24
H940802	299	229	0.04	3	440	6	< 2	7	103	0.02	< 10	10	32	< 10	22
H940803	299	229	0.02	3	380	4	< 2	4	130	0.01	< 10	< 10	27	< 10	22
H940804	299	229	0.02	3	370	6	< 2	6	96	0.01	< 10	10	27	< 10	24
H940805	299	229	0.06	3	490	4	< 2	11	91	0.11	< 10	< 10	65	< 10	28
H940806	299	229	0.06	4	450	4	< 2	8	87	0.06	< 10	< 10	49	< 10	22
H940807	299	229	0.04	3	440	2	< 2	6	81	0.04	< 10	< 10	41	< 10	18
H940808	299	229	0.03	3	370	2	< 2	5	82	0.03	< 10	< 10	30	< 10	16
H940809	299	229	0.03	3	410	2	< 2	6	49	0.03	< 10	< 10	34	< 10	14
H940810	299	229	0.04	4	440	4	< 2	7	76	0.06	< 10	< 10	42	< 10	16
H940811	299	229	0.05	4	410	6	< 2	8	102	0.06	< 10	10	44	< 10	18

CERTIFICATION: Ian Bichler

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H940812	299	229	0.2	1.35	4	170	< 0.5	< 2	1.37	< 0.5	9	133	165	2.36	< 10	< 1	0.68	10	0.93	85	40
H940813	299	229	1.2	1.22	4	150	< 0.5	< 2	1.59	< 0.5	14	103	752	2.47	< 10	< 1	0.58	10	0.84	80	54
H940814	299	229	1.2	1.16	< 2	150	< 0.5	< 2	1.52	< 0.5	12	124	1090	1.81	< 10	< 1	0.56	30	0.72	65	304
H940815	299	229	1.0	0.86	< 2	110	< 0.5	< 2	1.96	< 0.5	12	87	1280	1.71	< 10	< 1	0.44	20	0.65	60	281
H940816	299	229	0.8	1.18	< 2	180	< 0.5	< 2	1.54	< 0.5	8	104	917	1.77	< 10	< 1	0.62	10	0.99	90	553

CERTIFICATION: Mark Pedder

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 239
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. :19324479
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324479

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940812	299	229	0.06	4	370	2	< 2	7	69	0.06	< 10	< 10	45	< 10	20
H940813	299	229	0.05	4	360	4	< 2	6	67	0.05	< 10	< 10	40	< 10	18
H940814	299	229	0.04	3	340	2	< 2	4	71	0.02	< 10	10	26	40	14
H940815	299	229	0.03	3	270	2	< 2	3	95	0.02	< 10	< 10	21	< 10	16
H940816	299	229	0.06	4	410	2	2	8	75	0.09	< 10	< 10	49	< 10	22

CERTIFICATION: Stuart Bichler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO 240
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 20-NOV-93
Invoice No. :I9324606
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324606

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H940242	208	274	0.05	0.026	0.07	3900
H940243	208	274	0.04	0.024	0.03	6140
H940244	208	276	0.03	0.036	0.07	10720
H940245	208	276	0.04	0.030	0.10	9740
H940246	208	276	0.05	0.026	0.03	11640
H940247	208	276	0.04	0.037	< 0.03	7800
H940248	208	273	0.03	0.017	< 0.03	12100
H940249	208	273	0.03	0.022	< 0.03	13160
H940250	208	276	0.02	0.035	< 0.03	11540
H940251	208	276	0.03	0.063	< 0.03	11280
H940252	208	276	0.05	0.026	< 0.03	11720
H940253	208	276	0.06	0.028	< 0.03	10980
H940254	208	273	0.16	0.018	< 0.03	11900
H940255	208	276	0.31	0.027	0.10	11780
H940256	208	276	0.37	0.025	0.10	11160
H940257	208	276	0.23	0.033	0.07	11660
H940258	208	273	0.20	0.020	0.03	11860
H940259	208	273	0.43	0.018	0.17	12640
H940260	208	276	0.15	0.007	< 0.03	11580
H940261	208	276	0.24	0.006	< 0.03	11020
H940262	208	276	0.19	0.005	< 0.03	7940
H940263	208	276	0.30	0.005	0.07	11760
H940264	208	273	0.17	0.007	< 0.03	14500
H940265	208	276	0.12	0.004	0.07	8880
H940266	208	276	0.16	0.033	0.07	10880
H940267	208	274	0.15	0.029	< 0.03	6880
H940268	208	273	0.15	0.057	< 0.03	12340
H940269	208	276	0.38	0.183	0.21	8460
H940270	208	274	0.17	0.054	0.07	6620
H940271	208	276	0.11	0.026	0.07	10040
H940272	208	276	0.12	0.028	< 0.03	10560
H940273	208	276	0.10	0.028	< 0.03	10580
H940274	208	276	0.06	0.004	< 0.03	7920
H940275	208	273	0.05	0.006	< 0.03	12160
H940276	208	276	0.07	0.012	< 0.03	11060
H940277	208	276	0.10	0.022	< 0.03	11640
H940278	208	273	0.10	0.025	< 0.03	14560
H940279	208	274	0.14	0.050	< 0.03	5080
H940280	208	274	0.23	0.022	0.07	6720
H940281	208	276	0.19	0.017	0.07	8140

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Project : CASINO 240
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-NOV-93
Invoice No. :19324606
P.O. Number :
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CERTIFICATE OF ANALYSIS A9324606

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H940282	208	276	0.08	0.012	< 0.03	10820						
H940283	208	276	0.13	0.019	0.07	10760						
H940284	208	276	0.20	0.032	0.14	11500						
H940285	208	276	0.12	0.033	0.10	11680						
H940286	208	276	0.11	0.030	0.07	11200						
H940287	208	274	0.10	0.047	< 0.03	5160						
H940288	208	276	0.06	0.008	< 0.03	9800						
H940289	208	276	0.09	0.016	0.03	11560						
H940290	208	273	0.12	0.025	0.07	12680						
H940291	208	276	0.06	0.019	0.03	10460						
H940292	208	276	0.04	0.024	< 0.03	11020						
H940293	208	276	0.04	0.080	< 0.03	10040						
H940294	208	276	0.07	0.017	< 0.03	10900						
H940295	208	276	0.14	0.024	0.10	11460						
H940296	208	274	0.12	0.023	0.07	6600						
H940297	208	274	0.10	0.023	0.07	7000						
H940298	208	276	0.08	0.032	0.03	8200						
H940299	208	276	0.10	0.034	< 0.03	9120						
H940300	208	274	0.07	0.044	< 0.03	6900						
H940301	208	274	0.06	0.045	< 0.03	6180						
H940302	208	276	0.07	0.026	< 0.03	10800						
H940303	208	273	0.04	0.015	< 0.03	12120						
H940304	208	273	0.03	0.015	< 0.03	13120						
H940305	208	273	0.11	0.099	0.10	12700						
H940306	208	273	0.10	0.031	0.14	13120						
H940307	208	273	0.02	0.032	< 0.03	12920						
H940308	208	276	0.08	0.011	< 0.03	11460						
H940309	208	273	0.04	0.018	< 0.03	12600						
H940310	208	273	0.03	0.006	< 0.03	12280						
H940311	208	273	0.06	0.015	0.07	12800						
H940312	208	273	0.06	0.023	0.07	12360						
H940313	208	273	0.03	0.034	< 0.03	11880						
H940314	208	273	0.05	0.014	< 0.03	12620						
H940315	208	273	0.09	0.011	< 0.03	12780						
H940316	208	276	0.05	0.009	< 0.03	11740						
H940317	208	276	0.07	0.017	< 0.03	9620						
H940318	208	273	0.03	0.007	< 0.03	13160						
H940319	208	273	0.04	0.015	0.03	14040						
H940320	208	273	0.05	0.008	< 0.03	14120						
H940321	208	273	0.14	0.017	< 0.03	13300						

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Project : CASINO 240
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Certificate Date: 20-NOV-93
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CERTIFICATE OF ANALYSIS A9324606

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H940322	208	273	0.03	0.013	0.10	13560						
H940323	208	276	0.05	0.007	< 0.03	11500						
H940324	208	273	0.08	0.012	< 0.03	13840						
H940325	208	273	0.04	0.032	0.31	12920						
H940326	208	273	0.04	0.026	< 0.03	11850						
H940327	208	273	0.04	0.021	< 0.03	12280						
H940328	208	273	0.04	0.032	0.03	12960						
H940329	208	276	0.13	0.025	0.10	11480						
H940330	208	273	0.08	0.025	0.07	13720						
H940331	208	273	0.09	0.020	0.10	12960						
H940332	208	276	0.03	0.012	0.03	11580						
H940333	208	273	0.08	0.013	0.07	13960						
H940334	208	273	0.06	0.007	0.07	12100						
H940335	208	273	0.07	0.013	0.07	12360						
H940336	208	273	0.09	0.019	0.07	12560						
H940337	208	273	0.07	0.006	< 0.03	12240						
H940338	208	273	0.15	0.025	0.03	12360						
H940339	208	273	0.17	0.017	0.17	12760						
H940340	208	273	0.12	0.018	0.07	13080						
H940341	208	273	0.15	0.028	0.07	13440						
H940342	208	273	0.10	0.018	0.07	13160						
H940343	208	273	0.14	0.010	0.21	13220						
H940344	208	273	0.07	0.017	< 0.03	12000						
H940345	208	273	0.07	0.009	0.07	12180						
H940346	208	276	0.10	0.013	0.07	11500						
H940347	208	273	0.09	0.022	< 0.03	12780						
H940348	208	276	0.06	0.032	< 0.03	10380						

CERTIFICATION: A. Chrétien

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Project : CASINO 240
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CERTIFICATE OF ANALYSIS A9324607

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940242	299	229	0.6	2.08	< 2	250	< 0.5	< 2	0.09	< 0.5	4	68	427	3.64	< 10	< 1	0.58	20	0.74	95	148
H940243	299	229	0.4	2.11	< 2	270	< 0.5	< 2	0.09	< 0.5	5	62	304	3.16	< 10	< 1	0.59	10	0.68	95	136
H940244	299	229	1.0	2.15	8	310	< 0.5	< 2	0.03	< 0.5	3	54	267	3.43	< 10	< 1	0.90	20	0.61	95	205
H940245	299	229	1.0	2.13	6	200	< 0.5	< 2	0.02	< 0.5	3	52	311	3.88	< 10	< 1	0.62	20	0.62	100	182
H940246	299	229	1.0	1.84	8	170	< 0.5	< 2	0.02	< 0.5	7	53	422	4.42	< 10	< 1	0.59	10	0.54	85	158
H940247	299	229	0.8	1.00	8	110	< 0.5	< 2	0.02	< 0.5	4	70	323	3.52	< 10	< 1	0.37	10	0.14	40	232
H940248	299	229	0.8	1.77	2	130	< 0.5	< 2	0.01	< 0.5	1	56	274	4.19	< 10	< 1	0.56	10	0.63	55	96
H940249	299	229	0.8	2.19	8	130	< 0.5	< 2	0.01	< 0.5	1	72	270	3.97	< 10	< 1	0.53	10	0.65	55	136
H940250	299	229	0.6	2.57	4	240	< 0.5	< 2	0.01	< 0.5	1	83	197	4.05	< 10	< 1	0.93	10	0.81	60	216
H940251	299	229	0.8	2.58	10	170	< 0.5	< 2	0.01	< 0.5	4	83	255	4.56	< 10	< 1	0.77	10	0.79	75	365
H940252	299	229	0.8	2.61	12	150	< 0.5	< 2	0.01	< 0.5	10	70	485	4.71	< 10	< 1	0.78	10	0.99	115	150
H940253	299	229	0.8	2.39	10	140	< 0.5	< 2	0.01	< 0.5	13	70	578	5.01	< 10	< 1	0.68	20	0.69	80	154
H940254	299	229	1.2	2.70	4	140	< 0.5	< 2	0.02	< 0.5	21	59	1580	5.08	< 10	< 1	0.80	30	0.82	95	106
H940255	299	229	1.6	2.60	8	160	< 0.5	< 2	0.06	< 0.5	19	57	2830	3.82	< 10	< 1	0.86	40	0.80	85	150
H940256	299	229	1.6	2.93	14	130	< 0.5	< 2	0.03	< 0.5	22	55	3630	4.90	< 10	< 1	0.70	20	0.88	120	154
H940257	299	229	1.0	2.50	4	110	< 0.5	< 2	0.02	< 0.5	17	43	2100	4.48	< 10	< 1	0.56	10	0.93	135	192
H940258	299	229	0.8	2.89	14	130	< 0.5	< 2	0.01	< 0.5	20	61	1905	3.91	< 10	< 1	0.65	20	0.43	55	113
H940259	299	229	2.0	2.70	6	110	< 0.5	< 2	0.03	< 0.5	38	59	4070	5.64	< 10	< 1	0.81	10	0.96	125	107
H940260	299	229	0.8	2.70	4	120	< 0.5	< 2	0.04	< 0.5	28	57	1390	5.28	< 10	< 1	0.79	10	1.15	150	36
H940261	299	229	0.8	2.58	18	120	< 0.5	< 2	0.03	< 0.5	23	53	2220	4.65	< 10	< 1	0.55	10	0.81	115	35
H940262	299	229	0.8	2.55	2	100	< 0.5	< 2	0.04	< 0.5	22	70	1820	5.49	< 10	< 1	0.50	10	1.11	170	25
H940263	299	229	0.8	2.58	4	60	< 0.5	< 2	0.06	< 0.5	23	64	2900	5.20	< 10	< 1	0.36	10	0.88	125	32
H940264	299	229	0.8	2.25	< 2	90	< 0.5	< 2	0.17	< 0.5	32	59	1580	5.93	< 10	< 1	0.52	30	1.22	225	38
H940265	299	229	0.6	2.20	8	70	< 0.5	< 2	0.16	< 0.5	23	55	1155	5.10	< 10	< 1	0.44	30	1.09	175	24
H940266	299	229	0.8	2.28	6	80	< 0.5	< 2	0.09	< 0.5	15	68	1445	3.40	< 10	< 1	0.40	10	0.94	100	197
H940267	299	229	0.6	2.20	2	90	< 0.5	< 2	0.03	< 0.5	16	60	1390	4.19	< 10	< 1	0.37	10	0.95	110	166
H940268	299	229	0.8	2.16	8	100	< 0.5	< 2	0.05	< 0.5	20	70	1410	4.65	< 10	< 1	0.41	20	1.06	135	341
H940269	299	229	2.6	1.94	4	110	< 0.5	< 2	0.11	< 0.5	22	55	3690	4.12	< 10	< 1	0.52	30	1.16	125	1020
H940270	299	229	1.4	1.77	2	100	< 0.5	< 2	0.09	< 0.5	24	75	1625	4.79	< 10	< 1	0.46	10	1.01	100	311
H940271	299	229	0.8	1.84	4	110	< 0.5	< 2	0.11	< 0.5	14	62	1035	3.72	< 10	< 1	0.49	20	0.99	120	154
H940272	299	229	0.8	2.15	8	100	< 0.5	< 2	0.12	< 0.5	21	69	1150	4.58	< 10	< 1	0.53	20	1.18	160	160
H940273	299	229	0.6	2.01	4	100	< 0.5	< 2	0.14	< 0.5	16	71	920	3.51	< 10	< 1	0.35	20	1.12	115	171
H940274	299	229	0.4	1.81	< 2	150	< 0.5	< 2	0.32	< 0.5	14	83	540	3.67	< 10	< 1	0.26	30	1.04	285	22
H940275	299	229	0.6	1.81	4	170	< 0.5	< 2	0.31	< 0.5	14	63	483	3.54	< 10	< 1	0.43	20	1.21	235	32
H940276	299	229	0.6	1.82	6	110	< 0.5	< 2	0.21	< 0.5	12	78	678	3.60	< 10	< 1	0.39	20	1.01	155	72
H940277	299	229	0.6	1.94	4	130	< 0.5	< 2	0.19	< 0.5	14	66	906	2.90	< 10	< 1	0.54	20	1.12	120	126
H940278	299	229	0.8	2.27	8	140	< 0.5	< 2	0.16	< 0.5	21	57	932	4.65	< 10	< 1	0.66	20	1.18	130	141
H940279	299	229	1.0	2.29	< 2	120	< 0.5	< 2	0.15	< 0.5	25	71	1425	5.20	< 10	< 1	0.56	20	1.13	120	296
H940280	299	229	2.0	2.21	6	100	< 0.5	< 2	0.17	< 0.5	73	72	2300	10.85	< 10	< 1	0.51	10	1.03	180	127
H940281	299	229	1.2	2.07	2	80	< 0.5	< 2	0.14	< 0.5	24	58	1700	4.51	< 10	< 1	0.44	10	1.16	125	96

CERTIFICATION: Stuart Bichler

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Project : CASINO 240
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Total Pages :3
Certificate Date: 19-NOV-93
Invoice No. :19324607
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CERTIFICATE OF ANALYSIS A9324607

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940242	299	229	0.07	6	400	< 2	< 2	3	44	0.02	< 10	< 10	37	< 10	32
H940243	299	229	0.06	6	460	< 2	< 2	3	38	0.03	< 10	< 10	32	< 10	30
H940244	299	229	0.07	4	520	< 2	< 2	3	41	0.01	< 10	< 10	30	< 10	32
H940245	299	229	0.05	5	560	< 2	< 2	3	51	0.02	< 10	< 10	38	< 10	32
H940246	299	229	0.06	6	680	< 2	< 2	3	49	0.01	< 10	< 10	33	< 10	38
H940247	299	229	0.04	4	710	< 2	< 2	2	47	< 0.01	< 10	< 10	20	10	28
H940248	299	229	0.07	3	470	< 2	< 2	2	34	< 0.01	< 10	< 10	30	10	20
H940249	299	229	0.05	5	820	< 2	< 2	3	38	< 0.01	< 10	< 10	31	30	18
H940250	299	229	0.09	3	480	< 2	< 2	3	39	< 0.01	< 10	< 10	35	10	18
H940251	299	229	0.07	6	650	< 2	< 2	3	33	0.01	< 10	< 10	31	20	20
H940252	299	229	0.05	10	650	< 2	< 2	3	30	< 0.01	< 10	< 10	27	10	26
H940253	299	229	0.03	10	630	< 2	< 2	3	37	< 0.01	< 10	< 10	22	10	22
H940254	299	229	0.03	14	650	< 2	< 2	2	58	< 0.01	< 10	< 10	19	10	26
H940255	299	229	0.02	11	940	< 2	< 2	2	43	< 0.01	10	< 10	17	< 10	26
H940256	299	229	0.02	17	740	< 2	< 2	3	37	< 0.01	< 10	< 10	26	< 10	32
H940257	299	229	0.02	14	580	< 2	< 2	2	74	< 0.01	< 10	< 10	20	< 10	30
H940258	299	229	0.02	15	920	2	< 2	3	68	< 0.01	< 10	< 10	16	30	20
H940259	299	229	0.03	20	600	< 2	< 2	3	33	< 0.01	< 10	< 10	18	10	34
H940260	299	229	0.03	13	460	< 2	< 2	2	24	< 0.01	< 10	< 10	19	10	32
H940261	299	229	0.03	17	660	2	< 2	3	62	< 0.01	< 10	< 10	25	20	28
H940262	299	229	0.04	17	650	< 2	< 2	3	77	< 0.01	< 10	< 10	30	20	36
H940263	299	229	0.02	18	830	< 2	< 2	3	43	< 0.01	< 10	< 10	32	20	34
H940264	299	229	0.04	18	640	< 2	< 2	4	14	0.01	10	< 10	48	10	52
H940265	299	229	0.03	16	710	< 2	< 2	3	19	< 0.01	< 10	< 10	33	10	42
H940266	299	229	0.04	16	860	< 2	< 2	3	78	< 0.01	< 10	< 10	32	10	26
H940267	299	229	0.03	14	800	< 2	< 2	3	120	< 0.01	< 10	< 10	28	20	26
H940268	299	229	0.04	15	570	< 2	< 2	3	54	0.01	< 10	< 10	35	10	28
H940269	299	229	0.03	16	610	< 2	< 2	4	17	0.02	< 10	< 10	37	< 10	28
H940270	299	229	0.06	15	500	< 2	< 2	3	18	0.01	< 10	< 10	41	10	24
H940271	299	229	0.04	12	600	< 2	< 2	3	17	0.01	< 10	< 10	36	< 10	24
H940272	299	229	0.06	14	630	< 2	< 2	5	22	0.02	10	< 10	48	20	30
H940273	299	229	0.05	15	760	2	< 2	4	23	0.01	10	< 10	47	< 10	26
H940274	299	229	0.07	13	950	< 2	< 2	5	27	0.03	10	< 10	59	< 10	44
H940275	299	229	0.07	11	820	< 2	< 2	6	24	0.09	10	< 10	61	< 10	38
H940276	299	229	0.08	12	720	< 2	< 2	3	25	0.03	< 10	< 10	41	< 10	28
H940277	299	229	0.06	14	700	< 2	< 2	5	27	0.08	10	< 10	46	< 10	24
H940278	299	229	0.04	14	630	< 2	< 2	4	15	0.02	< 10	< 10	40	10	26
H940279	299	229	0.04	16	680	< 2	< 2	4	19	0.02	10	< 10	42	20	28
H940280	299	229	0.04	28	650	< 2	< 2	4	13	0.01	< 10	< 10	48	110	44
H940281	299	229	0.03	17	590	< 2	< 2	3	13	0.02	< 10	< 10	37	10	28

CERTIFICATION: Stuart Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 240
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 19-NOV-93
Invoice No. :I9324607
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324607

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940282	299	229	0.6	1.85	< 2	60	< 0.5	< 2	0.26	< 0.5	14	74	778	4.77	< 10	< 1	0.32	20	1.19	145	68
H940283	299	229	1.2	1.83	6	70	< 0.5	< 2	0.32	< 0.5	18	77	1290	5.18	< 10	1	0.36	20	1.12	155	114
H940284	299	229	1.6	1.82	< 2	30	< 0.5	< 2	0.28	< 0.5	21	64	1955	6.13	< 10	< 1	0.31	20	1.27	195	192
H940285	299	229	1.2	1.59	< 2	30	< 0.5	< 2	0.23	< 0.5	20	63	1100	5.78	< 10	< 1	0.29	10	1.19	180	201
H940286	299	229	0.8	1.50	< 2	30	< 0.5	< 2	0.20	< 0.5	21	68	977	4.97	< 10	< 1	0.24	10	1.02	165	175
H940287	299	229	1.0	1.69	6	30	< 0.5	< 2	0.18	< 0.5	22	60	945	4.46	< 10	< 1	0.23	20	1.20	155	291
H940288	299	229	0.4	1.65	< 2	80	< 0.5	< 2	0.25	< 0.5	14	61	549	3.74	< 10	< 1	0.19	20	1.12	180	47
H940289	299	229	0.8	1.39	4	90	< 0.5	< 2	0.40	0.5	29	69	870	5.96	< 10	1	0.25	30	1.10	390	90
H940290	299	229	1.0	1.92	2	60	< 0.5	< 2	0.24	< 0.5	20	66	1150	4.49	< 10	1	0.41	20	1.26	160	142
H940291	299	229	0.6	1.65	< 2	100	< 0.5	< 2	0.25	< 0.5	17	99	533	5.05	< 10	< 1	0.38	20	1.23	175	109
H940292	299	229	0.4	1.77	< 2	150	< 0.5	< 2	0.30	< 0.5	15	89	376	4.23	< 10	< 1	0.32	20	1.28	170	144
H940293	299	229	0.4	1.53	4	100	< 0.5	< 2	0.49	< 0.5	14	65	378	3.71	< 10	< 1	0.23	20	1.00	195	458
H940294	299	229	0.6	1.80	< 2	80	< 0.5	< 2	0.31	< 0.5	22	89	680	4.46	< 10	1	0.28	30	1.12	290	101
H940295	299	229	1.2	1.58	< 2	80	< 0.5	< 2	0.52	< 0.5	35	65	1310	5.68	< 10	< 1	0.26	40	1.05	280	151
H940296	299	229	0.8	2.01	6	100	< 0.5	< 2	0.20	< 0.5	28	84	1125	4.10	< 10	< 1	0.51	20	1.01	115	135
H940297	299	229	1.0	1.61	4	70	< 0.5	< 2	0.67	< 0.5	26	69	979	4.47	< 10	< 1	0.32	30	1.08	220	138
H940298	299	229	1.2	1.24	6	90	< 0.5	< 2	0.77	< 0.5	32	71	823	4.89	< 10	< 1	0.33	40	0.93	320	186
H940299	299	229	0.6	1.80	< 2	120	< 0.5	< 2	0.31	0.5	25	52	953	3.61	< 10	< 1	0.50	30	0.88	170	265
H940300	299	229	0.4	1.60	4	120	< 0.5	< 2	0.58	< 0.5	22	60	659	3.34	< 10	< 1	0.49	40	0.67	195	244
H940301	299	229	0.6	1.25	< 2	100	< 0.5	< 2	0.74	< 0.5	28	56	566	3.85	< 10	< 1	0.42	50	0.74	275	260
H940302	299	229	0.4	1.47	< 2	120	< 0.5	< 2	0.51	< 0.5	26	76	645	3.93	< 10	< 1	0.28	40	0.82	280	142
H940303	299	229	0.4	1.60	< 2	140	< 0.5	< 2	1.37	< 0.5	13	81	351	2.85	< 10	< 1	0.56	30	1.24	150	86
H940304	299	229	0.4	1.37	2	110	< 0.5	< 2	2.10	< 0.5	14	86	265	2.83	10	< 1	0.42	30	0.98	115	86
H940305	299	229	1.4	1.22	< 2	90	< 0.5	< 2	1.79	< 0.5	28	68	1005	4.00	10	< 1	0.28	30	0.93	125	555
H940306	299	229	1.2	1.04	< 2	110	< 0.5	< 2	2.54	< 0.5	39	85	1045	5.49	< 10	< 1	0.39	30	0.81	140	164
H940307	299	229	0.4	1.18	< 2	100	< 0.5	< 2	2.07	< 0.5	9	78	208	2.40	10	< 1	0.30	30	0.99	120	179
H940308	299	229	0.6	1.32	< 2	140	< 0.5	< 2	2.08	< 0.5	11	105	740	3.18	10	1	0.34	30	1.08	155	61
H940309	299	229	0.4	1.20	< 2	90	< 0.5	< 2	2.01	< 0.5	12	65	365	2.86	10	< 1	0.15	30	0.92	135	98
H940310	299	229	0.2	1.29	< 2	90	< 0.5	< 2	1.88	< 0.5	9	80	249	2.89	10	< 1	0.16	30	0.95	130	36
H940311	299	229	0.6	1.27	< 2	70	< 0.5	< 2	2.19	< 0.5	15	71	584	3.55	10	< 1	0.28	20	1.00	145	91
H940312	299	229	0.6	1.39	< 2	130	< 0.5	< 2	2.86	< 0.5	14	83	534	3.21	10	< 1	0.29	20	1.02	140	129
H940313	299	229	0.4	1.25	< 2	100	< 0.5	< 2	2.22	< 0.5	10	65	300	3.05	10	< 1	0.24	30	1.03	150	194
H940314	299	229	0.6	1.44	< 2	40	< 0.5	< 2	1.74	< 0.5	22	101	498	4.10	10	< 1	0.28	20	1.15	150	76
H940315	299	229	1.2	1.51	2	50	< 0.5	< 2	1.81	< 0.5	21	91	870	4.31	10	< 1	0.31	20	1.22	160	65
H940316	299	229	0.4	1.24	< 2	60	< 0.5	< 2	1.84	< 0.5	14	113	389	3.58	10	< 1	0.29	20	0.95	145	48
H940317	299	229	0.6	1.33	< 2	30	< 0.5	< 2	1.75	< 0.5	12	88	651	3.44	10	< 1	0.24	20	1.08	155	95
H940318	299	229	0.4	1.40	2	60	< 0.5	< 2	1.97	< 0.5	12	113	237	3.22	10	< 1	0.29	30	1.07	150	36
H940319	299	229	0.4	1.38	< 2	60	< 0.5	< 2	1.88	< 0.5	14	104	376	3.27	10	< 1	0.30	30	1.09	150	87
H940320	299	229	0.6	1.57	4	60	< 0.5	< 2	1.96	< 0.5	17	130	455	3.93	< 10	< 1	0.40	20	1.22	175	45
H940321	299	229	1.4	1.31	8	60	< 0.5	< 2	2.08	< 0.5	15	152	1280	4.22	10	< 1	0.27	30	1.02	175	99

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CERTIFICATE OF ANALYSIS A9324607

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940282	299	229	0.05	15	680	< 2	< 2	4	19	0.10	< 10	< 10	59	20	28
H940283	299	229	0.04	15	770	< 2	< 2	6	18	0.13	< 10	< 10	66	10	32
H940284	299	229	0.02	17	740	< 2	< 2	6	11	0.11	< 10	< 10	63	30	42
H940285	299	229	0.02	17	640	< 2	< 2	5	8	0.08	< 10	< 10	60	10	34
H940286	299	229	0.02	13	660	< 2	< 2	4	9	0.02	< 10	< 10	48	< 10	30
H940287	299	229	0.02	16	660	< 2	< 2	4	10	0.01	< 10	< 10	45	10	30
H940288	299	229	0.03	14	880	< 2	< 2	4	14	0.02	< 10	< 10	50	10	34
H940289	299	229	0.02	16	810	< 2	< 2	5	13	0.02	< 10	< 10	52	30	60
H940290	299	229	0.03	16	790	< 2	< 2	5	14	0.06	< 10	< 10	53	10	34
H940291	299	229	0.04	15	780	< 2	< 2	5	15	0.06	< 10	< 10	60	10	36
H940292	299	229	0.04	13	940	< 2	< 2	5	17	0.06	< 10	< 10	62	10	36
H940293	299	229	0.03	12	860	< 2	< 2	4	18	0.02	< 10	< 10	47	10	36
H940294	299	229	0.05	12	810	< 2	< 2	4	17	0.01	< 10	< 10	47	10	52
H940295	299	229	0.02	17	750	< 2	< 2	3	14	< 0.01	< 10	< 10	34	10	52
H940296	299	229	0.04	16	740	< 2	< 2	3	16	0.01	< 10	< 10	34	10	32
H940297	299	229	0.03	13	740	< 2	< 2	5	17	0.03	< 10	< 10	51	10	38
H940298	299	229	0.02	13	610	< 2	2	5	19	0.01	< 10	< 10	41	10	50
H940299	299	229	0.02	16	750	< 2	< 2	3	12	0.01	< 10	< 10	28	20	44
H940300	299	229	0.02	13	700	< 2	< 2	4	16	0.01	< 10	< 10	26	40	46
H940301	299	229	0.02	15	670	< 2	< 2	4	18	0.01	< 10	< 10	29	10	42
H940302	299	229	0.03	13	750	< 2	< 2	4	17	0.02	< 10	< 10	33	10	48
H940303	299	229	0.03	12	700	< 2	< 2	7	64	0.08	< 10	< 10	55	10	26
H940304	299	229	0.03	9	750	< 2	< 2	4	132	0.02	< 10	< 10	34	10	20
H940305	299	229	0.03	13	700	< 2	2	3	160	0.01	< 10	< 10	31	10	22
H940306	299	229	0.03	14	590	< 2	< 2	3	193	0.01	< 10	< 10	29	40	24
H940307	299	229	0.03	9	640	< 2	< 2	5	124	0.02	< 10	< 10	37	< 10	18
H940308	299	229	0.04	8	670	< 2	< 2	6	188	0.05	< 10	< 10	47	10	24
H940309	299	229	0.03	8	680	< 2	< 2	4	198	0.01	< 10	< 10	35	10	20
H940310	299	229	0.04	7	780	< 2	< 2	5	182	0.01	< 10	< 10	38	< 10	20
H940311	299	229	0.02	11	600	< 2	< 2	4	154	0.01	< 10	< 10	34	10	22
H940312	299	229	0.03	9	760	< 2	< 2	3	353	0.02	< 10	< 10	36	20	20
H940313	299	229	0.04	8	890	< 2	< 2	4	204	0.02	< 10	< 10	39	10	20
H940314	299	229	0.03	11	550	< 2	< 2	6	97	0.02	< 10	< 10	48	10	26
H940315	299	229	0.03	14	680	< 2	< 2	7	133	0.03	< 10	< 10	54	20	28
H940316	299	229	0.03	10	520	< 2	< 2	6	134	0.02	< 10	< 10	54	< 10	20
H940317	299	229	0.02	11	580	< 2	< 2	4	56	0.01	< 10	< 10	43	10	24
H940318	299	229	0.03	10	570	< 2	< 2	4	88	0.01	< 10	< 10	47	10	22
H940319	299	229	0.03	10	580	< 2	< 2	5	66	0.02	< 10	< 10	47	10	22
H940320	299	229	0.04	13	620	< 2	< 2	6	77	0.03	< 10	< 10	51	10	26
H940321	299	229	0.03	14	610	< 2	< 2	5	169	0.01	< 10	< 10	49	10	24

CERTIFICATION: Stuart Bichler

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CERTIFICATE OF ANALYSIS A9324607

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940322	299	229	0.2	1.38	< 2	40	< 0.5	< 2	1.95	< 0.5	13	66	335	3.92	10	< 1	0.20	30	1.14	180	70
H940323	299	229	0.4	1.14	< 2	50	< 0.5	2	4.80	< 0.5	13	49	490	3.30	< 10	< 1	0.20	10	0.87	325	34
H940324	299	229	0.8	1.07	12	60	< 0.5	< 2	4.60	< 0.5	19	50	875	4.18	< 10	< 1	0.23	30	0.82	350	65
H940325	299	229	0.2	1.25	< 2	50	< 0.5	< 2	2.22	< 0.5	17	60	395	3.25	< 10	< 1	0.31	30	1.02	175	188
H940326	299	229	0.4	1.34	2	60	< 0.5	< 2	2.08	< 0.5	17	64	412	3.55	10	< 1	0.33	30	1.05	170	148
H940327	299	229	0.4	1.32	< 2	40	< 0.5	< 2	2.15	< 0.5	15	67	428	3.18	< 10	< 1	0.32	30	1.07	170	123
H940328	299	229	0.4	1.08	2	70	< 0.5	< 2	2.39	< 0.5	16	73	453	3.09	< 10	< 1	0.35	30	0.90	165	186
H940329	299	229	1.4	0.96	< 2	80	< 0.5	< 2	2.15	< 0.5	23	88	1305	2.96	< 10	< 1	0.45	30	0.92	165	141
H940330	299	229	0.6	1.47	< 2	130	< 0.5	< 2	2.14	< 0.5	14	78	766	2.47	< 10	< 1	0.72	30	1.13	155	148
H940331	299	229	0.6	1.28	< 2	100	< 0.5	< 2	2.10	< 0.5	16	78	850	2.98	< 10	< 1	0.47	20	0.96	145	124
H940332	299	229	0.2	1.30	< 2	130	< 0.5	< 2	2.11	< 0.5	12	63	298	2.94	< 10	< 1	0.59	30	1.03	155	72
H940333	299	229	0.8	1.15	< 2	80	< 0.5	< 2	2.59	< 0.5	24	58	878	3.67	< 10	< 1	0.42	30	0.85	170	69
H940334	299	229	0.6	1.26	< 2	160	< 0.5	< 2	2.44	< 0.5	15	64	569	3.33	< 10	< 1	0.68	30	1.13	175	30
H940335	299	229	0.4	1.33	< 2	100	< 0.5	< 2	3.78	< 0.5	28	78	731	3.51	< 10	< 1	0.76	40	1.12	240	69
H940336	299	229	0.6	1.01	2	120	< 0.5	< 2	2.91	< 0.5	27	66	897	3.34	< 10	< 1	0.50	50	1.07	180	105
H940337	299	229	0.6	1.28	2	220	< 0.5	< 2	2.42	< 0.5	13	61	690	2.14	< 10	< 1	0.61	20	1.01	140	32
H940338	299	229	1.4	1.29	< 2	100	< 0.5	< 2	1.79	< 0.5	36	62	1515	4.02	< 10	< 1	0.49	20	0.93	155	148
H940339	299	229	1.6	1.66	< 2	130	< 0.5	< 2	1.93	< 0.5	32	91	1650	3.58	< 10	< 1	0.81	30	1.24	180	95
H940340	299	229	1.0	1.54	8	140	< 0.5	< 2	2.19	< 0.5	15	109	1215	2.80	10	< 1	0.66	30	1.10	170	105
H940341	299	229	1.2	1.68	< 2	100	< 0.5	< 2	2.99	< 0.5	24	95	1460	2.94	< 10	< 1	0.79	30	1.33	195	154
H940342	299	229	0.6	1.39	2	80	< 0.5	< 2	5.10	< 0.5	21	108	952	4.54	10	< 1	0.64	30	1.46	215	93
H940343	299	229	1.2	1.51	< 2	90	< 0.5	< 2	2.84	< 0.5	19	99	1360	3.44	10	< 1	0.56	20	1.08	140	52
H940344	299	229	0.6	1.49	< 2	90	< 0.5	2	1.87	< 0.5	8	104	678	4.08	< 10	< 1	0.48	20	1.03	155	90
H940345	299	229	0.6	1.66	< 2	80	< 0.5	< 2	1.36	< 0.5	17	116	781	3.91	< 10	< 1	0.42	10	1.18	165	47
H940346	299	229	0.8	1.39	< 2	80	< 0.5	2	1.37	< 0.5	19	99	1015	3.38	< 10	< 1	0.37	20	0.98	140	69
H940347	299	229	0.6	1.50	< 2	90	< 0.5	2	1.71	< 0.5	16	114	939	4.26	< 10	< 1	0.43	20	1.02	170	129
H940348	299	229	0.4	1.41	< 2	90	< 0.5	< 2	2.10	< 0.5	13	102	631	3.60	< 10	< 1	0.45	20	0.97	195	176

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 240
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-B
Total Pages :3
Certificate Date: 19-NOV-93
Invoice No. :I9324607
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324607

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940322	299	229	0.02	10	650	< 2	< 2	6	225	0.01	< 10	< 10	56	10	24
H940323	299	229	0.02	9	660	< 2	< 2	5	143	< 0.01	< 10	< 10	38	10	20
H940324	299	229	0.02	13	650	< 2	2	6	91	0.01	< 10	< 10	38	10	24
H940325	299	229	0.02	13	720	< 2	< 2	6	77	0.02	< 10	< 10	43	10	20
H940326	299	229	0.02	12	670	< 2	< 2	6	149	0.02	< 10	< 10	46	10	20
H940327	299	229	0.02	13	640	< 2	< 2	5	90	0.02	< 10	< 10	40	10	20
H940328	299	229	0.02	11	620	< 2	< 2	5	189	0.02	< 10	< 10	39	10	20
H940329	299	229	0.03	13	510	< 2	< 2	7	53	0.04	< 10	< 10	49	10	20
H940330	299	229	0.03	10	720	4	< 2	8	132	0.09	< 10	< 10	57	10	22
H940331	299	229	0.03	10	590	2	< 2	6	133	0.06	< 10	< 10	48	30	18
H940332	299	229	0.03	9	630	< 2	< 2	7	120	0.08	< 10	< 10	51	10	18
H940333	299	229	0.03	12	750	< 2	< 2	6	60	0.04	< 10	< 10	46	10	18
H940334	299	229	0.04	11	750	< 2	< 2	7	111	0.09	< 10	< 10	49	10	22
H940335	299	229	0.03	14	890	< 2	< 2	7	98	0.08	< 10	< 10	55	10	20
H940336	299	229	0.03	11	700	< 2	< 2	6	99	0.04	< 10	< 10	42	10	18
H940337	299	229	0.03	9	650	2	< 2	6	324	0.09	< 10	< 10	47	< 10	18
H940338	299	229	0.04	15	760	< 2	< 2	6	125	0.06	< 10	< 10	47	20	22
H940339	299	229	0.04	18	630	< 2	< 2	7	82	0.10	< 10	< 10	69	10	24
H940340	299	229	0.04	14	670	< 2	< 2	5	157	0.04	< 10	< 10	47	< 10	22
H940341	299	229	0.04	13	680	2	< 2	7	81	0.08	< 10	< 10	57	10	22
H940342	299	229	0.04	14	670	< 2	< 2	6	168	0.05	< 10	< 10	49	20	24
H940343	299	229	0.04	12	790	< 2	< 2	4	155	0.05	< 10	< 10	50	20	22
H940344	299	229	0.06	10	750	< 2	< 2	5	107	0.04	< 10	< 10	49	20	22
H940345	299	229	0.08	12	840	< 2	< 2	6	79	0.04	< 10	< 10	47	10	24
H940346	299	229	0.06	12	650	< 2	< 2	4	85	0.03	< 10	< 10	46	20	20
H940347	299	229	0.06	12	860	< 2	< 2	4	114	0.03	< 10	< 10	47	10	24
H940348	299	229	0.06	12	820	< 2	< 2	4	176	0.03	< 10	< 10	41	10	24

CERTIFICATION: Hans Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 241
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-NOV-93
Invoice No. :I9324480
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324480

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H941064	208	274	0.02	0.052	0.10	5120						
H941065	208	274	0.02	0.067	0.10	4340						
H941066	208	274	0.01	0.105	0.07	4360						
H941067	208	274	0.02	0.038	0.17	6520						
H941068	208	276	0.03	0.125	0.10	8740						
H941069	208	276	0.03	0.100	0.17	11500						
H941070	208	276	0.02	0.089	0.10	11420						
H941071	208	276	0.02	0.084	0.17	9040						
H941072	208	276	0.02	0.115	0.14	9760						
H941073	208	276	0.02	0.343	0.17	9780						
H941074	208	276	0.09	0.225	0.10	8860						
H941075	208	274	0.10	0.125	0.10	6260						
H941076	208	274	0.08	0.112	0.21	6780						
H941077	208	276	0.16	0.119	0.17	10000						
H941078	208	276	0.34	0.087	0.21	8760						
H941079	208	276	0.38	0.052	0.24	7660						
H941080	208	276	0.15	0.082	0.14	8020						
H941081	208	276	0.31	0.054	0.27	10420						
H941082	208	276	0.26	0.035	0.24	8580						
H941083	208	274	0.32	0.178	0.14	5140						
H941084	208	276	0.49	0.054	0.24	8360						
H941085	208	274	0.37	0.077	0.17	6940						
H941086	208	276	0.45	0.116	0.21	11620						
H941087	208	274	0.34	0.115	0.10	6880						
H941088	208	276	0.26	0.040	0.17	8720						
H941089	208	276	0.14	0.057	0.07	7940						
H941090	208	274	0.29	0.085	0.17	6700						
H941091	208	276	0.47	0.036	0.31	8380						
H941092	208	274	0.31	0.070	0.24	5900						
H941093	208	276	0.20	0.044	0.14	9220						
H941094	208	276	0.24	0.071	0.17	10860						
H941095	208	273	0.18	0.147	0.10	12000						
H941096	208	276	0.36	0.054	0.34	9980						
H941097	208	273	0.24	0.028	0.21	12660						
H941098	208	273	0.23	0.041	0.17	12380						
H941099	208	276	0.26	0.079	0.14	10440						
H941100	208	273	0.22	0.055	0.17	13440						
H941101	208	273	0.18	0.068	0.14	12580						
H941102	208	273	0.23	0.036	0.24	12900						
H941103	208	273	0.19	0.049	0.21	13300						

CERTIFICATION: A C Smith

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 241
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 18-NOV-93
Invoice No. :19324480
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324480

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H941104	208	273	0.13	0.121	0.07	12940						
H941105	208	273	0.08	0.083	0.03	12760						
H941106	208	273	0.27	0.060	0.21	13560						
H941107	208	273	0.13	0.095	0.10	13120						
H941108	208	273	0.11	0.057	0.10	12500						
H941109	208	273	0.12	0.055	0.10	12600						
H941110	208	273	0.20	0.038	0.14	12980						
H941111	208	273	0.12	0.060	0.14	12440						
H941112	208	273	0.17	0.244	0.17	13840						
H941113	208	273	0.15	0.058	0.14	13020						
H941114	208	273	0.16	0.149	0.14	13080						
H941115	208	273	0.12	0.067	0.10	12480						
H941116	208	273	0.13	0.039	0.10	13360						
H941117	208	273	0.10	0.052	0.21	13800						
H941118	208	273	0.11	0.051	0.07	12880						
H941119	208	273	0.12	0.082	0.03	12900						
H941120	208	273	0.12	0.062	0.10	13480						
H941121	208	273	0.15	0.155	0.10	14200						
H941122	208	273	0.13	0.113	0.10	13040						
H941123	208	273	0.15	0.072	0.14	13300						
H941124	208	273	0.13	0.240	0.10	13600						
H941125	208	273	0.11	0.055	0.03	14200						
H941126	208	273	0.13	0.060	0.07	13440						
H941127	208	273	0.15	0.041	0.07	14040						
H941128	208	273	0.08	0.008	0.07	13660						
H941129	208	273	0.05	0.001	< 0.03	12140						
H941130	208	273	0.11	0.045	0.17	12720						
H941131	208	273	0.10	0.032	< 0.03	12860						
H941132	208	273	0.09	0.093	< 0.03	13520						
H941133	208	273	0.11	0.035	< 0.03	12920						
H941134	208	273	0.11	0.058	0.07	14000						
H941135	208	273	0.07	0.071	< 0.03	13420						
H941136	208	273	0.06	0.064	0.48	12700						
H941137	208	273	0.08	0.098	0.31	11920						
H941138	208	273	0.07	0.022	0.07	12020						
H941139	208	276	0.07	0.154	0.10	11400						
H941140	208	273	0.08	0.044	< 0.03	12940						
H941141	208	273	0.08	0.052	< 0.03	13300						

CERTIFICATION: A Brushe

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 241
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number : 1-A
Total Pages : 2
Certificate Date: 18-NOV-93
Invoice No. : 19324481
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324481

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H941064	299	229	1.2	0.79	< 2	300	< 0.5	2	0.15	< 0.5	1	107	155	1.35	< 10	< 1	0.30	20	0.14	20	286
H941065	299	229	1.2	1.02	2	370	< 0.5	< 2	0.21	< 0.5	1	72	221	1.69	< 10	< 1	0.27	30	0.17	25	413
H941066	299	229	1.2	0.93	6	570	< 0.5	< 2	0.10	< 0.5	1	55	154	1.53	< 10	< 1	0.35	20	0.12	10	762
H941067	299	229	1.6	1.45	2	330	< 0.5	< 2	0.13	< 0.5	1	71	187	1.31	< 10	< 1	0.27	20	0.14	15	234
H941068	299	229	1.8	1.31	4	460	< 0.5	2	0.11	< 0.5	1	91	273	2.74	< 10	< 1	0.38	20	0.16	15	833
H941069	299	229	1.8	1.10	10	660	< 0.5	< 2	0.06	< 0.5	1	83	265	2.34	< 10	< 1	0.32	20	0.14	10	601
H941070	299	229	2.0	0.80	66	690	< 0.5	6	0.03	< 0.5	< 1	83	174	1.61	< 10	< 1	0.33	10	0.12	10	553
H941071	299	229	2.2	0.83	36	980	< 0.5	2	0.02	< 0.5	1	71	134	1.37	< 10	< 1	0.33	10	0.12	10	513
H941072	299	229	1.4	1.45	34	280	< 0.5	< 2	0.03	< 0.5	1	136	229	2.02	< 10	< 1	0.19	10	0.18	10	713
H941073	299	229	0.8	1.86	20	120	< 0.5	< 2	0.03	< 0.5	1	87	200	2.00	< 10	< 1	0.21	10	0.21	10	1915
H941074	299	229	1.4	1.27	24	200	< 0.5	< 2	0.03	< 0.5	3	101	874	2.73	< 10	< 1	0.21	10	0.16	20	1365
H941075	299	229	1.0	1.66	6	140	< 0.5	2	0.01	< 0.5	2	80	928	2.17	< 10	< 1	0.26	10	0.16	15	810
H941076	299	229	1.8	3.34	6	370	< 0.5	< 2	0.02	< 0.5	2	44	728	1.71	< 10	< 1	0.25	< 10	0.44	30	754
H941077	299	229	1.0	1.87	10	160	< 0.5	2	0.03	< 0.5	4	56	1495	1.70	< 10	< 1	0.20	< 10	0.22	15	726
H941078	299	229	1.8	2.21	8	220	< 0.5	< 2	0.05	< 0.5	7	33	3190	1.76	< 10	< 1	0.30	10	0.48	35	497
H941079	299	229	1.6	4.16	14	320	< 0.5	< 2	0.04	< 0.5	9	59	3720	1.91	< 10	< 1	0.52	10	0.87	95	308
H941080	299	229	2.0	1.31	20	200	< 0.5	2	0.01	< 0.5	6	77	1485	1.64	< 10	< 1	0.50	20	0.22	15	516
H941081	299	229	2.2	1.37	16	120	< 0.5	< 2	0.01	< 0.5	10	91	3240	1.70	< 10	< 1	0.37	20	0.14	10	355
H941082	299	229	2.0	0.96	18	120	< 0.5	2	0.01	< 0.5	5	85	2750	1.42	< 10	< 1	0.35	20	0.12	15	246
H941083	299	229	1.6	1.14	6	110	< 0.5	2	0.01	< 0.5	7	87	3230	1.49	< 10	< 1	0.32	10	0.11	10	1070
H941084	299	229	1.8	1.47	8	110	< 0.5	< 2	0.02	< 0.5	10	52	5050	1.37	< 10	< 1	0.34	20	0.17	10	320
H941085	299	229	1.8	1.55	6	120	< 0.5	2	0.02	< 0.5	7	114	3710	1.22	< 10	< 1	0.41	20	0.16	15	471
H941086	299	229	2.2	1.20	8	100	< 0.5	4	0.03	< 0.5	8	83	4600	1.35	< 10	< 1	0.41	20	0.15	15	710
H941087	299	229	1.4	1.39	18	130	< 0.5	2	0.02	< 0.5	7	94	3360	1.15	< 10	< 1	0.48	20	0.15	10	720
H941088	299	229	1.6	1.60	10	240	< 0.5	< 2	0.02	0.5	7	103	2530	1.00	< 10	< 1	0.33	30	0.27	20	250
H941089	299	229	0.8	1.19	12	130	< 0.5	2	0.01	< 0.5	6	205	1430	1.21	< 10	< 1	0.46	20	0.13	15	366
H941090	299	229	1.8	0.81	14	80	< 0.5	< 2	0.01	< 0.5	8	55	2780	1.22	< 10	< 1	0.27	20	0.12	10	528
H941091	299	229	2.8	1.61	18	150	< 0.5	< 2	0.04	0.5	22	61	5070	2.10	< 10	< 1	0.38	20	0.27	25	235
H941092	299	229	2.4	1.14	40	110	< 0.5	2	0.05	1.5	9	129	3150	1.58	< 10	< 1	0.38	20	0.14	15	435
H941093	299	229	1.0	0.71	2	80	< 0.5	< 2	0.02	< 0.5	6	98	1950	1.35	< 10	< 1	0.23	10	0.09	10	285
H941094	299	229	1.2	0.79	8	80	< 0.5	< 2	0.02	< 0.5	7	84	2440	1.76	< 10	< 1	0.24	20	0.10	10	458
H941095	299	229	0.8	0.83	8	110	< 0.5	2	0.03	< 0.5	11	112	1785	2.25	< 10	< 1	0.36	20	0.11	15	886
H941096	299	229	3.0	1.18	12	130	< 0.5	2	0.03	< 0.5	6	56	3720	1.31	< 10	< 1	0.22	20	0.13	10	321
H941097	299	229	1.6	1.45	8	190	< 0.5	< 2	0.12	< 0.5	14	117	2460	1.58	< 10	< 1	0.33	20	0.16	75	180
H941098	299	229	1.6	1.55	12	200	< 0.5	< 2	0.08	0.5	11	98	2360	1.26	< 10	< 1	0.36	20	0.23	30	260
H941099	299	229	1.8	2.07	6	220	< 0.5	< 2	0.09	0.5	11	95	2660	1.38	< 10	< 1	0.57	20	0.44	35	473
H941100	299	229	1.4	1.57	8	190	< 0.5	< 2	0.09	0.5	11	71	2230	1.23	< 10	< 1	0.40	20	0.22	20	322
H941101	299	229	1.2	1.32	6	180	< 0.5	< 2	0.11	1.0	12	87	1705	1.66	< 10	< 1	0.36	20	0.15	150	399
H941102	299	229	1.8	0.99	2	140	< 0.5	< 2	0.24	1.0	20	56	2310	2.70	< 10	< 1	0.29	30	0.27	395	226
H941103	299	229	1.6	1.01	4	130	< 0.5	< 2	0.37	< 0.5	22	78	1930	3.46	< 10	< 1	0.47	20	0.32	495	302

CERTIFICATION: Stewart Buchan

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WHITEHORSE, YT
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Project : CASINO 241
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :2
Certificate Date: 18-NOV-93
Invoice No. :I9324481
P.O. Number :
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CERTIFICATE OF ANALYSIS A9324481

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H941064	299	229	0.03	2	180	8	< 2	1	40	< 0.01	< 10	< 10	3	< 10	8
H941065	299	229	0.07	2	300	8	< 2	1	59	< 0.01	< 10	< 10	3	< 10	12
H941066	299	229	0.05	2	330	8	< 2	1	46	< 0.01	< 10	< 10	2	< 10	4
H941067	299	229	0.07	1	340	10	< 2	1	70	< 0.01	< 10	< 10	6	< 10	8
H941068	299	229	0.04	1	480	8	< 2	1	41	< 0.01	< 10	< 10	5	< 10	8
H941069	299	229	0.06	1	500	10	< 2	1	45	< 0.01	< 10	< 10	3	< 10	14
H941070	299	229	0.02	1	310	12	10	< 1	26	< 0.01	< 10	< 10	2	< 10	4
H941071	299	229	0.03	1	280	8	4	< 1	21	< 0.01	< 10	< 10	2	< 10	6
H941072	299	229	0.05	3	470	2	2	1	25	< 0.01	< 10	< 10	4	< 10	14
H941073	299	229	0.01	2	510	< 2	4	2	11	< 0.01	< 10	< 10	2	< 10	14
H941074	299	229	0.02	4	650	2	4	1	11	< 0.01	< 10	< 10	4	< 10	12
H941075	299	229	0.01	3	680	4	2	2	6	< 0.01	< 10	< 10	6	< 10	10
H941076	299	229	0.02	4	500	10	< 2	3	10	< 0.01	< 10	< 10	16	< 10	16
H941077	299	229	0.02	2	570	< 2	< 2	2	7	< 0.01	< 10	< 10	11	< 10	12
H941078	299	229	0.02	3	450	6	< 2	1	10	< 0.01	< 10	< 10	15	< 10	24
H941079	299	229	0.03	6	690	10	< 2	7	13	0.04	< 10	< 10	49	< 10	38
H941080	299	229	0.01	2	560	< 2	< 2	1	8	< 0.01	< 10	< 10	12	< 10	8
H941081	299	229	0.01	4	550	2	2	2	8	< 0.01	< 10	< 10	9	< 10	12
H941082	299	229	0.01	3	420	2	< 2	1	8	< 0.01	< 10	< 10	7	< 10	14
H941083	299	229	0.01	4	460	< 2	2	1	7	< 0.01	< 10	< 10	3	< 10	16
H941084	299	229	< 0.01	4	740	4	2	2	11	< 0.01	< 10	< 10	10	< 10	18
H941085	299	229	0.01	5	520	2	< 2	1	9	< 0.01	< 10	< 10	9	< 10	18
H941086	299	229	0.01	5	390	6	2	1	8	< 0.01	< 10	< 10	6	< 10	22
H941087	299	229	0.01	4	410	12	6	1	15	< 0.01	< 10	< 10	7	< 10	18
H941088	299	229	< 0.01	4	490	6	2	3	10	< 0.01	10	< 10	16	< 10	22
H941089	299	229	0.01	6	270	4	2	1	9	< 0.01	< 10	< 10	7	< 10	12
H941090	299	229	< 0.01	4	340	4	2	1	5	< 0.01	10	< 10	4	< 10	14
H941091	299	229	< 0.01	6	780	4	4	3	8	< 0.01	< 10	< 10	22	< 10	28
H941092	299	229	< 0.01	7	390	4	12	2	8	< 0.01	< 10	< 10	9	< 10	36
H941093	299	229	< 0.01	4	390	2	< 2	1	8	< 0.01	< 10	< 10	4	< 10	10
H941094	299	229	< 0.01	5	410	2	2	< 1	7	< 0.01	< 10	< 10	3	< 10	16
H941095	299	229	0.01	5	310	2	4	< 1	9	< 0.01	< 10	< 10	2	< 10	14
H941096	299	229	< 0.01	4	490	6	2	1	8	< 0.01	< 10	< 10	9	< 10	18
H941097	299	229	0.03	8	630	6	< 2	2	18	< 0.01	< 10	< 10	18	< 10	24
H941098	299	229	0.02	8	590	8	< 2	3	19	0.01	< 10	< 10	22	< 10	18
H941099	299	229	0.03	9	690	12	< 2	6	18	0.03	< 10	< 10	35	< 10	20
H941100	299	229	0.02	8	560	10	< 2	3	18	< 0.01	< 10	< 10	18	< 10	20
H941101	299	229	0.02	8	440	2	2	2	19	< 0.01	< 10	< 10	14	< 10	42
H941102	299	229	0.03	7	650	4	< 2	3	19	< 0.01	< 10	< 10	19	< 10	84
H941103	299	229	0.02	6	570	2	< 2	3	17	< 0.01	< 10	< 10	15	< 10	70

CERTIFICATION: Stuart Bichler

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 241
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :2
Certificate Date: 18-NOV-93
Invoice No. :I9324481
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324481

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H941104	299	229	1.0	1.21	8	230	< 0.5	< 2	0.25	0.5	14	172	1240	2.37	< 10	< 1	0.54	20	0.31	345	719
H941105	299	229	0.8	1.14	12	170	< 0.5	< 2	0.16	< 0.5	14	197	789	2.34	< 10	< 1	0.51	30	0.17	280	523
H941106	299	229	2.0	1.40	14	180	< 0.5	< 2	0.60	< 0.5	17	152	2650	2.83	< 10	< 1	0.72	30	0.68	330	342
H941107	299	229	1.2	1.07	8	190	< 0.5	< 2	0.20	< 0.5	10	229	1335	2.06	< 10	< 1	0.53	20	0.18	150	576
H941108	299	229	0.8	1.06	6	140	< 0.5	< 2	0.18	< 0.5	13	195	1095	2.28	< 10	< 1	0.47	20	0.18	210	359
H941109	299	229	1.0	1.13	2	210	< 0.5	< 2	0.97	< 0.5	8	233	1100	1.93	< 10	< 1	0.57	20	0.43	150	317
H941110	299	229	1.8	1.04	6	220	< 0.5	2	1.47	0.5	7	185	1815	1.63	< 10	< 1	0.50	30	0.48	225	216
H941111	299	229	1.2	1.45	4	220	< 0.5	< 2	0.76	< 0.5	11	222	1170	1.74	< 10	< 1	0.62	30	0.70	155	353
H941112	299	229	1.8	1.55	8	190	< 0.5	< 2	0.67	0.5	13	192	1695	2.26	< 10	< 1	0.73	30	0.73	200	1465
H941113	299	229	1.4	1.16	6	190	< 0.5	< 2	0.54	< 0.5	9	225	1405	1.62	< 10	< 1	0.55	30	0.39	175	362
H941114	299	229	1.4	1.18	2	180	< 0.5	< 2	1.11	< 0.5	7	157	1550	1.51	< 10	< 1	0.49	30	0.62	150	911
H941115	299	229	1.2	1.40	4	170	< 0.5	< 2	1.02	< 0.5	7	177	1110	1.52	< 10	< 1	0.55	30	0.76	100	369
H941116	299	229	1.2	1.47	4	220	< 0.5	< 2	1.01	< 0.5	8	140	1245	1.67	< 10	< 1	0.50	30	0.92	115	214
H941117	299	229	1.0	1.70	14	220	< 0.5	< 2	1.19	< 0.5	7	119	907	1.82	< 10	< 1	0.59	30	1.06	155	284
H941118	299	229	1.2	1.43	4	130	< 0.5	< 2	1.20	< 0.5	5	117	948	1.23	< 10	< 1	0.46	30	0.80	100	271
H941119	299	229	1.4	1.15	4	250	< 0.5	< 2	1.73	< 0.5	9	133	1100	2.16	< 10	< 1	0.50	40	0.57	160	489
H941120	299	229	1.2	0.92	< 2	160	< 0.5	< 2	1.04	< 0.5	12	191	1155	1.85	< 10	< 1	0.42	30	0.53	210	356
H941121	299	229	1.6	0.80	16	120	< 0.5	2	2.06	< 0.5	19	148	1390	3.15	< 10	< 1	0.40	30	0.68	520	836
H941122	299	229	1.2	0.74	4	110	< 0.5	< 2	0.82	< 0.5	12	85	1290	2.31	< 10	< 1	0.44	30	0.55	195	654
H941123	299	229	1.4	0.80	< 2	150	< 0.5	< 2	0.83	< 0.5	9	128	1415	1.69	< 10	< 1	0.41	40	0.50	185	419
H941124	299	229	1.4	0.82	< 2	170	< 0.5	< 2	1.30	< 0.5	13	205	1250	2.39	< 10	< 1	0.40	40	0.59	355	1365
H941125	299	229	1.2	0.87	< 2	230	< 0.5	< 2	1.13	< 0.5	18	127	997	2.47	< 10	< 1	0.45	40	0.67	240	313
H941126	299	229	1.2	0.71	16	270	< 0.5	< 2	2.17	< 0.5	10	100	1260	1.98	< 10	< 1	0.26	20	0.66	370	324
H941127	299	229	1.8	0.80	12	130	< 0.5	< 2	1.52	< 0.5	15	154	1505	2.76	< 10	< 1	0.40	20	0.52	225	237
H941128	299	229	1.0	1.10	12	100	< 0.5	< 2	1.73	< 0.5	7	90	707	3.33	< 10	< 1	0.47	20	0.82	270	50
H941129	299	229	0.6	0.79	4	70	< 0.5	< 2	2.12	< 0.5	10	75	488	3.47	< 10	< 1	0.29	10	0.87	350	5
H941130	299	229	12.8	0.47	70	40	< 0.5	4	2.09	6.5	12	76	994	2.78	< 10	< 1	0.21	10	0.17	290	250
H941131	299	229	1.2	0.55	86	60	< 0.5	< 2	1.84	< 0.5	9	154	921	1.72	< 10	< 1	0.26	10	0.40	630	181
H941132	299	229	0.8	0.93	20	60	< 0.5	< 2	3.00	< 0.5	7	92	807	1.61	< 10	< 1	0.30	10	0.91	370	530
H941133	299	229	1.2	1.06	20	110	< 0.5	< 2	2.80	< 0.5	11	106	1045	2.07	< 10	< 1	0.34	10	0.63	260	193
H941134	299	229	1.2	1.02	6	240	< 0.5	< 2	2.04	< 0.5	7	61	1045	1.61	< 10	< 1	0.46	20	0.68	125	331
H941135	299	229	0.8	1.08	10	630	< 0.5	< 2	2.59	< 0.5	4	89	679	1.03	< 10	< 1	0.33	20	0.47	240	394
H941136	299	229	38.6	0.58	108	90	< 0.5	< 2	3.27	10.5	7	82	496	1.12	< 10	< 1	0.30	20	0.15	1130	366
H941137	299	229	51.4	0.65	174	180	< 0.5	< 2	2.82	11.0	10	111	768	1.52	< 10	< 1	0.36	10	0.24	1215	575
H941138	299	229	1.2	0.98	28	280	< 0.5	< 2	1.48	< 0.5	17	108	651	1.77	< 10	< 1	0.49	20	0.59	485	125
H941139	299	229	38.8	0.81	34	100	< 0.5	< 2	2.36	58.0	12	126	701	2.41	< 10	< 1	0.40	20	0.48	435	887
H941140	299	229	1.2	0.84	4	160	< 0.5	< 2	1.98	< 0.5	14	71	681	1.61	< 10	< 1	0.33	20	0.74	255	241
H941141	299	229	1.0	0.91	8	230	< 0.5	< 2	1.90	< 0.5	8	97	724	1.70	< 10	< 1	0.34	20	0.74	150	293

CERTIFICATION: Peter H. Paradis

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 241
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :2
Certificate Date: 18-NOV-93
Invoice No. :I9324481
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324481

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H941104	299	229	0.03	7	410	14	2	3	21	< 0.01	< 10	< 10	18	< 10	66
H941105	299	229	0.02	6	290	12	< 2	2	13	< 0.01	< 10	< 10	10	< 10	62
H941106	299	229	0.03	6	570	< 2	2	8	17	0.04	< 10	< 10	49	< 10	56
H941107	299	229	0.02	6	250	4	4	1	10	< 0.01	< 10	< 10	5	< 10	34
H941108	299	229	0.01	7	370	2	2	1	17	< 0.01	< 10	< 10	8	< 10	48
H941109	299	229	0.03	4	390	2	< 2	2	25	< 0.01	< 10	< 10	11	< 10	26
H941110	299	229	0.02	5	410	44	2	3	24	< 0.01	< 10	< 10	17	< 10	50
H941111	299	229	0.07	7	470	2	2	4	27	0.01	< 10	< 10	28	< 10	52
H941112	299	229	0.05	6	470	< 2	4	4	28	0.02	< 10	< 10	27	< 10	60
H941113	299	229	0.08	6	300	2	< 2	3	31	0.01	< 10	< 10	22	< 10	44
H941114	299	229	0.04	4	270	< 2	2	3	26	0.01	< 10	< 10	22	< 10	22
H941115	299	229	0.05	4	340	4	2	4	27	0.02	< 10	< 10	30	< 10	20
H941116	299	229	0.04	4	390	4	2	5	38	0.03	< 10	< 10	35	< 10	20
H941117	299	229	0.04	3	510	< 2	2	8	29	0.07	< 10	< 10	51	< 10	26
H941118	299	229	0.03	3	380	4	2	6	28	0.03	10	< 10	36	< 10	18
H941119	299	229	0.03	6	470	< 2	2	6	26	0.04	10	< 10	33	< 10	22
H941120	299	229	0.06	6	380	2	< 2	3	27	0.01	10	< 10	23	< 10	32
H941121	299	229	0.02	5	420	< 2	2	3	38	0.01	10	< 10	17	< 10	52
H941122	299	229	0.02	4	420	< 2	2	3	23	0.01	10	< 10	20	< 10	34
H941123	299	229	0.04	5	390	< 2	< 2	3	30	0.02	10	< 10	23	< 10	36
H941124	299	229	0.04	5	410	2	2	3	35	0.01	10	< 10	17	< 10	46
H941125	299	229	0.04	4	470	< 2	2	4	43	0.02	10	< 10	24	< 10	36
H941126	299	229	0.01	4	450	2	4	4	48	< 0.01	10	< 10	16	< 10	26
H941127	299	229	0.02	5	450	2	8	2	50	< 0.01	10	< 10	12	< 10	24
H941128	299	229	0.03	10	800	2	8	3	58	0.01	10	< 10	20	30	26
H941129	299	229	0.01	9	770	4	4	1	29	< 0.01	10	< 10	10	10	26
H941130	299	229	< 0.01	7	430	154	80	2	16	< 0.01	< 10	< 10	5	< 10	508
H941131	299	229	< 0.01	4	350	16	42	2	17	< 0.01	10	< 10	9	< 10	50
H941132	299	229	0.01	3	340	6	20	4	26	< 0.01	10	< 10	16	< 10	24
H941133	299	229	0.01	6	460	< 2	14	3	33	< 0.01	10	< 10	14	< 10	24
H941134	299	229	0.04	3	510	4	2	4	89	0.02	10	< 10	24	< 10	18
H941135	299	229	0.01	3	360	6	6	4	128	0.01	10	< 10	24	< 10	18
H941136	299	229	< 0.01	3	330	162	98	1	27	< 0.01	10	< 10	4	< 10	354
H941137	299	229	< 0.01	3	390	310	192	1	36	< 0.01	10	< 10	6	< 10	378
H941138	299	229	0.01	4	370	8	12	4	30	0.01	10	< 10	22	< 10	18
H941139	299	229	0.01	4	320	1555	54	3	28	< 0.01	10	< 10	14	< 10	1735
H941140	299	229	0.01	4	380	4	18	3	46	0.01	10	< 10	18	< 10	26
H941141	299	229	0.02	3	400	6	8	4	103	0.01	10	< 10	22	< 10	22

CERTIFICATION: Stuart Bichler

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO 242
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 19-NOV-93
Invoice No. : I9324621
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324621

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H588270	208	274	0.18	0.008	0.14	1640
H588271	208	274	0.10	0.005	0.17	1960
H588272	208	274	0.54	0.003	0.17	3520
H588273	208	274	0.79	0.005	0.27	2380
H588274	208	276	0.39	0.005	0.10	7520
H588275	208	274	0.23	0.005	0.14	6800
H588276	208	274	0.31	0.004	0.03	4300
H588277	208	274	0.59	0.007	0.21	1660
H588278	208	274	0.75	0.006	0.21	2220
H588279	208	274	0.18	0.009	0.14	3980
H588280	208	274	0.18	0.006	0.07	5860
H588281	208	276	0.17	0.009	0.14	7760
H588282	208	276	0.20	0.007	0.10	9420
H588283	208	274	0.27	0.009	0.07	4660
H588284	208	276	0.26	0.007	0.14	7760
H588285	208	274	0.42	0.004	0.14	5260
H588286	208	276	0.18	0.015	0.14	8740
H588287	208	276	0.17	0.013	0.17	10180
H588288	208	276	0.16	0.032	0.14	9340
H588289	208	276	0.14	0.020	0.10	8480
H588290	208	274	0.09	0.009	0.07	6940
H588291	208	276	0.18	0.043	0.21	8660
H588292	208	276	0.16	0.019	0.24	10500
H588293	208	276	0.12	0.014	0.14	11420
H588294	208	276	0.16	0.009	0.21	8640
H588295	208	276	0.21	0.035	0.27	8200
H588296	208	273	0.14	0.020	0.17	14300
H588297	208	274	0.18	0.012	0.21	5480
H588298	208	276	0.11	0.016	0.10	11780
H588299	208	274	0.15	0.017	0.24	4280
H588300	208	276	0.11	0.010	0.10	11720
H588301	208	273	0.14	0.032	0.10	12040
H588302	208	276	0.20	0.011	0.24	11640
H588303	208	273	0.18	0.042	0.21	12000
H588304	208	273	0.13	0.012	0.10	13300
H588305	208	273	0.12	0.008	0.10	12620
H588306	208	273	0.12	0.006	0.10	12640
H588307	208	273	0.14	0.016	0.14	11840
H588308	208	273	0.11	0.010	0.10	13080
H588309	208	273	0.10	0.010	0.14	13260

CERTIFICATION: D. Thrasher

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CERTIFICATE OF ANALYSIS A9324621

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588310	208	273	0.11	0.012	0.10	13180						
H588311	208	273	0.11	0.014	0.10	14180						
H588312	208	273	0.16	0.007	0.21	13180						
H588313	208	273	0.15	0.031	0.17	14140						
H588314	208	273	0.14	0.016	0.10	13160						
H588315	208	273	0.13	0.007	0.17	13940						
H588316	208	273	0.15	0.009	0.10	12980						
H588317	208	273	0.20	0.013	0.27	12720						
H588318	208	273	0.10	0.011	0.14	12140						
H588319	208	273	0.12	0.030	0.10	12440						
H588320	208	273	0.10	0.011	0.10	12020						
H588321	208	273	0.17	0.008	0.21	12700						
H588322	208	273	0.53	0.042	0.55	12560						
H588323	208	273	0.38	0.022	0.41	12140						
H588324	208	273	0.13	0.020	0.17	12980						
H588325	208	273	0.14	0.009	0.17	13240						
H588326	208	273	0.16	0.020	0.10	12560						
H588327	208	273	0.12	0.015	0.10	12200						
H588328	208	273	0.16	0.014	0.17	12420						
H588329	208	273	0.10	0.014	0.10	13220						
H588330	208	273	0.17	0.009	0.14	12700						
H588331	208	273	0.12	0.020	0.14	12800						
H588332	208	273	0.11	0.014	0.14	12860						
H588333	208	273	0.12	0.027	0.14	12460						
H588334	208	273	0.14	0.021	0.14	12100						
H588335	208	273	0.16	0.030	0.21	12260						
H588336	208	273	0.10	0.025	0.10	12700						
H588337	208	273	0.21	0.019	0.24	12520						
H588338	208	273	0.17	0.040	0.24	12940						
H588339	208	273	0.15	0.013	0.17	12500						
H588340	208	273	0.11	0.023	0.14	12740						
H588341	208	276	0.08	0.015	0.07	11600						
H588342	208	273	0.11	0.009	0.10	12960						
H588343	208	273	0.14	0.032	0.10	13320						
H588344	208	273	0.10	0.034	0.10	12840						
H588345	208	273	0.11	0.016	0.17	12080						
H588346	208	276	0.11	0.023	0.10	11020						
H588347	208	273	0.14	0.037	0.14	12920						
H588348	208	273	0.16	0.046	0.14	13020						
H588349	208	273	0.09	0.018	0.07	13000						

CERTIFICATION: J Christie

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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 242
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3
Total Pages :3
Certificate Date: 19-NOV-93
Invoice No. :I9324621
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324621

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588350	208	273	0.16	0.012	0.24	13860						
H588351	208	274	0.05	0.015	0.03	5440						

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
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Page Number :1-A
Total Pages :3
Certificate Date: 19-NOV-93
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CERTIFICATE OF ANALYSIS A9324622

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588270	299	229	2.4	3.60	2	280	< 0.5	2	0.14	< 0.5	10	58	1775	3.66	< 10	< 1	0.77	10	1.13	85	47
H588271	299	229	2.2	4.61	4	890	< 0.5	< 2	0.16	< 0.5	8	91	943	3.73	< 10	< 1	1.00	10	1.66	135	28
H588272	299	229	1.0	5.30	< 2	180	< 0.5	< 2	0.10	< 0.5	23	56	5430	3.97	< 10	< 1	1.31	20	1.55	140	16
H588273	299	229	1.6	5.43	2	140	< 0.5	< 2	0.10	< 0.5	24	82	8260	3.74	< 10	< 1	1.38	20	1.64	150	28
H588274	299	229	1.0	5.15	20	130	< 0.5	< 2	0.17	< 0.5	27	78	3910	4.65	< 10	< 1	1.42	10	2.14	185	24
H588275	299	229	0.6	6.43	22	290	< 0.5	< 2	0.23	< 0.5	29	53	2150	5.97	< 10	< 1	2.17	< 10	2.99	260	22
H588276	299	229	0.4	6.13	28	170	< 0.5	< 2	0.23	< 0.5	27	75	3010	5.50	< 10	< 1	1.57	10	2.74	305	15
H588277	299	229	1.2	6.24	< 2	210	< 0.5	< 2	0.04	< 0.5	28	62	6000	4.45	< 10	< 1	1.39	10	2.03	175	33
H588278	299	229	1.4	5.96	< 2	320	< 0.5	< 2	0.04	< 0.5	21	53	7880	3.24	< 10	< 1	1.27	10	1.30	135	31
H588279	299	229	1.6	1.10	6	110	< 0.5	2	0.01	< 0.5	6	154	1955	0.87	< 10	< 1	0.30	20	0.10	15	55
H588280	299	229	0.8	0.87	8	130	< 0.5	2	0.01	< 0.5	6	85	2050	0.95	< 10	< 1	0.25	20	0.08	10	36
H588281	299	229	0.8	0.87	< 2	160	< 0.5	2	0.01	< 0.5	9	122	1895	1.01	< 10	< 1	0.30	20	0.06	10	57
H588282	299	229	1.0	0.87	38	190	< 0.5	2	0.01	< 0.5	9	82	2170	0.98	< 10	< 1	0.24	20	0.04	10	52
H588283	299	229	1.2	1.36	16	130	< 0.5	2	0.04	< 0.5	11	96	2990	1.55	< 10	< 1	0.32	30	0.07	10	56
H588284	299	229	0.6	3.22	4	240	< 0.5	< 2	0.18	< 0.5	16	58	2680	2.58	< 10	< 1	0.76	10	0.98	105	41
H588285	299	229	0.6	4.91	10	120	< 0.5	< 2	0.35	< 0.5	21	63	4410	4.27	< 10	< 1	1.37	10	1.55	140	18
H588286	299	229	0.8	1.90	2	240	< 0.5	2	0.27	1.0	16	89	1935	2.29	< 10	< 1	0.58	30	0.55	165	109
H588287	299	229	1.0	2.09	< 2	220	< 0.5	2	0.37	1.0	19	105	1780	2.75	< 10	< 1	0.71	30	0.52	280	87
H588288	299	229	0.4	2.99	< 2	370	< 0.5	< 2	0.66	0.5	20	101	1615	3.90	< 10	< 1	1.14	30	1.15	340	202
H588289	299	229	0.4	4.04	< 2	610	< 0.5	< 2	0.75	0.5	18	88	1380	4.51	< 10	< 1	1.51	20	1.79	340	121
H588290	299	229	0.2	3.07	< 2	410	< 0.5	< 2	0.59	< 0.5	16	100	970	3.91	< 10	< 1	1.22	20	1.47	285	50
H588291	299	229	0.6	3.39	2	580	< 0.5	< 2	1.60	< 0.5	15	96	1795	3.67	< 10	< 1	1.50	30	1.47	265	256
H588292	299	229	0.4	2.79	< 2	500	< 0.5	< 2	1.38	< 0.5	14	94	1645	3.85	< 10	< 1	1.28	30	1.22	260	111
H588293	299	229	0.4	3.08	< 2	550	< 0.5	< 2	1.02	< 0.5	13	93	1305	3.84	< 10	< 1	1.35	20	1.51	200	82
H588294	299	229	0.6	2.54	< 2	280	< 0.5	< 2	0.69	0.5	18	155	1695	3.18	< 10	< 1	0.98	40	1.02	255	54
H588295	299	229	1.2	2.48	6	370	< 0.5	< 2	2.54	< 0.5	10	146	2170	2.48	< 10	< 1	0.98	30	0.83	220	193
H588296	299	229	0.4	3.41	< 2	530	< 0.5	< 2	1.60	< 0.5	15	94	1420	3.77	< 10	< 1	1.55	30	1.57	180	113
H588297	299	229	0.4	3.31	< 2	520	< 0.5	< 2	2.28	0.5	13	82	1855	3.50	< 10	< 1	1.31	20	1.51	185	67
H588298	299	229	0.4	3.16	< 2	360	< 0.5	< 2	2.01	< 0.5	11	110	1130	3.11	< 10	< 1	1.29	20	1.39	145	99
H588299	299	229	0.6	3.28	24	100	< 0.5	< 2	1.85	< 0.5	15	97	1565	3.09	< 10	< 1	1.08	20	1.03	100	101
H588300	299	229	0.4	3.95	< 2	600	< 0.5	< 2	1.43	0.5	12	129	1105	4.15	< 10	< 1	1.39	20	2.16	190	52
H588301	299	229	0.4	3.71	2	710	< 0.5	< 2	1.69	< 0.5	12	124	1330	3.57	< 10	< 1	1.54	20	1.98	180	179
H588302	299	229	0.8	4.62	< 2	390	< 0.5	< 2	1.92	0.5	16	94	1950	4.10	< 10	< 1	2.02	10	2.16	190	55
H588303	299	229	0.8	2.56	2	240	< 0.5	< 2	1.60	< 0.5	16	190	1850	2.92	< 10	< 1	1.02	20	1.05	135	259
H588304	299	229	0.8	2.73	2	150	< 0.5	< 2	1.45	< 0.5	14	174	1390	3.56	< 10	< 1	1.32	20	1.27	165	65
H588305	299	229	0.6	2.68	6	150	< 0.5	< 2	1.36	0.5	16	147	1240	3.81	< 10	< 1	0.99	20	1.11	150	44
H588306	299	229	0.6	2.26	14	220	< 0.5	< 2	1.23	< 0.5	15	117	1300	3.42	< 10	< 1	0.72	20	0.99	160	33
H588307	299	229	1.0	2.37	8	210	< 0.5	< 2	1.51	< 0.5	12	208	1380	2.48	< 10	< 1	0.70	20	0.78	150	92
H588308	299	229	1.2	1.70	10	140	< 0.5	6	1.50	< 0.5	14	120	1150	2.44	< 10	< 1	0.51	20	0.83	165	51
H588309	299	229	0.6	2.67	8	160	< 0.5	< 2	1.59	< 0.5	13	135	1075	3.37	< 10	< 1	1.04	10	1.42	185	57

CERTIFICATION: Hart Bichler

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CERTIFICATE OF ANALYSIS A9324622

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588270	299	229	0.02	4	890	84	< 2	10	9	0.09	< 10	< 10	86	< 10	32
H588271	299	229	0.03	4	1200	98	< 2	14	11	0.14	< 10	< 10	109	< 10	48
H588272	299	229	0.02	8	650	28	< 2	16	16	0.20	< 10	< 10	121	< 10	54
H588273	299	229	0.03	8	550	18	2	17	14	0.20	< 10	< 10	129	< 10	56
H588274	299	229	0.04	10	1090	26	< 2	21	14	0.21	< 10	< 10	160	< 10	58
H588275	299	229	0.05	15	1490	6	< 2	31	11	0.35	< 10	< 10	250	10	80
H588276	299	229	0.03	15	1460	18	< 2	25	12	0.29	< 10	< 10	212	< 10	74
H588277	299	229	0.02	10	580	16	< 2	24	8	0.20	< 10	< 10	167	< 10	52
H588278	299	229	0.01	7	540	16	< 2	18	6	0.18	< 10	< 10	121	< 10	52
H588279	299	229	0.01	3	180	12	< 2	1	7	< 0.01	< 10	< 10	6	< 10	20
H588280	299	229	0.01	3	150	14	< 2	< 1	6	< 0.01	< 10	< 10	4	< 10	26
H588281	299	229	0.01	3	190	10	< 2	< 1	8	< 0.01	< 10	< 10	3	< 10	24
H588282	299	229	0.01	3	310	14	2	< 1	8	< 0.01	< 10	< 10	3	< 10	22
H588283	299	229	0.01	5	540	8	2	< 1	9	< 0.01	< 10	< 10	7	< 10	18
H588284	299	229	0.03	9	1010	8	< 2	8	19	0.10	< 10	< 10	69	< 10	48
H588285	299	229	0.04	15	1830	10	< 2	15	29	0.18	< 10	< 10	118	< 10	84
H588286	299	229	0.04	7	780	16	< 2	6	18	0.05	< 10	< 10	45	< 10	66
H588287	299	229	0.08	5	620	16	< 2	7	21	0.04	< 10	< 10	51	< 10	96
H588288	299	229	0.11	7	990	8	< 2	12	37	0.14	< 10	< 10	90	< 10	84
H588289	299	229	0.13	7	1340	6	< 2	17	45	0.21	< 10	< 10	124	10	82
H588290	299	229	0.11	4	1110	6	< 2	13	30	0.17	< 10	< 10	96	10	64
H588291	299	229	0.09	4	1130	4	2	16	28	0.19	< 10	< 10	105	10	52
H588292	299	229	0.09	3	1220	4	< 2	12	29	0.16	< 10	< 10	92	10	52
H588293	299	229	0.13	4	1270	< 2	< 2	13	40	0.18	< 10	< 10	101	10	50
H588294	299	229	0.12	4	690	4	< 2	9	29	0.07	< 10	< 10	67	< 10	64
H588295	299	229	0.09	4	690	10	2	9	35	0.07	< 10	< 10	67	< 10	52
H588296	299	229	0.11	3	1090	4	2	15	40	0.19	< 10	< 10	127	10	46
H588297	299	229	0.09	3	920	2	< 2	18	39	0.16	< 10	< 10	123	10	44
H588298	299	229	0.12	4	790	2	< 2	13	54	0.14	< 10	< 10	106	10	40
H588299	299	229	0.08	4	510	4	< 2	7	47	0.07	< 10	< 10	68	10	40
H588300	299	229	0.23	8	760	2	< 2	18	314	0.18	< 10	< 10	147	10	58
H588301	299	229	0.21	10	880	4	2	17	220	0.21	< 10	< 10	139	10	44
H588302	299	229	0.36	6	790	2	< 2	25	212	0.26	< 10	< 10	189	10	42
H588303	299	229	0.16	4	770	6	< 2	10	168	0.07	< 10	< 10	86	< 10	40
H588304	299	229	0.14	4	1070	2	< 2	12	121	0.13	< 10	< 10	89	10	48
H588305	299	229	0.18	3	1250	8	< 2	10	114	0.09	< 10	< 10	72	10	46
H588306	299	229	0.13	3	1390	6	2	8	103	0.08	< 10	< 10	61	50	52
H588307	299	229	0.10	4	600	8	2	6	67	0.01	< 10	< 10	42	10	60
H588308	299	229	0.09	3	760	6	< 2	6	38	0.02	< 10	< 10	46	< 10	66
H588309	299	229	0.17	3	1510	2	2	10	101	0.13	< 10	< 10	81	10	58

CERTIFICATION: Stuart Bichler

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H588310	299	229	0.2	2.43	2	300	< 0.5	< 2	1.23	< 0.5	13	108	1080	3.98	< 10	< 1	0.91	10	1.39	170	62
H588311	299	229	0.4	2.62	< 2	150	< 0.5	< 2	1.92	< 0.5	13	67	1070	4.04	< 10	< 1	1.13	10	1.47	155	61
H588312	299	229	0.6	2.39	< 2	150	< 0.5	< 2	1.92	< 0.5	19	90	1640	4.18	< 10	< 1	1.21	10	1.53	185	28
H588313	299	229	0.6	3.08	10	230	< 0.5	< 2	1.40	< 0.5	18	66	1560	4.44	< 10	< 1	1.88	20	1.99	200	182
H588314	299	229	0.6	3.04	8	170	< 0.5	< 2	1.53	< 0.5	20	80	1365	4.09	< 10	< 1	1.84	20	2.12	195	87
H588315	299	229	0.6	2.99	50	140	< 0.5	< 2	3.10	< 0.5	18	115	1235	4.13	< 10	< 1	1.42	10	1.62	260	25
H588316	299	229	0.2	2.72	< 2	370	< 0.5	< 2	2.89	< 0.5	13	81	1565	3.45	< 10	< 1	1.61	20	1.67	185	52
H588317	299	229	0.8	1.65	6	320	< 0.5	< 2	2.22	< 0.5	14	130	1990	2.14	< 10	< 1	0.83	30	0.87	125	77
H588318	299	229	0.6	2.04	2	240	< 0.5	< 2	1.55	< 0.5	10	130	996	2.36	< 10	< 1	0.83	20	1.10	105	66
H588319	299	229	0.8	2.26	12	90	< 0.5	< 2	1.47	< 0.5	11	135	1220	3.31	< 10	< 1	0.85	20	1.23	125	197
H588320	299	229	0.6	2.16	6	260	< 0.5	< 2	1.61	< 0.5	9	105	1025	3.18	< 10	< 1	1.10	20	1.42	140	56
H588321	299	229	0.8	1.25	6	140	< 0.5	< 2	1.59	< 0.5	17	129	1705	2.20	< 10	< 1	0.65	30	0.78	80	40
H588322	299	229	2.2	2.11	< 2	110	< 0.5	< 2	2.44	< 0.5	16	173	5280	3.02	< 10	< 1	0.93	30	0.80	130	253
H588323	299	229	1.6	2.69	8	230	< 0.5	< 2	2.07	< 0.5	15	133	3670	2.91	< 10	< 1	1.19	30	1.28	135	135
H588324	299	229	0.8	1.88	10	120	< 0.5	< 2	2.17	< 0.5	15	170	1265	2.90	< 10	< 1	0.87	20	1.05	125	125
H588325	299	229	1.0	1.93	2	100	< 0.5	< 2	2.26	< 0.5	18	144	1430	2.98	< 10	< 1	0.85	20	1.09	115	54
H588326	299	229	1.2	1.10	4	170	< 0.5	2	1.81	< 0.5	8	285	1670	1.33	< 10	< 1	0.55	30	0.24	65	130
H588327	299	229	1.2	1.06	8	200	< 0.5	2	1.29	< 0.5	8	224	1265	1.39	< 10	< 1	0.52	30	0.19	60	97
H588328	299	229	1.2	1.19	2	170	< 0.5	2	1.40	< 0.5	8	211	1670	1.79	< 10	< 1	0.52	30	0.44	90	84
H588329	299	229	0.6	1.81	2	170	< 0.5	< 2	1.63	< 0.5	8	182	1015	2.27	< 10	< 1	0.73	20	0.80	110	84
H588330	299	229	1.8	1.18	6	190	< 0.5	12	0.96	< 0.5	5	209	1915	1.83	< 10	< 1	0.53	30	0.40	65	52
H588331	299	229	0.6	1.45	< 2	280	< 0.5	< 2	1.22	< 0.5	8	225	1130	1.56	< 10	< 1	0.67	30	0.76	100	120
H588332	299	229	0.6	1.83	4	370	< 0.5	< 2	0.96	< 0.5	7	178	1095	1.85	< 10	< 1	0.82	30	0.96	100	88
H588333	299	229	0.8	1.94	2	340	< 0.5	< 2	1.01	< 0.5	9	231	1110	1.82	< 10	< 1	0.84	20	0.93	95	161
H588334	299	229	0.6	1.60	< 2	350	< 0.5	< 2	0.73	< 0.5	7	110	1305	1.53	< 10	< 1	0.73	20	0.92	90	132
H588335	299	229	0.6	1.25	< 2	240	< 0.5	< 2	0.70	< 0.5	9	156	1460	1.45	< 10	< 1	0.56	10	0.65	65	189
H588336	299	229	0.6	1.47	< 2	320	< 0.5	< 2	0.84	< 0.5	6	111	894	1.82	< 10	< 1	0.65	10	0.89	90	155
H588337	299	229	1.2	2.03	2	380	< 0.5	< 2	1.05	< 0.5	9	95	1925	2.49	< 10	< 1	1.07	20	1.27	110	112
H588338	299	229	1.2	2.44	2	370	< 0.5	< 2	1.28	< 0.5	10	75	1525	2.98	< 10	< 1	1.22	10	1.40	120	212
H588339	299	229	0.8	2.23	< 2	410	< 0.5	< 2	1.18	< 0.5	10	101	1365	2.69	< 10	< 1	1.00	10	1.33	125	75
H588340	299	229	0.6	0.87	2	140	< 0.5	< 2	1.59	< 0.5	3	134	1010	0.97	< 10	< 1	0.35	30	0.31	45	140
H588341	299	229	0.4	0.70	6	180	< 0.5	< 2	1.25	< 0.5	2	169	744	0.67	< 10	< 1	0.28	30	0.20	45	89
H588342	299	229	0.6	1.05	2	150	< 0.5	< 2	1.01	< 0.5	6	161	1005	1.54	< 10	< 1	0.43	20	0.56	65	50
H588343	299	229	1.0	1.16	6	140	< 0.5	< 2	1.15	< 0.5	7	124	1355	1.65	< 10	< 1	0.41	10	0.63	75	197
H588344	299	229	0.6	2.08	2	400	< 0.5	< 2	1.12	< 0.5	7	127	949	2.39	< 10	< 1	0.98	20	1.23	110	187
H588345	299	229	0.8	2.14	18	270	< 0.5	< 2	1.01	< 0.5	9	115	1060	3.31	< 10	< 1	1.01	20	1.25	115	87
H588346	299	229	0.4	1.77	< 2	320	< 0.5	< 2	1.04	< 0.5	6	170	972	1.97	< 10	< 1	0.78	20	0.99	85	134
H588347	299	229	0.6	2.18	< 2	270	< 0.5	< 2	1.32	< 0.5	8	105	1245	2.02	< 10	< 1	0.86	10	1.18	100	219
H588348	299	229	0.8	4.20	2	870	< 0.5	< 2	1.97	< 0.5	15	119	1425	4.28	< 10	< 1	1.82	10	2.25	205	247
H588349	299	229	0.6	4.86	< 2	740	< 0.5	< 2	2.43	< 0.5	16	68	775	4.58	< 10	< 1	1.72	10	2.21	230	82

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 242
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Certificate Date: 19-NOV-93
Invoice No. :I9324622
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Account :FC

CERTIFICATE OF ANALYSIS A9324622

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
#588310	299	229	0.11	1	1280	2	2	8	260	0.14	< 10	< 10	73	10	40
#588311	299	229	0.14	2	1180	< 2	< 2	12	91	0.17	< 10	< 10	101	10	36
#588312	299	229	0.12	3	1080	< 2	< 2	15	64	0.22	< 10	< 10	125	10	42
#588313	299	229	0.11	4	1360	< 2	2	20	248	0.27	< 10	< 10	111	10	44
#588314	299	229	0.09	9	1460	2	< 2	21	196	0.18	< 10	< 10	127	10	42
#588315	299	229	0.14	6	1000	2	2	17	76	0.22	< 10	< 10	132	10	42
#588316	299	229	0.07	3	1050	4	< 2	20	55	0.24	< 10	< 10	153	10	36
#588317	299	229	0.03	5	630	6	< 2	10	42	0.09	< 10	< 10	62	< 10	28
#588318	299	229	0.07	4	520	2	< 2	11	42	0.10	< 10	< 10	64	< 10	36
#588319	299	229	0.07	3	540	4	< 2	10	41	0.10	< 10	< 10	78	< 10	46
#588320	299	229	0.08	4	570	< 2	< 2	16	41	0.16	< 10	< 10	92	< 10	46
#588321	299	229	0.05	3	380	2	< 2	9	47	0.07	< 10	< 10	49	< 10	28
#588322	299	229	0.08	7	410	2	< 2	12	48	0.05	< 10	< 10	71	< 10	34
#588323	299	229	0.08	6	630	4	< 2	19	52	0.14	< 10	< 10	115	< 10	38
#588324	299	229	0.10	4	450	4	< 2	11	112	0.08	< 10	< 10	59	< 10	38
#588325	299	229	0.12	4	470	2	< 2	11	79	0.09	< 10	< 10	65	< 10	38
#588326	299	229	0.09	5	180	4	< 2	2	66	< 0.01	< 10	< 10	13	< 10	26
#588327	299	229	0.06	6	170	12	< 2	1	44	< 0.01	< 10	< 10	9	< 10	20
#588328	299	229	0.06	4	270	2	< 2	3	39	0.01	< 10	< 10	23	< 10	30
#588329	299	229	0.10	5	390	2	< 2	8	47	0.05	< 10	< 10	47	< 10	52
#588330	299	229	0.07	4	260	8	< 2	3	32	0.01	< 10	< 10	23	< 10	30
#588331	299	229	0.09	4	420	2	< 2	8	34	0.07	< 10	< 10	50	< 10	44
#588332	299	229	0.10	4	500	4	< 2	10	92	0.10	< 10	< 10	62	< 10	44
#588333	299	229	0.12	4	490	4	< 2	9	101	0.11	< 10	< 10	61	< 10	22
#588334	299	229	0.10	3	500	4	< 2	10	166	0.13	< 10	< 10	63	< 10	24
#588335	299	229	0.09	3	370	4	< 2	6	87	0.09	< 10	< 10	44	< 10	20
#588336	299	229	0.10	3	510	2	< 2	9	115	0.14	< 10	< 10	58	< 10	24
#588337	299	229	0.13	3	1070	2	< 2	10	167	0.17	< 10	< 10	82	< 10	28
#588338	299	229	0.14	2	1240	2	< 2	13	225	0.20	< 10	< 10	98	< 10	28
#588339	299	229	0.14	3	860	4	< 2	15	181	0.19	< 10	< 10	100	< 10	32
#588340	299	229	0.04	2	250	2	< 2	3	26	0.01	< 10	< 10	22	< 10	14
#588341	299	229	0.06	2	170	6	< 2	1	25	< 0.01	< 10	< 10	8	< 10	12
#588342	299	229	0.08	3	340	2	< 2	4	66	0.03	< 10	< 10	32	< 10	18
#588343	299	229	0.07	4	370	4	< 2	4	43	0.06	< 10	< 10	34	< 10	20
#588344	299	229	0.12	4	640	2	< 2	12	162	0.20	< 10	< 10	90	< 10	24
#588345	299	229	0.13	4	710	< 2	< 2	13	177	0.22	< 10	< 10	96	< 10	26
#588346	299	229	0.12	4	520	2	< 2	11	119	0.16	< 10	< 10	75	< 10	22
#588347	299	229	0.10	2	640	2	< 2	11	105	0.15	< 10	< 10	88	< 10	26
#588348	299	229	0.25	6	630	< 2	< 2	25	285	0.32	< 10	< 10	221	10	50
#588349	299	229	0.30	7	710	< 2	< 2	18	347	0.30	< 10	< 10	223	10	36

CERTIFICATION: Stuart Bichler

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ATTN: CASINO PROJECT
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Y1A 3S9

Project : CASINO 242
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. :I9324622
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324622

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588350	299	229	0.8	5.72	< 2	790	< 0.5	< 2	2.81	< 0.5	19	39	1455	4.91	< 10	1	1.77	< 10	2.31	275	51
H588351	299	229	0.6	5.47	< 2	470	< 0.5	< 2	3.29	< 0.5	18	36	452	4.76	< 10	< 1	1.70	< 10	2.28	300	68

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P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324622

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588350	299	229	0.37	7	690	< 2	2	18	425	0.29	< 10	< 10	258	10	44
H588351	299	229	0.34	9	700	< 2	< 2	10	269	0.25	< 10	< 10	209	10	42

CERTIFICATION: Stuart Bichler

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Project : CASINO-243
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 24-NOV-93
Invoice No. : 19324742
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324742

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H567233	208	276	0.05	0.021	0.24	8480						
H567234	208	274	0.06	0.015	0.14	6360						
H567235	208	274	0.20	0.017	0.31	2400						
H567236	208	276	0.12	0.023	0.21	8520						
H567237	208	276	0.13	0.025	0.17	9700						
H567238	208	276	0.11	0.025	0.14	10300						
H567239	208	276	0.08	0.011	0.10	10800						
H567240	208	276	0.02	0.018	0.14	11060						
H567241	208	276	0.02	0.022	0.17	11380						
H567242	208	276	0.03	0.016	0.21	7980						
H567243	208	276	0.03	0.011	0.14	11240						
H567244	208	276	0.04	0.015	0.14	11040						
H567245	208	276	0.03	0.021	0.14	11540						
H567246	208	273	0.02	0.023	0.10	12960						
H567247	208	276	0.04	0.020	< 0.03	9740						
H567248	208	276	0.02	0.012	< 0.03	7680						
H567249	208	273	0.06	0.016	0.07	12300						
H567250	208	273	0.14	0.014	< 0.03	12100						
H567251	208	273	0.13	0.012	< 0.03	12620						
H567252	208	274	0.12	0.018	< 0.03	7160						
H567253	208	276	0.28	0.016	0.07	8200						
H567254	208	276	0.33	0.026	0.07	8180						
H567255	208	276	0.27	0.025	0.10	8100						
H567256	208	276	0.20	0.022	0.07	11600						
H567257	208	276	0.22	0.014	0.07	7900						
H567258	208	276	0.20	0.012	0.03	7920						
H567259	208	273	0.19	0.010	< 0.03	12300						
H567260	208	273	0.13	0.021	0.10	12300						
H567261	208	276	0.20	0.028	0.14	11380						
H567262	208	276	0.20	0.012	< 0.03	11400						
H567263	208	276	0.15	0.014	< 0.03	9180						
H567264	208	273	0.17	0.026	0.10	12200						
H567265	208	273	0.16	0.010	0.14	11900						
H567266	208	276	0.19	0.021	0.07	11600						
H567267	208	276	0.13	0.015	< 0.03	11560						
H567268	208	276	0.11	0.019	0.10	11340						
H567269	208	273	0.10	0.009	0.14	11920						
H567270	208	273	0.09	0.031	0.10	13000						
H567271	208	273	0.26	0.066	0.69	12200						
H567272	208	276	0.15	0.062	0.24	11800						

CERTIFICATION: C.V. Gitsh

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CERTIFICATE OF ANALYSIS A9324742

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H567273	208 273	0.06	0.012	0.10	12380
H567274	208 276	0.09	0.010	0.24	11560
H567275	208 273	0.06	0.014	0.07	12640
H567276	208 273	0.07	0.029	0.10	12060
H567277	208 273	0.10	0.013	0.17	12920
H567278	208 273	0.12	0.034	0.14	12640
H567279	208 273	0.08	0.010	0.03	12000
H567280	208 273	0.10	0.014	0.10	12220
H567281	208 273	0.11	0.009	0.07	12520
H567282	208 276	0.11	0.012	0.10	11200
H567283	208 273	0.12	0.025	0.07	12140
H567284	208 273	0.06	0.005	0.07	12000
H567285	208 273	0.05	0.006	0.07	13260
H567286	208 273	0.06	0.008	0.07	12460
H567287	208 276	0.08	0.008	0.03	10440
H567288	208 273	0.07	0.007	0.07	14080
H567289	208 276	0.13	0.009	0.69	11760
H567290	208 276	0.16	0.010	0.03	11320
H567291	208 276	0.16	0.007	0.10	11540
H567292	208 276	0.14	0.010	0.03	11800
H567293	208 276	0.07	0.008	0.07	11500
H567294	208 273	0.07	0.007	0.07	12000
H567295	208 273	0.08	0.013	0.10	12220
H567296	208 276	0.08	0.015	0.10	11500
H567297	208 273	0.06	0.008	0.07	12200
H567298	208 273	0.11	0.026	0.07	12000
H567299	208 276	0.12	0.014	0.07	11660
H567300	208 273	0.12	0.010	0.10	12560
H567301	208 276	0.07	0.007	0.03	11440
H567302	208 273	0.12	0.017	0.07	12000
H567303	208 273	0.13	0.005	0.14	11860
H567304	208 273	0.14	0.034	0.14	12140
H567305	208 273	0.12	0.015	0.10	12300
H567306	208 273	0.07	0.012	< 0.03	13000
H567307	208 276	0.14	0.019	0.07	11040
H567308	208 276	0.11	0.015	0.07	10920
H567309	208 273	0.14	0.013	0.03	12160
H567310	208 276	0.08	0.015	< 0.03	10640
H567311	208 276	0.13	0.010	0.07	11720
H567312	208 276	0.14	0.006	0.07	11180

CERTIFICATION: _____

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CERTIFICATE OF ANALYSIS A9324742

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H567313	208	273	0.17	0.007	0.07	12060
H567314	208	276	0.06	0.004	0.03	11000
H567315	208	276	0.08	0.006	0.03	10900
H567316	208	276	0.03	0.004	< 0.03	8300
H567317	208	276	0.03	0.005	< 0.03	10700
H567318	208	273	0.04	0.003	< 0.03	13780
H567319	208	273	0.08	0.008	< 0.03	12000
H567320	208	276	0.09	0.013	< 0.03	10920
H567321	208	276	0.07	0.009	< 0.03	11420
H567322	208	273	0.09	0.011	< 0.03	12020
H567323	208	276	0.04	0.005	< 0.03	11240
H567324	208	273	0.07	0.005	< 0.03	12300
H567325	208	273	0.07	0.005	< 0.03	12120
H567326	208	273	0.07	0.010	< 0.03	12920
H567327	208	273	0.03	0.005	< 0.03	12420
H567328	208	273	0.04	0.004	< 0.03	12800
H567329	208	273	0.05	0.005	< 0.03	12940
H567330	208	273	0.05	0.010	0.15	13520
H567331	208	273	0.04	0.006	< 0.03	12760
H567332	208	273	0.08	0.014	< 0.03	11860
H567333	208	273	0.08	0.008	< 0.03	12080
H567334	208	276	0.05	0.017	< 0.03	11460
H567335	208	276	0.07	0.013	0.03	11600
H567336	208	273	0.04	0.006	0.07	13200
H567337	208	276	0.05	0.004	< 0.03	11500
H567338	208	273	0.04	0.005	0.07	13240
H567339	208	273	0.03	0.006	< 0.03	12000
H567340	208	273	0.03	0.004	< 0.03	13100
H567341	208	273	0.03	0.007	< 0.03	12320
H567342	208	276	0.07	0.015	0.07	11620
H567343	208	273	0.03	0.004	< 0.03	13020
H567344	208	273	0.05	0.007	0.10	12020
H567345	208	273	0.04	0.007	< 0.03	12760
H567346	208	273	0.14	0.019	0.14	12540
H567347	208	276	0.07	0.006	0.03	10880

CERTIFICATION: C.V. Ashe

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Project : CASINO-243
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. :I9324743
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324743

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567233	299	229	0.5	1.82	< 2	490	< 0.5	< 2	0.11	< 0.5	< 1	126	495	6.05	10	< 1	0.64	10	0.61	65	135
H567234	299	229	0.3	2.39	< 2	550	< 0.5	< 2	0.13	< 0.5	< 1	136	590	5.85	10	< 1	0.61	< 10	0.79	75	93
H567235	299	229	0.4	4.13	< 2	520	< 0.5	< 2	0.14	0.5	< 1	70	1985	>15.00	10	< 1	1.23	< 10	1.89	150	98
H567236	299	229	0.4	4.45	< 2	460	< 0.5	< 2	0.05	< 0.5	< 1	109	1175	11.05	10	1	1.50	< 10	2.21	185	144
H567237	299	229	0.3	3.10	2	260	< 0.5	< 2	0.03	< 0.5	< 1	101	1245	9.13	10	< 1	0.82	< 10	1.01	90	161
H567238	299	229	0.2	3.20	8	280	< 0.5	< 2	0.02	< 0.5	< 1	131	1090	7.97	10	< 1	0.76	10	0.91	80	153
H567239	299	229	1.2	5.29	< 2	450	< 0.5	< 2	0.02	1.0	2	381	701	7.02	10	< 1	1.75	20	3.10	200	57
H567240	299	229	9.0	1.81	12	260	< 0.5	< 2	0.01	< 0.5	1	189	240	3.40	< 10	< 1	0.84	10	0.72	55	109
H567241	299	229	0.9	1.00	16	210	< 0.5	2	0.01	< 0.5	< 1	125	189	2.49	< 10	< 1	0.41	10	0.11	10	138
H567242	299	229	1.3	1.49	60	140	< 0.5	< 2	0.02	< 0.5	1	160	278	3.16	< 10	< 1	0.38	20	0.14	15	100
H567243	299	229	0.9	1.38	4	290	< 0.5	2	0.01	< 0.5	2	107	243	2.58	< 10	< 1	0.43	10	0.21	15	71
H567244	299	229	1.4	2.06	6	610	< 0.5	2	0.01	< 0.5	2	139	384	2.73	< 10	< 1	0.59	10	0.39	35	97
H567245	299	229	1.0	1.32	< 2	450	< 0.5	2	0.01	< 0.5	1	156	298	2.71	< 10	< 1	0.48	10	0.19	20	124
H567246	299	229	0.9	0.91	< 2	310	< 0.5	2	0.01	< 0.5	1	200	213	1.78	< 10	< 1	0.60	10	0.10	15	145
H567247	299	229	1.1	2.29	< 2	310	< 0.5	< 2	0.01	< 0.5	2	97	401	3.31	< 10	< 1	0.89	10	0.67	65	118
H567248	299	229	1.2	1.41	2	170	< 0.5	2	0.01	< 0.5	7	186	235	2.27	< 10	< 1	0.72	10	0.19	15	72
H567249	299	229	0.6	1.61	< 2	160	< 0.5	2	0.01	< 0.5	8	106	577	1.99	< 10	< 1	0.47	10	0.32	30	98
H567250	299	229	1.0	2.27	< 2	140	< 0.5	< 2	0.01	< 0.5	16	147	1445	2.98	< 10	< 1	0.67	10	0.67	80	88
H567251	299	229	0.8	2.31	4	170	< 0.5	< 2	0.01	< 0.5	11	172	1285	2.65	10	< 1	0.64	10	0.79	80	64
H567252	299	229	0.5	2.07	< 2	160	< 0.5	2	0.01	< 0.5	11	128	1195	2.35	< 10	< 1	0.65	10	0.63	70	98
H567253	299	229	0.7	1.93	< 2	120	< 0.5	4	0.01	< 0.5	13	129	2820	2.27	< 10	< 1	0.50	10	0.63	70	90
H567254	299	229	0.8	1.88	< 2	130	< 0.5	4	0.01	< 0.5	9	114	3280	1.93	< 10	< 1	0.56	10	0.44	35	155
H567255	299	229	1.0	1.45	2	80	< 0.5	4	0.08	0.5	13	75	2860	1.59	10	< 1	0.37	20	0.24	25	172
H567256	299	229	0.8	1.33	< 2	70	< 0.5	4	0.01	< 0.5	9	93	2030	1.11	< 10	< 1	0.28	10	0.18	20	147
H567257	299	229	0.6	1.80	< 2	120	< 0.5	2	0.02	< 0.5	10	87	2130	2.03	< 10	< 1	0.35	< 10	0.60	55	91
H567258	299	229	0.3	1.66	< 2	140	< 0.5	4	0.02	< 0.5	12	128	2110	2.01	< 10	< 1	0.48	10	0.30	30	87
H567259	299	229	0.5	1.28	< 2	110	< 0.5	2	0.08	0.5	18	127	1890	2.56	< 10	< 1	0.40	10	0.18	215	67
H567260	299	229	0.5	1.08	< 2	110	0.5	2	0.11	2.0	18	114	1385	2.23	< 10	< 1	0.36	20	0.18	175	135
H567261	299	229	0.5	1.74	< 2	110	< 0.5	2	0.03	< 0.5	15	115	1985	1.94	< 10	< 1	0.49	10	0.48	50	183
H567262	299	229	0.4	1.76	< 2	100	< 0.5	2	0.04	< 0.5	11	95	2020	1.81	< 10	< 1	0.35	10	0.35	30	73
H567263	299	229	0.4	1.90	< 2	140	< 0.5	2	0.04	< 0.5	10	137	1530	1.91	< 10	< 1	0.52	10	0.69	55	96
H567264	299	229	0.4	1.91	< 2	110	< 0.5	2	0.04	< 0.5	15	123	1645	2.72	< 10	< 1	0.55	10	0.57	55	159
H567265	299	229	0.6	1.91	< 2	140	< 0.5	4	0.06	< 0.5	14	95	1550	2.49	< 10	< 1	0.48	10	0.63	65	68
H567266	299	229	1.1	1.89	56	150	< 0.5	4	0.05	< 0.5	11	135	1915	1.81	< 10	< 1	0.48	10	0.23	30	136
H567267	299	229	0.4	1.77	< 2	110	< 0.5	4	0.07	< 0.5	14	97	1360	2.17	< 10	< 1	0.52	10	0.44	40	100
H567268	299	229	0.6	1.39	< 2	130	< 0.5	< 2	0.11	< 0.5	15	102	1125	2.24	< 10	< 1	0.43	10	0.59	165	125
H567269	299	229	0.5	1.33	< 2	110	< 0.5	< 2	0.15	0.5	15	100	1035	3.86	< 10	< 1	0.42	10	0.49	320	54
H567270	299	229	0.5	1.04	4	130	< 0.5	< 2	0.15	0.5	23	98	857	3.44	< 10	< 1	0.37	10	0.26	600	203
H567271	299	229	3.3	1.30	232	70	< 0.5	20	0.16	1.5	23	90	2730	4.28	< 10	< 1	0.41	20	0.25	460	419
H567272	299	229	1.5	1.09	< 2	140	< 0.5	< 2	0.40	0.5	16	108	1485	2.73	< 10	< 1	0.44	10	0.42	370	400

CERTIFICATION:

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO-243
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 19-NOV-93
Invoice No. :I9324743
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324743

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567233	299	229	0.01	3	580	18	< 2	6	16	0.06	10	< 10	50	10	30
H567234	299	229	0.01	6	520	6	< 2	7	15	0.07	< 10	< 10	55	< 10	28
H567235	299	229	0.02	13	1000	8	< 2	21	14	0.30	10	< 10	155	20	82
H567236	299	229	0.02	15	1030	6	< 2	25	16	0.35	10	< 10	201	10	70
H567237	299	229	0.02	9	800	4	< 2	11	10	0.13	10	< 10	76	10	44
H567238	299	229	0.02	11	740	< 2	< 2	10	7	0.08	< 10	< 10	61	< 10	38
H567239	299	229	0.02	79	1070	184	< 2	19	57	0.18	< 10	< 10	126	< 10	200
H567240	299	229	0.02	12	400	8	< 2	4	14	0.03	< 10	< 10	31	< 10	28
H567241	299	229	0.01	2	270	6	< 2	< 1	11	< 0.01	< 10	< 10	3	< 10	12
H567242	299	229	0.01	6	420	38	12	2	17	< 0.01	< 10	< 10	10	< 10	20
H567243	299	229	0.02	2	200	8	< 2	1	10	< 0.01	< 10	< 10	11	< 10	20
H567244	299	229	0.03	3	300	6	< 2	4	21	0.01	< 10	< 10	27	< 10	22
H567245	299	229	0.02	2	340	2	< 2	2	20	< 0.01	< 10	< 10	11	< 10	14
H567246	299	229	0.02	2	160	4	< 2	1	15	< 0.01	< 10	< 10	5	< 10	6
H567247	299	229	0.04	3	380	< 2	< 2	7	13	0.06	10	< 10	40	< 10	20
H567248	299	229	0.02	4	150	4	< 2	1	11	< 0.01	< 10	< 10	8	< 10	6
H567249	299	229	0.02	4	280	6	< 2	3	9	< 0.01	< 10	< 10	15	< 10	20
H567250	299	229	0.03	8	210	4	< 2	5	10	0.03	< 10	< 10	28	< 10	18
H567251	299	229	0.04	6	350	< 2	< 2	4	11	0.01	< 10	< 10	29	< 10	20
H567252	299	229	0.03	4	200	2	< 2	3	8	0.01	< 10	< 10	17	< 10	16
H567253	299	229	0.03	7	240	< 2	< 2	4	12	0.01	< 10	< 10	22	< 10	18
H567254	299	229	0.02	7	240	< 2	< 2	3	8	0.01	< 10	< 10	18	< 10	16
H567255	299	229	0.02	4	470	2	< 2	3	7	< 0.01	< 10	< 10	18	< 10	14
H567256	299	229	0.01	4	350	2	< 2	3	4	< 0.01	< 10	< 10	15	< 10	10
H567257	299	229	0.04	7	300	< 2	< 2	3	8	< 0.01	< 10	< 10	26	< 10	16
H567258	299	229	0.04	7	250	2	< 2	3	9	< 0.01	< 10	< 10	16	< 10	14
H567259	299	229	0.03	9	380	2	< 2	3	9	< 0.01	< 10	< 10	15	< 10	40
H567260	299	229	0.02	7	380	2	< 2	2	9	< 0.01	< 10	< 10	13	< 10	42
H567261	299	229	0.02	8	320	4	< 2	2	7	0.01	< 10	< 10	16	< 10	14
H567262	299	229	0.02	8	450	4	< 2	3	8	< 0.01	< 10	< 10	21	< 10	14
H567263	299	229	0.04	9	330	2	< 2	3	12	0.01	< 10	< 10	25	< 10	18
H567264	299	229	0.03	8	290	6	< 2	2	10	< 0.01	< 10	< 10	15	< 10	16
H567265	299	229	0.03	9	370	8	< 2	3	14	0.01	< 10	< 10	29	< 10	22
H567266	299	229	0.02	9	400	10	8	3	12	< 0.01	< 10	< 10	21	< 10	24
H567267	299	229	0.03	8	430	2	< 2	2	11	< 0.01	< 10	< 10	16	< 10	16
H567268	299	229	0.04	8	370	2	< 2	3	13	0.01	< 10	< 10	23	< 10	34
H567269	299	229	0.04	8	470	2	< 2	3	12	0.01	< 10	< 10	36	< 10	58
H567270	299	229	0.02	8	320	< 2	2	3	10	< 0.01	< 10	< 10	15	< 10	80
H567271	299	229	0.01	10	290	6	46	2	8	< 0.01	< 10	< 10	13	< 10	100
H567272	299	229	0.04	7	390	< 2	< 2	2	15	< 0.01	< 10	< 10	10	< 10	52

CERTIFICATION: Stuart Bichler

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Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-A
Total Pages :3
Certificate Date: 19-NOV-93
Invoice No. :19324743
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324743

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
#567273	299	229	0.4	1.34	< 2	130	< 0.5	< 2	0.22	0.5	18	120	596	3.35	< 10	< 1	0.50	10	0.46	365	70
#567274	299	229	6.0	1.31	102	90	< 0.5	< 2	1.08	1.5	22	117	891	4.19	< 10	< 1	0.35	10	0.66	1540	61
#567275	299	229	0.5	1.35	4	100	< 0.5	< 2	0.33	< 0.5	18	124	630	3.84	< 10	< 1	0.51	10	0.53	475	76
#567276	299	229	0.7	1.52	< 2	170	< 0.5	< 2	0.18	0.5	19	99	769	3.64	< 10	< 1	0.52	20	0.58	465	183
#567277	299	229	0.9	1.75	< 2	160	< 0.5	< 2	0.61	0.5	18	95	984	3.91	< 10	< 1	0.53	10	0.81	675	83
#567278	299	229	0.8	2.60	< 2	220	< 0.5	< 2	0.33	0.5	14	100	1145	3.05	< 10	< 1	0.96	10	1.14	240	199
#567279	299	229	0.5	2.72	< 2	210	< 0.5	< 2	0.28	< 0.5	13	118	738	3.81	< 10	< 1	0.96	10	1.38	165	56
#567280	299	229	0.5	2.42	< 2	170	< 0.5	< 2	0.27	0.5	16	117	926	4.74	< 10	< 1	0.92	20	1.42	250	76
#567281	299	229	0.9	1.87	< 2	80	< 0.5	4	0.31	0.5	30	98	1070	4.71	< 10	< 1	0.66	10	0.71	540	51
#567282	299	229	0.7	2.31	< 2	120	< 0.5	< 2	0.36	0.5	25	86	1025	4.87	< 10	< 1	0.91	20	1.04	430	70
#567283	299	229	1.2	2.29	6	90	< 0.5	< 2	0.64	< 0.5	27	49	1205	6.01	< 10	< 1	1.08	10	1.42	585	146
#567284	299	229	0.5	2.98	< 2	130	< 0.5	< 2	0.28	0.5	26	69	609	5.13	< 10	< 1	1.42	10	1.72	440	26
#567285	299	229	0.2	3.07	< 2	140	< 0.5	< 2	0.27	0.5	16	81	482	4.49	< 10	< 1	1.45	10	1.86	245	31
#567286	299	229	0.3	2.19	< 2	150	< 0.5	< 2	0.20	0.5	11	111	556	3.48	< 10	< 1	0.85	10	1.16	135	41
#567287	299	229	0.3	2.04	< 2	120	0.5	< 2	0.19	< 0.5	9	103	748	3.53	< 10	< 1	0.69	10	1.07	120	47
#567288	299	229	0.3	2.49	6	150	< 0.5	2	0.31	< 0.5	15	98	775	4.70	< 10	< 1	0.89	20	1.27	150	37
#567289	299	229	0.4	1.97	4	60	< 0.5	< 2	0.25	0.5	19	103	1300	4.19	< 10	< 1	0.67	20	0.79	185	52
#567290	299	229	1.0	2.18	< 2	80	< 0.5	2	0.20	0.5	19	110	1595	3.04	< 10	< 1	0.84	20	0.64	110	56
#567291	299	229	0.8	1.95	10	80	< 0.5	4	0.17	< 0.5	16	99	1635	3.80	< 10	< 1	0.68	10	0.74	110	38
#567292	299	229	0.4	2.50	< 2	230	< 0.5	4	0.23	< 0.5	11	76	1400	3.94	10	< 1	0.90	10	1.24	185	54
#567293	299	229	0.4	1.23	< 2	120	< 0.5	< 2	0.68	0.5	15	105	653	3.22	< 10	< 1	0.33	10	0.50	290	42
#567294	299	229	0.6	1.34	< 2	110	< 0.5	< 2	0.52	0.5	10	106	715	3.19	10	< 1	0.39	10	0.63	265	34
#567295	299	229	0.6	1.05	4	110	< 0.5	< 2	0.78	< 0.5	15	121	808	3.09	< 10	< 1	0.38	10	0.47	290	103
#567296	299	229	0.6	1.43	< 2	130	< 0.5	< 2	0.27	0.5	15	110	842	2.19	< 10	< 1	0.51	10	0.64	160	111
#567297	299	229	0.5	1.80	2	160	< 0.5	< 2	0.21	< 0.5	11	123	679	2.75	< 10	< 1	0.57	10	0.88	155	62
#567298	299	229	0.6	1.40	4	120	< 0.5	< 2	0.17	0.5	16	103	1055	2.19	< 10	< 1	0.53	10	0.48	125	180
#567299	299	229	0.9	1.49	< 2	80	< 0.5	< 2	0.17	0.5	16	112	1145	3.36	< 10	< 1	0.62	10	0.50	155	99
#567300	299	229	0.8	1.45	2	100	< 0.5	< 2	0.22	< 0.5	18	96	1245	3.00	< 10	< 1	0.48	10	0.65	230	70
#567301	299	229	0.5	0.96	6	80	< 0.5	< 2	0.16	< 0.5	15	154	700	2.62	< 10	< 1	0.38	10	0.18	160	49
#567302	299	229	1.0	0.71	8	80	< 0.5	< 2	0.68	< 0.5	14	135	1235	2.37	< 10	< 1	0.32	10	0.37	120	133
#567303	299	229	1.0	0.81	24	80	< 0.5	< 2	1.14	< 0.5	17	104	1265	2.93	< 10	< 1	0.38	10	0.52	220	31
#567304	299	229	1.0	0.92	58	70	< 0.5	< 2	0.78	< 0.5	15	129	1475	2.87	< 10	< 1	0.44	10	0.41	285	238
#567305	299	229	0.9	1.22	2	110	< 0.5	< 2	0.79	< 0.5	16	122	1220	3.04	< 10	< 1	0.47	10	0.59	220	106
#567306	299	229	0.8	1.18	< 2	140	< 0.5	< 2	0.94	< 0.5	14	123	758	2.54	< 10	< 1	0.42	10	0.56	200	74
#567307	299	229	1.0	1.40	< 2	130	< 0.5	< 2	0.34	< 0.5	18	137	1345	2.99	< 10	< 1	0.48	20	0.72	255	125
#567308	299	229	1.0	1.20	4	130	< 0.5	< 2	0.50	< 0.5	16	119	1010	2.40	< 10	< 1	0.49	20	0.44	190	100
#567309	299	229	1.1	1.36	8	80	< 0.5	< 2	0.49	1.0	13	153	1315	2.56	< 10	< 1	0.50	40	0.31	190	94
#567310	299	229	0.6	1.19	< 2	50	< 0.5	< 2	1.18	0.5	16	97	708	2.82	< 10	< 1	0.32	10	0.54	385	99
#567311	299	229	1.1	1.28	8	40	< 0.5	< 2	1.34	0.5	17	95	1280	2.78	< 10	< 1	0.30	10	0.58	345	72
#567312	299	229	1.0	1.67	2	180	< 0.5	< 2	0.47	< 0.5	17	104	1485	2.32	< 10	< 1	0.48	10	0.64	255	44

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567273	299	229	0.04	6	450	< 2	< 2	3	14	0.01	< 10	< 10	21	< 10	52
H567274	299	229	0.02	7	420	30	36	3	15	< 0.01	< 10	< 10	18	< 10	130
H567275	299	229	0.04	7	490	2	< 2	5	17	0.01	< 10	< 10	32	< 10	60
H567276	299	229	0.04	6	460	< 2	< 2	4	15	0.02	< 10	< 10	30	< 10	68
H567277	299	229	0.03	6	530	2	< 2	7	16	0.03	< 10	< 10	42	< 10	66
H567278	299	229	0.05	9	1000	4	< 2	10	17	0.13	< 10	< 10	68	< 10	60
H567279	299	229	0.07	8	970	2	< 2	11	16	0.14	< 10	< 10	84	< 10	50
H567280	299	229	0.06	8	810	< 2	< 2	18	13	0.14	< 10	< 10	100	< 10	56
H567281	299	229	0.03	8	690	8	< 2	7	12	0.04	< 10	< 10	47	< 10	82
H567282	299	229	0.06	8	890	2	< 2	12	16	0.12	< 10	< 10	89	< 10	72
H567283	299	229	0.03	7	750	2	< 2	15	14	0.15	< 10	< 10	106	< 10	74
H567284	299	229	0.06	9	750	< 2	< 2	16	13	0.19	< 10	< 10	125	< 10	88
H567285	299	229	0.07	8	840	< 2	< 2	16	13	0.20	< 10	< 10	130	< 10	58
H567286	299	229	0.06	7	640	< 2	< 2	8	13	0.10	< 10	< 10	70	< 10	38
H567287	299	229	0.05	6	610	< 2	< 2	8	12	0.08	< 10	< 10	60	< 10	40
H567288	299	229	0.06	7	1110	4	< 2	9	16	0.12	10	< 10	84	10	46
H567289	299	229	0.03	8	820	8	< 2	5	12	0.03	< 10	< 10	37	< 10	48
H567290	299	229	0.04	9	720	6	< 2	6	11	0.04	10	< 10	42	< 10	40
H567291	299	229	0.04	8	660	< 2	< 2	6	11	0.03	10	< 10	47	< 10	36
H567292	299	229	0.05	10	740	8	< 2	11	13	0.12	10	< 10	85	< 10	46
H567293	299	229	0.03	7	510	4	< 2	5	16	< 0.01	< 10	< 10	29	< 10	46
H567294	299	229	0.04	4	510	4	< 2	6	15	0.01	< 10	< 10	34	< 10	42
H567295	299	229	0.06	6	490	6	< 2	6	22	0.01	< 10	< 10	33	< 10	40
H567296	299	229	0.06	6	600	6	< 2	7	15	0.03	< 10	< 10	38	< 10	40
H567297	299	229	0.06	7	550	6	< 2	6	17	0.03	< 10	< 10	42	< 10	42
H567298	299	229	0.04	7	420	4	< 2	3	12	0.01	< 10	< 10	18	< 10	38
H567299	299	229	0.03	7	470	12	< 2	3	11	0.01	< 10	< 10	16	< 10	42
H567300	299	229	0.04	7	540	4	< 2	4	13	0.01	< 10	< 10	26	< 10	52
H567301	299	229	0.03	6	290	8	< 2	2	10	< 0.01	< 10	< 10	14	< 10	44
H567302	299	229	0.03	6	240	8	< 2	1	14	< 0.01	< 10	< 10	6	< 10	26
H567303	299	229	0.03	6	450	4	< 2	2	26	< 0.01	< 10	< 10	12	< 10	26
H567304	299	229	0.02	5	340	14	8	1	22	< 0.01	< 10	< 10	6	< 10	36
H567305	299	229	0.05	6	470	8	< 2	2	23	< 0.01	< 10	< 10	17	< 10	38
H567306	299	229	0.04	5	420	70	< 2	3	23	< 0.01	< 10	< 10	17	< 10	84
H567307	299	229	0.05	7	440	4	< 2	4	20	0.01	< 10	< 10	27	< 10	50
H567308	299	229	0.03	5	390	18	< 2	2	15	< 0.01	< 10	< 10	12	< 10	46
H567309	299	229	0.02	7	340	8	< 2	2	9	< 0.01	< 10	< 10	10	< 10	46
H567310	299	229	0.01	6	500	4	< 2	3	13	< 0.01	< 10	< 10	17	< 10	60
H567311	299	229	0.01	7	410	6	< 2	4	15	< 0.01	< 10	< 10	21	< 10	48
H567312	299	229	0.03	8	430	8	< 2	7	21	0.02	< 10	< 10	35	< 10	58

CERTIFICATION: Ian R Bichler

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: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
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Project : CASINO-243
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :3
Certificate Date: 19-NOV-93
Invoice No. : I9324743
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324743

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567313	299	229	1.2	1.35	< 2	140	0.5	6	0.29	0.5	17	107	1835	2.42	< 10	< 1	0.48	10	0.56	270	48
H567314	299	229	0.5	1.40	< 2	120	1.0	4	0.29	0.5	15	146	583	2.79	10	< 1	0.46	10	0.67	250	21
H567315	299	229	1.1	1.53	< 2	100	< 0.5	2	0.26	0.5	10	115	762	2.40	< 10	< 1	0.50	10	0.80	140	37
H567316	299	229	0.2	1.63	< 2	40	0.5	< 2	0.25	< 0.5	12	153	312	2.35	< 10	< 1	0.53	10	0.98	225	23
H567317	299	229	0.2	1.54	< 2	100	0.5	< 2	0.25	< 0.5	7	108	310	2.30	10	< 1	0.46	10	0.95	165	30
H567318	299	229	0.2	1.51	< 2	90	< 0.5	2	0.24	< 0.5	12	126	450	2.31	< 10	< 1	0.54	10	0.90	160	22
H567319	299	229	0.4	1.44	< 2	140	< 0.5	2	0.20	< 0.5	12	117	819	2.25	< 10	< 1	0.57	10	0.89	95	55
H567320	299	229	0.5	1.32	< 2	130	< 0.5	2	0.15	< 0.5	8	162	894	1.70	< 10	< 1	0.58	10	0.87	95	95
H567321	299	229	0.5	1.54	< 2	170	< 0.5	< 2	0.25	< 0.5	9	143	666	2.14	< 10	< 1	0.75	10	1.13	120	64
H567322	299	229	0.6	1.44	24	130	< 0.5	2	0.22	< 0.5	12	164	963	2.11	< 10	< 1	0.58	10	0.93	125	86
H567323	299	229	0.5	1.29	< 2	120	< 0.5	< 2	0.25	< 0.5	11	144	439	1.86	< 10	< 1	0.52	10	0.89	110	36
H567324	299	229	0.7	1.55	< 2	100	< 0.5	< 2	1.13	< 0.5	13	141	650	2.48	< 10	< 1	0.87	10	1.27	130	32
H567325	299	229	0.6	1.09	2	90	0.5	2	1.65	< 0.5	11	135	735	1.70	< 10	< 1	0.47	< 10	0.74	80	29
H567326	299	229	0.5	1.08	2	90	< 0.5	4	1.06	< 0.5	21	158	730	2.58	< 10	< 1	0.53	10	0.61	70	64
H567327	299	229	0.3	1.38	< 2	140	< 0.5	2	1.97	< 0.5	13	145	305	2.19	< 10	< 1	0.66	< 10	0.87	110	27
H567328	299	229	0.4	1.15	< 2	140	0.5	2	1.30	< 0.5	9	180	385	1.78	< 10	< 1	0.52	10	0.59	100	23
H567329	299	229	0.5	1.22	< 2	120	< 0.5	2	1.72	< 0.5	8	188	502	1.94	< 10	< 1	0.49	10	0.65	105	31
H567330	299	229	0.4	1.18	4	130	< 0.5	2	1.89	< 0.5	11	215	493	2.08	< 10	< 1	0.53	10	0.52	130	60
H567331	299	229	0.5	1.55	< 2	200	< 0.5	2	1.55	< 0.5	12	179	427	2.39	< 10	< 1	0.73	10	0.82	130	30
H567332	299	229	0.4	1.55	< 2	170	0.5	6	0.14	0.5	20	176	824	3.43	< 10	< 1	0.68	10	0.44	415	89
H567333	299	229	0.7	1.60	4	160	0.5	< 2	1.61	< 0.5	11	115	860	2.12	< 10	1	0.68	10	0.84	145	48
H567334	299	229	0.6	1.13	2	120	< 0.5	< 2	2.21	< 0.5	9	125	500	1.98	< 10	< 1	0.56	10	0.73	135	115
H567335	299	229	0.4	1.14	< 2	150	< 0.5	2	1.44	< 0.5	9	109	679	2.16	< 10	< 1	0.55	10	0.73	110	87
H567336	299	229	0.2	1.51	4	180	< 0.5	< 2	1.63	< 0.5	7	109	362	2.72	< 10	< 1	0.77	< 10	1.13	140	45
H567337	299	229	0.9	1.40	6	130	< 0.5	2	1.63	< 0.5	6	108	504	2.61	< 10	< 1	0.59	< 10	1.09	125	26
H567338	299	229	0.3	1.40	< 2	160	< 0.5	< 2	1.47	< 0.5	9	106	399	2.45	< 10	< 1	0.62	< 10	1.05	120	31
H567339	299	229	0.2	1.39	< 2	130	< 0.5	2	1.28	< 0.5	6	136	256	2.81	< 10	< 1	0.64	< 10	0.96	100	41
H567340	299	229	0.2	1.11	4	100	< 0.5	< 2	1.81	< 0.5	4	142	275	2.25	< 10	< 1	0.52	10	0.77	85	26
H567341	299	229	0.2	1.33	< 2	110	< 0.5	< 2	1.66	< 0.5	4	140	294	2.43	< 10	< 1	0.54	10	0.90	110	48
H567342	299	229	0.3	1.29	< 2	80	< 0.5	< 2	1.50	< 0.5	10	126	700	2.30	< 10	< 1	0.55	10	0.83	85	99
H567343	299	229	0.2	1.39	< 2	90	< 0.5	< 2	1.37	< 0.5	4	173	265	2.40	< 10	< 1	0.55	< 10	0.89	110	27
H567344	299	229	0.2	1.46	< 2	120	< 0.5	< 2	1.39	< 0.5	10	184	534	2.75	< 10	< 1	0.63	10	0.83	105	50
H567345	299	229	0.3	1.58	< 2	180	< 0.5	< 2	1.35	< 0.5	6	198	359	2.59	< 10	< 1	0.64	10	0.87	105	51
H567346	299	229	1.1	1.59	2	110	< 0.5	< 2	1.18	< 0.5	14	191	1440	2.75	< 10	< 1	0.64	10	0.96	105	135
H567347	299	229	0.8	1.70	< 2	110	< 0.5	2	1.83	< 0.5	14	197	703	2.97	< 10	< 1	0.62	10	0.63	95	48

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Project : CASINO-243
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 19-NOV-93
Invoice No. :19324743
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324743

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567313	299	229	0.05	8	520	6	< 2	6	17	0.02	< 10	< 10	31	< 10	54
H567314	299	229	0.07	6	500	6	< 2	7	16	0.03	< 10	< 10	40	< 10	48
H567315	299	229	0.06	5	510	6	< 2	4	14	0.01	< 10	< 10	29	< 10	40
H567316	299	229	0.10	7	610	4	< 2	7	12	0.02	< 10	< 10	40	< 10	48
H567317	299	229	0.09	5	540	6	< 2	6	15	0.03	< 10	< 10	45	< 10	44
H567318	299	229	0.09	6	480	6	< 2	6	13	0.04	< 10	< 10	43	< 10	40
H567319	299	229	0.07	6	480	4	< 2	6	14	0.05	< 10	< 10	40	< 10	30
H567320	299	229	0.07	6	330	4	< 2	5	13	0.05	< 10	< 10	35	< 10	26
H567321	299	229	0.09	6	490	2	< 2	9	15	0.14	< 10	< 10	57	< 10	30
H567322	299	229	0.08	7	450	6	< 2	6	14	0.06	< 10	< 10	41	< 10	34
H567323	299	229	0.07	7	420	4	< 2	5	16	0.04	< 10	< 10	37	< 10	30
H567324	299	229	0.06	7	510	2	< 2	11	45	0.10	< 10	< 10	66	< 10	26
H567325	299	229	0.05	5	360	2	< 2	3	94	0.02	< 10	< 10	27	< 10	16
H567326	299	229	0.04	7	330	< 2	< 2	3	47	0.02	< 10	< 10	23	< 10	16
H567327	299	229	0.06	7	430	4	< 2	7	84	0.06	< 10	< 10	43	< 10	18
H567328	299	229	0.06	5	400	6	< 2	6	55	0.03	< 10	< 10	35	< 10	18
H567329	299	229	0.06	5	440	4	< 2	6	97	0.02	< 10	< 10	33	< 10	20
H567330	299	229	0.05	5	400	2	< 2	4	121	< 0.01	< 10	< 10	21	< 10	18
H567331	299	229	0.06	6	440	2	< 2	8	65	0.04	< 10	< 10	43	< 10	18
H567332	299	229	0.06	8	300	2	< 2	4	18	0.02	< 10	< 10	41	< 10	66
H567333	299	229	0.05	5	480	4	< 2	9	76	0.06	< 10	< 10	55	< 10	20
H567334	299	229	0.04	6	400	2	< 2	6	99	0.03	< 10	< 10	34	< 10	16
H567335	299	229	0.06	5	440	2	< 2	8	52	0.05	< 10	< 10	51	< 10	18
H567336	299	229	0.07	6	530	< 2	< 2	11	90	0.14	< 10	< 10	74	< 10	22
H567337	299	229	0.06	5	470	6	< 2	8	80	0.11	< 10	< 10	61	< 10	20
H567338	299	229	0.06	5	450	2	< 2	9	61	0.12	< 10	< 10	60	10	20
H567339	299	229	0.06	5	470	4	< 2	8	62	0.11	< 10	< 10	59	< 10	18
H567340	299	229	0.05	4	410	2	< 2	6	86	0.04	< 10	< 10	41	< 10	18
H567341	299	229	0.06	4	420	< 2	< 2	8	98	0.07	< 10	< 10	54	< 10	20
H567342	299	229	0.05	5	390	< 2	< 2	7	105	0.04	< 10	< 10	47	< 10	18
H567343	299	229	0.07	4	390	< 2	< 2	7	79	0.04	< 10	< 10	48	< 10	20
H567344	299	229	0.06	5	390	< 2	< 2	6	82	0.04	< 10	< 10	41	< 10	18
H567345	299	229	0.07	5	410	2	< 2	8	77	0.06	< 10	< 10	49	< 10	18
H567346	299	229	0.07	6	440	2	< 2	8	57	0.05	< 10	< 10	49	< 10	22
H567347	299	229	0.05	6	560	2	< 2	5	55	0.01	< 10	< 10	33	< 10	18

CERTIFICATION: Ian Bichler

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Project : CASINO 244
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. : I9324623
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Account : FC

CERTIFICATE OF ANALYSIS A9324623

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H941622	208 274	0.18	0.007	0.27	5600
H941623	208 276	0.16	0.007	0.21	8360
H941624	208 274	0.13	0.009	0.21	6840
H941625	208 276	0.21	0.005	0.10	9020
H941626	208 276	0.18	0.006	0.14	7470
H941627	208 276	0.12	0.004	0.17	10860
H941628	208 276	0.13	0.004	0.10	10020
H941629	208 276	0.14	0.007	0.10	10180
H941630	208 276	0.22	0.006	0.14	10280
H941631	208 276	0.34	0.005	0.14	10620
H941632	208 276	0.32	0.011	0.14	8960
H941633	208 274	0.23	0.003	0.10	6740
H941634	208 273	0.25	0.007	0.10	13520
H941635	208 276	0.20	0.013	0.10	10560
H941636	208 276	0.18	0.012	0.10	10540
H941637	208 273	0.22	0.010	0.14	12860
H941638	208 276	0.20	0.009	0.14	11780
H941639	208 276	0.22	0.015	0.27	11720
H941640	208 276	0.17	0.038	0.10	9240
H941641	208 276	0.21	0.009	0.14	9580
H941642	208 273	0.14	0.016	0.14	12260
H941643	208 276	0.16	0.026	0.17	10200
H941644	208 273	0.20	0.021	0.14	13960
H941645	208 276	0.17	0.024	0.17	9160
H941646	208 273	0.16	0.017	0.21	11840
H941647	208 273	0.14	0.015	0.10	14480
H941648	208 273	0.23	0.009	0.21	13060
H941649	208 273	0.16	0.012	0.14	14640
H941650	208 276	0.12	0.004	0.14	11060
H941651	208 276	0.11	0.012	0.10	11700
H941652	208 276	0.10	0.006	0.14	10300
H941653	208 276	0.10	0.014	0.10	11680
H941654	208 273	0.08	0.011	0.07	12640
H941655	208 273	0.12	0.013	0.07	12080
H941656	208 273	0.09	0.010	0.10	12180
H941657	208 273	0.13	0.014	0.10	12720
H941658	208 273	0.11	0.015	0.14	12120
H941659	208 276	0.09	0.012	0.10	9820
H941660	208 276	0.20	0.018	0.24	9820
H941661	208 273	0.20	0.031	0.24	13980

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CERTIFICATE OF ANALYSIS A9324623

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H941662	208 273	0.12	0.006	0.14	12560
H941663	208 273	0.11	0.013	0.10	12760
H941664	208 276	0.06	0.114	0.07	11580
H941665	208 273	0.30	0.008	0.27	12700
H941666	208 276	0.08	0.029	0.14	8600
H941667	208 276	0.08	0.034	0.07	8560
H941668	208 276	0.12	0.013	0.14	11740
H941669	208 274	0.08	0.024	0.10	5700
H941670	208 276	0.16	0.039	0.21	11140
H941671	208 273	0.13	0.046	0.14	15600
H941672	208 276	0.26	0.187	0.24	11080
H941673	208 273	0.27	0.074	0.24	13560
H941674	208 273	0.20	0.047	0.24	13320
H941675	208 274	0.24	0.007	0.34	5840
H941676	208 276	0.21	0.062	0.27	11360
H941677	208 276	0.21	0.046	0.24	7480
H941678	208 273	0.09	0.068	0.07	14920
H941679	208 273	0.07	0.012	0.10	12740
H941680	208 273	0.09	0.006	0.10	13380
H941681	208 273	0.08	0.071	0.14	11960
H941682	208 276	0.09	0.043	0.10	10760
H941683	208 276	0.10	0.032	0.10	10620
H941684	208 273	0.07	0.024	0.14	12340
H941685	208 273	0.18	0.024	0.14	13460
H941686	208 273	0.12	0.015	0.10	13040
H941687	208 273	0.09	0.019	0.07	12080
H941688	208 276	0.09	0.027	0.03	10480
H941689	208 276	0.08	0.096	0.07	11580
H941690	208 273	0.07	0.013	0.07	12300
H941691	208 276	0.08	0.056	0.07	11740
H941692	208 273	0.09	0.075	0.07	11960
H941693	208 273	0.08	0.022	0.07	12460
H941694	208 276	0.08	0.031	0.07	11560
H941695	208 273	0.07	0.024	0.10	12600
H941696	208 276	0.07	0.031	0.10	11540

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Project : CASINO 244
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-A
Total Pages :2
Certificate Date: 19-NOV-93
Invoice No. :I9324624
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Account :FC

CERTIFICATE OF ANALYSIS A9324624

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H941622	299	229	0.8	5.86	< 2	360	< 0.5	< 2	0.48	< 0.5	16	145	1950	5.17	10	1	1.11	20	3.04	235	36
H941623	299	229	0.8	5.82	< 2	690	< 0.5	< 2	0.46	< 0.5	15	115	1600	4.07	10	< 1	1.51	20	3.01	215	30
H941624	299	229	0.8	4.95	< 2	710	< 0.5	< 2	0.69	< 0.5	17	97	1300	3.70	10	< 1	1.74	20	2.59	225	43
H941625	299	229	0.6	4.64	< 2	500	< 0.5	< 2	0.49	0.5	17	104	2070	4.14	10	< 1	1.17	10	2.47	220	15
H941626	299	229	0.6	4.59	< 2	550	< 0.5	< 2	0.36	< 0.5	15	84	1810	3.93	< 10	< 1	1.32	10	2.29	190	25
H941627	299	229	1.6	5.64	< 2	650	< 0.5	< 2	0.41	< 0.5	16	67	1225	4.94	< 10	< 1	1.76	10	2.87	245	16
H941628	299	229	1.4	4.58	< 2	400	< 0.5	< 2	0.46	< 0.5	13	80	1340	4.73	< 10	< 1	0.92	10	2.20	205	19
H941629	299	229	1.0	5.28	< 2	580	< 0.5	< 2	0.63	< 0.5	20	75	1455	4.69	< 10	< 1	1.04	10	2.34	235	33
H941630	299	229	1.8	5.12	< 2	620	< 0.5	< 2	0.63	< 0.5	27	75	2180	4.70	< 10	< 1	1.40	< 10	2.64	250	28
H941631	299	229	2.0	4.17	< 2	240	< 0.5	< 2	0.61	0.5	28	77	3490	4.41	< 10	1	1.05	10	2.47	280	22
H941632	299	229	2.8	4.26	10	140	< 0.5	< 2	0.57	0.5	27	73	3370	4.90	10	< 1	1.17	10	2.66	315	55
H941633	299	229	1.4	4.26	2	210	< 0.5	< 2	0.65	< 0.5	24	70	2430	4.73	10	< 1	0.88	10	2.52	300	13
H941634	299	229	1.4	3.11	6	230	< 0.5	< 2	0.59	< 0.5	21	87	2460	3.27	10	< 1	0.88	10	1.73	160	34
H941635	299	229	1.8	1.97	< 2	200	< 0.5	8	0.43	1.0	16	58	2330	2.51	10	< 1	0.59	10	1.09	110	67
H941636	299	229	1.0	3.68	< 2	390	< 0.5	< 2	0.84	1.0	18	37	1900	3.95	10	< 1	1.05	10	2.12	190	59
H941637	299	229	1.6	3.53	< 2	360	< 0.5	< 2	0.85	2.0	20	40	2470	3.63	10	< 1	0.94	10	1.97	200	53
H941638	299	229	1.8	2.04	< 2	170	< 0.5	4	0.45	1.0	13	42	2050	2.37	10	< 1	0.56	10	1.22	135	47
H941639	299	229	2.4	1.76	< 2	120	< 0.5	6	0.36	1.0	11	43	2310	2.41	10	< 1	0.45	10	1.16	160	95
H941640	299	229	2.2	1.21	10	90	< 0.5	10	0.24	0.5	17	75	1885	2.71	< 10	< 1	0.42	10	0.40	285	212
H941641	299	229	2.2	1.62	4	100	< 0.5	4	0.37	0.5	16	50	2270	2.50	< 10	< 1	0.43	10	1.07	215	44
H941642	299	229	0.8	1.77	< 2	180	< 0.5	2	0.40	0.5	14	41	1515	2.65	10	< 1	0.64	10	1.23	135	84
H941643	299	229	1.4	1.48	< 2	150	< 0.5	6	0.24	0.5	15	100	1780	2.08	10	< 1	0.49	20	0.91	160	156
H941644	299	229	2.4	1.19	20	80	< 0.5	16	0.68	1.0	28	34	2240	4.17	10	< 1	0.29	20	0.31	625	96
H941645	299	229	2.0	1.24	2	170	< 0.5	8	3.69	< 0.5	14	39	1740	2.67	< 10	< 1	0.38	10	0.59	355	123
H941646	299	229	1.4	1.59	4	90	< 0.5	2	1.05	< 0.5	20	17	1645	3.37	10	< 1	0.32	10	1.12	325	86
H941647	299	229	1.2	2.77	2	250	< 0.5	< 2	0.59	0.5	14	35	1440	3.52	20	< 1	1.00	10	2.07	220	69
H941648	299	229	1.4	2.91	< 2	260	< 0.5	< 2	0.63	0.5	18	47	2500	3.85	20	< 1	1.20	10	2.07	180	41
H941649	299	229	1.6	2.21	< 2	200	< 0.5	2	0.58	0.5	14	67	1580	3.28	20	< 1	0.78	10	1.55	190	52
H941650	299	229	1.4	2.55	< 2	150	< 0.5	< 2	0.79	0.5	15	45	1220	3.86	10	< 1	0.85	10	1.87	210	15
H941651	299	229	0.6	2.38	< 2	140	< 0.5	< 2	1.04	< 0.5	11	220	1090	2.74	10	< 1	0.91	10	1.64	100	57
H941652	299	229	2.4	2.12	14	110	< 0.5	12	0.41	0.5	11	129	1030	3.57	10	< 1	0.84	10	1.47	115	26
H941653	299	229	0.6	2.70	< 2	240	< 0.5	< 2	0.95	0.5	13	197	1025	3.65	10	< 1	1.15	< 10	1.93	125	61
H941654	299	229	0.4	1.92	< 2	160	< 0.5	< 2	0.93	< 0.5	11	95	788	2.89	10	< 1	0.70	< 10	1.29	85	56
H941655	299	229	0.4	2.39	< 2	120	< 0.5	< 2	1.07	< 0.5	10	248	1150	2.55	10	< 1	0.91	10	1.62	95	63
H941656	299	229	0.4	1.93	< 2	90	< 0.5	< 2	0.85	< 0.5	10	211	864	2.43	10	< 1	0.77	< 10	1.62	95	52
H941657	299	229	0.6	2.31	< 2	100	< 0.5	< 2	1.42	< 0.5	10	176	1190	3.01	10	< 1	0.90	10	1.61	120	69
H941658	299	229	0.4	1.64	< 2	100	< 0.5	< 2	0.89	< 0.5	7	123	1035	2.24	10	< 1	0.66	< 10	1.29	95	71
H941659	299	229	0.6	1.76	< 2	110	< 0.5	2	0.88	< 0.5	8	169	918	2.38	10	< 1	0.61	20	1.29	90	57
H941660	299	229	0.8	2.83	< 2	190	< 0.5	< 2	1.46	< 0.5	11	106	2030	2.80	10	1	0.87	10	1.62	115	91
H941661	299	229	0.8	3.38	< 2	510	< 0.5	< 2	1.29	< 0.5	13	83	2010	3.76	10	< 1	1.40	10	2.04	120	165

CERTIFICATION: Ivan Bruchler

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Project : CASINO 244
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Total Pages : 2
Certificate Date: 19-NOV-93
Invoice No. : I9324624
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324624

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H941622	299	229	0.04	23	440	8	< 2	29	61	0.23	< 10	< 10	187	10	102
H941623	299	229	0.07	20	480	4	< 2	29	97	0.28	< 10	< 10	199	10	82
H941624	299	229	0.11	16	530	6	< 2	26	215	0.23	< 10	< 10	173	< 10	60
H941625	299	229	0.08	17	600	< 2	< 2	22	52	0.24	< 10	< 10	174	< 10	72
H941626	299	229	0.08	17	570	4	< 2	20	42	0.24	< 10	< 10	172	< 10	72
H941627	299	229	0.09	14	730	6	< 2	29	74	0.30	< 10	< 10	270	< 10	68
H941628	299	229	0.09	13	590	4	< 2	19	71	0.26	< 10	< 10	193	< 10	50
H941629	299	229	0.11	22	730	4	< 2	20	44	0.31	< 10	< 10	224	< 10	76
H941630	299	229	0.12	30	810	4	< 2	24	40	0.34	< 10	< 10	243	10	98
H941631	299	229	0.13	26	720	8	< 2	21	38	0.26	< 10	< 10	211	10	108
H941632	299	229	0.11	31	630	6	< 2	18	31	0.25	< 10	< 10	234	< 10	104
H941633	299	229	0.13	29	560	4	< 2	17	38	0.22	< 10	< 10	225	< 10	86
H941634	299	229	0.14	20	540	< 2	< 2	13	37	0.15	< 10	< 10	146	< 10	52
H941635	299	229	0.09	10	1120	4	< 2	8	24	0.07	< 10	< 10	67	< 10	40
H941636	299	229	0.12	16	1750	4	< 2	15	65	0.18	< 10	< 10	141	< 10	52
H941637	299	229	0.13	14	1680	2	< 2	13	51	0.18	< 10	< 10	121	< 10	56
H941638	299	229	0.07	6	1290	4	2	5	23	0.03	< 10	< 10	50	< 10	44
H941639	299	229	0.06	7	1170	4	< 2	4	17	0.01	< 10	< 10	43	< 10	50
H941640	299	229	0.03	16	660	6	< 2	2	13	< 0.01	< 10	< 10	17	20	60
H941641	299	229	0.04	13	1210	4	< 2	3	14	0.01	< 10	< 10	37	< 10	56
H941642	299	229	0.07	5	1080	6	< 2	8	20	0.08	< 10	< 10	71	< 10	42
H941643	299	229	0.05	14	560	8	< 2	7	15	0.03	< 10	< 10	49	< 10	54
H941644	299	229	0.01	13	940	22	8	3	13	< 0.01	< 10	< 10	23	< 10	122
H941645	299	229	0.01	4	880	2	< 2	6	30	0.02	< 10	< 10	42	< 10	44
H941646	299	229	0.02	6	1130	2	< 2	5	17	0.01	< 10	< 10	55	< 10	60
H941647	299	229	0.10	8	1040	2	< 2	14	35	0.14	< 10	< 10	133	< 10	60
H941648	299	229	0.11	8	1170	8	< 2	16	39	0.20	< 10	< 10	148	< 10	52
H941649	299	229	0.10	5	1140	2	< 2	11	36	0.14	< 10	< 10	105	< 10	54
H941650	299	229	0.10	7	1270	2	< 2	13	52	0.21	< 10	< 10	131	< 10	60
H941651	299	229	0.08	20	380	2	2	9	104	0.14	< 10	< 10	75	< 10	26
H941652	299	229	0.08	19	540	2	18	10	32	0.13	< 10	< 10	79	< 10	50
H941653	299	229	0.08	22	480	< 2	< 2	16	165	0.19	< 10	< 10	126	< 10	42
H941654	299	229	0.07	12	440	2	< 2	11	129	0.16	< 10	< 10	94	< 10	22
H941655	299	229	0.08	20	350	2	< 2	8	91	0.12	< 10	< 10	61	< 10	24
H941656	299	229	0.04	28	510	< 2	< 2	7	94	0.11	< 10	< 10	63	< 10	22
H941657	299	229	0.03	23	520	< 2	< 2	9	42	0.09	< 10	< 10	67	< 10	28
H941658	299	229	0.03	19	320	2	< 2	7	26	0.12	< 10	< 10	59	< 10	26
H941659	299	229	0.03	18	300	< 2	< 2	7	33	0.07	< 10	< 10	51	< 10	24
H941660	299	229	0.07	17	580	4	< 2	12	124	0.10	< 10	< 10	94	< 10	28
H941661	299	229	0.16	6	1040	2	< 2	21	180	0.24	< 10	< 10	169	< 10	24

CERTIFICATION: Stewart Bechler

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Y1A 3S9

Project : CASINO 244
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 19-NOV-93
Invoice No. :19324624
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324624

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H941662	299	229	0.6	2.87	< 2	200	< 0.5	< 2	1.26	0.5	11	55	1105	4.05	10	< 1	0.82	10	1.53	105	31
H941663	299	229	1.2	2.32	< 2	90	< 0.5	< 2	1.70	< 0.5	11	80	1060	3.29	10	< 1	0.68	10	1.18	105	65
H941664	299	229	0.6	1.87	< 2	170	< 0.5	< 2	1.65	< 0.5	8	80	587	1.97	10	< 1	0.66	10	1.12	100	622
H941665	299	229	1.4	2.43	< 2	300	< 0.5	< 2	1.31	< 0.5	14	84	2860	3.11	10	< 1	0.94	10	1.46	120	40
H941666	299	229	0.6	2.50	< 2	260	< 0.5	< 2	1.51	< 0.5	11	71	690	3.27	10	< 1	0.81	10	1.44	130	168
H941667	299	229	0.6	2.46	< 2	230	< 0.5	< 2	2.25	< 0.5	8	61	712	2.27	10	< 1	0.61	< 10	1.17	105	189
H941668	299	229	0.8	2.88	< 2	370	< 0.5	< 2	1.69	< 0.5	9	68	1140	2.87	10	< 1	0.79	< 10	1.54	135	73
H941669	299	229	0.8	1.68	< 2	220	< 0.5	2	1.14	< 0.5	7	107	736	2.10	10	< 1	0.48	20	0.78	90	146
H941670	299	229	1.0	2.75	< 2	260	< 0.5	< 2	1.55	< 0.5	12	205	1515	2.84	10	< 1	1.08	10	1.99	145	240
H941671	299	229	0.8	3.49	< 2	350	< 0.5	< 2	1.74	< 0.5	14	326	1110	3.47	10	< 1	1.64	10	2.76	190	249
H941672	299	229	1.8	3.04	< 2	220	< 0.5	< 2	2.89	0.5	9	300	2280	2.62	10	< 1	1.71	20	2.60	195	929
H941673	299	229	1.2	4.07	< 2	460	< 0.5	< 2	2.65	< 0.5	11	210	2460	3.00	10	< 1	1.60	20	2.62	150	396
H941674	299	229	1.2	3.23	< 2	550	< 0.5	< 2	1.67	< 0.5	10	66	1900	3.20	10	< 1	1.36	10	2.09	190	272
H941675	299	229	1.8	3.30	< 2	240	1.0	< 2	1.54	< 0.5	13	71	2290	3.82	10	< 1	1.43	10	2.04	195	36
H941676	299	229	1.4	2.68	< 2	220	< 0.5	< 2	2.65	< 0.5	10	60	1895	3.04	10	< 1	1.24	10	1.79	210	330
H941677	299	229	1.8	2.78	2	90	< 0.5	< 2	2.03	< 0.5	14	147	1910	3.53	10	< 1	1.05	10	1.96	205	252
H941678	299	229	0.4	3.39	12	340	< 0.5	< 2	2.02	< 0.5	16	429	824	4.04	10	< 1	1.73	< 10	3.53	340	368
H941679	299	229	0.4	3.12	< 2	250	< 0.5	< 2	1.48	< 0.5	17	448	601	4.06	10	< 1	1.83	< 10	3.35	310	60
H941680	299	229	0.2	3.06	< 2	400	< 0.5	< 2	1.55	< 0.5	15	354	805	3.60	< 10	< 1	1.69	< 10	2.99	250	26
H941681	299	229	0.2	3.56	< 2	370	< 0.5	< 2	2.11	< 0.5	15	390	708	3.99	10	< 1	1.82	< 10	3.20	275	377
H941682	299	229	1.0	2.06	< 2	170	< 0.5	< 2	1.46	< 0.5	8	224	858	2.15	< 10	< 1	0.80	10	1.24	135	262
H941683	299	229	2.2	1.79	6	220	< 0.5	2	1.36	< 0.5	9	267	974	2.22	< 10	< 1	0.83	20	1.36	195	200
H941684	299	229	0.6	2.23	14	230	< 0.5	< 2	2.65	< 0.5	13	300	635	2.86	< 10	< 1	1.22	< 10	1.99	525	140
H941685	299	229	2.0	4.05	10	240	< 0.5	< 2	2.67	< 0.5	19	470	1740	4.37	10	< 1	1.97	< 10	3.39	425	134
H941686	299	229	2.4	3.23	24	290	< 0.5	< 2	5.14	1.0	19	391	1105	3.79	< 10	1	1.32	< 10	2.39	760	77
H941687	299	229	0.8	3.21	2	420	< 0.5	< 2	1.66	< 0.5	15	309	835	3.18	10	< 1	1.58	10	2.56	315	103
H941688	299	229	1.0	1.23	< 2	200	< 0.5	4	1.44	< 0.5	4	143	892	1.55	10	< 1	0.46	20	0.42	135	162
H941689	299	229	1.0	0.81	4	200	< 0.5	2	1.47	< 0.5	3	146	766	0.81	< 10	< 1	0.32	20	0.15	75	579
H941690	299	229	1.2	0.66	2	200	< 0.5	4	1.01	< 0.5	3	100	684	1.11	< 10	< 1	0.28	20	0.11	55	75
H941691	299	229	1.4	0.81	4	160	< 0.5	4	1.75	< 0.5	3	98	771	1.17	< 10	< 1	0.26	20	0.18	85	331
H941692	299	229	1.4	0.56	< 2	160	< 0.5	4	1.38	< 0.5	4	79	815	1.07	< 10	< 1	0.25	20	0.13	75	452
H941693	299	229	0.8	0.73	< 2	150	< 0.5	2	1.25	< 0.5	9	68	783	1.22	< 10	< 1	0.33	20	0.44	80	113
H941694	299	229	0.8	0.85	10	150	< 0.5	2	1.94	< 0.5	7	73	698	1.53	< 10	< 1	0.33	10	0.55	125	154
H941695	299	229	0.4	1.59	2	370	< 0.5	< 2	1.69	< 0.5	7	82	617	1.98	10	< 1	0.83	20	1.18	100	141
H941696	299	229	0.6	1.57	< 2	250	< 0.5	< 2	2.04	< 0.5	8	94	615	1.85	< 10	< 1	0.58	10	0.98	90	165

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H941662	299	229	0.13	3	1300	< 2	< 2	12	160	0.17	< 10	< 10	100	< 10	24
H941663	299	229	0.06	4	740	< 2	< 2	9	37	0.06	< 10	< 10	74	< 10	28
H941664	299	229	0.06	5	480	< 2	2	11	98	0.07	< 10	< 10	61	< 10	24
H941665	299	229	0.10	8	740	< 2	< 2	15	34	0.13	< 10	< 10	104	< 10	26
H941666	299	229	0.10	3	1130	< 2	< 2	13	57	0.12	< 10	< 10	90	< 10	28
H941667	299	229	0.03	4	930	< 2	< 2	10	73	0.06	< 10	< 10	69	< 10	26
H941668	299	229	0.08	4	1000	< 2	< 2	12	233	0.12	< 10	< 10	93	< 10	32
H941669	299	229	0.06	3	580	< 2	< 2	6	114	0.04	< 10	< 10	42	< 10	20
H941670	299	229	0.05	45	780	< 2	< 2	12	117	0.08	< 10	< 10	84	< 10	36
H941671	299	229	0.02	81	1250	< 2	< 2	16	34	0.13	< 10	< 10	107	< 10	46
H941672	299	229	0.02	51	1200	< 2	10	14	26	0.12	< 10	< 10	90	< 10	38
H941673	299	229	0.03	38	1190	< 2	< 2	15	35	0.15	< 10	< 10	104	< 10	34
H941674	299	229	0.09	8	1120	< 2	< 2	17	250	0.24	< 10	< 10	129	< 10	40
H941675	299	229	0.08	8	1190	2	< 2	20	76	0.25	< 10	< 10	148	< 10	46
H941676	299	229	0.06	10	950	< 2	< 2	16	74	0.20	< 10	< 10	117	< 10	34
H941677	299	229	0.06	41	1320	< 2	< 2	12	39	0.13	< 10	< 10	85	< 10	42
H941678	299	229	0.03	123	1310	< 2	< 2	14	60	0.17	< 10	< 10	117	10	68
H941679	299	229	0.03	123	1380	< 2	< 2	12	36	0.17	< 10	< 10	107	10	60
H941680	299	229	0.04	104	1230	< 2	< 2	13	47	0.18	< 10	< 10	114	10	44
H941681	299	229	0.03	114	1240	< 2	< 2	14	47	0.17	< 10	< 10	111	< 10	44
H941682	299	229	0.02	48	580	< 2	2	8	35	0.04	< 10	< 10	47	< 10	22
H941683	299	229	0.03	53	660	2	8	6	37	0.06	< 10	< 10	48	< 10	34
H941684	299	229	0.03	84	1000	< 2	< 2	10	46	0.11	< 10	< 10	72	< 10	48
H941685	299	229	0.01	129	1250	< 2	< 2	17	48	0.14	< 10	< 10	120	10	90
H941686	299	229	0.01	121	1210	6	< 2	15	59	0.09	< 10	< 10	95	10	150
H941687	299	229	0.04	77	880	< 2	< 2	14	44	0.13	< 10	< 10	94	< 10	38
H941688	299	229	0.04	9	260	4	2	3	36	0.01	< 10	< 10	20	< 10	16
H941689	299	229	0.04	3	220	2	4	1	35	< 0.01	< 10	< 10	< 1	< 10	14
H941690	299	229	0.02	2	160	2	2	< 1	35	< 0.01	< 10	< 10	2	< 10	12
H941691	299	229	0.03	2	310	2	4	1	36	< 0.01	< 10	< 10	2	< 10	14
H941692	299	229	0.03	2	300	2	4	1	33	< 0.01	< 10	< 10	< 1	< 10	12
H941693	299	229	0.04	3	410	2	< 2	4	32	0.01	< 10	< 10	24	< 10	16
H941694	299	229	0.03	4	320	< 2	< 2	7	46	0.01	< 10	< 10	34	< 10	20
H941695	299	229	0.07	5	480	2	< 2	14	43	0.14	< 10	< 10	80	< 10	14
H941696	299	229	0.06	5	480	< 2	< 2	10	45	0.07	< 10	< 10	59	< 10	16

CERTIFICATION: Stewart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 245
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9324744

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H940349	208	274	0.02	0.016	< 0.03	5560
H940350	208	274	0.03	0.025	< 0.03	5900
H940351	208	274	0.03	0.015	< 0.03	5500
H940352	208	274	0.04	0.196	0.27	5740
H940353	208	274	0.02	0.064	0.17	7240
H940354	208	274	0.02	0.046	0.10	5220
H940355	208	274	0.03	0.143	0.14	6600
H940356	208	276	0.03	0.045	0.17	7580
H940357	208	274	0.02	0.023	0.14	4340
H940358	208	274	0.02	0.016	0.07	6900
H940359	208	276	0.02	0.028	0.17	8040
H940360	208	274	0.03	0.035	0.14	4560
H940361	208	276	0.09	0.036	0.21	7680
H940362	208	276	0.02	0.034	0.14	9280
H940363	208	276	0.15	0.027	0.21	10520
H940364	208	276	0.19	0.038	0.10	10280
H940365	208	276	0.14	0.021	0.07	11360
H940366	208	276	0.25	0.041	0.10	10500
H940367	208	274	0.26	0.036	0.10	5780
H940368	208	276	0.33	0.026	0.14	10460
H940369	208	276	0.40	0.047	0.31	9160
H940370	208	276	0.38	0.060	0.34	10820
H940371	208	276	0.25	0.029	0.14	10060
H940372	208	276	0.24	0.038	0.17	10700
H940373	208	276	0.24	0.026	0.14	10000
H940374	208	276	0.28	0.019	0.17	10860
H940375	208	276	0.32	0.015	0.17	10820
H940376	208	276	0.49	0.014	0.27	10220
H940377	208	276	0.39	0.013	0.27	8260
H940378	208	276	0.28	0.015	0.17	10480
H940379	208	276	0.28	0.030	0.21	9120
H940380	208	276	0.32	0.015	0.24	11000
H940381	208	276	0.26	0.016	0.10	10500
H940382	208	276	0.28	0.016	0.21	8320
H940383	208	276	0.28	0.026	0.14	8840
H940384	208	276	0.32	0.024	0.31	10000
H940385	208	276	0.29	0.026	0.24	10820
H940386	208	276	0.30	0.049	0.34	10360
H940387	208	276	0.24	0.098	0.24	11180
H940388	208	276	0.31	0.045	0.21	9560

CERTIFICATION: A Christie

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H940389	208 276	0.35	0.043	0.34	10600
H940390	208 276	0.31	0.034	0.21	10100
H940391	208 276	0.27	0.032	0.17	10060
H940392	208 274	0.17	0.024	0.14	4860
H940393	208 276	0.20	0.022	0.07	7660
H940394	208 274	0.04	0.003	0.07	6320
H940395	208 276	0.06	0.001	0.07	11700
H940396	208 276	0.04	< 0.001	0.14	10780
H940397	208 276	0.01	< 0.001	< 0.03	10840
H940398	208 276	0.04	0.003	< 0.03	11000
H940399	208 273	0.13	0.006	0.03	12160
H940400	208 276	0.07	0.019	0.07	10840
H940401	208 273	0.16	0.012	0.10	12800
H940402	208 276	0.08	0.020	0.07	11600
H940403	208 276	0.11	0.010	0.07	11140
H940404	208 276	0.13	0.013	0.03	11440
H940405	208 276	0.06	0.006	0.10	11100
H940406	208 276	0.04	0.013	0.07	10860
H940407	208 273	0.05	0.014	0.10	12660
H940408	208 273	0.03	0.008	0.07	12500
H940409	208 276	0.03	0.005	0.07	11680
H940410	208 273	0.04	0.003	< 0.03	12020
H940411	208 273	0.03	0.002	< 0.03	12800
H940412	208 276	0.02	0.005	0.07	11100
H940413	208 273	0.02	0.005	< 0.03	12140
H940414	208 276	0.03	0.006	< 0.03	11040
H940415	208 273	0.02	0.004	< 0.03	12600
H940416	208 273	0.02	0.005	< 0.03	12080
H940417	208 273	0.01	0.003	< 0.03	11840
H940418	208 273	0.02	0.026	< 0.03	12520
H940419	208 276	0.07	0.015	0.07	11300
H940420	208 273	0.05	0.005	0.10	12040
H940421	208 273	0.02	0.006	< 0.03	12220
H940422	208 273	0.06	0.004	< 0.03	13300
H940423	208 273	0.01	0.003	< 0.03	12040
H940424	208 276	0.02	0.004	< 0.03	11000
H940425	208 273	0.02	0.005	< 0.03	12300
H940426	208 273	0.01	0.003	0.03	13400
H940427	208 273	0.01	0.005	< 0.03	12840
H940428	208 273	0.01	0.005	< 0.03	12280

CERTIFICATION: _____

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H940429	208 273	0.02	0.004	< 0.03	12300
H940430	208 273	0.02	0.002	< 0.03	13000
H940431	208 273	0.07	0.002	0.07	12860
H940432	208 273	0.02	0.003	< 0.03	13320
H940433	208 273	0.03	0.002	< 0.03	13220
H940434	208 273	0.02	0.002	< 0.03	12900
H940435	208 273	0.03	0.001	< 0.03	12380
H940436	208 273	0.03	0.001	< 0.03	12440
H940437	208 273	0.02	0.001	< 0.03	11900
H940438	208 273	0.01	0.003	< 0.03	12000
H940439	208 276	0.01	0.011	< 0.03	11480
H940440	208 273	0.02	0.002	< 0.03	12300
H940441	208 276	0.04	0.003	< 0.03	11580
H940442	208 273	0.02	0.001	< 0.03	13360
H940443	208 273	0.02	0.006	< 0.03	12360
H940444	208 273	0.01	0.005	< 0.03	12720
H940445	208 273	0.01	0.003	< 0.03	13120
H940446	208 273	0.02	0.004	0.03	13020
H940447	208 276	0.02	0.012	< 0.03	9480

CERTIFICATION: D. G. Grace

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.
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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940349	299	229	0.4	1.37	4	190	< 0.5	< 2	0.13	< 0.5	3	55	216	2.06	< 10	< 1	0.53	20	0.40	65	103
H940350	299	229	0.6	1.09	14	140	< 0.5	< 2	0.12	< 0.5	2	42	270	2.71	< 10	< 1	0.49	10	0.26	30	159
H940351	299	229	0.8	1.15	4	150	< 0.5	< 2	0.10	< 0.5	1	47	295	3.27	< 10	< 1	0.50	20	0.26	35	94
H940352	299	229	2.4	2.08	6	130	< 0.5	< 2	0.08	< 0.5	2	66	426	5.65	10	< 1	0.63	10	0.64	95	1115
H940353	299	229	2.0	2.05	6	100	< 0.5	< 2	0.08	< 0.5	< 1	79	209	2.94	< 10	< 1	0.42	20	0.48	75	409
H940354	299	229	1.2	2.35	< 2	80	< 0.5	< 2	0.06	< 0.5	1	68	225	3.08	< 10	< 1	0.34	10	0.74	100	297
H940355	299	229	2.0	2.09	4	90	< 0.5	< 2	0.05	< 0.5	1	73	333	4.39	< 10	< 1	0.37	10	0.60	75	875
H940356	299	229	1.2	2.15	14	80	< 0.5	< 2	0.05	< 0.5	3	84	279	3.27	< 10	< 1	0.51	10	0.72	85	284
H940357	299	229	0.6	1.82	2	40	< 0.5	< 2	0.06	< 0.5	< 1	74	226	2.92	< 10	< 1	0.26	10	0.23	25	155
H940358	299	229	0.2	2.00	18	60	< 0.5	< 2	0.05	< 0.5	< 1	44	193	3.25	< 10	< 1	0.26	10	0.33	35	110
H940359	299	229	1.2	1.78	< 2	150	< 0.5	< 2	0.03	< 0.5	1	55	203	2.39	< 10	< 1	0.34	10	0.27	30	195
H940360	299	229	1.6	1.46	< 2	90	< 0.5	< 2	0.02	< 0.5	1	98	299	2.63	< 10	< 1	0.39	20	0.16	15	231
H940361	299	229	2.0	1.64	12	130	< 0.5	< 2	0.01	< 0.5	7	113	878	2.75	< 10	< 1	0.42	20	0.25	35	240
H940362	299	229	2.4	1.59	14	90	< 0.5	< 2	0.02	< 0.5	< 1	116	224	2.65	< 10	< 1	0.32	10	0.15	20	223
H940363	299	229	2.4	2.04	4	100	< 0.5	< 2	0.02	< 0.5	11	106	1550	3.64	< 10	< 1	0.46	10	0.40	55	180
H940364	299	229	1.6	1.84	2	110	< 0.5	< 2	0.02	< 0.5	19	130	2000	4.21	< 10	< 1	0.46	10	0.62	90	251
H940365	299	229	0.8	3.36	6	110	< 0.5	< 2	0.02	< 0.5	9	94	1310	3.47	10	< 1	0.81	20	1.29	145	126
H940366	299	229	1.2	1.68	< 2	100	< 0.5	< 2	0.03	< 0.5	14	103	2400	3.59	< 10	< 1	0.38	20	0.73	100	261
H940367	299	229	1.2	1.65	< 2	80	< 0.5	< 2	0.02	< 0.5	9	104	2570	3.52	< 10	< 1	0.36	20	0.63	85	227
H940368	299	229	1.6	1.59	2	100	< 0.5	< 2	0.03	< 0.5	10	119	3320	2.51	< 10	< 1	0.38	20	0.60	75	160
H940369	299	229	2.2	1.98	8	110	< 0.5	< 2	0.04	< 0.5	11	101	3810	3.36	< 10	< 1	0.52	10	0.88	105	277
H940370	299	229	2.6	1.83	2	90	< 0.5	< 2	0.07	< 0.5	14	108	3920	4.13	< 10	< 1	0.47	10	0.88	125	388
H940371	299	229	1.2	2.16	6	130	< 0.5	< 2	0.04	< 0.5	12	120	2570	3.94	< 10	< 1	0.61	10	0.98	120	186
H940372	299	229	1.6	1.91	< 2	120	< 0.5	< 2	0.04	< 0.5	11	108	2380	3.29	< 10	< 1	0.51	10	0.79	115	211
H940373	299	229	1.4	2.40	< 2	140	< 0.5	< 2	0.07	< 0.5	13	116	2400	3.01	10	< 1	0.73	20	1.17	135	154
H940374	299	229	1.6	2.01	6	120	< 0.5	< 2	0.05	< 0.5	15	124	2870	4.05	< 10	< 1	0.63	10	0.95	130	111
H940375	299	229	1.2	3.15	12	130	< 0.5	< 2	0.04	< 0.5	21	113	3090	5.18	10	< 1	1.01	10	1.49	170	85
H940376	299	229	1.8	2.35	14	110	< 0.5	4	0.03	< 0.5	22	100	4950	4.85	10	< 1	0.68	10	1.11	115	88
H940377	299	229	2.2	2.29	4	110	< 0.5	2	0.03	< 0.5	17	140	3910	3.82	10	< 1	0.61	10	0.96	100	80
H940378	299	229	1.4	1.95	< 2	110	< 0.5	< 2	0.02	< 0.5	9	123	2810	2.72	< 10	< 1	0.59	10	1.03	95	88
H940379	299	229	1.6	1.73	< 2	120	< 0.5	< 2	0.02	< 0.5	10	105	2690	2.38	< 10	< 1	0.50	10	0.86	75	175
H940380	299	229	1.6	2.43	< 2	110	< 0.5	< 2	0.03	< 0.5	10	91	3150	2.47	< 10	< 1	0.60	10	1.16	100	93
H940381	299	229	1.4	2.41	< 2	130	< 0.5	< 2	0.04	< 0.5	14	106	2590	3.15	< 10	< 1	0.93	10	1.52	120	109
H940382	299	229	1.2	2.28	4	150	< 0.5	2	0.02	< 0.5	13	134	2820	2.58	< 10	< 1	0.64	10	1.21	105	100
H940383	299	229	1.4	2.60	8	140	< 0.5	< 2	0.03	< 0.5	9	119	2940	2.25	< 10	< 1	0.58	10	1.05	85	165
H940384	299	229	1.4	2.39	2	120	< 0.5	2	0.02	< 0.5	9	133	3280	2.52	< 10	< 1	0.52	10	0.94	80	160
H940385	299	229	1.6	2.40	2	150	< 0.5	2	0.03	< 0.5	10	148	3080	2.40	< 10	< 1	0.64	10	1.04	80	180
H940386	299	229	2.2	2.05	20	160	< 0.5	< 2	0.09	< 0.5	13	153	3170	2.97	10	< 1	0.59	10	1.10	135	327
H940387	299	229	2.0	1.93	2	150	< 0.5	< 2	0.12	< 0.5	16	146	2440	3.12	10	< 1	0.55	20	1.00	155	607
H940388	299	229	1.8	2.07	4	90	< 0.5	2	0.07	< 0.5	15	147	3160	2.60	< 10	< 1	0.50	10	1.03	80	297

CERTIFICATION: Ian H Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 245
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9324745

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940349	299	229	0.03	4	440	< 2	< 2	4	38	0.02	< 10	< 10	31	< 10	24
H940350	299	229	0.02	3	580	< 2	2	3	35	< 0.01	< 10	< 10	24	< 10	22
H940351	299	229	0.02	3	460	4	< 2	3	35	0.01	< 10	< 10	30	< 10	16
H940352	299	229	0.02	3	450	6	8	4	29	0.03	< 10	< 10	53	< 10	18
H940353	299	229	0.03	2	480	< 2	< 2	4	36	0.01	< 10	< 10	42	< 10	16
H940354	299	229	0.02	6	530	2	< 2	4	38	0.02	< 10	< 10	47	< 10	22
H940355	299	229	0.02	2	630	< 2	4	4	32	0.01	< 10	< 10	48	< 10	18
H940356	299	229	0.02	4	510	4	2	5	24	0.06	< 10	< 10	46	20	16
H940357	299	229	< 0.01	2	480	8	2	3	25	0.01	< 10	< 10	33	< 10	10
H940358	299	229	0.01	3	590	2	< 2	4	25	0.02	< 10	< 10	37	< 10	6
H940359	299	229	0.03	1	420	6	2	6	17	0.01	< 10	< 10	39	< 10	8
H940360	299	229	0.04	2	410	< 2	2	5	14	0.01	< 10	< 10	51	< 10	6
H940361	299	229	0.02	5	410	2	2	7	14	0.02	< 10	< 10	60	< 10	8
H940362	299	229	0.01	2	420	< 2	< 2	5	18	0.01	< 10	< 10	54	< 10	8
H940363	299	229	0.05	6	330	6	< 2	7	19	0.02	< 10	< 10	92	< 10	12
H940364	299	229	0.04	8	290	< 2	< 2	4	15	0.01	< 10	< 10	59	< 10	16
H940365	299	229	0.06	10	380	6	< 2	7	20	0.10	< 10	< 10	65	< 10	24
H940366	299	229	0.05	6	350	4	< 2	5	15	0.01	< 10	< 10	56	< 10	20
H940367	299	229	0.04	6	270	< 2	< 2	4	13	0.01	< 10	< 10	55	< 10	18
H940368	299	229	0.04	7	270	< 2	< 2	5	15	0.01	< 10	< 10	49	< 10	20
H940369	299	229	0.05	8	280	< 2	< 2	6	17	0.03	< 10	< 10	68	< 10	26
H940370	299	229	0.05	8	330	< 2	< 2	7	18	0.03	< 10	< 10	74	< 10	32
H940371	299	229	0.08	9	360	4	< 2	7	40	0.04	< 10	< 10	67	< 10	26
H940372	299	229	0.07	7	270	4	< 2	6	32	0.02	< 10	< 10	57	< 10	24
H940373	299	229	0.08	7	360	12	< 2	9	31	0.08	< 10	< 10	74	< 10	24
H940374	299	229	0.06	10	300	2	< 2	8	20	0.06	< 10	< 10	86	< 10	26
H940375	299	229	0.08	18	410	6	< 2	12	81	0.11	< 10	< 10	102	< 10	26
H940376	299	229	0.08	13	300	4	< 2	9	58	0.07	< 10	< 10	82	< 10	24
H940377	299	229	0.06	12	380	4	< 2	8	119	0.05	< 10	< 10	72	< 10	22
H940378	299	229	0.06	8	320	2	< 2	6	99	0.06	< 10	< 10	52	< 10	20
H940379	299	229	0.05	7	270	< 2	< 2	6	67	0.03	< 10	< 10	47	< 10	18
H940380	299	229	0.08	6	380	4	< 2	8	73	0.06	< 10	< 10	60	< 10	22
H940381	299	229	0.06	9	380	10	< 2	11	49	0.11	< 10	< 10	91	< 10	22
H940382	299	229	0.07	8	350	6	< 2	9	57	0.07	< 10	< 10	67	< 10	22
H940383	299	229	0.06	9	330	< 2	< 2	9	33	0.05	< 10	< 10	54	10	20
H940384	299	229	0.06	8	340	2	< 2	8	52	0.04	< 10	< 10	59	< 10	18
H940385	299	229	0.07	8	380	< 2	< 2	9	36	0.05	< 10	< 10	60	< 10	20
H940386	299	229	0.06	9	410	8	< 2	8	27	0.04	< 10	< 10	74	< 10	28
H940387	299	229	0.07	9	490	2	6	6	28	0.02	< 10	< 10	59	< 10	30
H940388	299	229	0.09	9	380	6	2	7	25	0.03	< 10	< 10	59	< 10	20

CERTIFICATION: Ian Bichler

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ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 245
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-NOV-93
Invoice No. :I9324745
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324745

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940389	299	229	2.2	2.17	8	100	< 0.5	2	0.09	< 0.5	11	120	3490	2.24	< 10	< 1	0.48	10	0.90	70	256
H940390	299	229	1.6	1.92	6	80	< 0.5	< 2	0.06	< 0.5	18	98	2940	5.05	< 10	< 1	0.48	10	1.00	100	194
H940391	299	229	1.6	2.16	< 2	90	< 0.5	< 2	0.12	< 0.5	16	124	2700	3.66	10	< 1	0.51	10	1.19	100	198
H940392	299	229	0.8	2.18	4	90	< 0.5	< 2	0.14	< 0.5	16	121	1730	3.80	10	< 1	0.51	20	1.12	100	147
H940393	299	229	0.8	1.78	8	100	< 0.5	< 2	0.13	< 0.5	13	129	2030	3.83	10	< 1	0.39	20	0.73	180	139
H940394	299	229	0.2	1.69	< 2	140	< 0.5	< 2	0.24	< 0.5	12	93	435	3.31	10	< 1	0.34	20	0.75	305	19
H940395	299	229	0.4	1.80	< 2	170	< 0.5	< 2	0.28	< 0.5	19	101	576	3.57	10	< 1	0.39	30	0.78	410	2
H940396	299	229	0.4	1.70	8	170	0.5	< 2	0.33	< 0.5	23	107	466	3.75	10	< 1	0.43	30	0.67	515	3
H940397	299	229	< 0.2	1.53	8	130	< 0.5	< 2	0.31	< 0.5	21	95	121	3.71	10	< 1	0.30	30	0.69	540	< 1
H940398	299	229	0.2	1.01	< 2	70	< 0.5	< 2	0.46	< 0.5	16	66	434	3.24	10	< 1	0.11	30	0.68	405	15
H940399	299	229	0.8	1.04	4	100	< 0.5	< 2	0.68	< 0.5	21	118	1290	3.63	10	< 1	0.28	20	0.58	445	37
H940400	299	229	0.8	0.93	< 2	110	< 0.5	< 2	0.87	< 0.5	22	133	734	3.90	10	< 1	0.34	30	0.55	340	107
H940401	299	229	0.8	1.39	12	130	< 0.5	< 2	0.46	< 0.5	16	179	1540	3.77	10	< 1	0.50	30	0.44	325	67
H940402	299	229	0.4	1.40	12	140	< 0.5	< 2	0.91	< 0.5	15	145	777	4.44	10	< 1	0.47	30	0.53	315	113
H940403	299	229	1.0	1.39	2	150	< 0.5	2	0.83	< 0.5	15	119	1110	3.81	10	< 1	0.43	30	0.47	365	56
H940404	299	229	1.4	1.32	12	170	< 0.5	< 2	0.81	< 0.5	22	126	1285	4.60	10	< 1	0.39	30	0.52	485	70
H940405	299	229	0.4	1.26	4	70	< 0.5	< 2	1.22	< 0.5	11	74	614	3.16	10	< 1	0.29	20	0.66	200	30
H940406	299	229	0.4	1.27	6	100	< 0.5	< 2	0.98	< 0.5	10	91	386	3.19	10	< 1	0.32	20	0.65	190	66
H940407	299	229	0.6	1.36	30	110	< 0.5	< 2	0.89	< 0.5	11	87	519	4.02	10	< 1	0.32	10	0.69	210	74
H940408	299	229	0.4	1.33	6	140	< 0.5	< 2	0.87	< 0.5	14	96	345	4.43	10	< 1	0.36	10	0.65	285	42
H940409	299	229	0.4	1.54	2	190	< 0.5	4	0.62	< 0.5	10	94	337	3.13	10	< 1	0.33	20	0.78	225	25
H940410	299	229	0.4	1.39	2	250	< 0.5	< 2	0.81	< 0.5	7	119	405	2.62	10	< 1	0.36	20	0.74	200	15
H940411	299	229	0.4	1.29	6	180	< 0.5	< 2	0.99	< 0.5	6	97	333	2.73	10	< 1	0.25	20	0.71	155	9
H940412	299	229	0.2	1.33	< 2	110	< 0.5	< 2	1.20	< 0.5	6	90	256	2.53	10	< 1	0.20	20	0.74	150	23
H940413	299	229	0.4	1.48	< 2	100	< 0.5	< 2	1.07	< 0.5	8	106	232	2.86	10	< 1	0.34	20	0.71	150	30
H940414	299	229	0.2	1.62	< 2	110	< 0.5	< 2	1.26	< 0.5	7	124	257	2.85	10	< 1	0.44	20	0.68	160	33
H940415	299	229	< 0.2	1.42	2	90	< 0.5	< 2	1.29	< 0.5	8	125	161	3.52	10	< 1	0.35	20	0.73	175	23
H940416	299	229	0.2	1.47	< 2	110	< 0.5	2	1.40	0.5	9	135	250	4.29	10	< 1	0.40	20	0.67	195	27
H940417	299	229	0.2	1.50	< 2	90	< 0.5	< 2	1.19	< 0.5	8	96	135	3.06	10	< 1	0.33	20	0.71	150	18
H940418	299	229	< 0.2	1.26	< 2	90	< 0.5	< 2	1.27	< 0.5	9	85	241	4.81	10	< 1	0.37	10	0.56	180	145
H940419	299	229	0.6	1.49	< 2	120	< 0.5	< 2	1.13	< 0.5	11	91	688	4.49	10	< 1	0.49	10	0.59	195	79
H940420	299	229	0.6	1.50	4	90	< 0.5	< 2	1.33	< 0.5	7	80	440	3.42	10	< 1	0.42	20	0.66	160	31
H940421	299	229	< 0.2	1.36	< 2	160	< 0.5	< 2	1.46	< 0.5	3	69	162	2.85	10	< 1	0.35	20	0.59	165	33
H940422	299	229	0.6	1.50	< 2	100	< 0.5	2	1.53	< 0.5	6	60	550	3.13	10	< 1	0.36	20	0.75	155	25
H940423	299	229	0.2	1.35	< 2	90	< 0.5	2	1.55	< 0.5	8	55	104	2.68	< 10	< 1	0.33	10	0.67	160	20
H940424	299	229	0.4	1.25	2	100	< 0.5	4	1.24	< 0.5	9	52	234	3.19	10	< 1	0.29	10	0.60	150	20
H940425	299	229	0.2	1.27	< 2	150	< 0.5	< 2	1.20	< 0.5	6	48	156	3.05	10	< 1	0.28	10	0.67	145	24
H940426	299	229	0.2	1.25	12	80	< 0.5	< 2	1.37	< 0.5	7	55	131	2.81	10	< 1	0.28	20	0.66	180	19
H940427	299	229	0.2	1.22	12	90	< 0.5	4	1.01	< 0.5	6	86	91	2.58	10	< 1	0.21	10	0.75	150	25
H940428	299	229	0.2	1.27	< 2	100	< 0.5	< 2	1.22	< 0.5	7	108	83	2.61	< 10	< 1	0.32	10	0.67	160	30

CERTIFICATION: Stuart Buchlen

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Project : CASINO 245
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 20-NOV-93
Invoice No. :19324745
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324745

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940389	299	229	0.07	11	420	6	2	6	42	0.02	< 10	< 10	54	< 10	22
H940390	299	229	0.07	10	310	4	< 2	6	25	0.03	< 10	< 10	91	< 10	22
H940391	299	229	0.07	13	570	< 2	2	6	28	0.05	< 10	< 10	58	10	22
H940392	299	229	0.06	11	580	4	< 2	5	48	0.04	< 10	< 10	58	< 10	24
H940393	299	229	0.06	10	430	12	2	4	43	< 0.01	< 10	< 10	40	< 10	34
H940394	299	229	0.08	8	750	< 2	< 2	2	23	< 0.01	< 10	< 10	29	< 10	50
H940395	299	229	0.07	8	820	2	< 2	2	21	< 0.01	< 10	< 10	29	< 10	56
H940396	299	229	0.07	9	840	2	< 2	2	19	< 0.01	< 10	< 10	24	< 10	66
H940397	299	229	0.07	7	780	4	< 2	2	20	< 0.01	< 10	< 10	29	< 10	66
H940398	299	229	0.03	6	760	6	< 2	2	15	< 0.01	< 10	< 10	26	< 10	54
H940399	299	229	0.06	8	730	6	< 2	2	22	< 0.01	< 10	< 10	22	< 10	58
H940400	299	229	0.05	7	630	2	< 2	1	28	< 0.01	< 10	< 10	21	< 10	44
H940401	299	229	0.08	9	580	4	2	2	24	< 0.01	< 10	< 10	25	< 10	40
H940402	299	229	0.07	8	600	< 2	< 2	2	31	< 0.01	< 10	< 10	28	< 10	36
H940403	299	229	0.07	5	650	2	< 2	2	31	< 0.01	< 10	< 10	23	< 10	48
H940404	299	229	0.04	7	610	< 2	< 2	2	26	< 0.01	< 10	< 10	24	< 10	50
H940405	299	229	0.06	4	650	4	< 2	2	35	< 0.01	< 10	< 10	23	10	24
H940406	299	229	0.07	5	630	< 2	< 2	2	33	< 0.01	< 10	< 10	24	< 10	24
H940407	299	229	0.08	6	630	4	2	2	34	0.01	< 10	< 10	31	10	28
H940408	299	229	0.06	6	640	8	< 2	2	32	0.01	< 10	< 10	33	10	32
H940409	299	229	0.10	7	660	6	< 2	3	36	0.04	< 10	< 10	35	< 10	32
H940410	299	229	0.11	7	640	< 2	< 2	3	43	0.06	< 10	< 10	35	< 10	28
H940411	299	229	0.09	4	640	8	< 2	3	47	0.03	< 10	< 10	34	< 10	22
H940412	299	229	0.08	6	650	8	< 2	3	61	0.01	< 10	< 10	31	10	22
H940413	299	229	0.08	5	630	< 2	2	2	55	< 0.01	< 10	< 10	25	< 10	20
H940414	299	229	0.08	5	650	8	< 2	2	61	< 0.01	< 10	< 10	25	10	22
H940415	299	229	0.07	6	660	< 2	2	2	62	< 0.01	< 10	< 10	30	10	24
H940416	299	229	0.07	5	640	2	2	2	56	< 0.01	< 10	< 10	32	10	24
H940417	299	229	0.09	4	650	< 2	< 2	3	51	< 0.01	< 10	< 10	31	10	20
H940418	299	229	0.05	4	600	< 2	2	2	43	< 0.01	< 10	< 10	30	10	22
H940419	299	229	0.05	4	580	4	< 2	2	46	< 0.01	< 10	< 10	26	10	22
H940420	299	229	0.06	4	590	< 2	< 2	2	49	< 0.01	< 10	< 10	22	10	20
H940421	299	229	0.06	3	610	2	< 2	2	347	< 0.01	< 10	< 10	24	10	18
H940422	299	229	0.07	4	670	< 2	< 2	2	225	< 0.01	< 10	< 10	28	10	20
H940423	299	229	0.07	5	660	8	< 2	2	63	< 0.01	< 10	< 10	26	10	20
H940424	299	229	0.06	4	580	8	< 2	2	132	< 0.01	< 10	< 10	26	10	18
H940425	299	229	0.06	4	610	2	< 2	2	910	< 0.01	< 10	< 10	25	10	20
H940426	299	229	0.05	3	640	2	2	2	72	< 0.01	< 10	< 10	26	10	22
H940427	299	229	0.08	5	680	4	2	2	70	0.02	< 10	< 10	32	10	22
H940428	299	229	0.09	4	670	6	< 2	2	62	0.04	< 10	< 10	32	10	20

CERTIFICATION: Ian Bichler

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Project : CASINO 245
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
Total Pages :3
Certificate Date: 20-NOV-93
Invoice No. :I9324745
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324745

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940429	299	229	0.2	1.33	< 2	130	< 0.5	< 2	0.84	< 0.5	7	143	161	3.17	< 10	< 1	0.26	10	0.72	150	23
H940430	299	229	0.2	1.35	< 2	150	< 0.5	2	0.94	< 0.5	4	104	215	2.55	10	< 1	0.20	10	0.82	150	8
H940431	299	229	0.6	1.37	10	190	< 0.5	4	1.67	< 0.5	6	131	629	2.57	10	< 1	0.31	20	0.65	210	11
H940432	299	229	0.2	1.37	< 2	90	< 0.5	6	1.41	< 0.5	7	115	245	2.63	10	< 1	0.27	20	0.67	145	13
H940433	299	229	0.4	1.40	< 2	170	< 0.5	2	1.21	< 0.5	6	136	336	2.74	10	< 1	0.29	20	0.72	155	9
H940434	299	229	0.2	1.21	< 2	170	< 0.5	< 2	0.99	< 0.5	4	120	194	2.51	10	< 1	0.23	20	0.75	140	8
H940435	299	229	0.2	1.13	12	210	< 0.5	< 2	0.70	< 0.5	3	105	278	2.17	< 10	< 1	0.24	10	0.78	140	6
H940436	299	229	0.2	1.15	16	160	< 0.5	4	1.18	< 0.5	5	119	260	2.41	< 10	< 1	0.26	10	0.74	135	4
H940437	299	229	< 0.2	1.18	< 2	160	< 0.5	4	1.56	< 0.5	6	98	209	2.30	10	< 1	0.18	20	0.66	130	6
H940438	299	229	0.2	1.06	6	110	< 0.5	< 2	1.07	< 0.5	5	60	126	2.12	< 10	< 1	0.17	10	0.69	105	19
H940439	299	229	< 0.2	1.29	< 2	130	< 0.5	< 2	1.12	< 0.5	7	69	124	2.78	< 10	< 1	0.24	10	0.74	115	68
H940440	299	229	0.2	1.16	< 2	140	< 0.5	4	0.83	< 0.5	6	85	180	2.36	< 10	< 1	0.22	10	0.77	115	16
H940441	299	229	0.2	1.37	8	150	< 0.5	4	1.10	< 0.5	6	76	398	2.51	10	< 1	0.23	10	0.78	130	16
H940442	299	229	< 0.2	1.35	6	140	< 0.5	2	1.09	< 0.5	4	90	144	2.23	< 10	< 1	0.22	10	0.81	125	7
H940443	299	229	0.2	1.51	6	120	< 0.5	< 2	1.02	< 0.5	5	94	168	2.53	10	< 1	0.23	10	0.81	135	32
H940444	299	229	0.2	1.47	12	130	< 0.5	2	1.49	< 0.5	5	73	123	2.40	10	< 1	0.23	20	0.69	140	28
H940445	299	229	< 0.2	1.32	< 2	90	< 0.5	2	1.04	< 0.5	4	82	133	2.25	10	< 1	0.22	10	0.73	125	15
H940446	299	229	0.2	1.16	6	130	< 0.5	4	0.96	< 0.5	5	88	161	2.29	< 10	< 1	0.20	10	0.74	120	19
H940447	299	229	0.2	1.35	4	100	< 0.5	2	1.63	< 0.5	3	91	156	2.20	10	< 1	0.17	20	0.69	140	66

CERTIFICATION: Hart Bichler

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Project : CASINO 245
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Page Number :3-B
Total Pages :3
Certificate Date: 20-NOV-93
Invoice No. : I9324745
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Account :FC

CERTIFICATE OF ANALYSIS A9324745

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940429	299	229	0.12	5	640	6	< 2	3	72	0.11	< 10	< 10	39	30	20
H940430	299	229	0.09	5	680	20	< 2	3	87	0.06	< 10	< 10	36	10	22
H940431	299	229	0.08	6	630	2	< 2	2	626	0.01	< 10	< 10	27	10	20
H940432	299	229	0.07	4	650	4	< 2	2	59	< 0.01	< 10	< 10	26	10	18
H940433	299	229	0.09	6	660	< 2	< 2	3	69	0.02	< 10	< 10	31	10	20
H940434	299	229	0.09	3	670	8	< 2	3	73	0.08	< 10	< 10	36	10	18
H940435	299	229	0.12	6	640	4	< 2	3	58	0.14	< 10	< 10	40	10	20
H940436	299	229	0.09	4	660	< 2	< 2	3	75	0.10	< 10	< 10	36	10	18
H940437	299	229	0.08	6	680	< 2	< 2	3	264	0.01	< 10	< 10	27	10	16
H940438	299	229	0.07	4	620	< 2	< 2	2	82	0.02	< 10	< 10	27	10	14
H940439	299	229	0.10	3	650	8	< 2	2	110	0.01	< 10	< 10	28	10	16
H940440	299	229	0.09	6	670	6	< 2	2	66	0.08	< 10	< 10	33	< 10	16
H940441	299	229	0.10	4	650	< 2	< 2	3	86	0.06	< 10	< 10	34	10	18
H940442	299	229	0.10	4	690	4	2	3	84	0.07	< 10	< 10	35	10	18
H940443	299	229	0.12	3	680	2	< 2	3	98	0.05	< 10	< 10	34	10	18
H940444	299	229	0.06	4	670	2	< 2	2	301	< 0.01	< 10	< 10	26	10	18
H940445	299	229	0.10	5	630	4	< 2	2	100	0.02	< 10	< 10	28	10	16
H940446	299	229	0.09	7	630	10	< 2	2	119	0.04	< 10	< 10	29	10	16
H940447	299	229	0.08	4	640	8	< 2	2	145	< 0.01	< 10	< 10	25	10	18

CERTIFICATION: Ian Bichler

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Analytical Chemists * Geochemists * Registered Assayers
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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-246
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. :I9324956
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324956

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H941142	208 274	0.02	0.108	0.07	7180
H941143	208 276	0.02	0.117	0.07	10060
H941144	208 276	0.01	0.062	0.10	8420
H941145	208 274	0.01	0.068	0.07	2940
H941146	208 276	0.01	0.038	0.14	10900
H941147	208 274	0.01	0.104	0.14	6800
H941148	208 274	0.02	0.124	0.10	5300
H941149	208 274	0.02	0.082	0.10	6280
H941150	208 274	0.02	0.050	0.21	5840
H941151	208 273	0.01	0.033	0.10	12960
H941152	208 276	0.02	0.046	0.14	7840
H941153	208 274	0.02	0.119	0.17	5440
H941154	208 276	0.01	0.068	0.10	9300
H941155	208 276	0.02	0.069	0.17	11140
H941156	208 276	0.03	0.075	0.24	10980
H941157	208 276	0.04	0.057	0.21	11300
H941158	208 274	0.19	0.029	0.14	6840
H941159	208 276	0.23	0.098	0.24	9240
H941160	208 274	0.50	0.050	0.31	4200
H941161	208 274	0.48	0.054	0.27	5500
H941162	208 276	0.48	0.038	0.24	9100
H941163	208 276	0.67	0.222	0.34	8180
H941164	208 276	0.60	0.074	0.34	9200
H941165	208 276	0.34	0.040	0.14	7280
H941166	208 274	0.45	0.062	0.21	6560
H941167	208 274	0.31	0.047	0.17	6960
H941168	208 274	0.38	0.021	0.17	6980
H941169	208 276	0.29	0.124	0.14	10900
H941170	208 274	0.43	0.017	0.24	3900
H941171	208 276	0.56	0.016	0.24	9700
H941172	208 276	0.38	0.010	0.17	10900
H941173	208 274	0.39	0.006	0.10	6960
H941174	208 273	0.29	0.010	0.10	13020
H941175	208 276	0.41	0.048	0.27	11800
H941176	208 273	0.21	0.015	0.17	13020
H941177	208 276	0.17	0.014	0.17	11080
H941178	208 273	0.18	0.046	0.21	11820
H941179	208 270	0.26	0.016	0.24	18220
H941180	208 273	0.31	0.017	0.38	12540
H941181	208 274	0.65	0.025	0.69	7240

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CERTIFICATE OF ANALYSIS A9324956

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H941182	208	273	0.21	0.022	0.24	12420
H941183	208	273	0.22	0.023	0.31	15060
H941184	208	273	0.19	0.015	0.34	13460
H941185	208	273	0.18	0.017	0.24	12020
H941186	208	276	0.16	0.030	0.21	11700
H941187	208	273	0.20	0.019	0.21	12260
H941188	208	273	0.15	0.030	0.21	13260
H941189	208	273	0.21	0.049	0.24	12540
H941190	208	273	0.18	0.055	0.24	13220
H941191	208	273	0.21	0.016	0.24	13660
H941192	208	273	0.27	0.027	0.38	12380
H941193	208	273	0.33	0.022	0.34	13920
H941194	208	273	0.10	0.038	0.14	11860
H941195	208	273	0.19	0.025	0.27	13700
H941196	208	273	0.24	0.033	0.38	13540
H941197	208	273	0.23	0.028	0.31	13200
H941198	208	273	0.18	0.027	0.27	13600
H941199	208	273	0.18	0.042	0.21	12740
H941200	208	273	0.19	0.021	0.24	13580
H941201	208	273	0.17	0.053	0.21	13320
H941202	208	273	0.20	0.022	0.17	13680
H941203	208	273	0.23	0.025	0.27	13060
H941204	208	276	0.23	0.027	0.24	10040
H941205	208	273	0.12	0.038	0.21	15800
H941206	208	273	0.17	0.031	0.21	13280
H941207	208	273	0.15	0.038	0.07	11840
H941208	208	273	0.17	0.046	0.21	15100
H941209	208	273	0.25	0.046	0.31	13860
H941210	208	273	0.15	0.022	0.17	13600
H941211	208	273	0.10	0.018	0.07	12220
H941212	208	274	0.09	0.024	0.07	6880
H941213	208	274	0.09	0.025	0.14	2760
H941214	208	273	0.20	0.025	0.21	12960
H941215	208	273	0.24	0.040	0.24	12620
H941216	208	273	0.22	0.055	0.21	12580
H941217	208	273	0.16	0.016	0.17	13280
H941218	208	273	0.14	0.026	0.14	13160
H941219	208	273	0.14	0.014	0.17	12820
H941220	208	273	0.16	0.025	0.17	12940
H941221	208	273	0.24	0.019	0.17	12340

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CERTIFICATE OF ANALYSIS A9324956

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H941222	208 273	0.21	0.024	0.24	12740
H941223	208 273	0.17	0.025	0.17	13100

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CERTIFICATE OF ANALYSIS A9324957

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H941142	299	229	2.0	1.04	20	310	< 0.5	4	0.07	< 0.5	< 1	68	224	3.73	< 10	< 1	0.51	10	0.12	40	801
H941143	299	229	1.8	1.20	24	350	< 0.5	4	0.07	< 0.5	< 1	74	231	4.01	< 10	< 1	0.57	10	0.13	45	849
H941144	299	229	1.4	1.39	6	430	< 0.5	4	0.06	< 0.5	< 1	85	80	2.38	< 10	< 1	0.60	10	0.15	20	427
H941145	299	229	0.8	1.30	2	150	< 0.5	6	0.03	< 0.5	2	52	81	4.70	< 10	< 1	0.94	30	0.14	15	481
H941146	299	229	1.4	2.10	< 2	400	< 0.5	2	0.06	< 0.5	1	44	117	2.79	< 10	< 1	0.39	30	0.25	15	246
H941147	299	229	2.0	1.18	4	410	< 0.5	4	0.05	< 0.5	1	44	100	2.65	< 10	< 1	0.50	20	0.16	10	732
H941148	299	229	0.8	1.55	14	290	< 0.5	4	0.07	< 0.5	2	56	157	3.59	< 10	< 1	0.42	10	0.17	15	867
H941149	299	229	1.0	1.70	4	340	< 0.5	2	0.12	< 0.5	< 1	50	158	2.88	< 10	< 1	0.37	20	0.38	30	559
H941150	299	229	1.4	1.90	10	420	< 0.5	2	0.25	< 0.5	1	54	160	2.69	< 10	1	0.35	20	0.37	40	341
H941151	299	229	0.6	1.52	4	380	< 0.5	4	0.19	< 0.5	1	44	111	2.27	< 10	< 1	0.54	20	0.24	40	209
H941152	299	229	1.2	2.01	8	460	< 0.5	2	0.22	< 0.5	1	37	203	3.10	< 10	< 1	0.39	20	0.35	50	317
H941153	299	229	1.0	2.31	8	380	< 0.5	< 2	0.10	< 0.5	< 1	59	233	4.13	< 10	< 1	0.47	10	0.36	30	834
H941154	299	229	0.8	1.34	14	490	< 0.5	4	0.03	< 0.5	< 1	138	136	2.92	< 10	< 1	0.69	20	0.15	15	482
H941155	299	229	1.6	1.35	10	390	< 0.5	4	0.02	< 0.5	1	133	168	3.23	< 10	< 1	0.82	30	0.14	10	503
H941156	299	229	1.4	2.18	40	320	< 0.5	< 2	0.03	< 0.5	< 1	54	321	4.25	< 10	< 1	0.84	40	0.57	40	502
H941157	299	229	1.2	2.66	42	190	< 0.5	< 2	0.03	< 0.5	2	62	397	4.43	< 10	1	0.78	20	0.80	90	391
H941158	299	229	1.4	2.85	14	150	< 0.5	< 2	0.02	< 0.5	12	47	1895	3.35	< 10	< 1	0.66	30	0.75	55	177
H941159	299	229	2.0	3.95	8	180	< 0.5	< 2	0.03	< 0.5	15	46	2300	3.38	< 10	< 1	0.95	30	1.05	105	679
H941160	299	229	1.6	4.89	8	80	< 0.5	< 2	0.02	< 0.5	19	32	5090	3.34	< 10	< 1	1.07	20	1.41	155	345
H941161	299	229	1.2	4.69	2	40	< 0.5	< 2	0.03	< 0.5	20	28	4670	3.79	< 10	< 1	1.09	10	1.69	190	339
H941162	299	229	1.6	4.29	18	90	< 0.5	< 2	0.02	< 0.5	24	45	5260	3.52	< 10	< 1	1.20	20	1.50	175	280
H941163	299	229	2.0	3.85	18	50	< 0.5	< 2	0.04	< 0.5	36	52	7150	4.19	< 10	< 1	1.28	10	1.43	165	1495
H941164	299	229	1.8	3.67	18	80	< 0.5	< 2	0.08	< 0.5	18	71	6260	3.28	< 10	< 1	0.88	20	1.36	160	508
H941165	299	229	1.2	3.43	16	80	< 0.5	6	0.02	< 0.5	21	84	3640	2.85	< 10	< 1	0.44	10	0.53	65	276
H941166	299	229	1.8	3.56	18	120	< 0.5	2	0.02	< 0.5	16	66	5020	2.27	< 10	< 1	0.43	20	0.52	65	442
H941167	299	229	1.2	3.69	36	70	< 0.5	2	0.02	< 0.5	26	92	3500	2.80	< 10	1	0.47	20	0.74	85	340
H941168	299	229	1.4	3.95	26	80	< 0.5	< 2	0.04	< 0.5	16	93	4160	3.12	< 10	< 1	0.89	10	1.15	115	149
H941169	299	229	1.2	2.52	14	150	< 0.5	4	0.02	< 0.5	17	142	3040	2.22	< 10	< 1	0.65	10	0.54	55	844
H941170	299	229	1.8	1.86	14	110	< 0.5	< 2	0.02	< 0.5	24	136	4650	2.49	< 10	< 1	0.51	20	0.38	40	116
H941171	299	229	1.8	3.09	20	100	< 0.5	< 2	0.08	< 0.5	30	84	5610	3.08	< 10	< 1	0.84	10	0.94	110	106
H941172	299	229	0.4	4.12	8	60	< 0.5	< 2	0.04	< 0.5	48	73	3970	4.80	< 10	< 1	1.48	10	1.72	145	69
H941173	299	229	0.8	3.17	14	160	< 0.5	< 2	0.02	< 0.5	19	47	4070	2.50	< 10	< 1	0.92	20	1.12	90	43
H941174	299	229	0.4	4.54	12	70	< 0.5	< 2	0.02	< 0.5	39	78	2880	4.75	< 10	< 1	1.28	20	1.65	125	62
H941175	299	229	1.6	3.55	4	40	< 0.5	< 2	0.10	< 0.5	34	31	4460	5.31	< 10	< 1	1.09	20	1.19	120	332
H941176	299	229	1.0	3.06	2	70	< 0.5	< 2	0.10	< 0.5	22	94	2190	3.68	< 10	< 1	1.03	20	1.05	80	98
H941177	299	229	0.8	2.83	20	150	< 0.5	< 2	0.38	< 0.5	26	43	1705	4.33	< 10	2	1.25	30	1.41	410	86
H941178	299	229	1.2	3.61	6	80	< 0.5	< 2	0.27	0.5	24	93	1855	4.72	< 10	< 1	1.35	20	1.59	190	298
H941179	299	229	1.4	4.01	< 2	100	< 0.5	< 2	0.34	1.0	29	48	2530	6.24	< 10	< 1	1.67	20	1.85	485	95
H941180	299	229	1.2	3.42	12	240	< 0.5	< 2	0.62	< 0.5	27	68	3040	5.98	< 10	< 1	2.03	20	2.13	570	100
H941181	299	229	3.2	3.65	< 2	170	< 0.5	< 2	0.39	0.5	27	88	7200	5.02	< 10	< 1	1.49	30	1.53	535	169

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H941142	299	229	0.02	< 1	770	12	6	1	51	< 0.01	< 10	< 10	2	< 10	14
H941143	299	229	0.02	< 1	810	12	6	1	57	< 0.01	< 10	< 10	3	< 10	14
H941144	299	229	0.02	1	300	16	2	1	64	< 0.01	< 10	< 10	2	< 10	8
H941145	299	229	0.05	< 1	550	20	2	2	119	< 0.01	< 10	< 10	2	< 10	14
H941146	299	229	0.04	< 1	430	10	< 2	2	78	< 0.01	< 10	< 10	4	< 10	14
H941147	299	229	0.02	< 1	270	8	4	1	47	< 0.01	< 10	< 10	< 1	< 10	8
H941148	299	229	0.06	< 1	370	6	6	1	53	< 0.01	< 10	< 10	1	< 10	20
H941149	299	229	0.07	< 1	370	6	4	1	79	< 0.01	< 10	< 10	3	< 10	18
H941150	299	229	0.04	1	450	8	2	1	120	< 0.01	< 10	< 10	8	< 10	18
H941151	299	229	0.07	< 1	510	12	< 2	1	176	< 0.01	< 10	< 10	4	< 10	14
H941152	299	229	0.06	1	900	8	2	2	132	< 0.01	< 10	< 10	7	< 10	22
H941153	299	229	0.04	< 1	1080	2	4	2	96	< 0.01	< 10	< 10	6	< 10	24
H941154	299	229	0.04	1	700	10	4	1	186	< 0.01	< 10	< 10	4	< 10	12
H941155	299	229	0.03	1	650	6	6	1	196	< 0.01	< 10	< 10	4	< 10	10
H941156	299	229	0.02	1	1540	2	6	6	319	0.02	< 10	< 10	31	< 10	20
H941157	299	229	0.03	1	1620	6	4	8	176	0.03	< 10	< 10	37	< 10	28
H941158	299	229	0.01	2	1200	4	4	9	81	0.03	< 10	< 10	44	< 10	24
H941159	299	229	0.02	2	1240	4	6	10	90	0.08	< 10	< 10	55	< 10	34
H941160	299	229	0.01	2	1450	2	2	11	24	0.10	< 10	< 10	75	< 10	46
H941161	299	229	0.02	2	1210	< 2	< 2	11	39	0.11	< 10	< 10	101	< 10	54
H941162	299	229	0.02	4	1500	4	4	11	9	0.11	< 10	< 10	95	< 10	50
H941163	299	229	0.02	4	1450	< 2	12	8	9	0.13	< 10	< 10	63	< 10	50
H941164	299	229	0.02	4	1500	< 2	2	8	8	0.08	< 10	< 10	63	< 10	50
H941165	299	229	0.01	3	1100	2	< 2	2	5	< 0.01	< 10	< 10	12	< 10	22
H941166	299	229	0.01	2	1180	2	6	2	8	< 0.01	< 10	< 10	4	< 10	22
H941167	299	229	0.01	3	1090	4	4	2	9	< 0.01	< 10	< 10	8	< 10	28
H941168	299	229	0.03	8	1070	4	2	8	8	0.07	< 10	< 10	53	< 10	36
H941169	299	229	0.02	6	680	2	6	6	36	0.03	< 10	< 10	26	< 10	22
H941170	299	229	0.01	4	670	4	2	4	20	0.01	< 10	< 10	22	< 10	24
H941171	299	229	0.02	6	1290	2	< 2	9	11	0.09	< 10	< 10	68	< 10	66
H941172	299	229	0.02	8	860	2	< 2	12	10	0.15	< 10	< 10	101	< 10	48
H941173	299	229	0.01	5	1020	4	2	9	23	0.08	< 10	< 10	66	< 10	30
H941174	299	229	0.02	8	830	2	< 2	12	26	0.13	< 10	< 10	107	< 10	44
H941175	299	229	0.02	7	1080	4	2	8	67	0.11	< 10	< 10	66	< 10	42
H941176	299	229	0.02	4	980	< 2	< 2	8	15	0.10	< 10	< 10	68	< 10	30
H941177	299	229	0.03	6	1080	2	4	12	18	0.16	< 10	< 10	100	< 10	84
H941178	299	229	0.04	6	1010	< 2	2	13	15	0.17	< 10	< 10	109	< 10	74
H941179	299	229	0.04	6	1020	< 2	< 2	19	24	0.25	< 10	< 10	153	30	108
H941180	299	229	0.06	6	950	< 2	< 2	20	22	0.29	< 10	< 10	169	< 10	88
H941181	299	229	0.03	8	850	2	< 2	16	17	0.18	< 10	< 10	140	< 10	118

CERTIFICATION: Hart Bichler

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H941182	299	229	0.8	2.03	< 2	180	< 0.5	2	0.82	< 0.5	22	40	2000	4.44	10	< 1	1.13	30	1.15	380	139
H941183	299	229	0.8	2.76	< 2	370	< 0.5	< 2	1.22	< 0.5	20	47	2120	3.91	20	< 1	1.62	30	1.56	325	132
H941184	299	229	0.8	2.44	< 2	220	< 0.5	< 2	1.41	0.5	24	36	1765	3.89	10	< 1	1.51	20	1.58	340	79
H941185	299	229	1.2	1.72	< 2	120	< 0.5	8	0.37	0.5	24	71	1790	3.60	10	< 1	0.75	20	0.66	270	102
H941186	299	229	0.6	1.00	8	110	< 0.5	6	0.89	< 0.5	25	56	1585	2.79	< 10	< 1	0.41	30	0.42	215	172
H941187	299	229	1.4	1.32	< 2	110	< 0.5	2	0.75	0.5	22	76	2040	3.04	< 10	< 1	0.45	30	0.57	145	118
H941188	299	229	1.0	1.03	< 2	70	< 0.5	4	0.57	< 0.5	24	58	1515	3.38	10	< 1	0.37	20	0.43	100	196
H941189	299	229	1.6	0.96	4	70	< 0.5	4	0.53	< 0.5	15	80	2030	2.05	< 10	< 1	0.31	20	0.36	110	280
H941190	299	229	1.6	1.08	4	80	< 0.5	2	0.70	< 0.5	16	67	1865	1.83	< 10	< 1	0.36	20	0.54	80	358
H941191	299	229	1.4	1.02	< 2	80	< 0.5	2	1.11	< 0.5	16	78	2080	2.23	< 10	< 1	0.34	20	0.49	110	94
H941192	299	229	2.0	0.97	24	60	< 0.5	8	0.94	< 0.5	29	61	2640	3.35	10	< 1	0.27	30	0.40	85	162
H941193	299	229	2.6	0.89	2	70	< 0.5	8	0.94	< 0.5	14	92	3420	2.73	< 10	< 1	0.26	20	0.29	85	135
H941194	299	229	1.0	0.54	< 2	60	< 0.5	2	0.91	0.5	13	79	931	2.85	10	< 1	0.24	10	0.09	95	232
H941195	299	229	1.8	0.90	< 2	90	< 0.5	8	1.09	< 0.5	23	108	1850	2.71	10	< 1	0.33	20	0.36	75	147
H941196	299	229	1.8	1.08	6	110	< 0.5	2	0.84	< 0.5	28	69	2370	2.53	10	< 1	0.39	20	0.68	105	208
H941197	299	229	1.6	1.27	< 2	110	< 0.5	2	0.71	< 0.5	13	106	2240	2.05	< 10	< 1	0.44	10	0.82	140	180
H941198	299	229	1.2	1.17	< 2	110	< 0.5	< 2	0.73	< 0.5	13	66	1610	1.90	< 10	< 1	0.37	10	0.76	130	162
H941199	299	229	1.4	1.23	< 2	130	< 0.5	2	0.88	< 0.5	13	78	1715	2.13	< 10	< 1	0.47	20	0.79	110	266
H941200	299	229	1.2	1.03	2	90	< 0.5	4	0.73	< 0.5	21	62	1850	2.76	< 10	< 1	0.37	10	0.66	85	128
H941201	299	229	1.2	1.07	2	100	< 0.5	4	0.84	< 0.5	23	91	1730	2.39	< 10	< 1	0.39	10	0.64	80	346
H941202	299	229	1.2	1.51	< 2	170	< 0.5	< 2	0.70	< 0.5	18	74	1810	2.38	10	< 1	0.59	< 10	0.98	125	135
H941203	299	229	1.4	1.59	4	270	< 0.5	< 2	0.65	< 0.5	15	82	2160	2.29	10	< 1	0.67	10	1.03	140	148
H941204	299	229	1.4	1.53	< 2	150	< 0.5	2	0.92	< 0.5	17	63	2120	2.78	10	< 1	0.60	10	0.98	130	153
H941205	299	229	0.4	1.47	24	190	< 0.5	< 2	1.20	< 0.5	31	132	1200	2.48	10	< 1	0.54	30	0.81	120	244
H941206	299	229	0.8	0.83	8	140	< 0.5	< 2	2.16	< 0.5	21	90	1700	2.18	< 10	< 1	0.35	20	0.37	105	182
H941207	299	229	0.8	0.83	8	120	< 0.5	< 2	1.62	< 0.5	10	109	1500	1.64	< 10	< 1	0.33	20	0.38	75	240
H941208	299	229	1.0	0.96	< 2	130	< 0.5	< 2	1.13	< 0.5	15	68	1540	1.78	< 10	< 1	0.29	10	0.67	80	261
H941209	299	229	1.8	1.35	< 2	150	< 0.5	2	1.70	< 0.5	14	65	2400	2.09	< 10	< 1	0.33	10	0.67	110	287
H941210	299	229	0.6	1.03	8	80	< 0.5	< 2	1.29	< 0.5	23	66	1400	2.32	< 10	< 1	0.33	10	0.81	110	125
H941211	299	229	0.6	1.21	2	170	< 0.5	< 2	0.99	< 0.5	15	103	894	1.91	< 10	< 1	0.49	10	0.75	100	109
H941212	299	229	0.2	1.20	12	140	< 0.5	< 2	1.12	< 0.5	25	64	795	2.25	< 10	< 1	0.45	20	0.86	115	143
H941213	299	229	0.4	1.07	< 2	140	< 0.5	< 2	0.94	< 0.5	17	135	846	2.18	< 10	< 1	0.46	20	0.69	130	149
H941214	299	229	1.2	1.49	2	160	< 0.5	< 2	1.67	< 0.5	16	123	1915	1.93	< 10	< 1	0.54	20	0.90	150	149
H941215	299	229	1.6	1.58	< 2	200	< 0.5	< 2	1.20	< 0.5	9	95	2330	1.97	< 10	< 1	0.62	10	0.97	140	244
H941216	299	229	1.6	1.64	< 2	170	< 0.5	< 2	1.06	< 0.5	11	135	2180	1.96	10	< 1	0.72	10	0.99	130	324
H941217	299	229	1.0	1.53	< 2	150	< 0.5	< 2	1.37	< 0.5	10	113	1460	2.16	10	< 1	0.70	10	0.99	150	87
H941218	299	229	1.0	1.52	< 2	220	< 0.5	< 2	1.64	< 0.5	17	138	1365	2.49	10	< 1	0.67	10	0.90	155	152
H941219	299	229	0.8	1.76	< 2	230	< 0.5	< 2	1.18	< 0.5	9	123	1340	2.22	10	< 1	0.71	10	1.15	155	83
H941220	299	229	1.2	2.20	< 2	200	< 0.5	< 2	1.36	< 0.5	13	130	1595	2.28	10	< 1	0.66	< 10	1.17	135	150
H941221	299	229	1.8	2.24	6	150	< 0.5	< 2	1.56	< 0.5	11	101	2410	2.74	< 10	< 1	0.50	< 10	1.16	105	113

CERTIFICATION: Stuart Bichler

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WHITEHORSE, YT
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Project : CASINO-246
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :2-B
Total Pages :3
Certificate Date: 22-NOV-93
Invoice No. :I9324957
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324957

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H941182	299	229	0.04	3	750	< 2	< 2	13	18	0.14	< 10	< 10	94	< 10	68
H941183	299	229	0.03	3	1000	< 2	< 2	19	21	0.21	< 10	< 10	136	< 10	68
H941184	299	229	0.03	2	820	< 2	< 2	15	24	0.19	< 10	< 10	116	< 10	68
H941185	299	229	0.02	5	570	4	< 2	7	13	0.06	< 10	< 10	49	< 10	60
H941186	299	229	0.02	4	500	2	2	2	18	0.01	< 10	< 10	16	< 10	38
H941187	299	229	0.01	3	400	2	< 2	2	16	< 0.01	< 10	< 10	15	< 10	34
H941188	299	229	0.01	4	400	2	< 2	1	18	< 0.01	< 10	< 10	11	< 10	24
H941189	299	229	0.01	3	360	2	6	1	10	< 0.01	< 10	< 10	6	< 10	28
H941190	299	229	0.02	3	440	2	4	2	26	< 0.01	< 10	< 10	10	< 10	24
H941191	299	229	0.02	3	370	2	< 2	2	26	< 0.01	< 10	< 10	17	< 10	22
H941192	299	229	0.01	3	330	2	< 2	1	27	< 0.01	< 10	< 10	9	< 10	28
H941193	299	229	0.01	3	290	2	2	1	20	< 0.01	< 10	< 10	7	< 10	24
H941194	299	229	0.01	3	290	2	< 2	1	12	< 0.01	< 10	< 10	3	< 10	28
H941195	299	229	0.02	4	360	< 2	< 2	2	22	< 0.01	< 10	< 10	14	< 10	24
H941196	299	229	0.03	3	420	< 2	2	3	18	0.02	< 10	< 10	27	< 10	30
H941197	299	229	0.04	3	490	< 2	< 2	4	20	0.03	< 10	< 10	34	< 10	46
H941198	299	229	0.03	2	420	< 2	< 2	4	20	0.02	< 10	< 10	31	< 10	38
H941199	299	229	0.03	3	430	2	< 2	4	24	0.02	< 10	< 10	28	< 10	30
H941200	299	229	0.02	4	380	2	< 2	2	21	0.01	< 10	< 10	20	< 10	28
H941201	299	229	0.03	3	410	2	2	3	27	0.02	< 10	< 10	21	< 10	24
H941202	299	229	0.04	3	510	2	< 2	6	139	0.10	10	< 10	47	< 10	32
H941203	299	229	0.06	3	440	2	< 2	8	180	0.13	< 10	< 10	60	< 10	36
H941204	299	229	0.04	2	490	< 2	< 2	7	91	0.09	< 10	< 10	49	< 10	30
H941205	299	229	0.04	3	430	< 2	< 2	6	110	0.06	< 10	< 10	43	< 10	26
H941206	299	229	0.02	3	360	< 2	2	3	43	0.01	< 10	< 10	21	< 10	18
H941207	299	229	0.01	3	350	< 2	< 2	2	37	< 0.01	< 10	< 10	14	70	16
H941208	299	229	0.03	3	430	< 2	< 2	3	37	0.01	< 10	< 10	21	30	18
H941209	299	229	0.02	2	440	< 2	< 2	5	91	0.01	< 10	< 10	29	< 10	22
H941210	299	229	0.03	3	390	< 2	< 2	4	35	0.02	< 10	< 10	35	< 10	22
H941211	299	229	0.03	3	330	< 2	< 2	4	38	0.03	< 10	< 10	31	< 10	20
H941212	299	229	0.02	3	360	2	< 2	4	39	0.03	< 10	< 10	35	< 10	22
H941213	299	229	0.03	4	320	2	< 2	4	33	0.04	< 10	< 10	33	< 10	26
H941214	299	229	0.04	4	360	< 2	< 2	6	58	0.03	< 10	< 10	44	< 10	28
H941215	299	229	0.03	3	360	< 2	< 2	6	53	0.06	< 10	< 10	46	< 10	28
H941216	299	229	0.04	3	380	< 2	< 2	7	43	0.07	< 10	< 10	50	< 10	26
H941217	299	229	0.06	3	430	< 2	< 2	9	44	0.09	< 10	< 10	64	< 10	30
H941218	299	229	0.05	3	450	< 2	< 2	7	62	0.07	< 10	< 10	51	< 10	26
H941219	299	229	0.06	3	480	< 2	< 2	9	55	0.10	< 10	< 10	67	< 10	30
H941220	299	229	0.04	4	440	< 2	< 2	7	63	0.08	< 10	< 10	59	< 10	26
H941221	299	229	0.03	4	440	< 2	6	6	75	0.06	< 10	< 10	46	< 10	24

CERTIFICATION: Stuart Bichler

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-246
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-NOV-93
Invoice No. : I9324957
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324957

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H941222	299	229	1.6	2.08	< 2	230	< 0.5	< 2	1.31	< 0.5	11	124	2060	1.89	10	< 1	0.51	< 10	1.18	140	140
H941223	299	229	1.4	1.81	< 2	230	< 0.5	< 2	1.18	< 0.5	8	156	1695	1.88	< 10	< 1	0.60	10	1.12	140	160

CERTIFICATION: Ian Bichler

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H941222	299	229	0.05	3	430	< 2	< 2	9	68	0.10	< 10	< 10	65	< 10	26
H941223	299	229	0.07	4	410	2	2	9	66	0.12	< 10	< 10	68	< 10	28

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Page Number : 1
Total Pages : 3
Certificate Date: 24-NOV-93
Invoice No. : I9324958
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CERTIFICATE OF ANALYSIS A9324958

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H940817	208	274	0.10	0.026	0.24	3100						
H940818	208	274	0.09	0.047	0.10	3140						
H940819	208	274	0.09	0.016	0.14	2980						
H940820	208	274	0.08	0.014	0.10	2360						
H940821	208	274	0.07	0.013	0.17	3920						
H940822	208	274	0.05	0.023	0.24	6400						
H940823	208	276	0.05	0.047	0.24	8700						
H940824	208	274	0.03	0.047	0.14	7260						
H940825	208	274	0.03	0.044	0.21	5860						
H940826	208	274	0.03	0.048	0.14	6320						
H940827	208	274	0.03	0.053	0.14	3960						
H940828	208	274	0.03	0.055	0.17	3800						
H940829	208	274	0.05	0.039	0.17	6500						
H940830	208	276	0.08	0.058	0.24	7840						
H940831	208	276	0.06	0.040	0.14	10520						
H940832	208	274	0.14	0.041	0.24	6120						
H940833	208	276	0.13	0.043	0.14	11040						
H940834	208	276	0.07	0.109	0.14	8780						
H940835	208	274	0.42	0.171	0.41	3900						
H940836	208	274	0.53	0.042	0.27	5720						
H940837	208	273	0.45	0.034	0.27	12980						
H940838	208	276	0.42	0.049	0.27	7320						
H940839	208	276	0.41	0.014	0.24	11000						
H940840	208	274	0.18	0.014	0.10	7180						
H940841	208	273	0.13	0.010	0.07	12380						
H940842	208	276	0.19	0.047	0.14	8340						
H940843	208	276	0.23	0.022	0.17	11140						
H940844	208	274	0.28	0.110	0.14	4670						
H940845	208	276	0.32	0.130	0.17	8480						
H940846	208	276	0.24	0.080	0.14	7800						
H940847	208	276	0.21	0.125	0.17	8100						
H940848	208	276	0.31	0.071	0.21	8900						
H940849	208	276	0.20	0.068	0.14	8380						
H940850	208	276	0.16	0.141	0.10	10920						
H940851	208	276	0.18	0.192	0.27	11220						
H940852	208	276	0.15	0.061	0.07	8700						
H940853	208	273	0.09	0.096	0.07	12660						
H940854	208	274	0.13	0.060	0.07	5700						
H940855	208	273	0.16	0.050	0.21	12060						
H940856	208	276	0.32	0.068	0.07	11560						

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H940857	208	273	0.15	0.102	0.10	13900
H940858	208	274	0.15	0.078	0.10	3840
H940859	208	273	0.12	0.070	0.10	13700
H940860	208	273	0.13	0.079	0.14	12920
H940861	208	276	0.10	0.103	0.07	10020
H940862	208	273	0.18	0.076	0.17	14460
H940863	208	273	0.09	0.089	0.07	14920
H940864	208	273	0.18	0.050	0.17	13680
H940865	208	273	0.19	0.121	0.07	13380
H940866	208	273	0.17	0.046	0.17	13380
H940867	208	274	0.11	0.117	0.10	6800
H940868	208	276	0.17	0.083	0.14	11560
H940869	208	276	0.16	0.098	0.10	10380
H940870	208	276	0.13	0.042	0.07	11240
H940871	208	274	0.11	0.024	0.14	5760
H940872	208	276	0.13	0.022	0.14	11040
H940873	208	273	0.10	0.035	0.14	12460
H940874	208	273	0.07	0.038	0.07	11900
H940875	208	273	0.10	0.099	0.14	15040
H940876	208	273	0.09	0.034	0.14	11940
H940877	208	273	0.10	0.045	0.07	14880
H940878	208	273	0.11	0.030	0.21	14900
H940879	208	273	0.09	0.025	0.10	14420
H940880	208	273	0.10	0.015	0.07	14340
H940881	208	273	0.08	0.052	0.07	15460
H940882	208	273	0.12	0.067	0.10	14800
H940883	208	273	0.12	0.049	0.07	15140
H940884	208	274	0.15	0.031	0.17	7200
H940885	208	273	0.12	0.042	0.07	13120
H940886	208	273	0.16	0.024	0.31	12160
H940887	208	273	0.12	0.033	0.21	12580
H940888	208	273	0.10	0.030	0.10	12540
H940889	208	273	0.15	0.072	0.17	12360
H940890	208	273	0.06	0.203	0.14	13040
H940891	208	274	0.10	0.025	0.10	4780
H940892	208	273	0.11	0.038	0.14	12040
H940893	208	273	0.12	0.051	0.07	13900
H940894	208	273	0.14	0.054	0.10	12220
H940895	208	273	0.03	0.072	0.03	12940
H940896	208	273	0.04	0.140	0.34	13800

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Account :FC

CERTIFICATE OF ANALYSIS A9324958

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H940897	208 273	0.04	0.132	0.24	12500
H940898	208 273	0.06	0.027	0.31	13060
H940899	208 276	0.11	0.068	0.10	11380
H940900	208 273	0.08	0.017	0.14	12400
H940901	208 274	0.11	0.046	0.07	7020
H940902	208 276	0.06	0.070	0.14	8940
H940903	208 276	0.05	0.058	0.07	8180
H940904	208 273	0.23	0.035	0.10	13220

CERTIFICATION: (V5)is-Tec

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-247
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324959

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940817	299	229	< 0.2	4.39	4	640	< 0.5	< 2	0.11	0.5	2	82	959	7.84	10	< 1	0.98	< 10	1.27	120	148
H940818	299	229	< 0.2	5.15	< 2	740	< 0.5	< 2	0.15	0.5	4	78	899	6.74	10	< 1	0.87	10	1.48	155	288
H940819	299	229	< 0.2	6.54	22	860	< 0.5	< 2	0.12	< 0.5	4	69	864	5.68	10	< 1	1.09	10	1.87	165	92
H940820	299	229	< 0.2	6.06	28	790	< 0.5	< 2	0.10	< 0.5	3	94	776	5.87	10	< 1	1.07	10	1.98	180	81
H940821	299	229	< 0.2	5.96	4	1080	< 0.5	< 2	0.07	< 0.5	7	108	622	6.60	10	< 1	1.22	10	2.55	195	71
H940822	299	229	1.2	5.44	10	960	< 0.5	< 2	0.06	< 0.5	6	131	414	5.24	10	< 1	1.25	10	2.37	190	132
H940823	299	229	0.4	4.79	< 2	930	< 0.5	< 2	0.15	< 0.5	4	132	428	5.59	10	< 1	1.10	10	1.90	145	274
H940824	299	229	0.8	4.76	8	940	< 0.5	< 2	0.06	< 0.5	4	143	272	4.79	10	< 1	1.20	10	2.13	160	275
H940825	299	229	1.8	4.65	24	1100	< 0.5	< 2	0.06	< 0.5	4	98	252	4.39	10	< 1	1.22	10	2.17	150	261
H940826	299	229	1.6	5.01	< 2	1140	< 0.5	< 2	0.06	< 0.5	3	106	274	4.32	20	< 1	1.29	20	2.21	180	291
H940827	299	229	1.2	4.08	14	610	< 0.5	< 2	0.05	< 0.5	3	96	264	3.40	10	< 1	0.94	20	1.53	105	337
H940828	299	229	2.0	4.18	8	530	< 0.5	< 2	0.04	< 0.5	1	98	302	4.04	10	< 1	1.04	10	1.67	140	347
H940829	299	229	0.8	4.38	14	440	< 0.5	< 2	0.07	< 0.5	2	90	436	3.60	10	< 1	1.00	20	1.49	135	241
H940830	299	229	2.2	1.71	4	370	< 0.5	6	0.01	< 0.5	2	178	804	1.89	< 10	< 1	0.48	20	0.27	25	399
H940831	299	229	1.2	3.35	2	390	< 0.5	6	0.05	< 0.5	6	107	580	3.18	10	< 1	0.77	10	0.86	80	262
H940832	299	229	1.6	3.94	4	350	< 0.5	4	0.03	< 0.5	7	106	1355	2.60	10	< 1	0.70	10	0.91	70	261
H940833	299	229	1.0	2.77	< 2	270	< 0.5	4	0.02	< 0.5	10	101	1300	1.81	< 10	< 1	0.42	10	0.48	35	278
H940834	299	229	1.4	1.65	4	250	< 0.5	6	0.02	< 0.5	3	109	678	2.95	< 10	< 1	0.41	10	0.22	20	723
H940835	299	229	2.8	1.88	26	290	< 0.5	6	0.02	< 0.5	14	116	4790	1.75	< 10	< 1	0.33	20	0.17	20	1170
H940836	299	229	1.2	3.01	6	220	< 0.5	4	0.05	< 0.5	13	92	5470	1.78	< 10	< 1	0.37	10	0.44	45	269
H940837	299	229	0.8	4.66	6	410	< 0.5	< 2	0.12	< 0.5	14	79	4630	3.31	< 10	< 1	1.16	10	1.71	175	203
H940838	299	229	1.2	3.49	4	200	< 0.5	< 2	0.07	< 0.5	21	105	4310	3.25	< 10	< 1	0.70	10	1.09	120	295
H940839	299	229	1.0	4.37	< 2	230	< 0.5	< 2	0.07	< 0.5	12	77	4230	3.64	< 10	< 1	0.71	10	1.28	140	84
H940840	299	229	0.4	7.65	< 2	290	< 0.5	< 2	0.23	3.0	25	71	1830	5.03	< 10	< 1	1.67	20	3.01	330	80
H940841	299	229	0.2	6.78	< 2	780	< 0.5	< 2	0.41	1.5	23	41	1265	4.45	< 10	< 1	1.47	10	2.47	240	58
H940842	299	229	1.0	4.71	10	640	< 0.5	< 2	0.32	2.5	17	80	1965	4.03	< 10	1	1.47	20	2.04	195	297
H940843	299	229	1.2	2.76	< 2	220	< 0.5	2	0.28	1.5	25	59	2460	4.33	10	< 1	0.76	20	0.77	305	138
H940844	299	229	1.4	2.30	< 2	150	< 0.5	4	0.14	< 0.5	15	93	3020	2.09	< 10	< 1	0.63	10	0.46	40	687
H940845	299	229	1.8	1.86	2	140	< 0.5	2	0.12	< 0.5	15	62	3380	2.03	< 10	< 1	0.45	10	0.32	40	817
H940846	299	229	1.4	2.43	2	190	< 0.5	< 2	0.14	< 0.5	14	88	2590	2.00	< 10	< 1	0.49	10	0.97	55	510
H940847	299	229	1.4	2.46	< 2	180	< 0.5	< 2	0.15	< 0.5	12	123	2230	2.21	< 10	< 1	0.63	10	0.90	65	802
H940848	299	229	1.6	2.30	8	150	< 0.5	4	0.15	< 0.5	13	114	3510	2.02	< 10	< 1	0.55	10	0.41	35	482
H940849	299	229	1.2	1.83	< 2	130	< 0.5	2	0.09	< 0.5	12	89	2000	1.58	< 10	< 1	0.46	10	0.19	15	422
H940850	299	229	1.2	1.31	< 2	190	< 0.5	4	0.04	< 0.5	7	101	1670	1.07	< 10	< 1	0.35	10	0.14	10	897
H940851	299	229	1.4	1.36	2	170	< 0.5	4	0.07	< 0.5	9	107	1815	1.27	< 10	< 1	0.38	10	0.14	15	1180
H940852	299	229	1.2	1.47	< 2	160	< 0.5	4	0.07	< 0.5	9	95	1580	1.71	< 10	< 1	0.48	10	0.21	15	397
H940853	299	229	0.8	1.45	< 2	170	< 0.5	6	0.09	< 0.5	11	112	878	1.71	< 10	< 1	0.47	20	0.18	15	574
H940854	299	229	1.4	1.63	4	80	< 0.5	8	0.11	< 0.5	16	118	1415	2.63	10	< 1	0.56	20	0.18	15	359
H940855	299	229	2.0	1.67	2	40	< 0.5	10	0.15	0.5	20	161	1725	4.57	10	< 1	0.66	20	0.19	260	305
H940856	299	229	3.0	1.34	20	30	< 0.5	14	0.17	< 0.5	22	151	3540	5.28	10	< 1	0.54	20	0.18	325	433

CERTIFICATION: Hartt Bichler

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

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Comments: CC: PACIFIC SENTINEL GOLD CORP.

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CERTIFICATE OF ANALYSIS A9324959

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940817	299	229	0.02	7	540	< 2	< 2	18	11	0.18	10	< 10	135	< 10	40
H940818	299	229	0.02	8	690	< 2	< 2	18	15	0.17	< 10	< 10	127	< 10	44
H940819	299	229	0.02	11	620	2	< 2	23	15	0.23	< 10	< 10	157	< 10	52
H940820	299	229	0.02	12	770	2	< 2	23	12	0.22	< 10	< 10	179	< 10	56
H940821	299	229	0.03	15	770	< 2	< 2	27	98	0.24	< 10	< 10	220	< 10	56
H940822	299	229	0.04	16	1010	< 2	< 2	23	157	0.21	< 10	< 10	179	< 10	46
H940823	299	229	0.04	10	1330	< 2	< 2	20	142	0.20	< 10	< 10	154	< 10	42
H940824	299	229	0.06	13	1230	< 2	2	20	165	0.20	< 10	< 10	153	< 10	38
H940825	299	229	0.05	16	1480	< 2	4	16	189	0.20	< 10	< 10	129	< 10	36
H940826	299	229	0.05	15	1820	< 2	< 2	17	295	0.21	< 10	< 10	137	< 10	38
H940827	299	229	0.04	8	1170	2	4	11	196	0.12	< 10	< 10	93	< 10	28
H940828	299	229	0.04	10	970	< 2	< 2	14	134	0.12	10	< 10	110	< 10	30
H940829	299	229	0.08	8	1080	< 2	< 2	12	189	0.10	< 10	< 10	110	< 10	32
H940830	299	229	0.03	4	330	2	2	2	20	< 0.01	< 10	< 10	20	< 10	72
H940831	299	229	0.04	6	960	< 2	< 2	8	16	0.06	10	< 10	68	< 10	22
H940832	299	229	0.03	9	550	2	< 2	10	27	0.08	10	< 10	72	< 10	34
H940833	299	229	0.02	6	470	2	< 2	6	14	0.02	< 10	< 10	39	< 10	12
H940834	299	229	0.01	3	890	< 2	4	4	10	< 0.01	10	< 10	24	< 10	8
H940835	299	229	0.01	6	650	2	12	6	11	< 0.01	< 10	< 10	20	< 10	14
H940836	299	229	0.03	8	510	< 2	< 2	6	11	0.01	< 10	< 10	30	< 10	18
H940837	299	229	0.04	13	1130	< 2	< 2	15	15	0.17	< 10	< 10	124	< 10	36
H940838	299	229	0.03	9	860	< 2	< 2	7	16	0.06	< 10	< 10	61	< 10	32
H940839	299	229	0.03	9	810	< 2	< 2	9	15	0.08	< 10	< 10	78	< 10	30
H940840	299	229	0.07	30	770	< 2	< 2	19	35	0.19	< 10	< 10	171	< 10	90
H940841	299	229	0.08	33	860	< 2	< 2	22	58	0.24	< 10	< 10	184	< 10	118
H940842	299	229	0.06	20	1400	< 2	2	19	21	0.25	< 10	< 10	160	< 10	54
H940843	299	229	0.03	10	1320	< 2	< 2	9	17	0.08	< 10	< 10	72	< 10	86
H940844	299	229	0.02	10	1080	< 2	4	5	19	0.03	< 10	< 10	30	< 10	14
H940845	299	229	0.02	8	940	< 2	8	3	12	0.02	< 10	< 10	17	< 10	14
H940846	299	229	0.03	8	990	< 2	4	3	11	0.01	< 10	< 10	25	< 10	18
H940847	299	229	0.05	9	980	< 2	6	4	15	0.01	< 10	< 10	23	< 10	20
H940848	299	229	0.03	9	1100	2	4	3	15	< 0.01	< 10	< 10	21	< 10	18
H940849	299	229	0.03	9	810	< 2	2	2	19	< 0.01	< 10	< 10	13	< 10	10
H940850	299	229	0.03	7	530	< 2	8	2	25	< 0.01	< 10	< 10	< 1	< 10	12
H940851	299	229	0.03	8	630	< 2	12	2	25	< 0.01	< 10	< 10	< 1	< 10	12
H940852	299	229	0.03	7	510	< 2	2	1	20	< 0.01	< 10	< 10	5	< 10	16
H940853	299	229	0.03	8	620	< 2	< 2	2	20	< 0.01	< 10	< 10	4	< 10	12
H940854	299	229	0.03	10	620	< 2	< 2	2	15	< 0.01	< 10	< 10	7	< 10	20
H940855	299	229	0.03	9	630	6	< 2	2	11	< 0.01	< 10	< 10	13	< 10	64
H940856	299	229	0.02	8	520	4	< 2	2	8	< 0.01	< 10	< 10	8	< 10	76

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9324959

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940857	299	229	2.0	1.40	< 2	110	< 0.5	8	0.15	0.5	17	77	1595	2.24	10	< 1	0.53	10	0.18	110	642
H940858	299	229	2.2	1.32	< 2	90	< 0.5	10	0.15	1.0	22	86	1560	3.07	10	< 1	0.57	10	0.18	175	499
H940859	299	229	1.2	1.64	< 2	180	< 0.5	2	0.18	0.5	16	75	1195	2.20	10	< 1	0.51	20	0.57	205	436
H940860	299	229	1.4	1.31	12	60	< 0.5	2	0.27	0.5	28	71	1360	4.96	10	< 1	0.44	20	0.21	360	484
H940861	299	229	1.2	1.66	< 2	170	< 0.5	2	0.20	1.0	17	69	1075	2.32	10	< 1	0.60	20	0.30	185	645
H940862	299	229	2.0	1.39	4	140	< 0.5	4	0.20	1.0	18	75	1850	2.48	10	< 1	0.50	30	0.20	315	507
H940863	299	229	1.2	1.52	6	140	< 0.5	2	0.23	0.5	21	85	970	2.80	10	< 1	0.57	20	0.30	330	580
H940864	299	229	1.6	1.40	2	130	< 0.5	4	0.25	0.5	21	89	1960	2.39	10	< 1	0.43	30	0.18	305	335
H940865	299	229	1.8	1.43	2	180	< 0.5	4	0.19	0.5	14	93	1965	1.69	10	< 1	0.50	30	0.22	235	782
H940866	299	229	1.6	1.13	26	190	< 0.5	2	0.24	0.5	15	96	1805	1.75	10	< 1	0.39	30	0.14	300	292
H940867	299	229	1.6	1.14	8	210	< 0.5	4	0.32	0.5	17	93	1170	2.18	10	< 1	0.50	30	0.22	270	736
H940868	299	229	2.0	1.45	4	150	< 0.5	6	0.25	0.5	10	94	1725	1.28	10	< 1	0.47	30	0.36	135	509
H940869	299	229	2.0	1.31	2	160	< 0.5	4	0.39	0.5	15	98	1560	1.86	10	< 1	0.50	30	0.34	290	594
H940870	299	229	1.8	1.21	12	240	< 0.5	4	0.41	0.5	19	89	1330	2.58	10	< 1	0.47	30	0.26	450	265
H940871	299	229	0.8	2.50	< 2	230	< 0.5	< 2	0.27	0.5	19	106	1045	3.40	10	< 1	0.90	20	0.98	410	144
H940872	299	229	1.2	1.81	4	200	< 0.5	< 2	0.44	< 0.5	17	119	1270	2.55	10	< 1	0.73	20	0.95	330	138
H940873	299	229	1.2	0.93	< 2	90	< 0.5	2	1.03	< 0.5	18	99	1070	3.34	10	< 1	0.40	30	0.46	365	226
H940874	299	229	0.8	0.76	< 2	190	< 0.5	< 2	1.34	< 0.5	10	124	632	1.75	< 10	< 1	0.40	10	0.58	190	241
H940875	299	229	1.2	0.81	< 2	190	< 0.5	< 2	1.35	< 0.5	11	124	894	1.94	< 10	< 1	0.36	20	0.65	230	594
H940876	299	229	0.8	0.88	2	190	< 0.5	< 2	1.33	< 0.5	12	173	933	1.85	< 10	< 1	0.41	20	0.56	200	208
H940877	299	229	0.8	0.94	< 2	130	< 0.5	< 2	1.36	< 0.5	12	141	1010	2.52	< 10	< 1	0.44	20	0.57	240	285
H940878	299	229	1.0	1.68	< 2	200	< 0.5	< 2	1.81	< 0.5	14	151	1075	3.20	10	< 1	0.72	30	1.28	295	199
H940879	299	229	0.6	1.08	6	190	< 0.5	< 2	1.32	< 0.5	15	137	881	2.29	< 10	< 1	0.49	20	0.66	230	159
H940880	299	229	1.0	1.21	2	220	< 0.5	< 2	0.85	< 0.5	14	146	1050	2.12	10	< 1	0.47	20	0.79	265	102
H940881	299	229	0.6	1.07	6	130	< 0.5	< 2	0.74	< 0.5	11	153	839	2.57	< 10	< 1	0.51	20	0.55	200	316
H940882	299	229	1.2	1.34	< 2	180	< 0.5	< 2	0.76	< 0.5	20	118	1225	2.58	< 10	< 1	0.69	20	0.71	320	444
H940883	299	229	1.4	1.55	< 2	90	< 0.5	< 2	1.61	< 0.5	13	139	1170	2.21	< 10	< 1	0.78	10	0.69	125	299
H940884	299	229	1.6	1.03	< 2	140	< 0.5	< 2	1.96	< 0.5	8	131	1495	1.41	< 10	< 1	0.48	10	0.69	80	221
H940885	299	229	1.4	0.94	8	80	< 0.5	< 2	1.97	< 0.5	9	149	1310	2.03	< 10	< 1	0.55	10	0.58	75	302
H940886	299	229	1.6	0.95	< 2	60	< 0.5	2	1.81	< 0.5	10	126	1560	2.45	< 10	< 1	0.50	10	0.51	85	145
H940887	299	229	1.2	0.99	2	70	< 0.5	2	1.63	< 0.5	10	171	1320	2.47	< 10	< 1	0.54	10	0.48	70	229
H940888	299	229	1.2	0.90	4	80	< 0.5	< 2	2.16	< 0.5	7	116	1100	1.87	< 10	< 1	0.47	< 10	0.56	70	212
H940889	299	229	1.4	0.74	2	90	< 0.5	< 2	1.70	< 0.5	7	119	1500	2.00	< 10	< 1	0.37	10	0.57	100	436
H940890	299	229	1.0	0.84	< 2	50	< 0.5	2	1.85	< 0.5	7	162	638	2.74	< 10	< 1	0.41	10	0.49	70	1170
H940891	299	229	1.2	0.92	< 2	100	< 0.5	< 2	1.91	< 0.5	6	168	985	1.72	< 10	< 1	0.38	10	0.57	85	152
H940892	299	229	1.4	0.96	2	40	< 0.5	4	1.62	< 0.5	9	159	1105	2.83	10	< 1	0.43	20	0.49	60	235
H940893	299	229	1.6	0.94	10	110	< 0.5	< 2	1.88	< 0.5	9	152	1160	1.63	< 10	< 1	0.38	10	0.57	80	282
H940894	299	229	1.6	1.03	< 2	50	< 0.5	2	1.69	< 0.5	15	166	1375	2.63	< 10	< 1	0.51	10	0.44	75	325
H940895	299	229	0.8	1.11	2	90	< 0.5	2	1.77	< 0.5	7	184	335	2.13	< 10	< 1	0.62	< 10	0.40	50	489
H940896	299	229	0.6	0.86	6	50	< 0.5	4	1.23	< 0.5	6	199	360	3.68	< 10	< 1	0.48	20	0.15	40	877

CERTIFICATION: Stewart Bichlmaier

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-247
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-NOV-93
Invoice No. : I9324959
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9324959

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940857	299	229	0.04	7	520	12	2	2	12	< 0.01	< 10	< 10	7	< 10	38
H940858	299	229	0.04	8	450	18	< 2	1	13	< 0.01	< 10	< 10	6	< 10	56
H940859	299	229	0.06	8	550	< 2	< 2	4	17	0.01	< 10	< 10	25	< 10	50
H940860	299	229	0.03	8	550	2	< 2	3	15	< 0.01	< 10	< 10	15	< 10	98
H940861	299	229	0.05	8	600	< 2	< 2	3	17	< 0.01	< 10	< 10	16	< 10	50
H940862	299	229	0.04	8	600	< 2	2	3	17	< 0.01	< 10	< 10	11	< 10	66
H940863	299	229	0.04	8	550	< 2	2	3	15	< 0.01	< 10	< 10	9	< 10	66
H940864	299	229	0.05	8	710	< 2	< 2	4	21	< 0.01	< 10	< 10	19	< 10	74
H940865	299	229	0.05	8	640	< 2	4	3	23	< 0.01	< 10	< 10	8	< 10	72
H940866	299	229	0.04	7	580	2	4	2	27	< 0.01	< 10	< 10	10	< 10	70
H940867	299	229	0.03	6	480	< 2	2	1	18	< 0.01	< 10	< 10	< 1	< 10	56
H940868	299	229	0.04	8	570	8	2	3	21	< 0.01	< 10	< 10	12	< 10	58
H940869	299	229	0.04	7	520	2	2	3	26	< 0.01	< 10	< 10	12	< 10	66
H940870	299	229	0.03	8	440	2	< 2	2	27	< 0.01	< 10	< 10	10	< 10	70
H940871	299	229	0.05	13	650	< 2	< 2	10	23	0.07	< 10	< 10	67	< 10	78
H940872	299	229	0.05	9	750	2	< 2	9	21	0.08	< 10	< 10	59	< 10	62
H940873	299	229	0.03	7	650	4	< 2	3	35	< 0.01	< 10	< 10	12	< 10	58
H940874	299	229	0.04	5	500	< 2	< 2	2	32	< 0.01	< 10	< 10	8	< 10	28
H940875	299	229	0.04	4	540	< 2	2	3	35	< 0.01	< 10	< 10	11	< 10	34
H940876	299	229	0.06	4	430	22	< 2	3	35	< 0.01	< 10	< 10	15	< 10	34
H940877	299	229	0.05	4	490	8	2	2	35	< 0.01	< 10	< 10	12	< 10	36
H940878	299	229	0.05	6	640	< 2	< 2	10	35	0.07	< 10	< 10	60	< 10	38
H940879	299	229	0.05	4	510	< 2	< 2	4	30	0.02	< 10	< 10	24	< 10	32
H940880	299	229	0.06	4	500	< 2	< 2	5	26	0.02	< 10	< 10	32	< 10	40
H940881	299	229	0.04	6	380	4	< 2	2	22	< 0.01	< 10	< 10	10	< 10	32
H940882	299	229	0.04	6	500	< 2	< 2	4	22	0.02	< 10	< 10	19	< 10	42
H940883	299	229	0.04	4	380	2	< 2	3	62	0.01	< 10	< 10	17	< 10	24
H940884	299	229	0.06	3	600	< 2	< 2	3	83	< 0.01	< 10	< 10	16	< 10	20
H940885	299	229	0.03	4	500	< 2	2	2	148	< 0.01	< 10	< 10	9	< 10	20
H940886	299	229	0.03	3	430	< 2	< 2	1	212	< 0.01	< 10	< 10	8	< 10	22
H940887	299	229	0.04	4	480	< 2	< 2	1	119	< 0.01	< 10	< 10	8	< 10	18
H940888	299	229	0.03	3	430	< 2	< 2	1	134	< 0.01	< 10	< 10	8	< 10	18
H940889	299	229	0.03	3	450	< 2	2	2	105	< 0.01	< 10	< 10	7	< 10	20
H940890	299	229	0.02	4	420	< 2	8	1	114	< 0.01	< 10	< 10	< 1	< 10	18
H940891	299	229	0.05	4	460	< 2	< 2	1	98	< 0.01	< 10	< 10	10	< 10	18
H940892	299	229	0.03	3	450	< 2	< 2	1	124	< 0.01	< 10	< 10	7	< 10	20
H940893	299	229	0.05	4	430	< 2	2	2	81	< 0.01	< 10	< 10	10	< 10	20
H940894	299	229	0.04	4	470	< 2	< 2	2	103	< 0.01	< 10	< 10	8	< 10	18
H940895	299	229	0.02	4	510	< 2	< 2	1	96	< 0.01	< 10	< 10	3	80	14
H940896	299	229	0.02	3	460	< 2	6	1	45	< 0.01	< 10	< 10	< 1	< 10	10

CERTIFICATION: Bart Bichler

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO-247
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 22-NOV-93
Invoice No. : I9324959
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9324959

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H940897	299	229	0.8	0.79	14	40	< 0.5	4	1.03	< 0.5	12	152	404	4.38	< 10	< 1	0.44	10	0.24	85	902
H940898	299	229	0.8	0.75	26	60	< 0.5	6	0.57	< 0.5	8	111	577	4.38	< 10	< 1	0.42	10	0.20	50	164
H940899	299	229	1.6	0.82	8	120	< 0.5	2	1.53	< 0.5	9	150	1110	1.93	< 10	< 1	0.45	10	0.34	75	419
H940900	299	229	0.8	0.95	4	110	< 0.5	< 2	1.92	< 0.5	7	132	880	1.96	< 10	< 1	0.42	10	0.60	90	115
H940901	299	229	1.2	0.78	2	120	< 0.5	2	1.67	< 0.5	8	161	1080	1.66	< 10	< 1	0.37	10	0.41	75	293
H940902	299	229	0.2	2.56	< 2	60	< 0.5	< 2	2.73	< 0.5	13	110	558	3.64	< 10	< 1	1.20	< 10	1.88	200	420
H940903	299	229	< 0.2	2.32	4	60	< 0.5	< 2	2.76	< 0.5	10	118	480	3.29	< 10	< 1	1.21	< 10	1.75	195	357
H940904	299	229	1.6	2.08	< 2	50	< 0.5	< 2	2.10	< 0.5	13	101	2260	3.32	< 10	< 1	1.14	10	1.50	160	201

CERTIFICATION: Ian H Bucklen

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Certificate Date: 22-NOV-93
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CERTIFICATE OF ANALYSIS A9324959

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H940897	299	229	0.01	6	590	< 2	4	1	31	< 0.01	< 10	< 10	< 1	< 10	14
H940898	299	229	0.01	5	660	8	< 2	1	14	< 0.01	< 10	< 10	4	< 10	14
H940899	299	229	0.02	4	400	< 2	4	1	110	< 0.01	< 10	< 10	1	< 10	14
H940900	299	229	0.04	4	470	2	< 2	3	121	0.01	< 10	< 10	15	< 10	20
H940901	299	229	0.04	4	360	2	2	1	115	< 0.01	< 10	< 10	7	< 10	14
H940902	299	229	0.13	6	990	< 2	< 2	14	135	0.17	< 10	< 10	110	< 10	34
H940903	299	229	0.10	7	880	< 2	2	13	139	0.18	< 10	< 10	96	< 10	32
H940904	299	229	0.08	7	770	< 2	< 2	11	84	0.15	< 10	< 10	86	< 10	28

CERTIFICATION:

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Project : CASINO 248
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1
Total Pages :3
Certificate Date: 26-NOV-93
Invoice No. :19325126
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325126

SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H588352	208 274	0.06	0.135	0.17	4000
H588353	208 274	0.04	0.105	0.14	6000
H588354	208 274	0.02	0.050	0.17	6020
H588355	208 274	0.05	0.047	0.34	7000
H588356	208 274	0.05	0.063	0.55	5600
H588357	208 274	0.04	0.026	0.34	5400
H588358	208 274	0.18	0.027	0.51	5600
H588359	208 276	0.09	0.021	0.65	7800
H588360	208 274	0.14	0.020	0.45	4200
H588361	208 274	0.07	0.024	0.21	4600
H588362	208 274	0.03	0.033	0.24	5000
H588363	208 274	0.13	0.016	0.34	3200
H588364	208 274	0.23	0.017	0.31	7000
H588365	208 274	0.32	0.025	0.27	7080
H588366	208 276	0.29	0.024	0.14	9000
H588367	208 276	0.32	0.012	0.21	7800
H588368	208 276	0.48	0.025	0.27	8000
H588369	208 274	0.55	0.049	0.34	3020
H588370	208 276	0.55	0.020	0.38	10020
H588371	208 274	0.68	0.025	0.34	7000
H588372	208 274	0.30	0.017	0.21	6040
H588373	208 276	0.76	0.031	0.45	8020
H588374	208 276	0.35	0.016	0.21	8500
H588375	208 276	0.36	0.013	0.21	9500
H588376	208 276	0.44	0.022	0.17	9000
H588377	208 276	0.52	0.009	0.34	7600
H588378	208 274	0.46	0.018	0.31	7000
H588379	208 276	0.26	0.035	0.17	9800
H588380	208 276	0.17	0.048	0.10	11200
H588381	208 273	0.18	0.051	0.10	13600
H588382	208 276	0.15	0.070	0.14	8800
H588383	208 276	0.17	0.021	0.10	10600
H588384	208 276	0.15	0.018	0.17	11400
H588385	208 276	0.13	0.017	0.21	9820
H588386	208 276	0.18	0.014	0.24	10400
H588387	208 274	0.17	0.011	0.24	6000
H588388	208 276	0.14	0.032	0.14	7800
H588389	208 274	0.13	0.006	0.14	7200
H588390	208 276	0.12	0.026	0.17	11800
H588391	208 274	0.18	0.041	0.21	6200

CERTIFICATION: A. Christie

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P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9325126

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H588392	208	276	0.12	0.027	0.14	11000
H588393	208	273	0.16	0.026	0.14	12000
H588394	208	276	0.17	0.041	0.21	11700
H588395	208	276	0.14	0.012	0.21	7700
H588396	208	270	0.14	0.016	0.21	18500
H588398	208	276	0.10	0.021	0.14	11300
H588399	208	273	0.14	0.026	0.17	12300
H588400	208	273	0.12	0.020	0.14	13000
H588401	208	273	0.19	0.023	0.24	12000
H588402	208	273	0.10	0.051	0.10	13000
H588403	208	273	0.13	0.081	0.21	12500
H588404	208	273	0.09	0.057	0.07	11900
H588405	208	276	0.09	0.041	0.10	10500
H588406	208	273	0.11	0.022	0.14	12700
H588407	208	273	0.18	0.024	0.24	14040
H588408	208	273	0.12	0.015	0.17	14100
H588409	208	273	0.21	0.048	0.34	14000
H588410	208	273	0.25	0.039	0.34	13400
H588411	208	273	0.17	0.041	0.21	12000
H588412	208	273	0.11	0.019	0.17	12400
H588413	208	273	0.09	0.011	0.14	13200
H588414	208	276	0.11	0.010	0.14	11200
H588415	208	273	0.10	0.041	0.17	12800
H588416	208	273	0.12	0.013	0.17	13200
H588417	208	273	0.13	0.016	0.14	12400
H588418	208	273	0.17	0.047	0.21	12600
H588419	208	274	0.18	0.020	0.21	6400
H588420	208	273	0.14	0.018	0.24	13600
H588421	208	274	0.19	0.007	0.24	5600
H588422	208	273	0.18	0.040	0.24	12000
H588423	208	273	0.29	0.013	0.31	12800
H588424	208	273	0.15	0.030	0.17	13600
H588425	208	273	0.14	0.048	0.17	12400
H588426	208	273	0.14	0.051	0.14	12600
H588427	208	273	0.19	0.075	0.21	13400
H588428	208	273	0.19	0.020	0.17	13000
H588429	208	273	0.11	0.009	0.14	12200
H588430	208	273	0.11	0.031	0.10	12400
H588431	208	273	0.23	0.016	0.21	13800
H588432	208	273	0.06	0.023	0.07	14000

CERTIFICATION:

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WHITEHORSE, YT
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Project : CASINO 248
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-NOV-93
Invoice No. : 19325126
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325126

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H588433	208	273	0.11	0.010	0.07	13000						

CERTIFICATION: D Brooke

Chemex Labs Ltd.

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ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 248
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-NOV-93
Invoice No. :I9325127
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325127

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588352	299	229	1.8	1.71	140	400	< 0.5	8	0.04	< 0.5	3	167	532	5.92	< 10	< 1	0.56	30	0.13	35	787
H588353	299	229	1.8	0.73	152	240	< 0.5	4	0.02	< 0.5	1	163	430	4.99	< 10	< 1	0.33	20	0.03	15	634
H588354	299	229	0.8	1.03	62	190	< 0.5	< 2	0.02	< 0.5	1	151	227	2.73	< 10	< 1	0.44	20	0.05	15	302
H588355	299	229	1.2	2.80	66	400	< 0.5	2	0.06	< 0.5	2	45	411	4.43	< 10	< 1	0.71	20	0.73	80	265
H588356	299	229	1.2	3.60	40	590	< 0.5	8	0.08	< 0.5	1	40	429	4.80	< 10	< 1	0.80	40	1.00	85	340
H588357	299	229	0.4	4.67	8	350	< 0.5	2	0.07	< 0.5	3	36	370	3.69	< 10	< 1	0.77	10	1.33	110	137
H588358	299	229	1.8	5.08	8	400	< 0.5	6	0.12	< 0.5	8	33	1730	3.95	< 10	< 1	1.14	10	1.82	150	138
H588359	299	229	2.2	5.07	6	310	< 0.5	6	0.22	< 0.5	6	36	783	3.07	< 10	< 1	1.31	10	2.06	155	103
H588360	299	229	2.6	3.44	6	330	< 0.5	< 2	0.13	< 0.5	8	45	1285	2.97	< 10	< 1	0.81	10	1.23	125	112
H588361	299	229	0.8	3.37	12	190	< 0.5	2	0.06	< 0.5	1	53	629	1.57	< 10	< 1	0.35	10	0.59	40	131
H588362	299	229	1.6	3.39	8	300	< 0.5	< 2	0.08	< 0.5	1	64	274	1.52	< 10	< 1	0.41	10	0.66	85	181
H588363	299	229	1.4	3.27	12	270	< 0.5	< 2	0.07	< 0.5	2	46	1175	1.27	< 10	< 1	0.39	10	0.66	60	85
H588364	299	229	1.6	3.31	16	370	< 0.5	< 2	0.14	< 0.5	6	57	2090	1.53	< 10	< 1	0.41	10	0.73	70	92
H588365	299	229	1.4	3.79	46	380	< 0.5	< 2	0.21	< 0.5	7	84	3020	1.47	< 10	< 1	0.57	10	0.84	80	143
H588366	299	229	0.8	3.41	40	290	< 0.5	< 2	0.29	< 0.5	10	54	2670	1.58	< 10	< 1	0.47	< 10	0.80	85	136
H588367	299	229	0.8	3.11	34	160	< 0.5	< 2	0.34	< 0.5	11	61	3170	1.98	< 10	< 1	0.42	< 10	0.78	95	70
H588368	299	229	1.4	3.16	22	140	< 0.5	4	0.29	< 0.5	15	67	4160	2.25	< 10	< 1	0.84	< 10	0.85	95	124
H588369	299	229	1.4	3.22	28	80	< 0.5	10	0.35	< 0.5	20	70	5070	3.55	< 10	< 1	1.12	10	1.28	135	251
H588370	299	229	1.4	3.86	30	130	< 0.5	14	0.50	< 0.5	20	37	5160	4.05	< 10	< 1	1.46	< 10	1.63	160	96
H588371	299	229	1.8	4.29	52	110	< 0.5	8	0.40	< 0.5	20	58	6420	4.08	< 10	< 1	1.38	< 10	1.81	160	128
H588372	299	229	1.2	4.16	26	90	< 0.5	8	0.44	0.5	21	53	3010	4.57	< 10	< 1	1.43	10	1.70	170	89
H588373	299	229	2.2	4.64	46	110	< 0.5	8	0.40	< 0.5	22	45	7250	3.79	< 10	< 1	1.55	10	1.65	150	159
H588374	299	229	0.8	4.49	28	270	< 0.5	6	0.32	< 0.5	17	46	3190	4.01	< 10	< 1	1.50	10	1.79	175	78
H588375	299	229	0.8	3.80	54	250	< 0.5	6	0.31	< 0.5	15	46	3250	3.86	< 10	< 1	1.40	< 10	1.72	175	68
H588376	299	229	1.2	3.42	50	140	< 0.5	4	0.11	< 0.5	9	44	4410	1.58	< 10	< 1	0.29	< 10	0.46	35	114
H588377	299	229	1.2	3.56	54	140	< 0.5	4	0.25	< 0.5	13	39	4810	2.88	< 10	< 1	0.91	< 10	1.31	130	43
H588378	299	229	1.2	4.51	56	230	< 0.5	6	0.10	< 0.5	14	66	4360	2.67	< 10	< 1	0.88	10	1.38	135	99
H588379	299	229	1.4	1.32	14	180	< 0.5	< 2	0.02	< 0.5	7	121	2690	0.96	< 10	< 1	0.31	20	0.10	10	205
H588380	299	229	1.2	1.18	10	100	< 0.5	< 2	0.03	0.5	6	154	1670	1.63	< 10	< 1	0.40	10	0.10	15	270
H588381	299	229	1.4	0.84	2	120	< 0.5	6	0.08	0.5	7	107	1750	1.29	< 10	< 1	0.26	10	0.08	35	283
H588382	299	229	1.4	0.48	20	100	< 0.5	6	0.19	0.5	11	91	1505	2.21	< 10	< 1	0.23	10	0.06	190	407
H588383	299	229	1.8	0.48	12	110	< 0.5	< 2	0.37	10.0	9	96	1770	1.82	< 10	< 1	0.23	10	0.06	155	122
H588384	299	229	1.4	0.56	< 2	120	< 0.5	< 2	0.20	0.5	10	72	1525	1.65	< 10	< 1	0.20	20	0.09	225	98
H588385	299	229	0.8	1.14	< 2	180	< 0.5	< 2	0.54	0.5	10	59	1275	1.79	< 10	< 1	0.27	20	0.46	210	94
H588386	299	229	1.2	1.73	8	210	< 0.5	< 2	0.51	< 0.5	11	63	1760	2.08	< 10	< 1	0.53	10	0.90	195	75
H588387	299	229	0.6	2.32	6	400	< 0.5	4	0.39	< 0.5	12	80	1545	2.72	< 10	< 1	1.03	10	1.40	200	57
H588388	299	229	0.6	2.33	4	100	< 0.5	< 2	0.34	0.5	14	65	1350	3.16	< 10	< 1	0.98	10	1.47	200	171
H588389	299	229	0.6	1.75	< 2	180	0.5	2	0.40	0.5	10	76	1225	2.24	< 10	< 1	0.52	10	0.99	160	37
H588390	299	229	0.6	1.66	2	130	< 0.5	< 2	0.67	< 0.5	12	115	1145	2.04	< 10	< 1	0.49	10	0.85	115	151
H588391	299	229	1.0	2.09	16	170	0.5	< 2	0.84	< 0.5	9	131	1610	1.94	< 10	< 1	0.77	20	1.17	130	217

CERTIFICATION: Noah Per Adlem

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 248
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :1-B
Total Pages :3
Certificate Date: 28-NOV-93
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Account :FC

CERTIFICATE OF ANALYSIS A9325127

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588352	299	229	0.01	2	1540	16	6	2	13	< 0.01	< 10	< 10	46	< 10	48
H588353	299	229	0.01	< 1	1410	8	4	1	15	< 0.01	< 10	< 10	39	< 10	16
H588354	299	229	0.01	1	660	8	4	1	9	< 0.01	< 10	< 10	21	< 10	16
H588355	299	229	0.01	< 1	1070	18	2	6	105	0.03	< 10	< 10	56	< 10	40
H588356	299	229	0.01	< 1	1140	14	< 2	8	177	0.07	< 10	< 10	66	< 10	32
H588357	299	229	0.01	4	1010	16	< 2	12	57	0.10	< 10	< 10	101	< 10	32
H588358	299	229	0.02	4	1270	18	< 2	15	59	0.14	< 10	< 10	132	< 10	38
H588359	299	229	0.03	4	1310	12	< 2	15	48	0.14	< 10	< 10	148	< 10	40
H588360	299	229	0.03	2	1030	14	< 2	7	57	0.05	< 10	< 10	59	< 10	40
H588361	299	229	0.01	3	540	14	< 2	2	19	< 0.01	< 10	< 10	19	< 10	26
H588362	299	229	0.03	1	490	20	< 2	3	64	< 0.01	< 10	< 10	28	< 10	24
H588363	299	229	0.02	2	430	18	< 2	3	36	< 0.01	< 10	< 10	28	< 10	26
H588364	299	229	0.04	3	820	24	< 2	4	99	< 0.01	< 10	< 10	37	< 10	34
H588365	299	229	0.07	4	1190	20	< 2	4	149	0.02	< 10	< 10	41	< 10	40
H588366	299	229	0.07	5	1260	14	< 2	4	261	0.04	< 10	< 10	40	< 10	40
H588367	299	229	0.07	5	1060	12	< 2	3	261	0.04	< 10	< 10	35	< 10	40
H588368	299	229	0.07	3	1050	8	< 2	4	179	0.02	< 10	< 10	48	< 10	38
H588369	299	229	0.03	3	1580	8	< 2	8	114	0.09	< 10	< 10	78	< 10	50
H588370	299	229	0.06	4	1630	8	< 2	11	280	0.14	< 10	< 10	116	< 10	58
H588371	299	229	0.04	7	1910	12	< 2	13	152	0.13	< 10	< 10	119	< 10	62
H588372	299	229	0.06	3	1490	18	< 2	12	128	0.14	< 10	< 10	110	< 10	60
H588373	299	229	0.04	4	1540	14	< 2	13	240	0.13	< 10	< 10	118	< 10	56
H588374	299	229	0.04	8	1690	12	< 2	14	125	0.20	< 10	< 10	125	< 10	46
H588375	299	229	0.05	6	1890	18	< 2	13	65	0.21	< 10	< 10	118	< 10	48
H588376	299	229	0.03	4	1230	6	< 2	1	81	< 0.01	< 10	< 10	15	< 10	28
H588377	299	229	0.04	4	1560	6	< 2	10	87	0.10	< 10	< 10	79	< 10	48
H588378	299	229	0.03	7	1490	16	< 2	11	37	0.08	< 10	< 10	81	< 10	48
H588379	299	229	0.02	3	320	12	< 2	< 1	16	< 0.01	< 10	< 10	7	< 10	16
H588380	299	229	0.02	2	220	12	< 2	< 1	10	< 0.01	< 10	< 10	6	< 10	44
H588381	299	229	0.01	3	170	12	< 2	< 1	11	< 0.01	< 10	< 10	5	< 10	30
H588382	299	229	0.01	1	140	14	< 2	< 1	9	< 0.01	< 10	< 10	3	< 10	106
H588383	299	229	0.01	2	140	16	< 2	< 1	11	< 0.01	< 10	< 10	2	< 10	1120
H588384	299	229	0.03	3	240	8	< 2	< 1	17	< 0.01	< 10	< 10	5	< 10	52
H588385	299	229	0.05	3	350	2	< 2	2	26	< 0.01	< 10	< 10	20	< 10	46
H588386	299	229	0.06	4	530	6	< 2	7	27	0.03	< 10	< 10	48	< 10	50
H588387	299	229	0.08	4	590	8	< 2	15	25	0.14	< 10	< 10	92	< 10	42
H588388	299	229	0.05	4	610	12	< 2	13	19	0.14	< 10	< 10	87	< 10	48
H588389	299	229	0.08	3	540	6	< 2	9	22	0.08	< 10	< 10	54	< 10	40
H588390	299	229	0.09	2	410	6	< 2	8	99	0.05	< 10	< 10	42	< 10	30
H588391	299	229	0.09	3	430	6	< 2	13	118	0.08	< 10	< 10	66	< 10	26

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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WHITEHORSE, YT
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CERTIFICATE OF ANALYSIS A9325127

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588392	299	229	0.6	2.25	2	270	< 0.5	< 2	1.64	< 0.5	9	75	1200	1.73	< 10	< 1	0.64	20	0.96	130	133
H588393	299	229	0.8	1.85	16	90	< 0.5	< 2	3.00	< 0.5	10	65	1530	2.19	< 10	< 1	0.54	20	0.65	165	133
H588394	299	229	1.0	1.90	< 2	220	< 0.5	< 2	3.52	< 0.5	5	66	1530	1.71	< 10	< 1	0.46	20	0.64	155	197
H588395	299	229	0.6	3.34	4	370	< 0.5	6	1.38	< 0.5	12	82	1320	2.90	< 10	< 1	1.17	20	1.67	150	64
H588396	299	229	0.8	4.30	6	180	< 0.5	8	1.25	< 0.5	15	73	1355	4.66	< 10	< 1	1.89	10	2.48	230	81
H588398	299	229	0.2	4.28	< 2	560	< 0.5	8	1.35	0.5	14	61	942	4.50	< 10	< 1	1.85	10	2.47	235	96
H588399	299	229	0.8	1.51	6	120	< 0.5	< 2	0.94	< 0.5	9	98	1320	1.90	< 10	< 1	0.57	20	0.94	90	132
H588400	299	229	0.8	3.06	< 2	220	< 0.5	< 2	1.69	< 0.5	12	127	1200	3.17	< 10	< 1	1.27	20	1.94	180	97
H588401	299	229	20.2	3.28	4	70	< 0.5	28	2.70	28.5	12	102	1890	4.00	< 10	< 1	1.39	10	1.77	260	119
H588402	299	229	2.4	3.16	< 2	230	< 0.5	6	2.05	3.5	8	97	962	2.83	< 10	< 1	1.13	20	1.61	245	257
H588403	299	229	0.8	3.45	2	390	< 0.5	2	1.87	< 0.5	10	77	1225	2.66	< 10	< 1	1.42	20	1.96	175	419
H588404	299	229	0.6	2.42	4	280	< 0.5	2	2.00	< 0.5	9	125	892	1.73	< 10	< 1	0.89	30	1.02	120	303
H588405	299	229	0.8	0.90	12	130	< 0.5	< 2	0.98	< 0.5	4	182	912	0.87	< 10	< 1	0.33	30	0.20	45	218
H588406	299	229	0.4	1.34	< 2	180	< 0.5	< 2	1.20	0.5	10	146	1105	1.79	< 10	< 1	0.52	20	0.72	95	122
H588407	299	229	1.0	1.57	< 2	190	< 0.5	< 2	1.61	< 0.5	6	160	1705	1.60	< 10	< 1	0.77	20	0.95	95	133
H588408	299	229	0.6	1.66	12	230	< 0.5	< 2	1.63	< 0.5	7	160	1230	1.91	< 10	< 1	0.85	20	0.98	110	83
H588409	299	229	1.6	1.63	6	200	< 0.5	4	1.74	< 0.5	10	167	1950	1.78	< 10	< 1	0.74	30	0.64	115	274
H588410	299	229	1.6	1.72	2	170	< 0.5	6	1.22	< 0.5	7	118	2350	1.49	< 10	< 1	0.62	20	0.58	105	210
H588411	299	229	2.2	1.22	4	70	< 0.5	< 2	2.25	< 0.5	7	136	1720	2.34	< 10	< 1	0.57	30	0.58	150	221
H588412	299	229	0.6	1.03	6	110	< 0.5	< 2	1.83	< 0.5	6	122	1025	1.48	< 10	< 1	0.46	10	0.74	105	99
H588413	299	229	0.4	1.12	< 2	100	< 0.5	< 2	1.80	< 0.5	8	114	873	1.65	< 10	< 1	0.58	10	0.82	105	59
H588414	299	229	0.6	1.17	< 2	160	< 0.5	< 2	1.54	< 0.5	8	94	1020	1.65	< 10	< 1	0.57	10	0.88	100	54
H588415	299	229	0.6	1.65	< 2	270	< 0.5	< 2	1.16	< 0.5	8	99	1005	1.97	< 10	< 1	0.75	10	1.08	115	245
H588416	299	229	0.8	1.50	14	190	< 0.5	2	1.31	< 0.5	10	126	1120	2.32	< 10	< 1	0.71	10	0.95	110	75
H588417	299	229	0.6	1.98	6	300	< 0.5	6	0.88	< 0.5	11	110	1320	2.49	< 10	< 1	0.89	10	1.11	115	104
H588418	299	229	1.2	1.70	6	280	< 0.5	4	1.15	< 0.5	12	119	1720	1.99	< 10	< 1	0.69	10	0.97	110	274
H588419	299	229	1.4	1.78	4	370	< 0.5	< 2	0.85	< 0.5	8	105	1775	2.18	< 10	< 1	0.82	20	1.23	170	111
H588420	299	229	1.0	1.66	< 2	260	< 0.5	6	1.05	< 0.5	9	102	1420	1.78	< 10	< 1	0.68	10	1.01	135	102
H588421	299	229	0.8	1.62	12	240	< 0.5	< 2	1.13	< 0.5	12	98	1835	1.75	< 10	< 1	0.57	20	0.89	110	47
H588422	299	229	1.6	1.30	10	170	< 0.5	< 2	1.94	< 0.5	7	113	1760	1.59	< 10	< 1	0.44	30	0.60	110	219
H588423	299	229	11.4	1.45	30	130	< 0.5	< 2	5.18	27.0	10	89	2880	3.73	< 10	< 1	0.53	20	0.56	445	62
H588424	299	229	0.8	2.69	10	310	< 0.5	2	1.77	< 0.5	14	71	1450	3.41	< 10	< 1	1.14	10	1.62	165	172
H588425	299	229	0.8	2.51	< 2	360	< 0.5	2	1.49	< 0.5	11	68	1420	2.90	< 10	< 1	1.14	10	1.61	150	255
H588426	299	229	0.8	1.79	< 2	220	< 0.5	< 2	1.54	< 0.5	11	73	1325	1.91	< 10	< 1	0.70	10	1.17	120	281
H588427	299	229	1.0	2.98	8	150	< 0.5	6	2.25	< 0.5	11	87	1880	3.24	< 10	< 1	1.34	< 10	1.85	155	402
H588428	299	229	0.8	3.45	4	140	< 0.5	2	2.18	< 0.5	14	87	1810	4.00	< 10	< 1	1.48	10	2.12	190	106
H588429	299	229	0.6	4.34	14	170	< 0.5	6	2.70	< 0.5	16	84	1050	4.42	< 10	< 1	1.45	< 10	2.14	210	50
H588430	299	229	0.8	5.78	4	280	< 0.5	< 2	2.99	< 0.5	18	64	1070	4.83	< 10	< 1	1.75	< 10	2.65	265	157
H588431	299	229	0.6	6.53	18	310	< 0.5	< 2	4.04	< 0.5	21	48	2080	5.26	< 10	< 1	2.52	< 10	3.39	245	75
H588432	299	229	< 0.2	6.44	< 2	250	< 0.5	4	3.89	0.5	20	42	560	5.14	< 10	< 1	1.98	< 10	3.03	265	106

CERTIFICATION: _____

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588392	299	229	0.03	4	420	8	< 2	6	29	0.02	< 10	< 10	41	< 10	22
H588393	299	229	0.02	2	500	8	< 2	7	41	0.02	< 10	< 10	41	< 10	22
H588394	299	229	0.01	2	420	8	2	7	45	0.01	< 10	< 10	34	< 10	20
H588395	299	229	0.08	1	590	14	< 2	15	52	0.14	< 10	< 10	114	< 10	28
H588396	299	229	0.23	3	880	12	< 2	24	115	0.27	< 10	< 10	202	< 10	40
H588398	299	229	0.27	4	820	14	< 2	25	154	0.31	< 10	< 10	209	< 10	38
H588399	299	229	0.04	3	520	8	< 2	6	123	0.04	< 10	< 10	45	< 10	20
H588400	299	229	0.09	4	660	10	< 2	16	37	0.14	< 10	< 10	130	< 10	36
H588401	299	229	0.05	6	750	286	16	17	36	0.14	< 10	< 10	127	10	638
H588402	299	229	0.05	5	630	50	8	13	39	0.12	< 10	< 10	103	< 10	112
H588403	299	229	0.07	3	650	12	< 2	17	83	0.16	< 10	< 10	130	< 10	32
H588404	299	229	0.03	3	480	8	4	9	49	0.07	< 10	< 10	70	< 10	22
H588405	299	229	0.02	2	130	10	< 2	1	20	< 0.01	< 10	< 10	9	< 10	14
H588406	299	229	0.07	2	450	8	2	6	23	0.04	< 10	< 10	40	< 10	26
H588407	299	229	0.05	3	480	10	< 2	8	43	0.08	< 10	< 10	61	< 10	24
H588408	299	229	0.06	3	560	6	< 2	9	40	0.09	< 10	< 10	68	< 10	26
H588409	299	229	0.03	1	490	8	< 2	6	32	0.04	< 10	< 10	46	< 10	22
H588410	299	229	0.03	2	430	4	< 2	6	37	0.02	< 10	< 10	41	< 10	24
H588411	299	229	0.02	2	480	16	< 2	4	32	0.02	< 10	< 10	36	< 10	42
H588412	299	229	0.04	3	460	4	< 2	5	49	0.04	< 10	< 10	38	< 10	32
H588413	299	229	0.04	3	490	8	< 2	6	59	0.06	< 10	< 10	44	< 10	28
H588414	299	229	0.04	2	480	4	< 2	7	39	0.09	< 10	< 10	53	< 10	22
H588415	299	229	0.07	3	550	14	< 2	9	139	0.14	< 10	< 10	68	< 10	26
H588416	299	229	0.06	2	520	12	< 2	8	67	0.12	< 10	< 10	63	< 10	26
H588417	299	229	0.09	3	670	16	< 2	10	240	0.16	< 10	< 10	75	< 10	24
H588418	299	229	0.06	2	540	12	< 2	9	89	0.12	< 10	< 10	64	< 10	26
H588419	299	229	0.06	4	540	14	< 2	11	107	0.15	< 10	< 10	88	< 10	34
H588420	299	229	0.06	2	540	4	< 2	9	75	0.10	< 10	< 10	66	< 10	28
H588421	299	229	0.06	2	530	12	< 2	7	110	0.05	< 10	< 10	53	< 10	22
H588422	299	229	0.03	1	460	4	< 2	4	35	0.01	< 10	< 10	33	< 10	18
H588423	299	229	0.02	2	580	76	4	7	49	0.03	< 10	< 10	42	10	462
H588424	299	229	0.10	1	1070	8	< 2	15	55	0.17	< 10	< 10	120	< 10	30
H588425	299	229	0.08	1	1040	8	< 2	15	108	0.18	< 10	< 10	115	< 10	28
H588426	299	229	0.04	1	830	8	2	9	76	0.08	< 10	< 10	70	< 10	24
H588427	299	229	0.16	1	930	10	2	21	97	0.24	< 10	< 10	164	10	26
H588428	299	229	0.20	2	1040	14	< 2	21	159	0.28	< 10	< 10	185	10	26
H588429	299	229	0.31	4	790	14	< 2	21	262	0.25	< 10	< 10	198	10	30
H588430	299	229	0.43	3	830	16	< 2	27	545	0.24	< 10	< 10	260	30	44
H588431	299	229	0.39	8	840	20	< 2	21	397	0.31	< 10	< 10	272	30	30
H588432	299	229	0.43	6	820	8	< 2	17	402	0.26	< 10	< 10	256	20	24

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 248
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H588433	299	229	0.4	5.44	6	210	< 0.5	8	3.04	0.5	21	59	1015	5.19	< 10	< 1	1.60	< 10	2.59	280	49

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H588433	299	229	0.36	8	810	24	< 2	13	330	0.26	< 10	< 10	227	10	30

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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
H567348	208	274	0.08	0.016	0.21	6000
H567349	208	276	0.04	0.036	0.17	10200
H567350	208	276	0.06	0.008	0.14	8000
H567351	208	274	0.06	0.015	0.21	5360
H567352	208	276	0.04	0.014	0.34	8500
H567353	208	276	0.05	0.015	0.17	10260
H567354	208	276	0.05	0.028	0.24	10800
H567355	208	276	0.04	0.033	0.21	10400
H567356	208	276	0.03	0.020	0.14	10100
H567357	208	274	0.03	0.028	0.14	7000
H567358	208	276	0.07	0.058	0.21	9200
H567359	208	276	0.16	0.012	0.17	10240
H567360	208	276	0.31	0.012	0.21	9000
H567361	208	276	0.18	0.015	0.17	11000
H567362	208	276	0.18	0.006	0.21	9740
H567363	208	276	0.19	0.008	0.14	9200
H567364	208	276	0.14	0.008	0.03	8600
H567365	208	274	0.13	0.181	0.17	4220
H567366	208	274	0.18	0.016	0.07	6460
H567367	208	273	0.23	0.034	0.17	12100
H567368	208	274	0.33	0.006	0.21	6100
H567369	208	276	0.30	0.020	0.14	9220
H567370	208	276	0.21	0.008	0.14	7640
H567371	208	276	0.23	0.009	0.10	8400
H567372	208	276	0.36	0.010	0.10	9860
H567373	208	274	0.27	0.005	0.10	6440
H567374	208	276	0.20	0.010	0.07	7400
H567375	208	276	0.13	0.009	0.07	7960
H567376	208	273	0.14	0.011	0.51	12300
H567377	208	276	0.14	0.010	0.10	11600
H567378	208	276	0.14	0.006	0.07	9200
H567379	208	273	0.16	0.011	0.10	12400
H567380	208	273	0.21	0.017	0.17	12800
H567381	208	274	0.17	0.004	0.17	4800
H567382	208	273	0.21	0.008	0.21	12000
H567383	208	273	0.22	0.010	0.14	12600
H567384	208	276	0.15	0.013	0.24	11400
H567385	208	274	0.22	0.010	0.21	5640
H567386	208	274	0.12	0.021	0.17	6440
H567387	208	274	0.16	0.014	0.14	7100

CERTIFICATION: _____

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SAMPLE	PREP CODE	Cu %	MoS2 %	Au g/t	Weight grams
H567388	208 274	0.16	0.012	0.14	7000
H567389	208 274	0.29	0.007	0.34	6800
H567390	208 274	0.15	0.027	0.07	7200
H567391	208 274	0.16	0.007	0.24	6200
H567392	208 274	0.17	0.012	0.21	7000
H567393	208 274	0.13	0.013	0.14	6600
H567394	208 276	0.10	0.009	0.10	8000
H567395	208 274	0.08	0.003	0.07	5400
H567396	208 276	0.08	0.003	0.07	8400
H567397	208 276	0.20	0.021	0.17	7800
H567398	208 274	0.09	0.011	0.21	7200
H567399	208 274	0.13	0.011	0.14	7000
H567400	208 274	0.11	0.007	0.07	6800
H567401	208 276	0.08	0.008	0.03	7600
H567402	208 274	0.11	0.010	0.07	7000
H567403	208 274	0.06	0.007	0.03	6800
H567404	208 274	0.13	0.008	0.14	7000
H567405	208 276	0.19	0.010	0.14	7400
H567406	208 274	0.24	0.016	0.27	6600
H567407	208 274	0.20	0.018	0.21	7200
H567408	208 274	0.20	0.032	0.21	6660
H567409	208 274	0.20	0.006	0.24	7200
H567410	208 274	0.16	0.011	0.17	7000
H567411	208 274	0.20	0.014	0.27	5200
H567412	208 274	0.35	0.016	0.45	6800
H567413	208 276	0.35	0.007	0.45	7800
H567414	208 276	0.31	0.013	0.34	7600
H567415	208 276	0.31	0.012	0.38	7400
H567416	208 276	0.24	0.004	0.21	7800
H567417	208 276	0.34	0.016	0.34	7700
H567418	208 274	0.20	0.047	0.31	7000
H567419	208 274	0.31	0.018	0.31	6900
H567420	208 274	0.23	0.028	0.24	7000
H567421	208 274	0.26	0.022	0.31	6800
H567422	208 274	0.22	0.017	0.24	7000
H567423	208 276	0.29	0.014	0.10	7400
H567424	208 276	0.21	0.010	0.27	7900
H567425	208 276	0.27	0.010	0.27	7820
H567426	208 276	0.27	0.019	0.38	7300
H567427	208 274	0.27	0.061	0.34	3900

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
H567428	208	274	0.29	0.020	0.31	6600						
H567429	208	276	0.20	0.008	0.21	7300						
H567430	208	274	0.28	0.022	0.38	7200						
H567431	208	274	0.34	0.064	0.41	6600						
H567432	208	274	0.39	0.023	0.31	7000						
H567433	208	274	0.31	0.035	0.31	6960						
H567434	208	274	0.24	0.012	0.21	7000						
H567435	208	274	0.28	0.014	0.31	6840						
H567436	208	276	0.20	0.048	0.17	7600						
H567437	208	274	0.29	0.142	0.41	7200						

CERTIFICATION: JC Kirkpatrick

Chemex Labs Ltd.

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567348	299	229	0.6	3.40	52	750	< 0.5	4	0.24	< 0.5	2	90	627	8.68	< 10	< 1	0.74	30	0.81	125	93
H567349	299	229	0.8	1.73	44	420	< 0.5	6	0.15	< 0.5	1	106	389	6.11	< 10	< 1	0.49	20	0.31	65	207
H567350	299	229	0.2	3.95	34	500	< 0.5	< 2	0.27	< 0.5	4	58	560	6.81	< 10	< 1	0.67	10	1.05	155	49
H567351	299	229	0.2	3.76	26	350	< 0.5	2	0.29	< 0.5	4	115	505	5.92	< 10	< 1	0.61	< 10	1.10	135	77
H567352	299	229	0.6	3.62	24	360	< 0.5	< 2	0.21	< 0.5	2	73	368	4.42	< 10	< 1	0.58	< 10	1.03	130	70
H567353	299	229	1.8	2.77	34	700	< 0.5	6	0.19	< 0.5	6	82	416	5.25	< 10	< 1	0.58	< 10	0.80	105	85
H567354	299	229	0.6	2.81	28	210	< 0.5	4	0.23	< 0.5	2	98	435	5.93	< 10	< 1	0.59	< 10	0.76	105	148
H567355	299	229	1.2	2.01	30	280	< 0.5	< 2	0.20	< 0.5	2	72	349	5.11	< 10	< 1	0.54	< 10	0.61	95	200
H567356	299	229	1.8	1.52	74	390	< 0.5	< 2	0.10	< 0.5	3	144	321	4.48	< 10	< 1	0.52	10	0.29	75	117
H567357	299	229	2.2	2.34	62	140	< 0.5	10	0.11	< 0.5	18	179	327	4.68	< 10	< 1	0.71	10	0.45	75	161
H567358	299	229	2.8	1.63	72	30	< 0.5	4	0.09	< 0.5	39	173	648	6.22	< 10	< 1	0.53	10	0.29	60	321
H567359	299	229	2.2	3.56	30	180	< 0.5	< 2	0.23	< 0.5	13	160	1550	3.70	< 10	< 1	0.59	10	0.63	130	71
H567360	299	229	2.0	4.00	24	80	< 0.5	4	0.19	1.0	33	92	2980	4.97	< 10	< 1	0.92	20	1.19	160	70
H567361	299	229	1.8	4.10	22	210	< 0.5	8	0.19	< 0.5	16	110	1760	4.71	< 10	< 1	0.92	20	1.01	170	93
H567362	299	229	1.4	4.29	8	180	< 0.5	< 2	0.18	0.5	12	200	1720	2.96	< 10	< 1	0.88	30	1.08	135	35
H567363	299	229	1.4	3.75	24	160	< 0.5	< 2	0.12	< 0.5	14	163	1755	3.22	< 10	< 1	0.80	20	0.85	85	52
H567364	299	229	1.2	2.63	14	140	< 0.5	< 2	0.12	< 0.5	12	168	1370	2.49	< 10	< 1	0.55	10	0.49	45	50
H567365	299	229	1.4	2.08	42	110	< 0.5	6	0.07	< 0.5	10	144	1225	2.77	< 10	< 1	0.62	< 10	0.32	35	1040
H567366	299	229	0.4	2.86	8	130	< 0.5	< 2	0.08	< 0.5	11	146	1785	1.91	< 10	< 1	0.72	< 10	0.30	25	92
H567367	299	229	0.6	3.13	14	80	< 0.5	< 2	0.13	0.5	23	72	2240	2.67	< 10	< 1	0.74	10	0.41	30	188
H567368	299	229	0.8	4.61	14	130	< 0.5	8	0.18	< 0.5	17	88	3240	2.96	< 10	< 1	1.23	10	1.25	90	35
H567369	299	229	0.8	4.13	2	110	< 0.5	< 2	0.16	0.5	15	69	2820	2.57	< 10	< 1	0.80	20	0.65	45	121
H567370	299	229	0.8	4.17	8	140	< 0.5	4	0.16	< 0.5	15	60	2020	1.75	< 10	< 1	0.46	20	0.39	35	46
H567371	299	229	0.6	3.78	4	170	< 0.5	< 2	0.11	< 0.5	16	69	2350	1.60	< 10	< 1	0.59	10	0.38	35	58
H567372	299	229	1.8	3.86	8	80	< 0.5	8	0.11	< 0.5	18	70	3670	2.42	< 10	< 1	0.64	10	0.67	65	57
H567373	299	229	1.4	3.70	< 2	100	< 0.5	< 2	0.09	1.0	13	73	2570	2.10	< 10	< 1	0.61	20	0.19	10	25
H567374	299	229	1.2	3.41	28	130	< 0.5	< 2	0.05	1.0	8	62	1990	1.53	< 10	< 1	0.67	10	0.19	10	53
H567375	299	229	0.6	3.70	12	200	< 0.5	< 2	0.19	0.5	9	51	1185	1.36	< 10	< 1	0.43	10	0.19	15	49
H567376	299	229	0.8	3.23	16	160	< 0.5	4	0.27	0.5	16	50	1325	2.03	< 10	< 1	0.47	10	0.19	160	63
H567377	299	229	1.4	2.89	22	120	< 0.5	4	0.10	< 0.5	10	95	1380	1.88	< 10	< 1	0.70	20	0.16	15	59
H567378	299	229	1.2	1.44	6	100	< 0.5	< 2	0.04	0.5	11	121	1425	1.72	< 10	< 1	0.48	10	0.08	10	39
H567379	299	229	1.6	1.33	10	90	< 0.5	4	0.27	0.5	14	105	1600	2.24	< 10	< 1	0.45	20	0.16	140	67
H567380	299	229	3.4	1.87	8	100	< 0.5	2	1.49	2.0	18	52	2050	2.63	< 10	< 1	0.63	20	0.88	240	96
H567381	299	229	2.0	2.44	36	40	< 0.5	14	0.62	< 0.5	33	46	1675	6.58	< 10	< 1	1.10	20	1.03	630	24
H567382	299	229	1.0	2.97	16	80	< 0.5	2	0.33	< 0.5	35	87	1895	4.08	< 10	< 1	1.10	20	0.88	250	47
H567383	299	229	1.4	2.58	22	100	< 0.5	6	0.13	1.0	21	128	2200	2.57	< 10	< 1	0.75	20	0.58	60	71
H567384	299	229	0.6	2.98	12	100	< 0.5	6	0.21	0.5	13	100	1510	1.95	< 10	< 1	0.43	10	0.67	85	86
H567385	299	229	1.2	2.93	16	120	< 0.5	4	0.42	0.5	19	116	2040	2.55	< 10	< 1	0.74	10	0.99	160	62
H567386	299	229	0.8	1.76	4	120	< 0.5	< 2	1.00	< 0.5	14	182	1140	2.03	< 10	< 1	0.55	20	0.48	75	129
H567387	299	229	1.0	2.27	4	80	< 0.5	< 2	0.69	0.5	11	201	1580	2.07	< 10	< 1	0.90	10	0.43	85	85

CERTIFICATION: Mark Fedikow

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SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567348	299	229	0.07	4	1410	10	< 2	6	130	0.03	< 10	< 10	65	< 10	72
H567349	299	229	0.02	1	1060	10	2	3	63	0.01	< 10	< 10	35	< 10	48
H567350	299	229	0.01	4	1190	12	< 2	7	69	0.07	< 10	< 10	75	< 10	80
H567351	299	229	0.01	3	1110	14	< 2	8	37	0.07	< 10	< 10	72	< 10	72
H567352	299	229	0.01	7	920	4	< 2	7	31	0.08	< 10	< 10	59	< 10	66
H567353	299	229	0.01	3	1220	< 2	< 2	6	36	0.04	< 10	< 10	50	< 10	48
H567354	299	229	0.01	3	1220	6	< 2	7	29	0.04	< 10	< 10	65	< 10	52
H567355	299	229	0.01	2	1110	8	< 2	5	21	0.02	< 10	< 10	50	< 10	44
H567356	299	229	0.01	4	1050	2	< 2	5	15	0.01	< 10	< 10	41	< 10	26
H567357	299	229	0.01	3	850	12	< 2	5	18	0.01	< 10	< 10	43	< 10	26
H567358	299	229	0.01	4	790	14	4	4	13	0.01	< 10	< 10	37	< 10	22
H567359	299	229	0.01	4	1350	16	< 2	8	45	0.03	< 10	< 10	68	< 10	42
H567360	299	229	0.01	6	870	8	< 2	9	48	0.06	< 10	< 10	86	< 10	50
H567361	299	229	0.01	4	1040	14	< 2	9	47	0.08	< 10	< 10	91	< 10	50
H567362	299	229	0.01	4	800	10	< 2	8	56	0.06	< 10	< 10	79	< 10	46
H567363	299	229	0.01	5	660	14	< 2	9	45	0.04	< 10	< 10	72	< 10	34
H567364	299	229	0.01	6	570	6	< 2	5	52	0.01	< 10	< 10	38	< 10	26
H567365	299	229	0.01	4	500	6	8	4	22	< 0.01	< 10	< 10	35	< 10	20
H567366	299	229	0.05	7	290	4	< 2	2	39	< 0.01	< 10	< 10	16	< 10	24
H567367	299	229	0.02	7	470	6	< 2	3	73	< 0.01	< 10	< 10	24	< 10	26
H567368	299	229	0.02	9	450	8	< 2	8	36	0.04	< 10	< 10	64	< 10	46
H567369	299	229	0.03	7	380	8	< 2	4	47	0.01	< 10	< 10	35	< 10	32
H567370	299	229	0.03	11	640	12	< 2	2	202	< 0.01	< 10	< 10	23	< 10	36
H567371	299	229	0.02	13	1320	16	< 2	2	480	< 0.01	< 10	< 10	20	< 10	44
H567372	299	229	0.03	13	1380	20	< 2	5	532	< 0.01	< 10	< 10	35	< 10	54
H567373	299	229	0.01	7	870	30	< 2	2	370	< 0.01	< 10	< 10	13	< 10	82
H567374	299	229	0.02	4	670	22	< 2	2	117	< 0.01	< 10	< 10	12	< 10	210
H567375	299	229	0.04	3	390	18	< 2	1	34	< 0.01	< 10	< 10	16	< 10	22
H567376	299	229	0.06	3	390	24	< 2	1	39	< 0.01	< 10	< 10	18	< 10	58
H567377	299	229	0.03	2	490	22	< 2	1	113	< 0.01	< 10	< 10	10	< 10	16
H567378	299	229	0.01	3	420	10	< 2	1	100	< 0.01	< 10	< 10	6	< 10	62
H567379	299	229	0.02	2	390	12	< 2	1	55	< 0.01	< 10	< 10	8	< 10	52
H567380	299	229	0.07	2	870	14	2	6	41	0.01	< 10	< 10	47	< 10	342
H567381	299	229	0.06	2	1310	20	< 2	10	35	0.07	< 10	< 10	81	< 10	190
H567382	299	229	0.04	6	1090	6	2	8	30	0.08	< 10	< 10	73	< 10	66
H567383	299	229	0.02	4	810	16	< 2	5	35	0.02	< 10	< 10	44	< 10	88
H567384	299	229	0.04	3	470	14	< 2	2	35	< 0.01	< 10	< 10	19	< 10	48
H567385	299	229	0.07	4	540	8	< 2	7	33	0.02	< 10	< 10	37	< 10	52
H567386	299	229	0.07	3	380	6	2	1	22	< 0.01	< 10	< 10	14	< 10	24
H567387	299	229	0.10	3	320	8	< 2	1	26	< 0.01	< 10	< 10	14	< 10	32

CERTIFICATION: Ian Pratten

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 249
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-NOV-93
Invoice No. :I9325130
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325130

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567388	299	229	0.8	1.57	10	60	< 0.5	2	0.43	0.5	18	98	1455	2.97	< 10	< 1	0.55	10	0.52	130	67
H567389	299	229	1.6	2.67	22	160	< 0.5	10	1.02	0.5	22	103	2710	3.14	< 10	< 1	1.04	10	1.45	190	37
H567390	299	229	0.8	1.54	< 2	120	< 0.5	2	0.76	0.5	12	80	1365	1.82	< 10	< 1	0.51	< 10	0.49	60	157
H567391	299	229	0.8	2.73	18	130	< 0.5	< 2	1.23	< 0.5	16	64	1495	2.94	< 10	< 1	0.92	< 10	1.37	170	41
H567392	299	229	1.6	1.99	26	100	< 0.5	< 2	1.36	< 0.5	26	62	1705	3.26	< 10	< 1	0.65	< 10	0.64	95	71
H567393	299	229	0.6	1.51	10	90	< 0.5	2	0.86	0.5	15	94	1220	2.63	< 10	< 1	0.62	< 10	0.52	90	71
H567394	299	229	0.6	1.82	14	100	< 0.5	4	0.96	< 0.5	17	92	934	2.33	< 10	< 1	0.72	10	0.91	140	49
H567395	299	229	0.4	2.21	14	120	< 0.5	2	0.87	< 0.5	10	93	673	1.91	< 10	< 1	0.81	10	1.15	195	19
H567396	299	229	0.4	2.27	12	130	< 0.5	< 2	0.95	< 0.5	13	105	731	2.48	< 10	< 1	0.88	10	1.19	155	18
H567397	299	229	1.0	1.86	12	110	< 0.5	6	0.73	< 0.5	19	92	1835	2.36	< 10	< 1	0.89	< 10	1.02	100	120
H567398	299	229	0.4	2.33	8	110	< 0.5	2	1.01	< 0.5	12	81	845	1.95	< 10	< 1	0.78	< 10	1.19	135	59
H567399	299	229	0.6	1.87	< 2	100	< 0.5	2	0.71	0.5	14	87	1145	1.89	< 10	< 1	0.65	10	0.85	125	62
H567400	299	229	0.6	1.57	12	90	< 0.5	< 2	0.87	< 0.5	15	101	984	2.02	< 10	< 1	0.53	< 10	0.63	100	41
H567401	299	229	0.8	1.09	2	110	< 0.5	2	0.50	0.5	7	149	748	1.42	< 10	< 1	0.45	10	0.29	65	49
H567402	299	229	1.0	1.14	16	120	< 0.5	< 2	0.82	< 0.5	8	136	1030	1.32	< 10	< 1	0.44	10	0.27	60	54
H567403	299	229	0.6	1.17	22	150	< 0.5	< 2	0.65	< 0.5	6	135	553	1.27	< 10	< 1	0.41	20	0.44	85	37
H567404	299	229	1.2	1.88	14	120	< 0.5	< 2	0.89	< 0.5	12	131	1220	2.14	< 10	< 1	0.77	30	1.04	145	48
H567405	299	229	1.6	1.47	16	100	< 0.5	< 2	1.24	< 0.5	13	135	1915	2.27	< 10	< 1	0.49	20	0.60	100	55
H567406	299	229	1.8	1.24	8	90	< 0.5	< 2	0.85	< 0.5	13	124	2280	1.94	< 10	< 1	0.43	20	0.58	95	93
H567407	299	229	1.2	1.08	16	80	< 0.5	8	1.00	< 0.5	13	126	1770	1.81	< 10	< 1	0.41	20	0.41	80	112
H567408	299	229	1.6	1.13	6	100	< 0.5	4	1.33	0.5	12	107	1790	2.09	< 10	< 1	0.39	20	0.41	115	178
H567409	299	229	1.6	0.79	4	110	< 0.5	4	1.09	< 0.5	11	130	1815	1.57	< 10	< 1	0.33	30	0.24	80	39
H567410	299	229	0.8	1.48	22	130	< 0.5	< 2	1.00	< 0.5	15	92	1400	2.13	< 10	< 1	0.52	20	0.72	135	60
H567411	299	229	1.6	1.74	34	120	< 0.5	8	0.97	< 0.5	17	104	1820	2.49	< 10	< 1	0.64	10	0.94	140	81
H567412	299	229	2.0	2.46	14	170	< 0.5	< 2	1.21	0.5	19	78	3100	3.33	< 10	< 1	1.09	< 10	1.38	205	79
H567413	299	229	1.8	3.51	6	130	< 0.5	16	1.56	0.5	19	73	2990	3.91	< 10	< 1	1.85	< 10	2.13	220	31
H567414	299	229	1.6	3.37	24	160	< 0.5	4	1.25	< 0.5	33	68	2680	4.93	< 10	< 1	1.73	10	1.96	195	61
H567415	299	229	1.6	3.35	18	330	< 0.5	8	1.31	< 0.5	15	75	2690	3.65	< 10	< 1	1.68	10	1.97	215	55
H567416	299	229	1.2	3.31	16	180	< 0.5	4	1.26	< 0.5	25	89	2190	4.68	< 10	< 1	1.62	10	1.89	290	17
H567417	299	229	2.2	2.14	8	140	< 0.5	2	2.09	< 0.5	11	149	3110	2.57	< 10	< 1	1.05	20	1.24	250	90
H567418	299	229	1.4	0.93	24	90	< 0.5	< 2	1.67	< 0.5	13	142	1735	1.78	< 10	< 1	0.40	30	0.31	125	257
H567419	299	229	2.0	1.19	14	160	< 0.5	4	1.67	< 0.5	11	174	2830	1.48	< 10	< 1	0.51	30	0.51	125	93
H567420	299	229	1.2	1.16	4	160	< 0.5	< 2	1.32	< 0.5	12	152	1975	1.44	< 10	< 1	0.52	20	0.60	115	154
H567421	299	229	1.8	1.11	4	110	< 0.5	< 2	1.29	< 0.5	8	139	2280	1.38	< 10	< 1	0.52	20	0.70	95	120
H567422	299	229	1.4	1.28	10	130	< 0.5	6	1.47	< 0.5	11	154	2040	1.58	< 10	< 1	0.53	20	0.78	105	91
H567423	299	229	1.6	1.01	6	90	< 0.5	< 2	1.85	< 0.5	14	149	2660	1.92	< 10	< 1	0.43	20	0.58	120	80
H567424	299	229	1.4	1.31	10	120	< 0.5	< 2	1.63	< 0.5	18	164	1930	2.13	< 10	< 1	0.53	10	0.77	135	60
H567425	299	229	1.6	1.69	14	130	< 0.5	6	1.40	< 0.5	16	210	2630	2.23	< 10	< 1	0.70	20	0.97	140	62
H567426	299	229	1.8	1.75	18	130	< 0.5	2	1.13	< 0.5	21	167	2500	2.10	< 10	< 1	0.65	20	0.99	105	117
H567427	299	229	1.6	1.47	14	140	< 0.5	< 2	1.32	< 0.5	10	171	2460	1.65	< 10	< 1	0.59	30	0.68	100	344

CERTIFICATION:

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.o: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
Y1A 3S9

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CERTIFICATE OF ANALYSIS A9325130

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567388	299	229	0.04	3	360	12	< 2	1	21	< 0.01	< 10	< 10	15	< 10	40
H567389	299	229	0.04	4	630	16	2	10	18	0.11	< 10	< 10	75	< 10	54
H567390	299	229	0.04	1	330	20	< 2	1	26	< 0.01	< 10	10	10	< 10	48
H567391	299	229	0.10	2	880	12	< 2	9	125	0.08	< 10	< 10	65	< 10	48
H567392	299	229	0.03	3	460	16	< 2	2	54	0.01	< 10	< 10	20	< 10	28
H567393	299	229	0.02	3	400	8	< 2	1	18	0.01	< 10	< 10	18	< 10	28
H567394	299	229	0.04	2	480	6	< 2	3	25	0.02	< 10	< 10	29	< 10	30
H567395	299	229	0.09	2	540	14	< 2	5	320	0.04	< 10	< 10	41	< 10	46
H567396	299	229	0.08	2	490	8	< 2	3	183	0.05	< 10	< 10	38	< 10	32
H567397	299	229	0.04	2	620	6	2	3	26	0.03	< 10	10	34	< 10	22
H567398	299	229	0.10	1	530	2	< 2	4	77	0.04	< 10	< 10	36	< 10	32
H567399	299	229	0.05	2	460	8	2	2	38	0.01	< 10	< 10	21	< 10	28
H567400	299	229	0.03	2	420	14	< 2	1	21	0.01	< 10	< 10	14	< 10	28
H567401	299	229	0.01	2	250	6	< 2	< 1	13	< 0.01	< 10	< 10	5	< 10	26
H567402	299	229	0.01	2	240	8	2	< 1	16	< 0.01	< 10	< 10	5	< 10	26
H567403	299	229	0.01	2	210	4	2	< 1	25	< 0.01	< 10	< 10	5	< 10	20
H567404	299	229	0.04	2	460	6	< 2	8	40	0.05	< 10	< 10	58	< 10	32
H567405	299	229	0.03	2	400	12	< 2	2	27	< 0.01	< 10	< 10	20	< 10	30
H567406	299	229	0.04	1	400	8	< 2	3	23	< 0.01	< 10	< 10	24	< 10	30
H567407	299	229	0.03	1	380	4	< 2	2	25	< 0.01	< 10	< 10	18	< 10	22
H567408	299	229	0.03	2	390	< 2	< 2	2	32	< 0.01	< 10	< 10	19	< 10	28
H567409	299	229	0.02	2	250	2	< 2	1	25	< 0.01	< 10	< 10	10	< 10	18
H567410	299	229	0.06	3	430	4	< 2	6	61	0.03	< 10	< 10	40	< 10	26
H567411	299	229	0.05	3	530	8	< 2	6	52	0.06	< 10	< 10	48	< 10	24
H567412	299	229	0.07	3	810	4	< 2	12	93	0.14	< 10	< 10	96	< 10	38
H567413	299	229	0.15	1	2040	14	< 2	23	203	0.27	< 10	< 10	183	10	44
H567414	299	229	0.07	3	940	6	< 2	19	124	0.19	< 10	< 10	154	10	36
H567415	299	229	0.07	5	880	6	< 2	18	193	0.18	< 10	< 10	158	< 10	48
H567416	299	229	0.11	4	1160	12	< 2	16	103	0.21	< 10	< 10	132	10	54
H567417	299	229	0.08	3	960	8	< 2	10	52	0.11	< 10	< 10	82	< 10	44
H567418	299	229	0.04	1	320	2	< 2	3	30	0.01	< 10	< 10	21	< 10	18
H567419	299	229	0.03	3	440	6	< 2	4	39	0.02	< 10	< 10	31	< 10	16
H567420	299	229	0.06	3	410	2	< 2	5	32	0.03	< 10	< 10	38	< 10	16
H567421	299	229	0.04	3	420	10	< 2	5	34	0.03	< 10	< 10	39	< 10	16
H567422	299	229	0.07	3	440	2	< 2	6	41	0.03	< 10	< 10	45	< 10	20
H567423	299	229	0.04	3	450	8	< 2	4	44	0.02	< 10	< 10	30	< 10	18
H567424	299	229	0.06	3	530	6	< 2	6	53	0.03	< 10	< 10	40	< 10	22
H567425	299	229	0.09	4	510	< 2	< 2	8	66	0.06	< 10	< 10	57	< 10	22
H567426	299	229	0.08	2	530	6	< 2	7	43	0.03	< 10	< 10	51	< 10	22
H567427	299	229	0.06	3	420	6	2	5	45	0.03	< 10	< 10	41	< 10	18

CERTIFICATION:

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Project : CASINO 249
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Page Number :3-A
Total Pages :3
Certificate Date: 28-NOV-93
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Account :FC

CERTIFICATE OF ANALYSIS A9325130

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
H567428	299	229	1.6	1.76	24	130	< 0.5	2	1.33	< 0.5	20	148	2700	2.26	< 10	< 1	0.74	20	0.88	120	114
H567429	299	229	1.2	2.32	8	160	< 0.5	2	1.33	< 0.5	19	127	1825	2.48	< 10	< 1	1.00	20	1.22	150	42
H567430	299	229	1.8	1.93	14	140	< 0.5	14	1.52	< 0.5	16	191	2590	2.32	< 10	< 1	0.96	20	1.08	145	118
H567431	299	229	2.4	1.33	16	120	< 0.5	< 2	1.99	< 0.5	14	135	3160	1.90	< 10	< 1	0.71	20	0.83	160	337
H567432	299	229	2.6	1.74	6	110	< 0.5	< 2	1.46	< 0.5	17	176	3600	2.39	< 10	< 1	0.89	20	1.01	150	118
H567433	299	229	2.0	1.56	8	90	< 0.5	8	1.50	< 0.5	11	95	2760	2.40	< 10	< 1	0.80	20	0.93	145	177
H567434	299	229	2.0	1.25	6	90	< 0.5	8	1.62	< 0.5	17	99	2210	2.06	< 10	< 1	0.50	30	0.50	120	62
H567435	299	229	1.6	1.67	10	130	< 0.5	2	1.23	< 0.5	17	115	2490	2.22	< 10	< 1	0.76	20	0.90	125	74
H567436	299	229	1.4	1.54	6	70	< 0.5	< 2	1.58	< 0.5	20	198	1885	2.56	< 10	< 1	0.59	20	0.75	100	264
H567437	299	229	1.8	1.88	4	130	< 0.5	6	1.71	< 0.5	14	201	2820	2.12	< 10	< 1	0.88	20	1.11	125	787

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Page Number :3-B
Total Pages :3
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CERTIFICATE OF ANALYSIS A9325130

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
H567428	299	229	0.08	3	530	10	< 2	8	51	0.04	< 10	< 10	53	< 10	22
H567429	299	229	0.13	2	540	10	< 2	11	53	0.08	< 10	< 10	75	< 10	32
H567430	299	229	0.08	3	400	14	< 2	9	114	0.08	< 10	< 10	73	< 10	42
H567431	299	229	0.06	2	400	12	2	7	137	0.05	< 10	< 10	54	< 10	24
H567432	299	229	0.07	4	460	10	2	8	44	0.06	< 10	< 10	65	< 10	22
H567433	299	229	0.04	2	520	12	< 2	8	45	0.04	< 10	< 10	58	< 10	22
H567434	299	229	0.03	3	440	8	2	5	48	0.01	< 10	< 10	35	< 10	16
H567435	299	229	0.06	4	480	4	< 2	9	57	0.06	< 10	< 10	64	< 10	22
H567436	299	229	0.06	3	490	10	< 2	6	53	0.03	< 10	< 10	43	< 10	20
H567437	299	229	0.08	2	400	6	4	8	59	0.06	< 10	< 10	74	< 10	20

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Project : CASINO 250
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-NOV-93
Invoice No. :I9325131
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325131

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams
941697	208	274	0.03	0.044	0.10	7200
941698	208	276	0.03	0.020	0.17	8200
941699	208	276	0.03	0.055	0.14	10200
941700	208	276	0.03	0.049	0.21	10400
941701	208	276	0.05	0.072	0.24	10200
941702	208	276	0.03	0.039	0.27	10100
941703	208	276	0.03	0.060	0.41	9100
941704	208	276	0.03	0.080	0.51	9100
941705	208	276	0.03	0.061	0.27	9100
941706	208	276	0.03	0.058	0.27	9000
941707	208	276	0.03	0.089	0.34	9800
941708	208	276	0.04	0.097	0.27	9000
941709	208	276	0.04	0.075	0.34	7500
941710	208	276	0.03	0.075	0.14	11500
941711	208	276	0.04	0.043	0.10	9100
941712	208	276	0.10	0.038	0.07	11000
941713	208	274	0.07	0.039	0.21	6000
941714	208	274	0.23	0.065	0.41	6800
941715	208	274	0.15	0.046	0.24	5900
941716	208	274	0.32	0.055	0.27	5100
941717	208	276	0.24	0.052	0.31	10700
941718	208	276	0.31	0.064	0.45	7600
941719	208	276	0.20	0.071	0.45	10200
941720	208	274	0.52	0.098	0.45	6500
941721	208	276	0.21	0.069	0.34	10800
941722	208	276	0.24	0.054	0.31	11000
941723	208	273	0.27	0.075	0.27	12000
941724	208	276	0.34	0.054	0.24	8200
941725	208	273	0.44	0.053	0.38	12000
941726	208	276	0.27	0.044	0.24	7800
941727	208	274	0.32	0.067	0.21	6100
941728	208	276	0.35	0.053	0.34	8000
941729	208	276	0.36	0.055	0.27	9000
941730	208	276	0.45	0.047	0.55	9100
941731	208	276	0.79	0.048	0.41	10800
941732	208	276	0.13	0.016	0.17	8400
941733	208	273	0.24	0.109	0.27	13000
941734	208	273	0.35	0.043	0.17	12300
941735	208	276	0.33	0.041	0.17	9700
941736	208	276	0.27	0.074	0.24	10000

CERTIFICATION: Said Zeinab

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 250
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 26-NOV-93
Invoice No. :I9325131
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325131

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
941737	208	276	0.27	0.093	0.21	10600						
941738	208	276	0.54	0.056	0.58	10400						
941739	208	276	0.23	0.067	0.17	7800						
941740	208	274	0.11	0.028	0.07	7000						
941741	208	274	0.11	0.046	0.10	7200						
941742	208	273	0.17	0.017	0.17	14400						
941743	208	276	0.17	0.033	0.24	10570						
941744	208	276	0.19	0.015	0.41	10500						
941745	208	276	0.12	0.025	0.14	9600						
941746	208	276	0.11	0.018	0.10	11200						
941747	208	276	0.16	0.047	0.17	10800						
941748	208	273	0.11	0.050	0.10	14200						
941749	208	273	0.13	0.072	0.14	12000						
941750	208	276	0.17	0.027	0.14	10400						
941751	208	276	0.12	0.037	0.10	8600						
941752	208	276	0.14	0.118	0.21	11800						
941753	208	276	0.24	0.059	0.31	8200						
941754	208	276	0.26	0.038	0.38	8000						
941755	208	273	0.18	0.013	0.24	12800						
941756	208	273	0.15	0.030	0.21	12600						
941757	208	273	0.16	0.048	0.14	12800						
941758	208	273	0.04	0.011	0.03	13400						
941759	208	276	0.13	0.019	0.14	10400						
941760	208	273	0.13	0.016	0.17	13800						
941761	208	276	0.12	0.019	0.17	9000						
941762	208	273	0.13	0.046	0.07	12400						
941763	208	273	0.14	0.085	0.14	13000						
941764	208	273	0.21	0.099	0.27	13400						
941765	208	274	0.11	0.031	0.14	6200						
941766	208	273	0.24	0.074	0.38	12000						
941767	208	273	0.23	0.077	0.31	12200						
941768	208	276	0.11	0.018	0.07	10200						
941769	208	276	0.05	0.013	0.07	11200						
941770	208	276	0.07	0.029	< 0.03	11000						
941771	208	276	0.13	0.072	0.10	11800						
941772	208	273	0.15	0.083	0.14	12000						
941773	208	273	0.18	0.092	0.27	13000						
941774	208	276	0.11	0.054	0.21	11200						
941775	208	276	0.13	0.067	0.27	11000						
941776	208	276	0.15	0.056	0.14	11200						

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CERTIFICATE OF ANALYSIS A9325131

SAMPLE	PREP CODE		Cu %	MoS2 %	Au g/t	Weight grams						
941777	208	276	0.18	0.166	0.21	10800						
941778	208	273	0.14	0.143	0.21	12200						
941779	208	276	0.13	0.073	0.17	11000						
941780	208	276	0.13	0.106	0.27	11600						
941781	208	276	0.14	0.074	0.17	11800						
941782	208	276	0.17	0.040	0.21	11200						
941783	208	273	0.19	0.094	0.34	12000						
941784	208	273	0.25	0.073	0.34	12000						
941785	208	276	0.07	0.032	0.03	11800						
941786	208	276	0.15	0.039	0.14	11400						

CERTIFICATION: Said Zeinab

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CERTIFICATE OF ANALYSIS A9325132

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
941697	299	229	1.0	2.45	16	320	< 0.5	6	0.12	< 0.5	1	40	322	4.57	< 10	< 1	0.44	20	0.54	110	246
941698	299	229	1.2	3.00	< 2	260	< 0.5	6	0.10	< 0.5	2	37	295	4.53	< 10	< 1	0.40	30	0.81	120	110
941699	299	229	1.6	1.30	6	350	< 0.5	8	0.06	< 0.5	1	43	317	6.49	< 10	< 1	0.45	30	0.33	65	311
941700	299	229	1.0	1.39	6	310	< 0.5	2	0.05	< 0.5	< 1	47	254	4.24	< 10	< 1	0.49	20	0.43	55	295
941701	299	229	1.0	1.98	< 2	200	< 0.5	6	0.06	< 0.5	< 1	53	464	8.19	< 10	< 1	0.55	20	0.68	95	408
941702	299	229	0.8	2.06	4	130	< 0.5	< 2	0.03	< 0.5	1	50	265	5.62	< 10	< 1	0.63	20	0.81	100	218
941703	299	229	1.2	2.30	< 2	100	< 0.5	< 2	0.02	< 0.5	1	53	250	4.93	< 10	< 1	0.48	20	0.78	105	352
941704	299	229	1.8	2.15	4	130	< 0.5	4	0.02	< 0.5	1	61	286	3.98	< 10	< 1	0.53	30	0.73	100	487
941705	299	229	1.4	2.43	< 2	170	< 0.5	< 2	0.03	< 0.5	< 1	67	301	4.81	< 10	< 1	0.37	30	0.50	65	366
941706	299	229	1.4	1.90	4	120	< 0.5	2	0.02	< 0.5	1	56	320	5.71	< 10	< 1	0.53	30	0.71	100	329
941707	299	229	1.2	1.95	6	140	< 0.5	6	0.02	< 0.5	< 1	49	282	5.40	< 10	< 1	0.54	30	0.75	105	557
941708	299	229	1.2	1.27	16	150	< 0.5	4	0.02	< 0.5	< 1	58	380	5.50	< 10	< 1	0.35	30	0.30	45	581
941709	299	229	0.8	1.41	18	180	< 0.5	< 2	0.03	< 0.5	< 1	60	379	5.17	< 10	< 1	0.38	60	0.48	55	444
941710	299	229	1.2	1.33	6	120	< 0.5	6	0.02	< 0.5	3	69	245	5.33	< 10	< 1	0.49	30	0.50	85	461
941711	299	229	1.0	2.00	26	150	< 0.5	< 2	0.02	< 0.5	6	53	356	5.83	< 10	< 1	0.76	30	0.76	120	260
941712	299	229	0.6	2.35	4	90	< 0.5	< 2	0.02	< 0.5	8	53	1050	4.66	< 10	< 1	0.87	30	0.82	140	215
941713	299	229	1.2	2.39	6	170	< 0.5	< 2	0.03	< 0.5	4	70	680	5.31	< 10	< 1	0.79	40	0.77	115	235
941714	299	229	1.8	2.46	< 2	120	< 0.5	2	0.02	< 0.5	9	69	2250	4.72	< 10	< 1	0.67	20	0.60	100	369
941715	299	229	1.4	2.04	6	80	< 0.5	4	0.01	< 0.5	6	70	1475	5.34	< 10	< 1	0.51	20	0.54	105	276
941716	299	229	1.8	2.24	12	90	< 0.5	2	0.01	< 0.5	13	51	3190	3.38	< 10	< 1	0.48	20	0.48	85	313
941717	299	229	1.8	1.90	22	70	< 0.5	2	0.01	< 0.5	12	74	2370	4.61	< 10	< 1	0.42	10	0.43	85	277
941718	299	229	2.2	1.89	8	70	< 0.5	4	0.01	< 0.5	9	63	3050	3.22	< 10	< 1	0.45	20	0.53	105	343
941719	299	229	2.6	1.85	36	60	< 0.5	6	0.01	< 0.5	6	66	1935	2.50	< 10	< 1	0.39	20	0.36	60	398
941720	299	229	2.4	2.13	28	70	< 0.5	2	0.02	< 0.5	13	52	5190	4.96	< 10	< 1	0.40	30	0.32	70	538
941721	299	229	1.6	2.69	20	90	< 0.5	2	0.02	< 0.5	6	48	1975	3.74	< 10	< 1	0.54	30	0.66	120	389
941722	299	229	1.2	2.64	12	80	< 0.5	< 2	0.02	< 0.5	11	63	2390	3.91	< 10	< 1	0.55	20	0.58	105	326
941723	299	229	1.0	2.34	22	80	< 0.5	8	0.02	< 0.5	8	55	2580	4.00	< 10	< 1	0.60	20	0.82	125	417
941724	299	229	1.0	2.19	18	70	< 0.5	< 2	0.02	< 0.5	8	61	3180	5.44	< 10	< 1	0.47	20	0.68	110	292
941725	299	229	2.0	2.33	12	70	< 0.5	4	0.03	< 0.5	16	66	4350	3.76	< 10	< 1	0.44	20	0.50	90	304
941726	299	229	1.0	2.09	2	120	< 0.5	2	0.07	< 0.5	10	64	2530	3.81	< 10	< 1	0.59	20	1.10	185	247
941727	299	229	1.0	1.84	< 2	60	< 0.5	10	0.08	< 0.5	13	62	2970	7.66	< 10	< 1	0.44	20	0.86	160	331
941728	299	229	1.6	2.32	4	90	< 0.5	< 2	0.07	< 0.5	11	60	3590	4.99	< 10	< 1	0.51	20	1.00	180	338
941729	299	229	1.6	2.06	14	110	< 0.5	10	0.08	< 0.5	16	83	3490	5.03	< 10	< 1	0.62	20	1.04	175	306
941730	299	229	1.6	2.86	6	110	< 0.5	12	0.11	< 0.5	17	78	4330	7.57	< 10	< 1	1.05	30	1.59	260	244
941731	299	229	2.4	3.36	56	130	< 0.5	12	0.07	< 0.5	24	80	7960	3.92	< 10	< 1	0.72	30	0.86	140	278
941732	299	229	0.8	2.97	18	170	< 0.5	8	0.30	0.5	21	69	1355	3.74	< 10	< 1	1.25	50	1.41	380	96
941733	299	229	1.8	2.98	112	130	< 0.5	< 2	0.21	0.5	19	66	2350	5.35	< 10	< 1	0.84	30	0.90	230	602
941734	299	229	1.4	2.22	40	100	< 0.5	8	0.12	< 0.5	19	68	3400	6.72	< 10	< 1	0.67	10	0.97	200	220
941735	299	229	1.2	2.68	6	120	< 0.5	< 2	0.16	< 0.5	14	60	3130	6.72	< 10	< 1	1.03	20	1.46	290	193
941736	299	229	1.6	3.03	6	120	< 0.5	4	0.23	< 0.5	12	78	2520	4.00	< 10	< 1	1.27	20	1.79	315	411

CERTIFICATION:

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO 250
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CERTIFICATE OF ANALYSIS A9325132

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
941697	299	229	0.04	6	960	8	2	5	65	0.03	< 10	< 10	42	< 10	20
941698	299	229	0.05	8	850	12	< 2	5	70	0.04	< 10	< 10	54	< 10	28
941699	299	229	0.04	6	870	8	2	4	59	0.02	< 10	< 10	61	< 10	26
941700	299	229	0.02	2	580	< 2	< 2	3	46	0.03	< 10	< 10	37	< 10	14
941701	299	229	0.03	7	1030	6	2	6	35	0.06	< 10	< 10	86	< 10	18
941702	299	229	0.02	7	530	8	< 2	6	26	0.08	< 10	< 10	79	< 10	20
941703	299	229	0.02	6	480	4	< 2	7	27	0.07	< 10	< 10	80	< 10	22
941704	299	229	0.02	5	430	4	2	7	39	0.06	< 10	< 10	66	< 10	22
941705	299	229	0.02	3	750	< 2	4	6	39	0.03	< 10	< 10	67	< 10	16
941706	299	229	0.03	6	520	8	< 2	5	70	0.04	< 10	< 10	77	< 10	22
941707	299	229	0.02	4	400	2	2	6	82	0.06	< 10	< 10	83	< 10	22
941708	299	229	0.01	3	850	8	4	3	128	0.02	< 10	< 10	59	< 10	8
941709	299	229	0.01	4	960	6	4	3	256	0.02	< 10	< 10	49	< 10	12
941710	299	229	0.01	5	450	< 2	4	3	104	0.04	< 10	< 10	59	< 10	14
941711	299	229	0.01	7	1210	12	2	6	60	0.07	< 10	< 10	73	< 10	32
941712	299	229	0.01	14	980	< 2	< 2	6	166	0.09	< 10	< 10	66	< 10	24
941713	299	229	0.01	12	930	2	< 2	7	182	0.09	< 10	< 10	100	< 10	20
941714	299	229	0.01	9	410	2	4	7	62	0.07	< 10	< 10	94	< 10	16
941715	299	229	0.02	8	450	4	4	5	20	0.04	< 10	< 10	103	< 10	20
941716	299	229	0.02	8	240	< 2	< 2	4	22	0.04	< 10	< 10	65	< 10	14
941717	299	229	0.01	11	560	4	2	4	23	0.04	< 10	< 10	82	70	16
941718	299	229	0.01	8	450	6	< 2	4	56	0.04	< 10	< 10	83	20	16
941719	299	229	0.01	4	810	2	2	6	16	0.02	< 10	< 10	55	30	16
941720	299	229	0.01	9	650	4	4	6	28	0.03	< 10	< 10	73	30	16
941721	299	229	0.01	9	830	< 2	2	8	33	0.05	< 10	10	81	30	22
941722	299	229	0.01	9	740	12	2	8	19	0.06	< 10	10	85	40	20
941723	299	229	0.02	8	830	8	< 2	6	27	0.06	< 10	< 10	81	20	26
941724	299	229	0.02	11	760	2	4	6	24	0.04	< 10	< 10	97	50	20
941725	299	229	0.01	10	560	< 2	< 2	6	15	0.03	< 10	< 10	66	10	20
941726	299	229	0.02	10	730	4	< 2	6	39	0.08	< 10	< 10	93	20	32
941727	299	229	0.01	12	650	4	2	5	29	0.04	< 10	< 10	101	20	24
941728	299	229	0.02	10	780	6	4	6	29	0.05	< 10	< 10	88	30	28
941729	299	229	0.02	11	830	2	2	5	24	0.06	< 10	< 10	95	40	28
941730	299	229	0.02	13	1030	4	< 2	9	26	0.10	< 10	< 10	152	110	40
941731	299	229	0.01	20	1330	10	< 2	8	47	0.06	< 10	10	102	110	32
941732	299	229	0.03	13	1090	< 2	< 2	9	17	0.17	< 10	< 10	97	260	76
941733	299	229	0.01	16	860	6	20	7	26	0.05	< 10	< 10	90	20	62
941734	299	229	0.01	16	1040	4	2	6	59	0.07	< 10	< 10	123	30	32
941735	299	229	0.02	14	1350	8	< 2	11	130	0.14	< 10	< 10	149	30	42
941736	299	229	0.03	12	1410	16	2	12	131	0.15	< 10	< 10	121	10	48

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SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
941737	299	229	1.2	2.91	4	110	< 0.5	< 2	0.13	< 0.5	13	92	2460	6.02	< 10	< 1	1.01	30	1.50	270	467
941738	299	229	3.2	3.28	< 2	100	< 0.5	2	0.10	< 0.5	17	57	5230	7.78	< 10	< 1	0.71	30	1.17	235	289
941739	299	229	1.4	3.37	< 2	100	< 0.5	2	0.23	< 0.5	16	63	2140	6.57	< 10	< 1	1.16	20	1.63	230	383
941740	299	229	0.6	2.43	2	110	< 0.5	< 2	0.12	< 0.5	7	83	1040	3.76	< 10	< 1	0.74	10	1.20	140	149
941741	299	229	0.8	2.30	< 2	90	< 0.5	6	0.11	< 0.5	10	68	1020	3.67	< 10	< 1	0.74	10	1.15	150	249
941742	299	229	1.4	2.53	8	110	< 0.5	4	0.25	0.5	14	76	1580	5.98	< 10	< 1	0.99	20	1.37	295	82
941743	299	229	1.4	2.53	22	140	< 0.5	8	0.19	< 0.5	15	78	1615	3.31	< 10	< 1	0.84	10	1.35	200	177
941744	299	229	1.6	2.73	< 2	190	< 0.5	4	0.23	1.5	13	74	1785	2.90	< 10	< 1	0.95	20	1.56	210	80
941745	299	229	0.8	2.48	< 2	120	< 0.5	8	0.21	< 0.5	12	84	1125	4.79	< 10	< 1	0.94	10	1.51	210	141
941746	299	229	0.6	2.02	< 2	150	< 0.5	< 2	0.25	1.0	11	58	988	4.62	< 10	< 1	0.84	30	1.26	240	95
941747	299	229	1.2	2.01	< 2	80	< 0.5	< 2	0.32	1.0	19	101	1375	5.83	< 10	< 1	0.78	20	1.27	310	235
941748	299	229	0.8	1.46	10	120	< 0.5	< 2	0.27	< 0.5	18	90	1040	6.16	< 10	< 1	0.71	20	0.90	375	283
941749	299	229	1.2	1.17	4	90	< 0.5	2	0.28	1.0	28	64	1205	6.31	< 10	< 1	0.48	20	0.66	475	376
941750	299	229	1.2	2.22	6	70	< 0.5	2	0.22	< 0.5	24	96	1575	7.16	< 10	< 1	0.80	20	0.99	185	149
941751	299	229	0.8	1.88	< 2	70	< 0.5	2	0.26	< 0.5	17	78	1155	6.14	< 10	< 1	0.77	20	0.91	345	204
941752	299	229	1.4	1.32	< 2	50	< 0.5	< 2	0.30	0.5	22	70	1375	6.76	< 10	< 1	0.55	20	0.81	355	634
941753	299	229	2.0	1.73	< 2	130	< 0.5	< 2	0.25	0.5	12	139	2270	4.03	< 10	< 1	0.73	20	0.92	225	328
941754	299	229	2.2	2.08	< 2	130	< 0.5	2	0.38	0.5	20	75	2620	4.69	< 10	< 1	0.75	20	1.16	175	194
941755	299	229	1.4	1.77	< 2	170	< 0.5	< 2	0.85	0.5	13	85	1705	3.20	< 10	< 1	0.87	20	1.10	235	66
941756	299	229	1.6	1.34	4	70	< 0.5	6	2.27	< 0.5	15	88	1435	3.67	< 10	< 1	0.65	30	1.03	205	154
941757	299	229	1.8	1.48	2	60	< 0.5	6	1.38	< 0.5	21	89	1585	4.25	< 10	< 1	0.75	20	0.99	145	237
941758	299	229	0.4	1.26	6	200	< 0.5	4	1.46	< 0.5	7	63	430	2.54	< 10	< 1	0.73	20	1.02	145	65
941759	299	229	1.2	1.08	< 2	140	< 0.5	2	1.44	< 0.5	11	77	1250	3.12	< 10	< 1	0.61	20	0.86	145	102
941760	299	229	1.2	1.57	< 2	230	< 0.5	8	3.44	< 0.5	9	68	1335	3.42	< 10	< 1	0.72	20	1.38	260	91
941761	299	229	1.4	1.42	< 2	130	< 0.5	2	1.77	< 0.5	15	46	1300	2.95	< 10	< 1	0.62	20	0.82	145	122
941762	299	229	1.6	1.48	< 2	80	< 0.5	< 2	1.46	< 0.5	21	33	1345	4.00	< 10	< 1	0.52	20	0.66	160	272
941763	299	229	1.4	1.09	< 2	110	< 0.5	< 2	1.20	< 0.5	14	75	1370	3.94	< 10	< 1	0.58	30	0.74	190	485
941764	299	229	2.2	0.89	< 2	30	< 0.5	8	1.37	< 0.5	27	58	2200	5.41	< 10	< 1	0.49	30	0.69	190	541
941765	299	229	0.8	1.06	2	150	< 0.5	< 2	1.61	< 0.5	14	64	1055	2.84	< 10	< 1	0.54	20	1.13	225	180
941766	299	229	3.0	0.75	< 2	40	< 0.5	< 2	1.44	< 0.5	48	91	2410	5.49	< 10	< 1	0.32	20	0.60	200	385
941767	299	229	3.4	0.63	< 2	40	< 0.5	6	1.65	< 0.5	51	55	2430	4.61	< 10	< 1	0.33	20	0.82	225	435
941768	299	229	1.2	1.29	< 2	70	< 0.5	< 2	1.56	< 0.5	19	69	1055	3.47	< 10	< 1	0.64	20	1.10	195	94
941769	299	229	0.6	1.79	< 2	240	< 0.5	< 2	1.14	< 0.5	15	79	526	3.49	< 10	< 1	0.91	20	1.48	230	70
941770	299	229	0.8	1.87	< 2	130	< 0.5	< 2	1.41	< 0.5	14	75	655	3.79	< 10	< 1	0.80	20	1.25	180	166
941771	299	229	1.6	0.79	4	60	< 0.5	< 2	1.82	< 0.5	31	67	1425	5.79	< 10	< 1	0.35	30	0.70	270	420
941772	299	229	1.6	0.97	4	90	< 0.5	< 2	2.05	< 0.5	20	111	1620	4.61	< 10	< 1	0.49	20	0.98	320	463
941773	299	229	2.4	0.85	4	40	< 0.5	2	1.38	< 0.5	23	67	1960	4.74	< 10	< 1	0.44	30	0.68	185	546
941774	299	229	1.4	0.74	6	110	< 0.5	< 2	2.62	< 0.5	7	86	1140	3.53	< 10	< 1	0.35	30	1.09	255	291
941775	299	229	1.8	0.70	68	90	< 0.5	< 2	1.78	< 0.5	14	65	1335	4.20	< 10	< 1	0.33	40	0.93	280	380
941776	299	229	2.0	0.89	36	60	< 0.5	< 2	1.61	< 0.5	23	90	1560	5.81	< 10	< 1	0.41	40	0.76	200	315

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

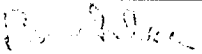
To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 250
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Certificate Date: 28-NOV-93
Invoice No. :19325132
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325132

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
941737	299	229	0.02	15	1140	4	6	10	227	0.10	< 10	< 10	97	< 10	42
941738	299	229	0.02	24	1030	2	4	9	225	0.08	< 10	< 10	113	10	40
941739	299	229	0.02	20	1290	8	< 2	11	48	0.12	< 10	< 10	128	< 10	44
941740	299	229	0.02	12	780	< 2	< 2	7	24	0.08	< 10	< 10	91	< 10	24
941741	299	229	0.02	12	650	6	4	6	19	0.08	< 10	< 10	81	< 10	28
941742	299	229	0.02	16	1070	8	< 2	9	38	0.11	< 10	< 10	127	< 10	38
941743	299	229	0.03	14	720	4	< 2	7	14	0.12	< 10	< 10	70	< 10	28
941744	299	229	0.03	18	810	4	< 2	7	35	0.16	< 10	< 10	71	< 10	30
941745	299	229	0.02	13	770	2	< 2	8	30	0.10	< 10	< 10	106	20	28
941746	299	229	0.02	10	750	2	2	7	12	0.10	< 10	< 10	77	< 10	40
941747	299	229	0.01	12	770	6	2	7	17	0.07	< 10	< 10	89	< 10	50
941748	299	229	0.02	12	740	< 2	< 2	7	40	0.07	< 10	< 10	83	< 10	50
941749	299	229	0.01	10	550	10	4	7	29	0.04	< 10	< 10	79	< 10	62
941750	299	229	0.02	20	810	12	< 2	7	80	0.09	< 10	< 10	106	< 10	32
941751	299	229	0.02	14	740	10	4	7	50	0.09	< 10	< 10	88	< 10	58
941752	299	229	0.01	13	710	6	4	8	50	0.05	< 10	< 10	107	10	58
941753	299	229	0.03	11	520	4	< 2	8	35	0.08	< 10	< 10	100	< 10	48
941754	299	229	0.02	17	720	8	2	8	28	0.10	< 10	< 10	112	< 10	34
941755	299	229	0.04	15	740	< 2	< 2	6	37	0.13	< 10	< 10	59	< 10	34
941756	299	229	0.02	11	760	< 2	4	4	36	0.04	< 10	< 10	35	20	16
941757	299	229	0.03	12	750	12	2	5	33	0.09	< 10	< 10	49	< 10	16
941758	299	229	0.03	6	730	< 2	< 2	6	35	0.11	< 10	< 10	51	< 10	16
941759	299	229	0.03	9	670	< 2	2	5	40	0.08	< 10	< 10	43	< 10	16
941760	299	229	0.02	12	790	4	2	6	75	0.09	< 10	< 10	52	< 10	22
941761	299	229	0.02	12	840	2	2	5	50	0.07	< 10	< 10	40	< 10	18
941762	299	229	0.01	10	560	8	6	5	32	0.03	< 10	< 10	43	< 10	30
941763	299	229	0.01	7	380	4	4	6	36	0.04	< 10	< 10	53	< 10	28
941764	299	229	0.01	11	480	6	4	6	39	0.04	< 10	< 10	50	< 10	22
941765	299	229	0.02	10	700	6	2	6	42	0.08	< 10	< 10	49	< 10	20
941766	299	229	0.01	9	430	8	2	3	27	< 0.01	< 10	60	29	< 10	28
941767	299	229	0.01	9	340	8	2	3	28	0.01	< 10	50	30	< 10	22
941768	299	229	0.02	13	690	4	2	4	42	0.06	< 10	< 10	37	< 10	22
941769	299	229	0.04	15	850	< 2	< 2	8	35	0.14	< 10	< 10	60	< 10	28
941770	299	229	0.03	13	820	< 2	2	6	40	0.11	< 10	< 10	51	< 10	24
941771	299	229	0.01	10	410	12	4	6	20	0.01	< 10	10	41	< 10	24
941772	299	229	0.01	8	490	4	4	8	30	0.03	< 10	< 10	62	< 10	26
941773	299	229	0.01	7	330	4	6	6	31	0.02	< 10	10	48	< 10	22
941774	299	229	0.01	8	430	8	2	8	38	0.02	< 10	< 10	62	< 10	24
941775	299	229	0.01	8	440	6	6	8	31	0.01	< 10	< 10	69	< 10	30
941776	299	229	0.01	10	400	6	6	6	28	0.01	< 10	< 10	54	30	30

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO 250
Comments: CC: PACIFIC SENTINEL GOLD CORP.

Page Number :3-A
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Certificate Date: 28-NOV-93
Invoice No. :I9325132
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Account :FC

CERTIFICATE OF ANALYSIS A9325132

SAMPLE	PREP CODE		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm
941777	299	229	2.0	0.94	14	40	< 0.5	< 2	2.07	< 0.5	30	95	1745	5.88	< 10	< 1	0.45	40	0.92	185	827
941778	299	229	1.6	1.05	12	80	< 0.5	2	1.31	< 0.5	14	54	1355	4.14	< 10	< 1	0.63	30	1.01	185	766
941779	299	229	1.6	0.67	36	80	< 0.5	2	1.72	< 0.5	12	104	1250	4.03	< 10	< 1	0.38	30	0.79	195	364
941780	299	229	1.6	0.66	36	70	< 0.5	6	1.24	< 0.5	13	56	1305	4.75	< 10	< 1	0.37	20	0.85	195	563
941781	299	229	1.4	1.26	8	130	< 0.5	6	1.40	< 0.5	13	81	1410	4.45	< 10	< 1	0.65	20	1.09	220	381
941782	299	229	2.0	1.96	26	190	< 0.5	4	1.45	< 0.5	16	67	1785	3.56	< 10	< 1	0.83	40	1.02	240	226
941783	299	229	2.6	1.04	< 2	60	< 0.5	2	1.67	< 0.5	22	109	1990	5.24	< 10	< 1	0.53	30	0.78	180	550
941784	299	229	3.2	1.44	< 2	40	< 0.5	6	1.82	< 0.5	22	104	2680	5.50	< 10	< 1	0.66	40	1.14	195	410
941785	299	229	1.0	1.47	4	190	< 0.5	< 2	1.46	< 0.5	7	127	729	1.99	< 10	< 1	0.84	30	1.26	140	181
941786	299	229	1.6	1.46	< 2	140	< 0.5	< 2	1.67	< 0.5	10	83	1495	2.10	< 10	< 1	0.73	20	1.27	140	212

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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WHITEHORSE, YT
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Project : CASINO 250
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Invoice No. :19325132
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325132

SAMPLE	PREP CODE		Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
941777	299	229	0.01	13	1000	8	8	7	36	0.02	< 10	< 10	64	30	24
941778	299	229	0.02	7	550	8	4	9	45	0.07	< 10	< 10	85	< 10	22
941779	299	229	0.01	9	480	4	4	7	30	0.02	< 10	< 10	67	< 10	22
941780	299	229	0.01	9	300	< 2	4	6	30	0.02	< 10	< 10	72	10	24
941781	299	229	0.02	8	350	14	2	12	38	0.07	< 10	< 10	110	< 10	28
941782	299	229	0.03	9	430	12	4	12	42	0.06	< 10	< 10	103	< 10	32
941783	299	229	0.02	10	340	4	4	7	39	0.04	< 10	< 10	108	10	22
941784	299	229	0.02	12	240	16	4	10	63	0.06	< 10	< 10	118	20	28
941785	299	229	0.03	6	300	4	2	11	104	0.09	< 10	< 10	83	< 10	24
941786	299	229	0.04	6	420	6	< 2	10	95	0.09	< 10	< 10	66	< 10	22

CERTIFICATION:

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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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To: ARCHER CATHRO & ASSOC. (1981) LTD.
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Project : CASINO PLACER
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 14-AUG-93
Invoice No. :I9318555
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318555

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S 05917	201	229	15	< 0.2	2.06	52	330	< 0.5	< 2	0.45	1.0	26	33	85	11.05	10	< 1	0.05	20	0.53	1070
S 05921	201	229	25	0.2	1.80	38	260	< 0.5	< 2	0.46	1.0	33	26	94	6.44	10	< 1	0.08	10	0.62	890
S 05923	201	229	45	0.4	3.86	28	600	< 0.5	< 2	0.62	2.0	15	14	718	6.06	20	< 1	0.63	30	1.45	720
S 05924	201	229	35	0.8	1.26	12	190	< 0.5	< 2	0.50	0.5	9	32	40	3.00	10	< 1	0.13	20	0.57	300
S 05925	201	229	335	1.2	1.39	16	440	< 0.5	< 2	0.30	< 0.5	10	31	24	3.32	10	< 1	0.21	10	0.56	350
S 05926	201	229	200	1.2	2.25	30	290	< 0.5	< 2	0.33	1.5	20	35	51	4.18	10	< 1	0.08	10	0.71	3450
S 05927	201	229	55	2.0	1.79	36	230	< 0.5	< 2	0.30	0.5	13	29	50	3.42	10	< 1	0.07	10	0.57	1665
S 05928	201	229	10	0.4	1.94	18	390	< 0.5	6	0.56	< 0.5	12	28	40	3.36	10	< 1	0.10	30	0.63	740
S 05929	201	229	100	< 0.2	2.09	134	290	< 0.5	2	0.47	0.5	16	37	50	3.99	10	< 1	0.22	10	1.03	535
S 05930	201	229	70	< 0.2	1.37	32	490	< 0.5	< 2	0.15	< 0.5	10	20	631	13.60	10	< 1	0.26	< 10	0.50	365
S 05934	201	229	< 5	< 0.2	2.04	34	240	< 0.5	< 2	0.46	0.5	10	34	18	2.93	10	< 1	0.06	10	0.64	655
S 05935	201	229	40	0.2	1.84	80	250	< 0.5	< 2	0.54	1.0	15	39	52	3.57	10	< 1	0.11	20	0.73	510
S 05936	201	229	< 5	4.8	2.07	184	820	< 0.5	< 2	0.44	21.5	23	32	64	5.95	10	< 1	0.11	40	0.68	5770
S 05937	201	229	< 5	0.2	1.40	16	210	< 0.5	< 2	0.48	1.0	11	31	18	3.28	10	1	0.08	10	0.59	800
S 05938	201	229	< 5	< 0.2	1.72	154	510	< 0.5	< 2	0.55	0.5	30	49	28	8.34	10	< 1	0.15	20	0.51	1200
S 05940	201	229	< 5	5.2	1.74	148	390	< 0.5	< 2	0.47	2.0	13	17	46	7.08	10	< 1	0.42	40	0.76	595
S 05941	203	205	< 5	0.8	1.16	120	860	< 0.5	< 2	0.44	8.5	18	63	36	5.50	10	< 1	0.22	30	0.49	4550
S 05943	203	205	30	< 0.2	2.24	12	210	< 0.5	< 2	0.81	0.5	14	111	44	3.21	10	< 1	0.22	10	1.11	560
S 05944	203	205	< 5	< 0.2	1.88	48	190	< 0.5	< 2	0.55	0.5	14	84	42	3.86	10	< 1	0.41	10	0.90	555
S 05945	203	205	< 5	0.8	2.00	190	240	< 0.5	< 2	0.46	3.0	13	57	57	4.78	10	1	0.66	20	0.92	855
S 05950	203	205	< 5	0.2	1.21	< 2	110	< 0.5	< 2	0.28	< 0.5	10	72	30	2.87	10	< 1	0.25	30	0.52	595
S 05951	203	205	< 5	< 0.2	2.64	6	150	< 0.5	4	0.49	< 0.5	13	39	14	4.21	10	< 1	0.26	20	0.86	410
S 05952	203	205	< 5	< 0.2	2.71	< 2	160	< 0.5	< 2	0.60	0.5	16	52	21	4.29	10	< 1	0.18	20	1.32	565
S 05953	203	205	< 5	< 0.2	2.39	< 2	150	< 0.5	< 2	0.55	< 0.5	16	51	25	4.31	10	< 1	0.80	10	1.28	685
S 05954	203	205	< 5	< 0.2	2.56	< 2	220	< 0.5	2	0.59	0.5	14	55	23	3.58	10	< 1	0.12	10	0.93	465
S 05955	201	229	< 5	< 0.2	1.68	< 2	120	< 0.5	< 2	0.39	< 0.5	13	119	12	2.97	10	< 1	0.09	10	0.58	510
S 05956	201	229	< 5	< 0.2	3.82	< 2	210	< 0.5	< 2	0.24	1.0	20	32	17	6.31	10	< 1	0.25	10	1.29	800
S 05957	201	229	< 5	< 0.2	2.20	< 2	250	< 0.5	2	0.50	< 0.5	11	33	15	3.51	10	< 1	0.07	20	0.66	420
S 05958	201	229	< 5	0.2	1.70	4	260	< 0.5	< 2	0.67	< 0.5	9	19	13	3.21	10	< 1	0.18	30	0.66	525
S 05959	203	205	< 5	< 0.2	1.47	2	210	< 0.5	< 2	0.48	< 0.5	13	66	11	3.49	10	< 1	0.15	20	0.64	920
S 05960	201	229	< 5	< 0.2	1.79	6	260	< 0.5	2	0.81	< 0.5	10	31	20	3.14	10	< 1	0.08	20	0.71	485
S 05961	201	229	< 5	< 0.2	1.80	< 2	210	< 0.5	< 2	0.57	0.5	12	30	19	2.62	10	< 1	0.09	20	0.66	470
S 05962	201	229	< 5	< 0.2	2.60	< 2	250	< 0.5	4	0.51	< 0.5	15	52	49	3.91	10	< 1	0.27	10	1.28	415
S 05963	201	229	< 5	0.2	2.13	52	460	< 0.5	< 2	0.53	0.5	28	28	66	7.10	10	< 1	0.38	30	0.93	2240
S 05964	201	229	< 5	< 0.2	3.09	20	660	< 0.5	< 2	0.55	< 0.5	21	49	59	6.79	10	< 1	0.93	20	1.47	1075
T 4686	201	229	< 5	0.4	1.39	228	980	< 0.5	< 2	0.34	3.5	15	12	28	4.24	10	< 1	0.14	40	0.34	2700
T 4687	201	229	20	0.8	1.33	376	560	< 0.5	< 2	0.31	7.0	8	21	40	5.80	10	< 1	0.31	40	0.39	1400

CERTIFICATION: Stewart Buchler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Page .ber : 1-B
Total Pages : 1
Certificate Date: 14-AUG-93
Invoice No. : I9318555
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318555

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S 05917	201	229	26	0.01	12	1740	32	< 2	7	36	0.10	< 10	< 10	130	< 10	86
S 05921	201	229	24	0.01	11	1000	32	2	5	29	0.11	< 10	< 10	70	< 10	88
S 05923	201	229	5	0.04	4	1040	24	6	17	134	0.10	< 10	< 10	134	< 10	234
S 05924	201	229	2	0.03	20	850	58	< 2	6	34	0.11	< 10	< 10	67	< 10	66
S 05925	201	229	7	0.01	17	660	16	2	4	20	0.10	< 10	< 10	63	< 10	50
S 05926	201	229	1	0.01	15	860	78	4	6	21	0.10	< 10	< 10	90	< 10	202
S 05927	201	229	1	0.01	12	800	70	< 2	6	19	0.07	< 10	< 10	66	< 10	144
S 05928	201	229	1	0.01	14	950	28	< 2	6	35	0.09	< 10	< 10	71	< 10	92
S 05929	201	229	< 1	0.01	18	1140	26	< 2	6	24	0.17	< 10	< 10	101	< 10	108
S 05930	201	229	7	0.01	4	820	162	6	7	16	0.09	< 10	< 10	73	< 10	152
S 05934	201	229	1	0.01	18	760	16	2	4	28	0.10	< 10	< 10	66	< 10	80
S 05935	201	229	1	0.02	21	900	26	< 2	7	32	0.14	< 10	< 10	80	< 10	94
S 05936	201	229	2	0.01	16	780	944	12	12	22	0.08	< 10	< 10	77	< 10	1375
S 05937	201	229	2	0.01	16	780	52	< 2	5	25	0.11	< 10	< 10	72	< 10	212
S 05938	201	229	3	0.01	26	700	20	6	9	25	0.10	< 10	< 10	79	< 10	96
S 05940	201	229	2	0.08	9	1100	276	6	10	104	0.07	< 10	< 10	81	< 10	428
S 05941	203	205	18	0.01	8	770	550	2	7	29	0.01	< 10	10	65	< 10	740
S 05943	203	205	1	0.03	43	650	10	2	8	27	0.12	< 10	< 10	78	< 10	68
S 05944	203	205	2	0.02	21	750	70	2	10	17	0.13	< 10	< 10	96	< 10	112
S 05945	203	205	5	0.03	15	730	438	< 2	13	15	0.16	< 10	< 10	100	< 10	546
S 05950	203	205	2	0.01	11	360	16	2	10	16	0.05	< 10	< 10	54	< 10	54
S 05951	203	205	< 1	0.01	7	480	4	< 2	13	28	0.02	< 10	< 10	92	< 10	46
S 05952	203	205	1	0.02	15	440	6	< 2	13	27	0.19	< 10	< 10	118	< 10	62
S 05953	203	205	3	0.02	9	570	6	< 2	15	18	0.15	< 10	< 10	114	< 10	76
S 05954	203	205	< 1	0.02	18	580	12	< 2	7	31	0.18	< 10	< 10	96	< 10	70
S 05955	201	229	1	0.03	12	510	8	< 2	5	20	0.11	< 10	10	84	< 10	48
S 05956	201	229	1	0.01	19	570	12	4	12	17	0.17	< 10	< 10	128	< 10	96
S 05957	201	229	1	0.01	18	560	18	< 2	7	27	0.12	< 10	< 10	78	< 10	64
S 05958	201	229	< 1	0.01	11	990	16	< 2	11	26	0.04	< 10	< 10	57	< 10	70
S 05959	203	205	< 1	0.02	12	730	18	< 2	7	22	0.12	< 10	< 10	70	< 10	68
S 05960	201	229	2	0.01	15	640	8	< 2	9	54	0.10	< 10	< 10	67	< 10	66
S 05961	201	229	2	0.01	15	520	8	< 2	6	30	0.12	< 10	< 10	68	< 10	54
S 05962	201	229	< 1	0.03	30	310	12	2	10	31	0.20	< 10	< 10	110	< 10	58
S 05963	201	229	6	0.01	20	1070	18	< 2	30	22	0.10	< 10	10	138	< 10	110
S 05964	201	229	1	0.02	20	1090	18	< 2	27	26	0.23	< 10	< 10	171	< 10	118
T 4686	201	229	< 1	0.01	8	520	92	< 2	12	26	< 0.01	< 10	10	46	< 10	638
T 4687	201	229	1	0.01	14	590	318	2	10	41	0.02	< 10	< 10	47	< 10	1020

CERTIFICATION: David Sutherland

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

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Total Pages :1
Certificate Date: 19-JUL-9
Invoice No. :I9317059
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317059

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S05906	201	229	350	1.2	1.25	26	150	< 0.5	< 2	0.59	0.5	15	33	58	3.49	< 10	< 1	0.21	20	0.58	860
S05907	201	229	255	4.4	0.67	184	210	< 0.5	< 2	0.22	< 0.5	3	15	101	9.39	< 10	< 1	0.65	40	0.18	265
S05918	201	229	735	0.2	3.13	20	380	< 0.5	< 2	0.21	0.5	28	19	926	10.00	< 10	< 1	0.35	50	0.83	970
S05919	201	229	240	3.0	2.19	58	280	< 0.5	< 2	0.20	0.5	6	28	261	6.51	< 10	< 1	0.11	30	0.62	220
S05920	201	229	225	1.8	2.15	38	230	< 0.5	< 2	0.23	< 0.5	6	30	256	5.76	< 10	< 1	0.09	30	0.69	235
S05931	201	229	65	1.2	1.94	56	210	< 0.5	< 2	0.27	< 0.5	15	32	161	7.55	< 10	< 1	0.09	20	0.59	305
S05932	201	229	285	3.4	1.89	36	380	< 0.5	< 2	0.22	< 0.5	7	24	197	5.79	< 10	< 1	0.17	20	0.54	235
S05933	201	229	215	2.2	2.36	42	220	< 0.5	< 2	0.32	0.5	18	31	166	5.01	< 10	< 1	0.10	20	0.62	670
S05969	201	229	< 5	0.2	2.86	18	370	< 0.5	< 2	0.56	< 0.5	16	50	27	3.99	< 10	< 1	0.09	20	0.92	435
S05970	201	229	< 5	0.4	2.85	10	440	< 0.5	< 2	0.62	1.0	12	38	74	3.19	< 10	< 1	0.11	20	0.82	680
S05990	201	229	175	1.4	2.06	16	250	< 0.5	< 2	0.46	1.0	13	37	170	4.01	< 10	< 1	0.12	30	0.67	595
S05991	201	229	160	3.4	2.55	456	230	< 0.5	< 2	0.49	1.5	15	33	100	5.56	< 10	< 1	0.23	20	0.79	825

CERTIFICATION: Ivan Bichler

Chemex Labs Ltd.

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P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Certificate Date: 19-JUL-93
Invoice No. :I9317059
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317059

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S05906	201	229	4	0.03	21	910	32	< 2	6	41	0.12	< 10	< 10	67	< 10	102
S05907	201	229	23	0.02	3	1690	108	8	3	114	< 0.01	< 10	< 10	42	< 10	48
S05918	201	229	29	0.01	5	1810	22	< 2	15	52	0.09	< 10	< 10	88	< 10	138
S05919	201	229	< 1	< 0.01	11	1050	98	< 2	9	19	0.03	< 10	< 10	67	< 10	110
S05920	201	229	< 1	< 0.01	11	880	58	< 2	8	17	0.06	< 10	< 10	65	< 10	76
S05931	201	229	16	0.01	12	790	52	< 2	6	20	0.10	< 10	< 10	67	< 10	116
S05932	201	229	39	0.01	10	850	118	4	4	30	0.04	< 10	< 10	53	< 10	104
S05933	201	229	12	0.01	12	880	128	< 2	6	25	0.07	< 10	< 10	67	< 10	136
S05969	201	229	< 1	0.01	22	760	18	< 2	10	32	0.18	< 10	< 10	101	< 10	82
S05970	201	229	< 1	0.01	16	690	24	< 2	9	53	0.16	< 10	< 10	72	< 10	140
S05990	201	229	12	0.01	16	900	64	< 2	8	31	0.12	< 10	< 10	70	< 10	136
S05991	201	229	4	0.01	14	990	234	< 2	9	32	0.10	< 10	< 10	87	< 10	364

CERTIFICATION:

Chemex Labs Ltd.

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Comments:

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Invoice No. :I9316686
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316686

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T4678	201	229	< 5	0.2	1.05	294	430	< 0.5	4	0.45	1.0	19	11	37	6.86	< 10	< 1	0.11	40	0.32	1900
T4680	201	229	330	0.8	2.22	74	620	< 0.5	10	0.24	0.5	50	17	3590	9.29	< 10	< 1	0.25	30	0.67	990
T4681	201	229	260	0.4	1.96	56	420	< 0.5	10	0.33	< 0.5	16	28	2470	8.50	< 10	< 1	0.21	20	0.71	240
T4690	201	229	50	0.6	1.48	30	340	< 0.5	8	0.27	< 0.5	6	23	109	3.30	< 10	< 1	0.07	10	0.51	260
T4691	201	229	35	0.2	1.71	14	450	< 0.5	2	0.29	< 0.5	7	23	94	3.30	< 10	< 1	0.08	10	0.59	250
T4693	201	229	110	0.2	1.91	14	370	< 0.5	< 2	0.45	< 0.5	6	20	108	2.89	< 10	< 1	0.12	10	0.66	195
T4695	201	229	480	2.0	2.24	24	200	< 0.5	2	0.59	< 0.5	12	49	715	4.87	10	2	0.35	20	1.11	470
T4696	201	229	380	1.4	1.84	28	160	< 0.5	4	0.64	< 0.5	13	43	529	4.25	< 10	< 1	0.29	20	0.94	510
S05901	201	229	250	1.0	1.82	6	160	< 0.5	2	0.64	0.5	13	44	473	3.86	< 10	< 1	0.23	10	0.92	500
S05902	201	229	460	1.4	2.03	18	180	< 0.5	6	0.54	< 0.5	13	48	594	3.97	< 10	< 1	0.34	20	1.12	375
S05903	201	229	260	0.8	1.54	22	140	< 0.5	8	0.58	< 0.5	10	39	356	3.49	< 10	< 1	0.25	10	0.91	290
S05904	201	229	135	0.2	2.12	78	260	< 0.5	6	0.37	< 0.5	5	9	228	5.16	< 10	< 1	0.06	20	0.40	125
S05905	201	229	155	1.4	1.15	766	360	< 0.5	10	0.27	< 0.5	13	8	454	5.41	< 10	< 1	0.20	30	0.19	460
S05908	201	229	35	0.4	2.11	88	300	< 0.5	8	0.51	< 0.5	11	29	59	3.23	< 10	< 1	0.07	10	0.65	675
S05909	201	229	35	0.4	2.00	58	290	< 0.5	4	0.52	0.5	8	29	49	2.93	< 10	< 1	0.08	10	0.65	305
S05910	201	229	25	< 0.2	2.14	12	370	< 0.5	8	0.32	< 0.5	8	29	75	2.48	< 10	< 1	0.05	10	0.55	140
S05911	201	229	30	0.2	1.66	18	430	< 0.5	6	0.48	0.5	15	28	105	2.81	< 10	< 1	0.06	10	0.57	345
S05912	201	229	50	0.2	1.49	24	270	< 0.5	8	0.42	0.5	19	25	86	3.47	< 10	< 1	0.07	10	0.55	445
S05913	201	229	45	< 0.2	2.49	6	260	< 0.5	6	0.37	< 0.5	9	32	208	3.75	< 10	< 1	0.24	10	1.08	205
S05914	201	229	55	0.2	2.12	12	200	< 0.5	4	0.33	< 0.5	6	29	196	3.99	< 10	< 1	0.17	10	0.76	180
S05915	201	229	15	< 0.2	5.00	22	1200	< 0.5	< 2	0.71	3.0	25	18	412	6.08	10	< 1	1.15	20	2.22	1760
S05916	201	229	20	< 0.2	4.33	24	590	< 0.5	12	0.75	1.5	16	8	616	5.81	10	< 1	0.74	20	1.86	855

CERTIFICATION: Jack Chandler

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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Project : CASINO PLACER
Comments:

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Total Pages :1
Certificate Date: 11-JUL-93
Invoice No. :I9316686
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CERTIFICATE OF ANALYSIS A9316686

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T4678	201	229	3	< 0.01	16	1360	120	4	13	22	< 0.01	< 10	< 10	55	< 10	262
T4680	201	229	489	0.01	6	1990	28	16	10	58	0.07	< 10	40	75	< 10	94
T4681	201	229	224	0.01	13	1470	28	10	8	49	0.10	< 10	10	67	< 10	110
T4690	201	229	3	0.04	11	590	24	2	3	58	0.06	< 10	< 10	45	< 10	48
T4691	201	229	< 1	0.06	13	540	22	< 2	3	66	0.08	< 10	< 10	47	< 10	54
T4693	201	229	1	0.03	10	780	28	2	6	63	0.12	< 10	< 10	57	< 10	54
T4695	201	229	132	0.02	22	920	14	2	10	35	0.13	< 10	< 10	88	< 10	88
T4696	201	229	93	0.02	23	830	18	2	8	33	0.13	< 10	< 10	80	< 10	82
S05901	201	229	75	0.02	25	850	10	4	8	35	0.13	< 10	< 10	80	< 10	86
S05902	201	229	96	0.02	23	800	14	4	9	35	0.14	< 10	< 10	85	< 10	94
S05903	201	229	33	0.02	23	950	16	< 2	7	31	0.12	< 10	< 10	74	< 10	76
S05904	201	229	2	0.04	6	870	26	2	4	67	< 0.01	< 10	< 10	22	< 10	64
S05905	201	229	< 1	0.07	8	820	132	16	7	64	< 0.01	< 10	< 10	24	< 10	278
S05908	201	229	1	0.01	14	780	24	2	6	35	0.12	< 10	< 10	67	< 10	96
S05909	201	229	< 1	0.01	14	750	28	2	5	34	0.12	< 10	< 10	64	< 10	92
S05910	201	229	1	0.01	14	520	16	< 2	5	32	0.08	< 10	< 10	55	< 10	52
S05911	201	229	< 1	0.01	17	760	16	< 2	6	48	0.08	< 10	< 10	52	< 10	110
S05912	201	229	1	0.02	14	860	24	4	5	48	0.08	< 10	< 10	53	< 10	60
S05913	201	229	20	0.01	17	880	< 2	< 2	10	32	0.16	< 10	< 10	99	< 10	60
S05914	201	229	56	0.01	15	940	6	< 2	7	30	0.12	< 10	< 10	78	< 10	58
S05915	201	229	3	0.02	20	920	2	< 2	23	58	0.29	< 10	< 10	138	< 10	416
S05916	201	229	2	0.05	6	980	< 2	2	15	102	0.14	< 10	< 10	130	< 10	266

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

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Project : CASINO PLACER
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Certificate Date: 26-AUG-93
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CERTIFICATE OF ANALYSIS A9319352

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S05922	201	229	15	< 0.2	2.03	22	290	< 0.5	< 2	0.63	0.5	13	40	73	3.40	10	< 1	0.12	20	0.81	575
S05965	201	229	215	2.4	1.37	118	120	< 0.5	4	0.27	0.5	11	28	188	6.53	10	< 1	0.10	20	0.47	605
S05966	201	229	225	1.6	1.57	46	230	< 0.5	10	0.18	< 0.5	4	22	168	4.65	10	< 1	0.08	20	0.50	210
S05967	201	229	< 5	< 0.2	3.30	< 2	440	< 0.5	< 2	0.75	< 0.5	19	22	40	6.02	20	< 1	0.69	30	1.62	1215
S12370	201	229	< 5	< 0.2	2.63	6	230	< 0.5	2	0.28	< 0.5	11	38	21	3.72	10	< 1	0.10	20	0.67	495
S12371	201	229	< 5	< 0.2	2.57	18	220	< 0.5	< 2	0.25	< 0.5	10	40	23	3.38	10	< 1	0.08	10	0.59	365
S12372	201	229	< 5	< 0.2	3.18	6	370	< 0.5	< 2	0.54	< 0.5	15	20	21	5.28	10	< 1	0.49	30	1.26	1120
S12373	201	229	< 5	< 0.2	1.91	< 2	200	< 0.5	2	0.35	< 0.5	7	34	14	2.83	< 10	< 1	0.04	10	0.56	315
S12374	201	229	< 5	< 0.2	1.83	6	250	< 0.5	2	0.52	< 0.5	12	24	34	4.70	10	< 1	0.28	40	0.77	770
S12376	201	229	< 5	< 0.2	2.36	18	180	< 0.5	< 2	0.32	< 0.5	10	31	16	3.59	< 10	< 1	0.06	10	0.66	415
S12377	201	229	< 5	< 0.2	1.94	12	230	< 0.5	< 2	0.54	< 0.5	12	31	19	3.66	10	< 1	0.15	40	0.71	675
S12378	201	229	< 5	< 0.2	1.90	6	220	< 0.5	6	0.57	< 0.5	10	32	17	3.75	10	< 1	0.13	30	0.76	560
S12379	201	229	15	< 0.2	2.46	18	190	< 0.5	4	0.22	< 0.5	9	34	20	3.77	10	< 1	0.07	< 10	0.55	290
S12380	201	229	< 5	< 0.2	2.37	8	270	< 0.5	< 2	0.48	< 0.5	11	22	29	4.56	10	< 1	0.30	20	1.11	835
S12381	201	229	< 5	< 0.2	3.39	12	410	< 0.5	< 2	0.40	< 0.5	17	22	21	6.40	10	< 1	1.19	30	1.53	1130
S12400	201	229	< 5	< 0.2	2.87	6	290	< 0.5	< 2	0.42	< 0.5	15	33	21	4.90	10	< 1	0.28	10	1.06	580

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

o: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Certificate Date: 26-AUG-93
Invoice No. : I9319352
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319352

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S05922	201	229	1	0.02	21	870	18	2	9	37	0.12	< 10	< 10	81	10	126
S05965	201	229	1	< 0.01	12	840	212	10	6	18	0.06	< 10	< 10	58	10	180
S05966	201	229	1	< 0.01	8	830	50	2	4	19	0.03	< 10	< 10	52	< 10	70
S05967	201	229	4	0.01	10	1510	14	< 2	20	31	0.20	< 10	< 10	133	20	110
S12370	201	229	< 1	0.01	21	220	16	< 2	11	22	0.13	< 10	< 10	79	10	66
S12371	201	229	< 1	0.01	21	200	18	< 2	9	19	0.11	< 10	< 10	72	10	58
S12372	201	229	11	0.01	11	980	8	2	25	32	0.12	< 10	< 10	111	10	86
S12373	201	229	1	0.01	14	260	8	2	6	23	0.11	< 10	< 10	68	< 10	50
S12374	201	229	4	0.01	13	870	6	2	15	23	0.11	< 10	< 10	87	10	86
S12376	201	229	2	0.01	19	480	6	< 2	5	20	0.11	< 10	< 10	76	< 10	62
S12377	201	229	1	0.01	13	850	4	2	10	29	0.13	< 10	< 10	81	< 10	68
S12378	201	229	1	0.01	14	960	4	2	9	28	0.14	< 10	< 10	85	10	76
S12379	201	229	1	0.01	17	340	10	< 2	5	16	0.14	< 10	< 10	91	< 10	62
S12380	201	229	8	0.01	9	520	18	< 2	18	29	0.13	< 10	< 10	94	10	126
S12381	201	229	2	0.01	11	300	8	< 2	20	27	0.32	< 10	< 10	134	20	118
S12400	201	229	2	0.01	17	660	16	< 2	10	24	0.21	< 10	< 10	103	10	92

CERTIFICATION:

Chemex Labs Ltd.

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WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER SOIL
Comments:

Page Number : 1-A
Total Pages : 1
Certificate Date: 12-SEP-93
Invoice No. : I9320622
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320622

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S12398	201	229	< 5	0.6	3.13	12	510	< 0.5	< 2	0.48	< 0.5	18	19	107	7.45	< 10	< 1	0.73	70	1.21	1440
S14350	201	229	< 5	0.6	2.11	4	260	< 0.5	2	0.44	< 0.5	11	32	13	3.16	< 10	< 1	0.12	10	0.64	640
S14351	201	229	< 5	1.6	2.15	24	390	< 0.5	2	0.58	0.5	11	32	32	3.40	< 10	< 1	0.17	30	0.68	1010
S14352	201	229	< 5	2.0	2.33	22	430	< 0.5	2	0.49	1.0	11	27	30	3.40	< 10	< 1	0.22	30	0.64	995
S14353	201	229	25	1.6	2.19	22	370	< 0.5	4	0.42	1.0	11	28	23	3.42	< 10	< 1	0.15	20	0.58	1230
S14354	201	229	10	2.2	2.02	18	470	< 0.5	2	0.65	2.0	11	29	19	2.79	< 10	< 1	0.15	20	0.53	1795
S14355	201	229	< 5	1.4	1.61	22	250	< 0.5	< 2	0.39	0.5	9	26	15	2.94	< 10	< 1	0.19	30	0.54	920
S14946	201	229	< 5	0.4	2.35	2	310	< 0.5	< 2	0.49	< 0.5	13	40	32	4.11	< 10	< 1	0.23	30	0.90	615
S14947	201	229	< 5	0.2	0.81	8	250	< 0.5	< 2	0.36	< 0.5	10	5	4	3.36	< 10	< 1	0.15	30	0.29	1350
S14948	201	229	< 5	0.4	3.30	20	230	< 0.5	< 2	0.69	< 0.5	20	39	81	6.42	< 10	< 1	1.27	60	1.60	1070
S14950	201	229	< 5	0.2	2.97	4	200	< 0.5	< 2	0.24	< 0.5	12	43	36	3.76	< 10	< 1	0.08	< 10	0.76	395
S14953	201	229	< 5	0.2	1.09	< 2	240	< 0.5	< 2	0.49	< 0.5	8	5	6	3.67	< 10	< 1	0.48	30	0.46	795
S14954	201	229	< 5	1.4	2.59	12	260	< 0.5	34	0.28	0.5	14	29	64	5.41	< 10	< 1	0.23	20	0.75	890
S14955	201	229	< 5	0.6	0.96	26	310	< 0.5	4	0.48	1.0	11	9	7	3.30	< 10	< 1	0.37	60	0.33	1025
S14956	201	229	< 5	0.4	1.48	8	360	< 0.5	< 2	0.44	< 0.5	12	18	15	4.97	< 10	< 1	0.37	80	0.59	1130
S14957	201	229	< 5	0.6	1.63	6	310	< 0.5	2	0.49	< 0.5	11	20	24	4.77	< 10	< 1	0.39	40	0.66	1000
S14958	201	229	< 5	0.4	2.09	16	290	< 0.5	6	0.48	< 0.5	11	29	18	3.96	< 10	< 1	0.24	30	0.79	555
S14959	201	229	< 5	0.2	3.27	8	270	< 0.5	< 2	0.30	< 0.5	14	25	33	5.61	< 10	< 1	0.38	10	1.11	965
S14960	201	229	< 5	0.2	2.63	20	250	< 0.5	16	0.26	< 0.5	13	18	25	5.38	< 10	< 1	0.28	30	0.73	765
S14961	201	229	< 5	0.2	2.55	12	280	< 0.5	< 2	0.30	< 0.5	13	17	21	6.09	< 10	< 1	0.57	30	1.04	1015
S14972	201	229	< 5	0.4	2.64	22	250	< 0.5	< 2	0.79	< 0.5	16	85	56	4.71	< 10	< 1	0.16	20	0.91	720
S14982	201	229	< 5	0.2	1.96	14	260	< 0.5	< 2	0.52	< 0.5	12	27	13	4.09	< 10	< 1	0.23	20	0.87	625

CERTIFICATION: Stewart Bradley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER SOIL
Comments:

Page Number : 1-B
Total Pages : 1
Certificate Date: 12-SEP-93
Invoice No. : I9320622
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9320622

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S12398	201	229	20	0.01	10	1390	10	< 2	22	27	0.21	< 10	< 10	135	30	136
S14350	201	229	1	0.01	15	640	30	< 2	6	29	0.11	< 10	< 10	74	< 10	128
S14351	201	229	< 1	0.01	16	930	74	2	10	35	0.12	< 10	< 10	77	< 10	206
S14352	201	229	< 1	0.01	13	900	162	< 2	9	31	0.10	< 10	< 10	75	< 10	218
S14353	201	229	1	0.01	13	680	150	< 2	8	28	0.09	< 10	< 10	74	< 10	254
S14354	201	229	1	0.01	13	1090	376	< 2	7	45	0.08	< 10	< 10	61	< 10	300
S14355	201	229	1	0.01	11	540	72	2	6	24	0.11	< 10	< 10	58	< 10	254
S14946	201	229	2	0.02	22	430	4	< 2	12	34	0.20	< 10	< 10	91	< 10	76
S14947	201	229	11	0.01	2	990	18	< 2	9	15	0.02	< 10	< 10	41	< 10	82
S14948	201	229	15	0.02	12	1340	8	< 2	30	27	0.19	< 10	< 10	153	< 10	122
S14950	201	229	1	0.01	21	330	2	< 2	5	20	0.13	< 10	< 10	89	< 10	62
S14953	201	229	1	0.01	3	1130	8	< 2	15	21	0.07	< 10	< 10	56	< 10	86
S14954	201	229	21	0.01	14	800	42	< 2	11	17	0.12	< 10	< 10	93	10	106
S14955	201	229	6	0.01	3	1250	28	< 2	12	21	0.02	< 10	< 10	42	< 10	82
S14956	201	229	9	0.01	9	1210	8	< 2	20	20	0.09	< 10	< 10	72	< 10	118
S14957	201	229	8	0.01	8	1090	12	< 2	14	22	0.11	< 10	< 10	71	< 10	98
S14958	201	229	3	0.01	16	760	10	< 2	10	26	0.16	< 10	< 10	78	< 10	80
S14959	201	229	4	0.01	14	530	4	< 2	10	21	0.21	< 10	< 10	122	< 10	96
S14960	201	229	65	0.01	11	660	26	< 2	14	19	0.11	< 10	< 10	89	< 10	126
S14961	201	229	7	0.01	10	580	10	< 2	17	21	0.21	< 10	< 10	106	10	122
S14972	201	229	2	0.03	44	540	6	< 2	23	26	0.01	< 10	< 10	75	< 10	90
S14982	201	229	1	0.02	13	930	2	< 2	8	26	0.18	< 10	< 10	90	< 10	78

CERTIFICATION:

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Certificate Date: 01-SEP-93
Invoice No. :I9319868
P.O. Number :-
Account :FC

CERTIFICATE OF ANALYSIS A9319868

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S 12382	201	229	10	0.2	1.55	4	260	< 0.5	< 2	0.61	< 0.5	9	28	13	3.46	< 10	< 1	0.19	30	0.77	410
S 12383	203	205	< 5	0.2	1.47	18	210	< 0.5	< 2	0.55	< 0.5	9	45	11	3.71	< 10	< 1	0.30	40	0.62	435
S 12384	201	229	< 5	0.2	1.44	16	590	0.5	< 2	0.58	< 0.5	10	21	11	4.08	< 10	< 1	0.33	50	0.66	575
S 12385	201	229	< 5	0.2	1.79	10	220	< 0.5	< 2	0.61	< 0.5	11	30	17	3.34	< 10	1	0.13	30	0.74	440
S 12386	201	229	< 5	0.2	2.09	18	280	< 0.5	< 2	0.45	< 0.5	12	35	27	4.22	< 10	< 1	0.20	40	0.82	570
S 12387	203	205	< 5	0.4	1.76	16	270	0.5	< 2	0.52	< 0.5	12	35	14	4.57	< 10	1	0.50	50	0.88	905
S 12388	203	205	< 5	0.2	2.06	26	250	< 0.5	< 2	0.44	< 0.5	12	47	11	3.54	< 10	< 1	0.15	30	0.74	500
S 12389	203	229	< 5	0.4	1.23	22	200	< 0.5	< 2	0.52	< 0.5	10	64	18	3.82	< 10	< 1	0.24	20	0.66	705
S 12390	201	229	< 5	0.2	3.58	30	300	< 0.5	4	0.20	< 0.5	14	32	16	5.66	< 10	1	0.21	10	1.06	770
S 12391	201	229	< 5	0.2	2.15	22	180	0.5	< 2	0.14	< 0.5	12	16	17	4.78	10	< 1	0.21	30	0.55	495
S 12392	203	205	< 5	0.2	1.60	14	330	< 0.5	4	0.43	< 0.5	11	43	27	3.77	< 10	< 1	0.27	30	0.63	730
S 12393	201	229	< 5	0.2	2.10	14	380	< 0.5	< 2	0.48	< 0.5	12	24	14	4.22	< 10	< 1	0.49	40	0.98	875
S 12394	201	229	< 5	0.2	1.42	12	190	< 0.5	< 2	0.37	< 0.5	9	22	9	2.94	< 10	< 1	0.17	30	0.66	595
S 12395	201	229	< 5	0.2	2.61	14	170	0.5	< 2	0.18	< 0.5	21	16	17	5.77	< 10	< 1	0.27	10	0.65	1095
S 12396	201	229	< 5	0.2	2.65	26	230	0.5	< 2	0.26	< 0.5	14	33	19	4.28	< 10	< 1	0.30	20	0.84	740
S 14341	201	229	< 5	< 0.2	2.44	22	220	0.5	< 2	0.33	< 0.5	11	38	18	3.74	< 10	< 1	0.07	10	0.59	330
S 14342	201	229	< 5	0.2	2.77	26	260	< 0.5	< 2	0.37	< 0.5	12	53	24	3.55	< 10	< 1	0.07	20	0.71	320
S 14343	201	229	360	2.4	1.40	54	200	< 0.5	14	0.16	< 0.5	4	21	62	4.20	< 10	< 1	0.09	20	0.37	140
S 14344	203	205	10	0.8	1.94	22	280	< 0.5	< 2	0.51	< 0.5	12	54	17	3.28	< 10	< 1	0.15	30	0.67	805
S 14345	201	229	5	0.2	1.89	18	230	0.5	< 2	0.27	0.5	7	20	11	2.59	< 10	< 1	0.23	30	0.49	565
S 14346	201	229	5	0.6	1.03	20	440	0.5	< 2	0.36	2.0	7	15	26	2.86	< 10	< 1	0.15	40	0.32	2360
S 14347	201	229	15	0.2	1.50	12	290	0.5	< 2	0.33	1.0	9	25	20	3.09	< 10	< 1	0.10	30	0.46	905
S 14348	201	229	15	0.2	1.60	12	240	< 0.5	< 2	0.39	0.5	7	30	15	2.70	< 10	< 1	0.09	20	0.54	505
S 14349	201	229	< 5	0.2	2.15	20	300	< 0.5	< 2	0.37	< 0.5	10	37	21	3.09	< 10	< 1	0.06	30	0.63	605

CERTIFICATION: Ian K Bachlan

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 01-SEP-93
Invoice No. :19319868
P.O. Number :-
Account :FC

CERTIFICATE OF ANALYSIS A9319868

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S 12382	201	229	< 1	0.02	11	1170	14	2	7	27	0.12	< 10	< 10	80	< 10	70
S 12383	203	205	< 1	0.02	11	1050	10	2	10	24	0.12	< 10	< 10	77	10	82
S 12384	201	229	< 1	0.01	10	1300	12	2	13	24	0.10	< 10	< 10	78	10	92
S 12385	201	229	1	0.01	14	800	8	2	9	31	0.13	< 10	< 10	75	< 10	72
S 12386	201	229	< 1	0.01	22	450	14	2	13	30	0.17	< 10	< 10	95	< 10	80
S 12387	203	205	< 1	0.02	11	1190	10	2	12	22	0.19	< 10	< 10	90	10	94
S 12388	203	205	< 1	0.02	17	470	8	2	8	28	0.15	< 10	< 10	83	< 10	62
S 12389	203	229	< 1	0.07	9	490	24	2	7	23	0.11	< 10	< 10	120	10	68
S 12390	201	229	6	0.01	17	430	20	4	10	15	0.16	< 10	< 10	110	10	112
S 12391	201	229	4	0.01	10	280	16	2	10	14	0.07	< 10	< 10	71	< 10	126
S 12392	203	205	12	0.02	14	810	16	< 2	9	23	0.15	< 10	< 10	76	10	90
S 12393	201	229	1	0.01	11	1040	12	< 2	10	24	0.20	< 10	< 10	83	< 10	102
S 12394	201	229	1	0.01	12	700	10	< 2	6	19	0.13	< 10	< 10	62	< 10	66
S 12395	201	229	< 1	0.01	9	1030	20	< 2	14	9	0.09	< 10	< 10	86	10	106
S 12396	201	229	2	0.01	17	750	12	2	10	16	0.15	< 10	< 10	86	< 10	86
S 14341	201	229	< 1	0.01	19	320	16	2	6	23	0.12	< 10	< 10	81	< 10	62
S 14342	201	229	< 1	0.01	23	190	12	4	7	28	0.15	< 10	< 10	85	< 10	64
S 14343	201	229	1	0.01	9	530	42	4	3	22	0.03	< 10	< 10	46	< 10	48
S 14344	203	205	< 1	0.02	16	730	36	2	7	31	0.12	< 10	< 10	78	< 10	150
S 14345	201	229	1	0.01	11	390	82	2	5	18	0.07	< 10	< 10	52	< 10	164
S 14346	201	229	5	< 0.01	8	690	362	4	5	27	0.01	< 10	< 10	34	< 10	522
S 14347	201	229	2	0.01	12	440	90	2	5	22	0.06	< 10	< 10	53	< 10	222
S 14348	201	229	1	0.01	14	530	48	< 2	6	26	0.08	< 10	< 10	56	< 10	170
S 14349	201	229	2	0.01	18	600	30	2	7	27	0.08	< 10	< 10	68	< 10	112

CERTIFICATION: Stewart Barthel

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ARCHER CATHRO & ASSOC. (1981) LTD.
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Y1A 3S9

Project : CASINO PLACER
Comments:

Certificate Date: 03-NOV-93
Invoice No. : I9323132
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323132

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T2070	201	229	< 5	0.4	3.03	36	280	0.5	2	0.35	< 0.5	13	41	17	3.88	< 10	< 1	0.09	10	0.67	660
S14358	201	229	< 5	< 0.2	2.84	10	220	< 0.5	2	0.29	< 0.5	13	36	15	3.90	< 10	< 1	0.11	10	0.75	350
S14360	201	229	15	< 0.2	2.28	104	380	1.0	22	0.40	< 0.5	12	25	26	4.19	10	< 1	0.15	40	0.50	825
S14361	201	229	< 5	0.2	1.39	116	280	0.5	2	0.35	1.0	5	18	14	3.08	< 10	< 1	0.20	50	0.35	1515
S14362	201	229	< 5	< 0.2	1.76	4	270	< 0.5	< 2	0.27	0.5	8	13	9	2.77	< 10	< 1	0.24	20	0.43	715
S14363	201	229	10	0.6	2.19	34	320	0.5	< 2	0.49	0.5	11	35	17	2.86	< 10	< 1	0.11	30	0.60	880
N32516	201	229	15	< 0.2	2.42	12	420	< 0.5	2	0.56	1.0	14	41	23	3.53	< 10	< 1	0.14	30	0.72	1145
N32521	201	229	15	7.6	0.99	76	480	1.0	< 2	0.38	3.5	4	10	16	6.02	10	< 1	0.42	40	0.10	2380
N32523	201	229	< 5	< 0.2	1.54	16	370	0.5	< 2	0.45	< 0.5	10	22	9	3.81	< 10	< 1	0.14	30	0.48	710
N32524	201	229	< 5	< 0.2	1.95	14	400	0.5	< 2	0.55	< 0.5	9	35	16	2.91	< 10	< 1	0.11	30	0.64	595
N32525	201	229	380	3.4	1.28	4940	410	2.5	6	0.52	27.5	7	13	33	7.52	20	< 1	0.16	110	0.24	1080
N32528	201	229	5	0.4	1.18	120	480	1.0	< 2	0.32	3.0	8	9	13	4.60	10	< 1	0.21	30	0.20	1915
N32529	201	229	25	3.8	2.43	124	510	0.5	6	0.52	1.0	12	38	24	4.25	10	< 1	0.12	30	0.63	945
N32530	201	229	< 5	< 0.2	2.27	28	470	0.5	2	0.62	0.5	9	25	17	3.46	10	< 1	0.34	50	0.75	1040
N32533	201	229	< 5	< 0.2	2.26	80	170	4.5	4	0.37	< 0.5	11	19	19	3.88	20	< 1	0.64	70	0.82	785
N32537	201	229	10	< 0.2	1.40	60	140	2.0	2	0.41	1.5	11	36	18	3.05	10	< 1	0.14	60	0.53	950
N32539	201	229	< 5	1.2	1.66	38	260	0.5	2	0.47	1.5	10	17	17	3.67	10	< 1	0.33	40	0.60	960
N32541	201	229	< 5	< 0.2	1.88	36	160	< 0.5	2	0.38	0.5	9	29	12	2.76	< 10	< 1	0.07	10	0.55	555

CERTIFICATION:

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Project : CASINO PLACER
Comments:

Certificate Date: 03-NOV-93
Invoice No. : I9323132
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323132

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T2070	201	229	2	0.01	21	490	64	< 2	7	25	0.11	< 10	< 10	79	< 10	146
S14358	201	229	1	0.01	21	420	12	< 2	6	17	0.15	< 10	< 10	88	< 10	68
S14360	201	229	3	0.01	14	600	58	2	9	24	0.05	< 10	< 10	57	< 10	108
S14361	201	229	1	0.01	10	450	286	< 2	6	24	0.03	< 10	< 10	37	< 10	478
S14362	201	229	< 1	0.01	7	840	116	< 2	5	12	0.06	< 10	< 10	55	< 10	278
S14363	201	229	1	0.01	18	590	70	< 2	9	30	0.09	< 10	< 10	60	< 10	200
N32516	201	229	< 1	0.01	20	700	92	< 2	11	29	0.12	< 10	< 10	75	< 10	274
N32521	201	229	2	< 0.01	2	630	668	4	12	59	< 0.01	< 10	< 10	28	< 10	1485
N32523	201	229	1	0.01	12	590	74	2	6	22	0.04	< 10	< 10	53	< 10	280
N32524	201	229	< 1	0.01	16	680	22	< 2	7	32	0.11	< 10	< 10	63	< 10	112
N32525	201	229	3	< 0.01	6	570	566	6	9	28	< 0.01	20	< 10	37	< 10	1150
N32528	201	229	1	0.01	7	670	272	2	9	21	< 0.01	< 10	< 10	34	< 10	1400
N32529	201	229	1	0.01	19	820	148	2	10	35	0.11	10	< 10	76	< 10	236
N32530	201	229	1	0.01	9	770	92	< 2	11	35	0.10	10	< 10	71	< 10	248
N32533	201	229	< 1	0.01	11	760	22	< 2	13	21	0.11	20	< 10	38	< 10	78
N32537	201	229	1	0.01	22	450	72	< 2	9	22	0.08	30	< 10	49	< 10	250
N32539	201	229	4	0.01	9	770	250	2	9	22	0.08	< 10	< 10	64	< 10	476
N32541	201	229	< 1	0.01	15	350	60	< 2	4	25	0.07	< 10	< 10	60	< 10	208

CERTIFICATION: Jhai D Ma

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Project : CASINO9045A,B/59A1,2
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 14-AUG-93
Invoice No. :I9318553
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318553

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S 05971	201	229	< 5	< 0.2	1.77	< 2	200	< 0.5	< 2	0.62	< 0.5	12	44	33	3.13	10	< 1	0.10	10	0.79	400
S 05972	201	229	5	< 0.2	1.49	< 2	110	< 0.5	< 2	0.71	0.5	7	28	14	2.02	10	< 1	0.12	10	0.68	285
S 05973	201	229	< 5	< 0.2	2.69	< 2	210	< 0.5	< 2	0.38	0.5	15	42	24	3.62	10	< 1	0.10	10	0.87	485
S 05974	201	229	< 5	0.2	3.03	2	180	< 0.5	< 2	0.18	< 0.5	15	36	27	5.28	10	< 1	0.26	< 10	0.90	375

CERTIFICATION: Stewart Sutherland

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Project : CASINO9045A,B/59A1,2
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 14-AUG-93
Invoice No. :19318553
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318553

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S 05971	201	229	< 1	0.03	27	770	6	< 2	9	34	0.14	< 10	< 10	82	< 10	52
S 05972	201	229	< 1	0.02	12	800	6	< 2	6	31	0.12	< 10	< 10	51	< 10	56
S 05973	201	229	2	0.01	22	240	8	< 2	7	25	0.14	< 10	< 10	88	< 10	58
S 05974	201	229	2	0.01	19	370	10	2	9	13	0.20	< 10	< 10	153	< 10	58

CERTIFICATION:

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Project : CASINO PLACER
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 22-AUG-93
Invoice No. :I9319018
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319018

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T 4701	201	229	140	2.0	1.56	42	230	< 0.5	8	0.29	< 0.5	7	25	168	5.20	< 10	< 1	0.14	20	0.53	385
T 4703	201	229	< 5	0.8	1.23	26	850	1.0	< 2	0.58	0.5	36	120	35	6.16	10	< 1	0.08	20	0.33	2550
S 5942	201	229	< 5	< 0.2	2.62	18	270	0.5	< 2	0.94	0.5	18	123	44	4.17	10	< 1	0.09	10	1.06	565
S 5946	201	229	< 5	0.2	2.12	42	220	< 0.5	< 2	0.77	0.5	12	69	39	3.33	10	1	0.17	10	0.90	370
S 5948	201	229	< 5	< 0.2	2.49	38	210	< 0.5	< 2	0.81	< 0.5	14	102	52	3.54	10	< 1	0.14	10	1.02	335
S 5949	201	229	< 5	< 0.2	3.31	6	170	< 0.5	< 2	1.23	< 0.5	22	18	33	6.14	10	< 1	1.08	20	1.70	1230
S 5975	201	229	< 5	< 0.2	2.74	28	250	< 0.5	< 2	0.58	< 0.5	12	44	32	4.16	10	< 1	0.16	20	0.93	490
S 5976	201	229	< 5	0.2	2.66	< 2	330	< 0.5	< 2	0.46	0.5	10	46	32	3.45	10	< 1	0.10	20	0.80	305
S 5977	201	229	40	0.4	2.36	92	220	< 0.5	< 2	0.44	1.0	12	41	64	3.69	< 10	< 1	0.17	20	0.87	360
S 5978	201	229	405	2.8	1.32	146	470	< 0.5	6	0.15	< 0.5	4	25	38	4.11	10	< 1	0.28	20	0.31	130
S 5979	201	229	10	0.2	2.05	6	260	0.5	6	0.53	< 0.5	10	37	21	3.06	10	< 1	0.07	10	0.72	365
S 5980	201	229	< 5	0.2	1.75	< 2	180	< 0.5	4	0.71	< 0.5	7	33	19	2.21	10	< 1	0.07	10	0.71	225
S 5981	201	229	< 5	< 0.2	1.63	4	220	0.5	4	0.69	< 0.5	10	32	23	2.57	< 10	< 1	0.06	10	0.62	250
S 12367	201	229	< 5	< 0.2	1.43	10	130	< 0.5	< 2	0.50	< 0.5	13	21	10	3.92	< 10	< 1	0.09	10	0.62	615
S 12368	201	229	< 5	0.2	2.55	8	260	0.5	4	0.45	< 0.5	12	58	25	3.89	10	< 1	0.06	20	0.99	590
S 12369	201	229	315	2.6	1.03	16	290	< 0.5	12	0.22	< 0.5	7	23	86	5.76	< 10	< 1	0.52	20	0.31	185

CERTIFICATION: Stuart Bichler

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Project : CASINO PLACER
Comments:

Page Number : 1-B
Total Pages : 1
Certificate Date: 22-AUG-93
Invoice No. : I9319018
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319018

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T 4701	201	229	3	0.01	10	760	62	2	7	24	0.07	< 10	< 10	60	< 10	82
T 4703	201	229	2	< 0.01	66	920	104	4	29	29	< 0.01	< 10	< 10	130	< 10	128
S 5942	201	229	2	0.05	57	520	4	2	19	35	0.02	< 10	< 10	75	< 10	70
S 5946	201	229	1	0.02	32	740	42	< 2	9	31	0.13	< 10	< 10	79	< 10	128
S 5948	201	229	1	0.04	51	800	20	6	10	34	0.12	< 10	< 10	82	< 10	96
S 5949	201	229	1	0.01	9	970	6	< 2	27	37	0.21	< 10	< 10	149	< 10	92
S 5975	201	229	< 1	0.02	20	420	6	2	13	34	0.16	< 10	< 10	101	< 10	70
S 5976	201	229	1	0.01	25	400	8	< 2	10	33	0.16	< 10	< 10	83	< 10	54
S 5977	201	229	< 1	0.01	18	1010	24	< 2	8	25	0.16	< 10	< 10	90	< 10	118
S 5978	201	229	121	0.01	9	770	18	6	3	22	0.03	< 10	< 10	44	< 10	34
S 5979	201	229	1	0.01	17	580	6	< 2	7	32	0.15	< 10	< 10	75	< 10	58
S 5980	201	229	< 1	0.02	16	660	6	2	6	42	0.13	< 10	< 10	64	< 10	62
S 5981	201	229	< 1	0.02	16	740	6	< 2	6	37	0.12	< 10	< 10	68	< 10	60
S 12367	201	229	1	0.01	10	630	2	2	5	24	0.10	< 10	< 10	76	< 10	54
S 12368	201	229	< 1	0.02	23	250	8	2	13	35	0.09	< 10	< 10	86	< 10	62
S 12369	201	229	8	0.04	10	590	42	12	2	33	0.03	< 10	< 10	49	< 10	50

CERTIFICATION: Ian H Bucholz

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Project : CASINO
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 05-OCT-93
Invoice No. :I9322000
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322000

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S14965	201	229	165	< 0.2	1.16	24	110	< 0.5	2	0.19	< 0.5	8	9	291	7.43	< 10	< 1	0.72	20	0.27	110

CERTIFICATION: Ian Bachler

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Project : CASINO
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 05-OCT-93
Invoice No. :19322000
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9322000

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S14965	201	229	18	0.11	5	800	96	4	3	51	0.01	< 10	< 10	38	10	92

CERTIFICATION: Ute H Bachlea

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Project : CASINO
Comments:

Page Number : 1-A
Total Pages : 1
Certificate Date: 27-SEP-93
Invoice No. : I9321471
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321471

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
S143356	201	229	85	0.8	2.45	62	590	< 0.5	4	0.25	0.5	10	37	81	3.12	10	< 1	0.17	20	0.45	245
S143962	201	229	110	0.6	1.44	32	320	< 0.5	4	0.27	< 0.5	6	26	51	3.85	10	< 1	0.17	10	0.42	190
S143963	201	229	40	0.4	1.79	20	300	< 0.5	< 2	0.39	< 0.5	7	38	41	3.45	10	< 1	0.07	10	0.58	205
S143964	201	229	110	0.8	1.74	38	570	< 0.5	6	0.15	< 0.5	4	27	54	3.68	10	< 1	0.17	10	0.32	170

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Project : CASINO
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Page Number : 1-B
Total Pages : 1
Certificate Date: 27-SEP-93
Invoice No. : I9321471
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9321471

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
S143356	201	229	12	0.01	17	1180	36	4	9	121	0.06	< 10	< 10	55	< 10	68
S143962	201	229	6	0.02	12	650	34	4	4	58	0.07	< 10	< 10	46	< 10	50
S143963	201	229	2	0.01	17	610	24	2	7	42	0.11	< 10	< 10	57	< 10	58
S143964	201	229	9	0.01	10	760	28	2	3	75	0.02	< 10	< 10	46	< 10	46

CERTIFICATION:

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Project : CASINO
Comments:

F umber :1-A
Total Pages :1
Certificate Date: 15-AUG-93
Invoice No. :I9318485
P.O. Number :
Account :F

CERTIFICATE OF ANALYSIS A9318485

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K 3894	201	229	20	0.4	2.21	28	130	0.5	< 2	0.20	< 0.5	7	35	28	3.76	10	< 1	0.12	20	0.59	375
K 3895	201	229	80	1.8	1.91	156	270	0.5	2	0.18	< 0.5	9	37	34	4.54	10	< 1	0.35	40	0.51	460
K 3896	201	229	65	0.6	2.42	18	180	0.5	< 2	0.26	< 0.5	10	38	32	3.76	< 10	< 1	0.11	30	0.70	385
K 3897	201	229	110	1.6	2.01	28	180	0.5	< 2	0.27	0.5	9	38	26	3.54	< 10	< 1	0.11	20	0.61	380
K 3898	201	229	115	3.4	2.86	76	220	0.5	< 2	0.26	0.5	6	37	173	5.13	10	< 1	0.14	60	0.47	260
K 3899	201	229	85	2.4	1.14	44	210	< 0.5	< 2	0.14	< 0.5	6	17	34	4.11	< 10	< 1	0.23	20	0.31	190
K 3900	201	229	130	1.0	1.30	32	140	< 0.5	< 2	0.16	< 0.5	5	19	35	3.26	< 10	< 1	0.14	20	0.42	190
K 3901	201	229	70	1.4	1.51	32	120	< 0.5	< 2	0.23	0.5	7	26	45	3.21	< 10	< 1	0.09	20	0.57	235
K 3902	201	229	50	1.4	1.82	42	140	< 0.5	< 2	0.18	0.5	11	27	58	3.75	< 10	< 1	0.11	10	0.61	420
K 3903	201	229	75	1.4	2.04	52	130	< 0.5	< 2	0.21	0.5	8	27	79	3.59	< 10	< 1	0.11	10	0.66	235
K 3904	201	229	45	1.0	2.23	34	200	< 0.5	< 2	0.36	1.0	9	35	64	3.44	< 10	< 1	0.14	20	0.84	205
K 3905	201	229	40	0.8	1.86	22	180	< 0.5	< 2	0.33	0.5	11	29	37	3.04	< 10	< 1	0.11	20	0.79	300
K 3906	201	229	25	0.8	1.91	46	210	0.5	< 2	0.32	1.5	23	35	63	3.86	< 10	< 1	0.06	20	0.66	355
K 3907	201	229	30	0.6	2.13	26	210	< 0.5	< 2	0.35	0.5	9	34	34	3.16	< 10	< 1	0.08	20	0.75	220
K 3908	201	229	20	0.8	1.93	28	250	< 0.5	< 2	0.44	1.0	12	35	48	3.36	< 10	< 1	0.15	20	0.80	360
K 3909	201	229	60	0.6	1.98	18	290	< 0.5	< 2	0.44	0.5	12	37	43	3.44	< 10	< 1	0.12	20	0.78	295
K 3910	201	229	10	0.4	1.72	16	190	< 0.5	< 2	0.42	0.5	9	29	31	2.88	< 10	< 1	0.08	20	0.69	235
K 3911	201	229	20	0.6	2.39	22	230	< 0.5	< 2	0.41	0.5	10	39	34	3.47	< 10	< 1	0.10	20	0.89	205
K 3912	201	229	120	0.6	2.15	22	290	< 0.5	< 2	0.49	< 0.5	11	39	48	3.60	< 10	< 1	0.20	20	0.94	325
K 3913	201	229	35	0.6	2.42	36	270	< 0.5	< 2	0.40	< 0.5	11	40	44	3.74	< 10	< 1	0.17	20	0.89	280
K 3914	201	229	30	0.6	2.18	40	290	< 0.5	< 2	0.38	0.5	10	37	42	3.67	< 10	< 1	0.14	20	0.84	225
K 3915	201	229	40	0.6	2.08	46	300	< 0.5	< 2	0.40	0.5	12	33	46	3.68	< 10	< 1	0.20	20	0.86	390
K 3916	201	229	645	0.6	2.13	52	330	< 0.5	< 2	0.43	0.5	17	33	56	4.11	< 10	< 1	0.23	20	0.94	425
K 3917	201	229	55	0.6	2.46	34	350	< 0.5	< 2	0.38	0.5	11	37	50	3.62	< 10	< 1	0.23	20	0.95	285
K 3918	201	229	50	0.8	2.22	38	340	< 0.5	< 2	0.38	< 0.5	13	37	64	4.28	< 10	< 1	0.29	20	0.92	295

CERTIFICATION: Ian H Bradley

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Project : CASINO
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Certificate Date: 15-AUG-93
Invoice No. :19318485
P.O. Number :
Account :F

CERTIFICATE OF ANALYSIS A9318485

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
K 3894	201	229	< 1	0.01	17	560	30	2	4	23	0.09	< 10	< 10	68	< 10	90
K 3895	201	229	< 1	0.03	18	740	196	14	4	55	0.04	< 10	< 10	45	< 10	92
K 3896	201	229	< 1	0.02	23	480	20	2	5	24	0.15	< 10	< 10	64	< 10	70
K 3897	201	229	< 1	0.02	20	710	80	< 2	4	22	0.12	< 10	< 10	56	< 10	106
K 3898	201	229	1	0.02	17	1230	182	2	4	41	0.04	< 10	< 10	55	< 10	128
K 3899	201	229	2	0.04	8	740	266	2	2	44	0.03	< 10	< 10	36	< 10	96
K 3900	201	229	< 1	0.02	10	520	86	< 2	2	31	0.06	< 10	< 10	44	< 10	72
K 3901	201	229	< 1	0.02	15	610	88	< 2	3	22	0.09	< 10	< 10	54	< 10	76
K 3902	201	229	< 1	0.02	14	610	76	< 2	4	22	0.10	< 10	< 10	65	< 10	92
K 3903	201	229	< 1	0.01	10	650	88	< 2	6	16	0.10	< 10	< 10	64	< 10	112
K 3904	201	229	< 1	0.01	14	730	58	< 2	7	23	0.14	< 10	< 10	75	< 10	220
K 3905	201	229	< 1	0.01	11	850	46	< 2	5	19	0.13	< 10	< 10	72	< 10	164
K 3906	201	229	< 1	0.01	18	800	36	< 2	7	25	0.10	< 10	< 10	66	< 10	190
K 3907	201	229	< 1	0.01	16	690	36	2	6	23	0.14	< 10	< 10	74	< 10	134
K 3908	201	229	< 1	0.01	17	860	40	< 2	7	28	0.13	< 10	< 10	73	< 10	124
K 3909	201	229	< 1	0.01	19	780	28	< 2	7	28	0.13	< 10	< 10	72	< 10	100
K 3910	201	229	< 1	0.01	12	830	24	< 2	6	26	0.13	< 10	< 10	66	< 10	92
K 3911	201	229	< 1	0.01	15	740	32	2	7	24	0.17	< 10	< 10	82	< 10	118
K 3912	201	229	< 1	0.02	17	870	18	< 2	8	29	0.18	< 10	< 10	86	< 10	86
K 3913	201	229	< 1	0.01	18	770	24	< 2	7	24	0.18	< 10	< 10	90	< 10	80
K 3914	201	229	< 1	0.01	16	860	20	< 2	7	23	0.17	< 10	< 10	82	< 10	96
K 3915	201	229	< 1	0.01	16	960	26	< 2	7	24	0.16	< 10	< 10	81	< 10	90
K 3916	201	229	< 1	0.01	17	980	24	< 2	7	27	0.17	< 10	< 10	87	< 10	102
K 3917	201	229	< 1	0.01	17	760	24	< 2	7	24	0.19	< 10	< 10	83	< 10	92
K 3918	201	229	< 1	0.01	14	840	42	< 2	8	28	0.19	< 10	< 10	88	< 10	122

CERTIFICATION: Ivan V Bichler

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Project : CASINO 9045B/59A2
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Total Pages :1
Certificate Date: 14-AUG-93
Invoice No. :19318552
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318552

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K3935	205	274	< 5	< 0.2	1.70	< 2	170	< 0.5	2	0.95	< 0.5	8	112	67	2.40	10	< 1	0.51	20	0.83	430
K3936	205	274	< 5	< 0.2	1.76	< 2	180	< 0.5	2	1.22	< 0.5	8	129	12	2.26	10	< 1	0.57	20	0.79	480
K3937	205	274	< 5	0.2	1.63	< 2	130	< 0.5	2	1.21	0.5	8	69	9	2.41	10	< 1	0.51	20	0.79	525
K3938	205	274	< 5	< 0.2	2.15	< 2	540	< 0.5	< 2	2.20	0.5	18	100	28	3.94	10	< 1	0.89	10	1.17	810

CERTIFICATION: Ian Bichler

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CERTIFICATE OF ANALYSIS A9318552

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
K3935	205	274	1	0.13	6	320	< 2	< 2	4	28	0.11	< 10	< 10	61	< 10	38
K3936	205	274	< 1	0.13	3	300	< 2	< 2	5	31	0.10	< 10	< 10	58	< 10	38
K3937	205	274	1	0.08	2	290	< 2	< 2	7	25	0.07	< 10	< 10	62	< 10	42
K3938	205	274	2	0.07	8	490	6	2	16	51	0.15	< 10	< 10	123	10	60

CERTIFICATION:

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Invoice No. :I9321470
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CERTIFICATE OF ANALYSIS A9321470

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
P19287	208	274	105	0.6	2.25	84	360	< 0.5	4	0.39	< 0.5	8	114	219	4.24	10	< 1	0.56	20	0.59	440
P19288	208	274	125	0.8	1.73	42	240	< 0.5	2	0.64	< 0.5	5	71	282	3.66	10	< 1	0.43	20	0.18	130
P19289	208	274	65	0.8	0.83	24	330	< 0.5	6	0.18	< 0.5	2	84	62	2.91	< 10	< 1	0.40	20	0.07	100
P19290	208	274	40	1.0	1.49	6	320	< 0.5	4	0.03	< 0.5	2	128	63	3.97	< 10	< 1	0.57	20	0.36	95
R5894	208	274	100	0.2	0.65	26	190	< 0.5	2	0.02	< 0.5	< 1	191	47	5.95	< 10	< 1	0.59	10	0.03	15
R5895	208	274	55	0.2	0.76	32	290	< 0.5	2	0.03	< 0.5	< 1	214	52	3.71	< 10	< 1	0.44	10	0.04	15
R5896	208	274	165	0.4	0.71	16	320	< 0.5	4	0.02	< 0.5	1	218	37	2.31	< 10	< 1	0.40	10	0.04	20
R5897	208	274	65	0.8	0.67	18	380	< 0.5	4	0.02	< 0.5	1	186	21	1.71	< 10	< 1	0.39	10	0.04	30
R5898	208	274	35	0.4	0.62	14	400	< 0.5	2	0.02	< 0.5	< 1	157	6	1.40	< 10	< 1	0.47	10	0.04	10
R5899	208	274	205	0.8	1.10	32	250	< 0.5	6	0.06	< 0.5	2	64	217	4.28	10	< 1	0.49	40	0.07	40
R5900	208	274	95	0.6	1.12	76	120	< 0.5	2	0.06	< 0.5	< 1	78	130	6.40	10	< 1	0.70	30	0.10	10

CERTIFICATION: Stewart Buchler

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CERTIFICATE OF ANALYSIS A9321470

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
P19287	208	274	< 1	0.04	2	520	34	< 2	8	37	0.01	< 10	< 10	54	< 10	78
P19288	208	274	< 1	0.01	3	710	18	2	6	44	< 0.01	< 10	< 10	32	< 10	48
P19289	208	274	< 1	0.01	3	590	30	4	3	30	< 0.01	< 10	< 10	22	< 10	22
P19290	208	274	1	0.03	1	750	18	6	4	50	0.01	< 10	< 10	38	< 10	20
R5894	208	274	3	0.06	< 1	530	8	2	1	51	< 0.01	< 10	< 10	13	< 10	18
R5895	208	274	2	0.03	2	360	4	< 2	1	39	< 0.01	< 10	< 10	17	< 10	14
R5896	208	274	1	0.01	2	320	6	2	2	23	< 0.01	< 10	< 10	15	< 10	12
R5897	208	274	1	0.01	2	150	6	4	1	12	< 0.01	< 10	< 10	10	< 10	8
R5898	208	274	7	0.01	2	20	4	4	< 1	10	< 0.01	< 10	< 10	6	< 10	2
R5899	208	274	15	0.03	2	1350	18	2	4	461	< 0.01	< 10	< 10	26	< 10	28
R5900	208	274	15	0.10	1	1310	8	8	3	314	< 0.01	< 10	< 10	31	< 10	14

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CERTIFICATE OF ANALYSIS A9322001

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
P19291	205	274	75	< 0.2	1.89	54	370	< 0.5	< 2	0.12	< 0.5	8	47	306	3.57	< 10	< 1	0.47	30	0.38	160

CERTIFICATION:

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Certificate Date: 05-OCT-93
Invoice No. : I9322001
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CERTIFICATE OF ANALYSIS A9322001

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
P19291	205	274	41	0.01	4	1390	10	6	8	191	0.01	< 10	< 10	37	< 10	62

CERTIFICATION:

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P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9325320

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T2072	208	274	90	0.8	1.20	12	800	< 0.5	< 2	0.15	< 0.5	5	258	267	3.82	< 10	< 1	0.51	20	0.34	120
T2073	208	274	80	0.8	0.84	10	430	< 0.5	< 2	0.05	< 0.5	2	211	175	2.34	< 10	< 1	0.45	10	0.10	60
T2074	208	274	145	1.2	1.20	16	580	< 0.5	< 2	0.18	< 0.5	6	174	291	3.88	< 10	< 1	0.62	10	0.44	175
T2075	208	274	220	1.2	3.01	18	270	< 0.5	4	0.24	< 0.5	7	141	725	3.85	< 10	< 1	0.77	20	1.50	120
T7237	208	274	35	0.8	1.18	12	770	< 0.5	< 2	0.10	< 0.5	3	137	59	1.95	< 10	< 1	0.45	20	0.28	125
T7238	208	274	65	0.8	1.70	6	520	< 0.5	4	0.16	< 0.5	4	117	117	2.94	< 10	< 1	0.47	20	0.35	185
T7239	208	274	130	1.0	1.77	16	600	< 0.5	4	0.14	0.5	3	86	429	5.99	< 10	< 1	0.46	20	0.35	105
T7240	208	274	60	1.2	1.22	4	710	< 0.5	< 2	0.08	< 0.5	2	122	92	1.84	< 10	< 1	0.62	20	0.12	75
T7241	208	274	65	0.4	1.10	10	430	< 0.5	2	0.09	< 0.5	2	120	129	1.60	< 10	< 1	0.32	10	0.16	90
T7242	208	274	160	1.0	1.97	20	1560	< 0.5	2	0.09	< 0.5	2	161	320	4.57	< 10	< 1	0.70	20	0.51	70

CERTIFICATION: [signature]

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Project : CASINO PLACER
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Certificate Date: 01-DEC-93
Invoice No. :I9325320
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9325320

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T2072	208	274	70	0.04	9	420	14	4	3	31	0.02	< 10	< 10	45	< 10	24
T2073	208	274	52	0.03	4	220	6	2	1	14	< 0.01	< 10	< 10	19	< 10	10
T2074	208	274	45	0.03	6	370	6	< 2	3	18	0.07	< 10	< 10	61	< 10	28
T2075	208	274	50	0.03	12	370	10	< 2	13	74	0.07	< 10	< 10	90	< 10	46
T7237	208	274	35	0.02	7	290	2	2	3	28	0.03	< 10	< 10	25	< 10	34
T7238	208	274	104	0.03	5	450	20	4	4	44	0.07	< 10	< 10	40	< 10	54
T7239	208	274	131	0.02	4	990	18	2	3	51	0.02	< 10	< 10	40	< 10	70
T7240	208	274	86	0.03	4	360	6	2	2	31	< 0.01	< 10	< 10	15	< 10	12
T7241	208	274	96	0.01	4	300	12	< 2	2	23	0.01	< 10	< 10	29	< 10	20
T7242	208	274	263	0.02	3	980	8	2	5	33	0.03	< 10	< 10	51	< 10	24

CERTIFICATION:

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Project : CASINO PLACER
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Page Number :1-A
Total Pages :1
Certificate Date: 23-OCT-93
Invoice No. :19323133
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9323133

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K3996	205	276	55	100.0	0.85	46	270	< 0.5	< 2	0.33	21.0	11	90	101	3.18	< 10	< 1	0.32	20	0.45	6810
N32513	205	276	< 5	0.4	1.10	10	590	0.5	< 2	0.29	1.5	12	127	6	2.85	< 10	< 1	0.42	30	0.54	2340
N32515	205	276	< 5	14.8	1.08	124	480	0.5	< 2	0.23	7.5	9	71	9	2.46	< 10	< 1	0.25	30	0.34	5870
N32517	205	276	< 5	0.2	1.57	20	890	< 0.5	< 2	0.35	0.5	7	98	3	2.44	< 10	< 1	0.50	30	0.60	990
N32518	205	276	< 5	0.2	1.49	6	1400	< 0.5	< 2	0.40	0.5	8	71	3	2.51	< 10	< 1	0.49	30	0.52	910
N32519	205	276	< 5	21.2	1.17	32	1360	0.5	< 2	0.44	16.0	10	95	42	3.06	< 10	< 1	0.41	30	0.22	8720
N32520	205	276	< 5	1.6	0.66	28	560	< 0.5	< 2	0.19	5.0	7	92	9	2.01	< 10	< 1	0.27	20	0.13	4340
N32522	205	276	< 5	0.2	0.97	< 2	310	< 0.5	< 2	0.21	0.5	7	125	7	2.35	< 10	< 1	0.28	30	0.19	980
N32526	205	276	< 5	1.0	0.44	92	220	< 0.5	< 2	0.09	3.5	3	89	4	1.31	< 10	< 1	0.17	10	0.05	1830
N32527	205	276	< 5	1.0	1.02	8	1720	< 0.5	< 2	0.11	2.0	5	147	3	2.03	< 10	< 1	0.37	20	0.17	3850
N32531	205	276	< 5	0.4	2.21	6	310	< 0.5	< 2	1.06	< 0.5	10	54	15	3.16	10	< 1	0.18	20	0.74	1030
N32532	205	276	< 5	1.4	1.88	22	360	0.5	< 2	0.52	1.5	12	75	19	3.21	< 10	1	0.23	30	0.16	4100
N32534	205	276	10	0.2	1.09	48	70	2.0	2	0.27	< 0.5	3	69	8	1.41	10	< 1	0.40	30	0.38	285
N32535	205	276	< 5	< 0.2	1.60	90	90	1.5	< 2	0.26	< 0.5	6	125	8	1.95	10	< 1	0.61	40	0.46	375
N32536	205	276	< 5	0.2	0.71	228	300	0.5	< 2	0.18	4.5	10	118	34	2.51	< 10	< 1	0.12	20	0.07	1400
N32538	205	276	< 5	0.2	1.45	16	310	< 0.5	< 2	0.28	2.5	7	150	6	2.33	< 10	< 1	0.37	30	0.31	630
N32540	205	276	< 5	0.2	1.01	26	350	< 0.5	< 2	0.27	< 0.5	9	96	7	2.81	< 10	< 1	0.38	20	0.43	780
N32542	205	276	< 5	0.4	2.22	8	690	< 0.5	< 2	0.49	< 0.5	11	143	7	3.80	< 10	< 1	0.72	20	1.13	775
N32543	205	276	25	0.2	1.77	16	640	< 0.5	< 2	0.38	< 0.5	10	79	10	3.54	< 10	< 1	0.60	30	1.03	865
N32547	205	276	< 5	0.2	1.80	8	590	< 0.5	< 2	0.42	0.5	9	124	4	2.88	< 10	< 1	0.61	20	0.74	570
N32548	205	276	< 5	2.4	1.23	6	450	< 0.5	< 2	0.53	0.5	8	47	6	2.67	10	< 1	0.40	30	0.40	2880
N32550	205	276	< 5	0.8	1.08	66	330	< 0.5	< 2	0.18	1.5	6	146	7	1.96	< 10	< 1	0.38	30	0.24	2800

CERTIFICATION: Ian Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

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Certificate Date: 23-OCT-93
Invoice No. : I9323133
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9323133

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K3996	205	276	< 1	0.01	17	450	>10000	32	6	19	< 0.01	< 10	< 10	25	< 10	2040
N32513	205	276	1	0.02	25	410	160	2	7	17	0.01	< 10	< 10	31	< 10	366
N32515	205	276	13	0.01	4	350	2180	2	4	23	< 0.01	< 10	< 10	24	< 10	896
N32517	205	276	1	0.04	4	400	26	< 2	6	23	0.08	< 10	< 10	49	< 10	152
N32518	205	276	1	0.02	3	400	42	< 2	7	24	0.07	< 10	< 10	45	< 10	154
N32519	205	276	3	0.01	4	450	2840	14	6	52	< 0.01	< 10	< 10	24	10	2050
N32520	205	276	2	0.01	4	290	138	2	4	16	< 0.01	< 10	< 10	18	< 10	784
N32522	205	276	1	0.03	5	400	52	< 2	6	11	< 0.01	< 10	< 10	27	< 10	184
N32526	205	276	1	0.01	3	160	358	< 2	1	7	< 0.01	< 10	< 10	6	< 10	704
N32527	205	276	1	0.02	2	240	274	< 2	4	19	0.02	< 10	< 10	21	< 10	324
N32531	205	276	< 1	0.16	7	970	18	2	7	83	0.08	< 10	< 10	65	< 10	96
N32532	205	276	5	< 0.01	9	770	468	6	11	32	< 0.01	< 10	< 10	59	< 10	500
N32534	205	276	< 1	0.03	6	360	18	2	4	10	0.05	< 10	< 10	16	< 10	36
N32535	205	276	< 1	0.05	10	390	18	< 2	6	13	0.08	< 10	< 10	26	< 10	48
N32536	205	276	3	< 0.01	32	340	110	14	7	26	< 0.01	< 10	< 10	30	< 10	640
N32538	205	276	2	0.06	7	390	14	< 2	6	16	0.02	< 10	< 10	36	< 10	88
N32540	205	276	1	0.03	6	460	12	< 2	8	13	0.08	< 10	< 10	54	< 10	72
N32542	205	276	< 1	0.14	4	570	2	< 2	13	35	0.14	< 10	< 10	101	10	66
N32543	205	276	< 1	0.06	6	630	2	< 2	12	21	0.14	< 10	< 10	96	10	60
N32547	205	276	< 1	0.09	4	530	6	< 2	7	23	0.16	< 10	< 10	74	< 10	116
N32548	205	276	2	0.07	4	840	98	< 2	6	54	0.06	< 10	< 10	48	< 10	158
N32550	205	276	1	0.04	5	270	264	< 2	4	17	0.02	< 10	< 10	22	< 10	296

CERTIFICATION: Ian A Bucklan

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Project : CASINO PLACER
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Invoice No. :I9321998
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CERTIFICATE OF ANALYSIS A9321998

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
N32501	205	276	< 5	< 0.2	0.60	2	160	< 0.5	< 2	0.61	< 0.5	8	61	4	2.51	10	< 1	0.18	20	0.17	765
N32502	205	276	< 5	< 0.2	1.14	< 2	280	< 0.5	2	1.99	< 0.5	10	59	7	3.24	10	< 1	0.47	10	0.36	750
N32503	205	276	< 5	< 0.2	1.64	< 2	240	< 0.5	2	0.37	< 0.5	11	59	6	3.33	10	< 1	0.52	30	0.95	840
N32504	205	276	< 5	< 0.2	1.77	< 2	330	< 0.5	< 2	1.02	< 0.5	11	73	24	3.49	10	1	0.83	20	0.87	810
N32505	205	276	< 5	< 0.2	1.19	< 2	260	< 0.5	< 2	0.76	< 0.5	11	72	15	3.62	10	< 1	0.64	20	0.67	925
N32506	205	276	< 5	< 0.2	1.57	< 2	250	< 0.5	2	0.45	< 0.5	10	66	10	3.33	20	< 1	0.32	40	0.82	795
N32507	205	276	< 5	< 0.2	0.98	< 2	410	< 0.5	< 2	0.87	< 0.5	12	58	10	3.70	20	< 1	0.45	50	0.59	850
N32508	205	276	< 5	< 0.2	1.43	2	280	< 0.5	< 2	0.32	< 0.5	9	64	11	2.90	10	< 1	0.62	20	0.66	635
N32509	205	276	< 5	< 0.2	1.52	< 2	330	< 0.5	< 2	0.63	< 0.5	10	66	8	3.26	10	< 1	0.79	20	0.82	780
N32510	205	276	< 5	0.2	0.68	< 2	170	< 0.5	< 2	0.25	< 0.5	7	58	16	2.42	10	< 1	0.24	30	0.12	675
N32511	205	276	< 5	0.2	0.75	< 2	250	< 0.5	< 2	0.28	< 0.5	9	63	6	2.73	10	< 1	0.34	40	0.32	850
N32512	205	276	< 5	0.2	0.86	< 2	260	< 0.5	< 2	0.37	< 0.5	8	56	4	2.52	10	< 1	0.33	30	0.27	800
N32514	205	276	< 5	< 0.2	0.91	< 2	370	< 0.5	< 2	0.27	< 0.5	8	70	5	2.63	10	< 1	0.42	20	0.42	710

CERTIFICATION: _____

Chemex Labs Ltd.

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ARCHER CATHRO & ASSOC. (1981) LTD.

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SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
N32501	205	276	< 1	0.01	4	750	8	< 2	7	20	0.01	< 10	< 10	43	< 10	54
N32502	205	276	2	0.01	2	590	8	< 2	12	54	0.07	< 10	< 10	65	< 10	62
N32503	205	276	4	0.03	2	590	< 2	< 2	10	15	0.09	< 10	< 10	69	< 10	60
N32504	205	276	2	0.07	3	590	4	< 2	11	40	0.14	< 10	< 10	77	< 10	64
N32505	205	276	5	0.04	3	630	4	< 2	12	33	0.11	< 10	< 10	71	< 10	68
N32506	205	276	3	0.05	4	910	2	< 2	9	24	0.04	< 10	< 10	67	< 10	64
N32507	205	276	1	0.03	7	1270	< 2	< 2	12	39	0.10	< 10	< 10	76	< 10	74
N32508	205	276	6	0.05	4	560	6	< 2	8	17	0.11	< 10	< 10	62	< 10	62
N32509	205	276	2	0.04	2	570	6	< 2	10	27	0.15	< 10	< 10	70	< 10	74
N32510	205	276	10	0.02	4	630	14	< 2	7	11	0.01	< 10	< 10	32	< 10	52
N32511	205	276	1	0.02	6	810	2	< 2	8	12	0.07	< 10	< 10	49	< 10	56
N32512	205	276	< 1	0.03	4	710	8	< 2	7	18	0.03	< 10	< 10	44	< 10	58
N32514	205	276	< 1	0.02	4	730	4	< 2	7	12	0.10	< 10	< 10	51	< 10	58

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CERTIFICATE OF ANALYSIS A9320623

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K3979	205	276	< 5	0.2	1.39	< 2	360	< 0.5	2	0.36	< 0.5	7	153	13	3.07	10	< 1	0.44	20	0.69	700
K3980	205	276	< 5	0.4	0.92	< 2	310	< 0.5	10	0.35	< 0.5	7	129	6	2.90	10	< 1	0.38	20	0.22	755
K3981	205	276	< 5	0.2	0.72	6	530	< 0.5	2	2.15	< 0.5	7	111	5	2.30	10	< 1	0.26	20	0.35	695
K3982	205	276	< 5	0.2	0.78	< 2	220	< 0.5	< 2	0.26	< 0.5	8	130	7	2.88	10	< 1	0.28	20	0.11	840
K3984	205	276	< 5	0.2	1.20	4	310	< 0.5	< 2	0.73	< 0.5	6	114	11	2.81	10	< 1	0.50	20	0.52	745
K3985	205	276	< 5	< 0.2	1.25	6	280	< 0.5	< 2	2.02	< 0.5	6	125	6	2.61	10	< 1	0.45	20	0.44	690
K3987	205	276	< 5	0.2	1.80	12	190	< 0.5	< 2	0.46	< 0.5	8	151	43	2.39	10	< 1	0.44	20	0.73	460
K3988	205	276	< 5	0.2	2.07	6	130	< 0.5	< 2	0.35	< 0.5	8	129	37	2.67	10	< 1	0.57	30	0.79	585
K3990	205	276	< 5	0.2	1.22	< 2	310	< 0.5	< 2	0.43	< 0.5	7	130	13	2.90	10	< 1	0.41	30	0.39	850
K3991	205	276	200	1.0	2.47	14	540	< 0.5	< 2	0.16	< 0.5	117	144	731	3.34	10	< 1	0.29	20	0.54	4550
K3992	205	276	< 5	< 0.2	1.53	6	410	< 0.5	< 2	0.34	< 0.5	7	152	21	3.08	10	< 1	0.52	20	0.71	755
K3993	205	276	< 5	0.4	1.35	4	350	< 0.5	2	0.31	< 0.5	8	124	50	3.17	10	< 1	0.43	30	0.51	805
K3994	205	276	< 5	0.4	1.14	8	380	< 0.5	2	0.36	< 0.5	8	153	46	3.14	10	< 1	0.49	40	0.42	830
P19276	205	276	< 5	0.2	0.92	52	310	< 0.5	< 2	0.21	1.5	7	154	22	2.25	10	< 1	0.44	20	0.07	840
P19277	205	276	< 5	0.6	0.77	22	580	< 0.5	< 2	0.20	7.0	7	167	8	2.86	10	1	0.34	30	0.05	4070
P19278	205	276	< 5	1.6	0.80	22	530	< 0.5	< 2	0.23	7.0	8	126	38	2.66	10	< 1	0.35	20	0.06	3590
P19279	205	276	< 5	0.6	0.69	8	470	< 0.5	< 2	0.23	15.0	7	145	7	4.57	10	< 1	0.40	20	0.10	4620
P19280	205	276	< 5	0.6	0.75	4	370	< 0.5	< 2	2.18	3.0	7	145	11	3.11	10	< 1	0.31	20	0.20	2030
P19281	205	276	< 5	3.4	0.71	32	810	< 0.5	< 2	0.23	12.5	8	188	17	3.86	10	< 1	0.36	30	0.10	>10000
P19282	205	276	< 5	0.4	1.65	30	580	< 0.5	< 2	0.34	6.0	11	128	13	3.63	10	< 1	0.53	20	0.55	2740
P19283	205	276	< 5	3.2	1.04	168	2720	< 0.5	< 2	0.23	7.0	9	114	487	4.56	10	< 1	0.36	20	0.24	5200
P19284	205	276	< 5	0.4	1.74	12	500	< 0.5	< 2	0.40	2.5	10	117	14	3.40	10	< 1	0.21	20	0.59	2340
P19285	205	276	< 5	0.4	1.45	< 2	640	< 0.5	< 2	0.26	3.0	9	138	17	3.43	10	< 1	0.37	30	0.32	1995
P19286	205	276	< 5	0.2	1.14	6	430	< 0.5	< 2	0.24	1.0	7	75	5	2.36	10	< 1	0.26	20	0.27	1670

CERTIFICATION: [signature]

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
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CERTIFICATE OF ANALYSIS A9320623

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K3979	205	276	1	0.07	4	740	2	< 2	7	21	0.10	< 10	< 10	59	< 10	62
K3980	205	276	11	0.03	2	620	6	2	7	18	0.03	< 10	< 10	38	< 10	66
K3981	205	276	12	0.02	2	600	14	< 2	6	88	< 0.01	< 10	< 10	29	< 10	68
K3982	205	276	14	0.04	2	700	16	< 2	6	14	< 0.01	< 10	< 10	36	< 10	100
K3984	205	276	2	0.06	3	620	< 2	< 2	8	40	0.11	< 10	< 10	49	< 10	58
K3985	205	276	1	0.03	2	570	4	2	8	118	0.07	< 10	< 10	45	< 10	54
K3987	205	276	10	0.12	6	270	< 2	2	7	26	0.12	< 10	< 10	61	< 10	40
K3988	205	276	4	0.07	5	280	< 2	< 2	10	18	0.09	< 10	< 10	59	< 10	48
K3990	205	276	4	0.06	4	730	2	< 2	7	20	0.05	< 10	< 10	44	< 10	56
K3991	205	276	55	0.03	8	640	8	< 2	7	25	0.06	< 10	10	59	< 10	94
K3992	205	276	1	0.09	4	740	< 2	< 2	7	22	0.11	< 10	< 10	61	< 10	58
K3993	205	276	10	0.05	5	800	6	< 2	8	16	0.07	< 10	< 10	56	< 10	64
K3994	205	276	21	0.06	6	780	4	2	9	19	0.09	< 10	< 10	53	< 10	64
P19276	205	276	3	0.02	4	430	48	2	3	11	< 0.01	< 10	< 10	14	< 10	210
P19277	205	276	3	0.01	3	390	346	< 2	4	19	< 0.01	< 10	10	16	< 10	880
P19278	205	276	2	0.01	3	380	860	< 2	4	18	< 0.01	< 10	< 10	14	< 10	1005
P19279	205	276	1	< 0.01	2	370	1390	< 2	5	13	< 0.01	< 10	10	27	< 10	2120
P19280	205	276	1	0.01	1	350	768	< 2	5	18	< 0.01	< 10	< 10	24	< 10	574
P19281	205	276	3	< 0.01	6	420	3000	< 2	5	53	< 0.01	< 10	20	23	< 10	1595
P19282	205	276	1	0.03	3	570	204	< 2	10	21	0.08	< 10	< 10	70	< 10	544
P19283	205	276	1	0.01	3	490	1060	18	8	36	0.01	< 10	10	44	< 10	956
P19284	205	276	1	0.02	2	520	470	4	8	28	< 0.01	< 10	< 10	44	< 10	548
P19285	205	276	1	0.01	3	530	184	< 2	9	22	0.01	< 10	< 10	48	< 10	384
P19286	205	276	1	0.01	2	400	46	< 2	5	17	< 0.01	< 10	< 10	28	< 10	224

CERTIFICATION:

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Project : CASINO PLACER
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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K 3863	205	274	< 5	< 0.2	0.93	6	320	< 0.5	< 2	0.43	< 0.5	7	144	2	2.34	< 10	< 1	0.52	30	0.48	600
K 3866	205	274	< 5	< 0.2	1.10	2	270	< 0.5	< 2	0.24	< 0.5	6	113	6	2.49	< 10	< 1	0.31	30	0.49	660
K 3867	205	274	< 5	0.2	0.92	2	260	0.5	6	0.23	< 0.5	6	129	3	2.50	< 10	< 1	0.32	30	0.35	645
K 3868	205	274	< 5	< 0.2	1.23	4	360	< 0.5	< 2	0.30	< 0.5	7	145	4	2.59	< 10	< 1	0.42	30	0.53	645
K 3869	205	274	< 5	< 0.2	1.10	2	440	< 0.5	< 2	0.36	< 0.5	7	116	24	2.81	< 10	< 1	0.55	30	0.53	725
K 3870	205	274	< 5	< 0.2	0.97	10	330	< 0.5	2	0.63	< 0.5	8	109	14	2.84	< 10	< 1	0.39	30	0.48	755
K 3877	205	274	< 5	< 0.2	1.29	6	260	< 0.5	< 2	0.36	< 0.5	7	112	11	2.65	< 10	< 1	0.34	30	0.68	640
K 3878	205	274	< 5	< 0.2	1.29	4	110	< 0.5	< 2	0.55	< 0.5	6	117	8	2.50	< 10	< 1	0.21	30	0.62	695
R 5887	205	274	< 5	< 0.2	1.20	28	190	0.5	< 2	0.23	< 0.5	8	112	4	2.84	< 10	< 1	0.13	20	0.17	775
R 5888	205	274	< 5	< 0.2	0.81	30	140	0.5	< 2	0.46	< 0.5	7	84	1	2.83	< 10	1	0.13	30	0.08	750
R 5889	205	274	< 5	< 0.2	0.91	30	140	0.5	< 2	0.27	< 0.5	8	70	3	2.85	< 10	< 1	0.11	30	0.11	840
R 5890	205	274	< 5	< 0.2	0.94	4	310	0.5	< 2	1.68	< 0.5	7	67	1	2.62	< 10	< 1	0.33	30	0.27	810
R 5891	205	274	< 5	< 0.2	0.89	2	210	0.5	< 2	1.70	< 0.5	7	77	3	2.59	< 10	< 1	0.21	30	0.19	630
R 5892	205	274	25	7.6	0.45	24	280	0.5	< 2	0.09	16.5	4	127	66	1.97	< 10	< 1	0.25	10	0.03	7530
R 5893	205	274	< 5	0.6	0.71	14	270	1.0	< 2	0.20	3.0	7	127	29	2.37	< 10	< 1	0.25	30	0.09	985
P 19271	205	274	< 5	1.6	0.68	22	460	0.5	< 2	0.42	7.5	6	131	18	3.03	< 10	< 1	0.27	40	0.09	6380
P 19272	205	274	25	10.4	0.61	12	400	0.5	< 2	0.24	7.5	7	140	77	2.71	< 10	1	0.32	30	0.10	4690
P 19273	205	274	< 5	1.2	0.49	10	140	< 0.5	< 2	0.06	0.5	1	154	8	0.70	< 10	< 1	0.30	10	0.02	585
P 19274	205	274	< 5	1.0	0.65	20	760	0.5	< 2	0.20	7.0	6	110	9	2.62	< 10	1	0.37	30	0.08	5270
P 19275	205	274	< 5	0.8	0.56	8	400	0.5	< 2	0.16	12.0	6	137	4	2.89	< 10	< 1	0.37	30	0.04	5550

CERTIFICATION: Ian Hendon

Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Page Number :1-B
Total Pages :1
Certificate Date: 01-SEP-93
Invoice No. :I9319869
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9319869

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
K 3863	205	274	< 1	0.07	4	630	6	< 2	6	25	0.11	< 10	< 10	44	< 10	48
K 3866	205	274	2	0.05	4	610	8	< 2	6	14	0.04	< 10	< 10	38	< 10	62
K 3867	205	274	1	0.06	4	600	8	< 2	6	15	0.04	10	< 10	36	< 10	56
K 3868	205	274	1	0.06	6	660	8	< 2	6	17	0.10	< 10	< 10	46	10	74
K 3869	205	274	4	0.07	4	700	10	< 2	7	20	0.13	< 10	< 10	54	10	68
K 3870	205	274	5	0.04	3	680	10	< 2	7	27	0.08	< 10	< 10	47	70	80
K 3877	205	274	1	0.06	4	630	8	< 2	6	20	0.07	< 10	< 10	49	< 10	60
K 3878	205	274	1	0.04	3	600	8	< 2	5	20	0.01	< 10	< 10	36	< 10	64
R 5887	205	274	1	0.01	6	550	16	2	8	14	0.03	< 10	< 10	47	< 10	50
R 5888	205	274	< 1	< 0.01	3	700	14	2	8	12	< 0.01	< 10	< 10	43	< 10	56
R 5889	205	274	< 1	< 0.01	6	690	14	2	9	10	0.02	< 10	< 10	49	< 10	58
R 5890	205	274	< 1	0.01	3	660	12	2	8	35	0.06	< 10	< 10	47	10	54
R 5891	205	274	< 1	< 0.01	3	670	16	4	8	46	0.03	< 10	< 10	46	10	56
R 5892	205	274	12	< 0.01	2	120	5260	8	1	19	< 0.01	< 10	< 10	2	< 10	2240
R 5893	205	274	3	0.02	3	350	682	2	5	10	< 0.01	< 10	< 10	17	< 10	630
P 19271	205	274	4	< 0.01	4	400	960	2	6	65	< 0.01	< 10	< 10	19	< 10	760
P 19272	205	274	2	< 0.01	3	320	>10000	6	3	28	< 0.01	< 10	< 10	13	< 10	1205
P 19273	205	274	7	< 0.01	1	10	278	< 2	< 1	7	< 0.01	< 10	< 10	1	< 10	284
P 19274	205	274	5	0.01	3	420	310	< 2	4	29	< 0.01	< 10	< 10	8	< 10	720
P 19275	205	274	2	< 0.01	3	310	774	< 2	3	22	< 0.01	< 10	< 10	7	< 10	1525

CERTIFICATION: Bert Bichler

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Project : CASINO PLACER
Comments:

Page Number :1-A
Total Pages :1
Certificate Date: 22-AUG-93
Invoice No. :I9319019
P.O. Number :-
Account :FC

CERTIFICATE OF ANALYSIS A9319019

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
9008C K3834	205	274	< 5	0.2	1.17	92	280	< 0.5	< 2	0.07	< 0.5	13	119	168	2.24	< 10	< 1	0.37	10	0.19	615
9008C K3835	205	274	< 5	< 0.2	1.45	< 2	80	0.5	< 2	3.14	< 0.5	9	79	10	2.76	< 10	< 1	0.39	20	0.64	725
SD2 K3929	205	274	< 5	0.2	1.46	6	110	< 0.5	< 2	0.49	< 0.5	6	93	21	1.85	< 10	< 1	0.18	10	0.71	430
SD2 K3930	205	274	< 5	< 0.2	0.90	< 2	90	< 0.5	2	0.28	< 0.5	4	62	19	1.22	< 10	< 1	0.16	10	0.42	250
SD2 K3931	205	274	< 5	0.2	1.53	8	160	< 0.5	< 2	0.42	< 0.5	7	88	34	2.07	10	< 1	0.32	10	0.68	410
SD4 K3932	205	274	< 5	0.2	1.53	8	200	< 0.5	< 2	0.40	< 0.5	7	93	25	2.21	< 10	< 1	0.34	10	0.72	490
9040A K3933	--	--	miss.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9052B K3939	205	274	< 5	0.6	0.51	46	140	0.5	18	1.78	1.0	7	57	25	2.39	< 10	< 1	0.21	10	0.15	740
9062A T4679	205	274	< 5	0.2	1.21	26	310	0.5	< 2	0.29	< 0.5	10	99	10	3.36	< 10	< 1	0.21	20	0.41	1080
9058A T4688	205	274	65	2.6	0.82	680	490	0.5	< 2	0.23	5.5	5	113	46	4.68	< 10	< 1	0.46	30	0.12	2330
9052A T4707	205	274	< 5	0.2	1.03	< 2	380	0.5	< 2	1.40	< 0.5	8	74	6	2.60	10	< 1	0.38	20	0.39	735

CERTIFICATION: Stewart Barker

Chemex Labs Ltd.

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To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Certificate Date: 22-AUG-93
Invoice No. :I9319019
P.O. Number :-
Account :FC

CERTIFICATE OF ANALYSIS A9319019

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
9008C K3834	205	274	1	0.01	2	420	86	< 2	5	8	< 0.01	< 10	< 10	35	< 10	54
9008C K3835	205	274	8	0.02	2	320	< 2	2	11	53	0.03	< 10	< 10	59	< 10	46
SD2 K3929	205	274	1	0.07	8	260	8	< 2	5	21	0.08	< 10	< 10	41	< 10	38
SD2 K3930	205	274	< 1	0.06	4	160	< 2	< 2	3	12	0.05	< 10	< 10	29	< 10	24
SD2 K3931	205	274	1	0.10	9	270	10	2	6	19	0.08	< 10	< 10	51	< 10	38
SD4 K3932	205	274	1	0.09	8	340	4	< 2	6	16	0.11	< 10	< 10	53	< 10	44
9040A K3933	--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
9052B K3939	205	274	23	0.02	2	580	34	4	4	45	0.01	< 10	< 10	23	< 10	72
9062A T4679	205	274	1	0.03	3	540	40	2	7	14	< 0.01	< 10	< 10	37	< 10	96
9058A T4688	205	274	1	0.01	6	450	154	4	6	38	< 0.01	< 10	< 10	23	< 10	848
9052A T4707	205	274	1	0.02	7	600	16	4	8	87	0.07	< 10	< 10	48	< 10	60

CERTIFICATION: [signature]

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Project : CASINO PLACER
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Certificate Date: 14-AUG-93
Invoice No. :I9318556
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9318556

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K 3861	205	274	< 5	0.2	1.79	20	460	< 0.5	< 2	0.32	1.0	12	123	20	3.67	10	1	0.36	20	1.03	670
K 3862	205	274	< 5	0.2	1.61	52	290	< 0.5	< 2	0.48	< 0.5	9	123	19	3.40	10	< 1	0.26	20	1.03	585
K 3871	205	274	260	2.2	0.44	30	210	< 0.5	12	0.02	0.5	< 1	86	67	3.08	10	< 1	0.50	20	0.04	15
K 3872	205	274	330	3.4	0.72	2	230	< 0.5	2	0.02	< 0.5	1	130	49	2.05	10	< 1	0.60	10	0.06	20
K 3873	205	274	930	3.0	0.68	18	260	< 0.5	12	0.03	< 0.5	1	112	24	2.45	< 10	< 1	0.75	20	0.06	20
K 3874	205	274	270	2.2	0.60	18	260	< 0.5	10	0.06	< 0.5	2	130	34	2.35	< 10	< 1	0.59	10	0.08	40
K 3875	205	274	40	0.6	0.52	98	170	< 0.5	< 2	0.12	< 0.5	3	74	39	2.89	< 10	< 1	0.13	20	0.14	60
K 3876	205	274	20	0.2	0.76	14	240	< 0.5	< 2	0.09	< 0.5	3	143	38	2.17	< 10	< 1	0.27	20	0.20	45
K 3877	205	274	10	0.6	0.35	8	70	< 0.5	< 2	0.09	< 0.5	< 1	73	21	1.00	< 10	1	0.11	20	0.06	30
K 3878	205	274	15	0.6	0.98	10	90	< 0.5	4	0.07	< 0.5	2	139	21	1.30	10	< 1	0.16	20	0.12	50
K 3879	205	274	85	0.4	0.66	14	410	< 0.5	4	0.08	< 0.5	2	189	48	1.99	< 10	< 1	0.36	20	0.07	80
K 3880	205	274	240	0.4	0.63	2	340	< 0.5	2	0.03	< 0.5	1	180	25	1.23	< 10	1	0.47	10	0.04	15
T 4702	205	274	30	0.6	1.71	22	360	< 0.5	< 2	0.19	< 0.5	4	107	269	7.42	10	< 1	0.21	10	0.55	340

CERTIFICATION: Stan H Beckler

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Invoice No. : I9318556
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9318556

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
K 3861	205	274	3	0.08	4	600	34	2	9	36	0.10	< 10	< 10	84	< 10	184
K 3862	205	274	3	0.08	3	620	62	< 2	9	30	0.15	< 10	< 10	90	< 10	150
K 3871	205	274	77	0.01	2	390	14	6	1	15	< 0.01	< 10	< 10	27	< 10	8
K 3872	205	274	27	0.01	2	220	14	2	1	16	< 0.01	< 10	< 10	14	< 10	8
K 3873	205	274	45	0.02	3	200	12	2	1	22	< 0.01	< 10	< 10	14	< 10	6
K 3874	205	274	71	0.01	2	260	18	4	1	33	< 0.01	< 10	< 10	16	< 10	12
K 3875	205	274	< 1	0.02	5	550	72	2	2	22	< 0.01	< 10	< 10	15	< 10	38
K 3876	205	274	3	0.03	7	330	34	4	1	19	< 0.01	< 10	< 10	11	< 10	26
K 3877	205	274	1	< 0.01	3	170	60	2	< 1	13	< 0.01	< 10	< 10	4	< 10	14
K 3878	205	274	2	0.01	5	410	70	2	2	15	< 0.01	< 10	< 10	10	< 10	18
K 3879	205	274	4	0.01	3	370	32	< 2	2	16	< 0.01	< 10	< 10	14	< 10	26
K 3880	205	274	7	0.01	2	60	12	< 2	1	6	< 0.01	< 10	< 10	9	< 10	4
T 4702	205	274	2	0.02	2	620	74	2	7	22	0.04	< 10	< 10	62	< 10	70

CERTIFICATION: Stewart Bachlen

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Project : CASINO PLACER 9061-A
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :1
Certificate Date: 21-JUN-93
Invoice No. :I9315643
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9315643

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
T4662	201	229	1680	1.2	1.40	132	100	0.5	44	0.24	0.5	17	20	2200	11.30	10	< 1	0.10	40	0.50	925
T4669	205	274	790	4.6	0.40	124	120	< 0.5	38	0.05	< 0.5	2	73	76	5.41	< 10	< 1	0.86	10	0.02	15
T4670	205	274	800	2.2	0.34	44	120	< 0.5	30	0.01	< 0.5	2	82	131	1.99	< 10	< 1	0.26	10	0.01	10
T4671	205	274	470	3.6	0.29	114	130	< 0.5	84	0.01	< 0.5	2	96	55	1.67	< 10	< 1	0.31	10	0.01	15
T4672	205	274	320	3.0	0.34	50	320	< 0.5	24	0.04	< 0.5	1	98	40	1.14	< 10	< 1	0.27	10	0.02	20
T4673	205	274	390	0.4	1.12	44	290	< 0.5	< 2	0.13	< 0.5	6	136	202	4.47	< 10	< 1	0.20	10	0.48	235
T4674	205	274	45	0.2	1.73	4	320	< 0.5	< 2	0.20	< 0.5	6	162	231	3.81	< 10	< 1	0.25	10	0.84	405
T4675	205	274	200	0.2	1.76	28	560	< 0.5	8	0.17	0.5	1	149	82	2.84	< 10	< 1	0.20	< 10	0.89	330

CERTIFICATION: Ian Bichler

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Project : CASINO PLACER 9061-A
Comments: CC: PACIFIC SENTINEL GOLD CORP.

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Total Pages :1
Certificate Date: 21-JUN-93
Invoice No. :I9315643
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Account :FC

CERTIFICATE OF ANALYSIS A9315643

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
T4662	201	229	2	< 0.01	11	1160	64	8	9	20	< 0.01	< 10	< 10	38	< 10	122
T4669	205	274	< 1	0.02	< 1	290	160	14	1	110	< 0.01	< 10	< 10	12	< 10	6
T4670	205	274	< 1	< 0.01	1	110	170	22	< 1	35	< 0.01	< 10	< 10	5	< 10	8
T4671	205	274	< 1	< 0.01	1	170	328	46	< 1	42	< 0.01	< 10	< 10	4	< 10	20
T4672	205	274	< 1	< 0.01	1	90	50	< 2	< 1	17	< 0.01	< 10	< 10	6	< 10	14
T4673	205	274	1	0.03	3	520	12	2	6	24	< 0.01	< 10	< 10	48	< 10	92
T4674	205	274	3	0.04	4	550	10	< 2	7	21	0.04	< 10	< 10	65	10	94
T4675	205	274	< 1	0.03	6	570	4	< 2	5	29	< 0.01	< 10	< 10	53	10	66

CERTIFICATION: Ian Bichler

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Project : CASINO PLACER
Comments:

Certificate Date: 20-JUL-93
Invoice No. : I9317060
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9317060

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K3837	208	276	145	0.6	2.49	52	530	1.5	< 2	0.29	< 0.5	12	59	1525	7.63	< 10	< 1	1.18	20	1.28	195
K3838	208	276	190	0.8	2.02	6	400	0.5	10	0.23	< 0.5	7	42	443	4.30	< 10	< 1	0.77	20	1.10	140
K3840	208	276	100	0.2	0.50	22	750	< 0.5	< 2	0.11	< 0.5	2	135	77	2.13	< 10	1	0.26	10	0.10	80
K3841	208	276	1690	2.8	0.45	40	250	0.5	26	0.06	< 0.5	1	101	86	3.68	< 10	< 1	0.49	20	0.08	40
K3842	208	276	305	0.8	0.77	30	390	0.5	50	0.10	< 0.5	1	183	77	3.48	< 10	< 1	0.54	20	0.19	50
K3843	208	276	175	1.0	0.64	20	340	0.5	< 2	0.10	< 0.5	< 1	149	90	3.58	< 10	< 1	0.53	20	0.14	20
K3844	208	276	130	1.2	2.20	24	180	0.5	< 2	0.14	< 0.5	3	187	217	6.70	< 10	< 1	0.25	10	0.60	105
K3845	208	276	50	2.6	1.70	8	190	0.5	< 2	0.13	< 0.5	2	89	245	6.10	< 10	< 1	0.22	10	0.65	85
K3846	208	276	80	2.0	2.22	64	180	0.5	< 2	0.15	< 0.5	2	135	244	6.60	< 10	< 1	0.34	10	0.77	115
K3847	208	276	125	1.6	1.89	266	150	0.5	< 2	0.09	< 0.5	3	76	228	5.26	< 10	< 1	0.40	20	0.53	60
K3881	208	276	225	0.2	1.16	30	420	0.5	8	0.14	1.0	3	160	104	2.91	< 10	< 1	0.47	30	0.32	195
K3882	208	276	185	0.2	1.59	58	340	0.5	8	0.23	< 0.5	7	55	279	5.04	< 10	< 1	0.34	20	0.72	200
K3883	208	276	190	2.2	0.56	98	130	0.5	8	0.06	< 0.5	9	93	231	3.34	< 10	1	0.23	10	0.05	75
K3884	208	276	155	6.0	0.37	152	240	0.5	8	0.07	< 0.5	4	86	98	2.66	< 10	< 1	0.20	20	0.03	80
K3885	208	276	60	< 0.2	0.71	54	790	1.0	2	0.19	1.0	19	75	210	3.80	< 10	< 1	0.26	30	0.07	860
K3888	208	276	230	1.2	0.54	10	390	< 0.5	2	0.02	< 0.5	1	115	71	1.99	< 10	< 1	0.32	10	0.08	15
K3889	208	276	255	0.6	0.82	20	330	< 0.5	6	0.04	< 0.5	1	128	67	2.28	< 10	< 1	0.33	20	0.19	40
K3890	208	276	235	1.4	0.59	26	350	< 0.5	2	0.04	< 0.5	1	111	58	1.84	< 10	< 1	0.37	30	0.09	15
K3891	208	276	240	1.4	0.83	20	120	0.5	4	0.14	< 0.5	1	136	72	3.37	< 10	< 1	0.57	10	0.16	30
K3892	208	276	80	0.4	1.99	36	220	0.5	6	0.20	< 0.5	5	67	148	4.39	< 10	< 1	0.37	10	0.95	100
K3893	208	276	115	0.4	1.98	10	250	1.0	< 2	0.17	< 0.5	5	131	188	4.64	< 10	< 1	0.38	10	0.96	100
K3960	208	276	180	0.6	1.06	16	260	0.5	14	0.16	< 0.5	3	101	64	2.78	< 10	< 1	0.31	10	0.49	120
K3961	208	276	135	0.8	1.27	8	290	0.5	6	0.09	< 0.5	2	187	58	2.81	< 10	< 1	0.36	10	0.52	135
K3962	208	276	210	2.0	0.73	20	170	< 0.5	20	0.06	< 0.5	2	111	118	2.46	< 10	< 1	0.28	20	0.28	85
K3963	208	276	145	1.0	0.99	18	290	0.5	18	0.06	< 0.5	2	169	157	4.03	< 10	< 1	0.34	10	0.38	130
K3964	208	276	210	3.0	0.53	58	200	0.5	34	0.03	< 0.5	1	102	102	3.66	< 10	< 1	0.46	20	0.08	70
K3965	208	276	115	1.0	0.92	16	210	0.5	40	0.09	< 0.5	4	176	103	3.61	< 10	< 1	0.33	20	0.35	150
K3966	208	276	140	0.4	1.08	14	220	0.5	6	0.10	0.5	2	134	46	2.58	< 10	< 1	0.25	< 10	0.62	150
K3967	208	276	215	1.0	1.02	30	200	0.5	6	0.07	< 0.5	2	167	51	2.61	< 10	< 1	0.33	10	0.55	100
K3968	208	276	250	1.6	0.75	50	80	0.5	10	0.27	< 0.5	2	99	85	4.18	< 10	< 1	0.50	10	0.21	70
K3969	208	276	355	1.2	0.57	42	90	0.5	22	0.02	< 0.5	2	155	25	3.05	< 10	< 1	0.65	10	0.03	15
K3970	208	276	605	2.2	0.37	46	190	< 0.5	10	0.02	< 0.5	< 1	94	33	1.86	< 10	< 1	0.40	20	0.02	65
K3971	208	274	90	1.4	1.71	8	130	0.5	2	0.16	0.5	4	87	242	4.77	< 10	< 1	0.32	30	0.70	75
K3972	208	274	85	0.6	1.86	8	120	0.5	4	0.14	< 0.5	2	80	232	5.02	< 10	< 1	0.39	30	0.93	85
K3973	208	274	60	0.2	2.02	4	120	0.5	2	0.20	< 0.5	4	120	225	5.09	< 10	< 1	0.31	20	0.96	105
K3974	208	274	65	0.4	1.58	8	160	1.0	2	0.18	< 0.5	3	78	211	5.49	< 10	< 1	0.34	30	0.73	65
K3975	208	274	110	< 0.2	2.02	74	160	0.5	12	0.96	0.5	17	104	208	4.39	< 10	1	0.47	10	1.37	365
K3976	208	274	85	0.4	2.22	68	180	0.5	6	0.86	1.0	14	56	400	4.86	< 10	< 1	0.58	20	1.23	375

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Certificate Date: 20-JUL-93
Invoice No. :I9317060
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9317060

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
K3837	208	276	78	0.09	6	1620	10	2	15	60	0.13	< 10	< 10	114	< 10	216
K3838	208	276	82	0.07	2	1180	8	4	9	45	0.11	< 10	< 10	77	< 10	74
K3840	208	276	66	0.01	< 1	120	12	2	< 1	25	< 0.01	< 10	< 10	5	< 10	18
K3841	208	276	192	0.01	< 1	350	86	4	< 1	97	< 0.01	< 10	< 10	6	< 10	8
K3842	208	276	125	0.02	2	730	38	2	1	131	< 0.01	< 10	< 10	8	< 10	18
K3843	208	276	102	0.02	< 1	550	60	2	1	145	< 0.01	< 10	< 10	7	< 10	12
K3844	208	276	11	0.03	1	500	232	2	6	18	0.01	< 10	< 10	81	< 10	62
K3845	208	276	12	0.04	2	560	90	< 2	6	23	0.03	< 10	< 10	79	< 10	52
K3846	208	276	16	0.04	2	500	78	< 2	9	20	0.04	< 10	< 10	88	< 10	66
K3847	208	276	24	0.02	4	840	76	20	7	24	0.03	< 10	< 10	62	< 10	82
K3881	208	276	1	0.03	9	420	26	2	2	76	< 0.01	< 10	< 10	21	< 10	48
K3882	208	276	< 1	0.03	3	890	20	4	9	56	< 0.01	< 10	< 10	68	< 10	54
K3883	208	276	1	< 0.01	1	500	104	4	2	16	< 0.01	< 10	< 10	21	< 10	34
K3884	208	276	2	0.01	< 1	350	410	14	< 1	25	< 0.01	< 10	< 10	8	< 10	38
K3885	208	276	12	0.01	10	680	38	< 2	2	29	< 0.01	< 10	< 10	10	< 10	182
K3888	208	276	59	0.01	< 1	110	20	2	< 1	12	< 0.01	< 10	< 10	5	< 10	6
K3889	208	276	89	0.02	< 1	680	14	2	1	26	< 0.01	< 10	< 10	10	< 10	14
K3890	208	276	70	0.01	< 1	440	30	2	1	23	< 0.01	< 10	< 10	6	< 10	4
K3891	208	276	98	0.04	< 1	490	22	2	1	33	< 0.01	< 10	< 10	10	< 10	8
K3892	208	276	11	0.03	7	930	16	4	6	20	0.07	< 10	< 10	71	< 10	64
K3893	208	276	17	0.04	7	930	20	4	7	25	0.06	< 10	< 10	66	< 10	56
K3960	208	276	< 1	0.02	1	420	64	2	2	20	< 0.01	< 10	< 10	28	< 10	44
K3961	208	276	< 1	0.02	1	380	36	2	2	24	< 0.01	< 10	< 10	27	< 10	48
K3962	208	276	< 1	0.01	< 1	410	24	2	2	18	< 0.01	< 10	< 10	22	< 10	36
K3963	208	276	1	0.04	< 1	560	26	2	3	27	< 0.01	< 10	< 10	35	< 10	44
K3964	208	276	1	0.02	< 1	480	56	2	2	27	< 0.01	< 10	< 10	20	< 10	28
K3965	208	276	1	0.03	1	470	46	< 2	2	26	< 0.01	< 10	< 10	29	< 10	44
K3966	208	276	< 1	0.04	1	320	50	< 2	2	21	< 0.01	< 10	< 10	29	< 10	50
K3967	208	276	< 1	0.03	1	240	52	< 2	1	24	< 0.01	< 10	< 10	23	< 10	40
K3968	208	276	< 1	0.03	< 1	350	56	< 2	1	18	< 0.01	< 10	< 10	21	< 10	32
K3969	208	276	2	0.02	< 1	80	20	< 2	1	7	< 0.01	< 10	< 10	10	< 10	6
K3970	208	276	1	0.01	< 1	250	44	4	1	41	< 0.01	< 10	< 10	8	< 10	26
K3971	208	274	32	0.03	9	1000	28	4	4	58	< 0.01	< 10	< 10	35	< 10	52
K3972	208	274	45	0.03	7	830	6	< 2	5	56	0.03	< 10	< 10	52	< 10	46
K3973	208	274	15	0.04	7	880	18	2	6	46	0.02	< 10	< 10	56	< 10	52
K3974	208	274	9	0.03	3	980	20	< 2	4	68	0.01	< 10	< 10	48	< 10	44
K3975	208	274	2	0.06	4	630	14	8	10	39	0.06	< 10	< 10	89	< 10	66
K3976	208	274	2	0.06	3	700	18	2	12	37	0.05	< 10	< 10	95	< 10	98

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Page Number : 1-A
Total Pages : 1
Certificate Date: 11-JUL-93
Invoice No. : I9316687
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316687

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
K3832	205	274	5	0.2	1.27	12	450	< 0.5	2	0.16	4.5	35	74	229	2.40	< 10	< 1	0.29	40	0.28	2350
K3833	205	274	60	0.2	2.98	52	280	< 0.5	2	0.32	< 0.5	5	58	216	3.98	< 10	< 1	0.18	10	0.46	90
K3836	205	274	15	0.2	2.85	16	370	< 0.5	2	0.34	< 0.5	7	36	268	2.13	< 10	< 1	0.16	20	0.43	115
K3849	205	274	90	1.2	2.49	42	530	1.0	8	0.42	1.0	13	24	650	4.55	10	< 1	0.61	40	0.64	680
K3851	205	274	200	2.4	0.97	76	160	< 0.5	20	0.06	< 0.5	3	122	210	6.03	< 10	< 1	0.43	10	0.12	90
K3852	205	274	140	0.8	1.85	24	410	< 0.5	16	0.19	< 0.5	4	142	125	5.04	< 10	< 1	0.31	10	0.82	335
K3853	205	274	80	0.6	1.84	8	310	< 0.5	8	0.17	< 0.5	4	107	120	6.21	< 10	< 1	0.29	10	0.80	280
K3854	205	274	105	1.0	1.89	18	240	< 0.5	14	0.24	< 0.5	8	106	174	6.08	< 10	< 1	0.30	10	0.80	470
K3855	205	274	240	2.6	1.34	44	210	< 0.5	46	0.15	< 0.5	3	97	134	5.45	< 10	< 1	0.45	20	0.55	285
K3856	205	274	160	1.6	1.34	24	250	< 0.5	14	0.12	< 0.5	3	161	131	6.13	< 10	< 1	0.50	20	0.61	205
K3857	205	274	135	0.6	1.60	16	260	< 0.5	12	0.25	< 0.5	7	123	132	4.00	< 10	< 1	0.34	20	0.82	335
K3858	205	274	160	1.8	1.43	36	400	< 0.5	16	0.12	< 0.5	3	185	84	3.74	< 10	< 1	0.56	10	0.59	145
K3859	205	274	175	1.4	1.47	28	360	< 0.5	14	0.11	< 0.5	4	140	142	4.63	< 10	< 1	0.43	10	0.57	190
K3860	205	274	135	1.4	1.23	34	290	< 0.5	12	0.08	< 0.5	3	174	129	4.15	< 10	< 1	0.69	20	0.28	110
T4677	205	274	10	0.4	2.10	16	430	0.5	2	0.27	0.5	7	120	7	2.45	< 10	< 1	0.64	40	0.58	625
T4682	205	274	55	2.6	1.85	60	160	1.0	2	0.03	< 0.5	8	87	1985	6.95	< 10	< 1	0.24	20	0.04	75
T4683	205	274	10	0.6	0.79	52	510	< 0.5	2	0.05	< 0.5	1	187	283	4.40	< 10	< 1	0.49	20	0.04	35
T4684	205	274	30	1.4	0.69	86	700	< 0.5	2	0.04	< 0.5	1	161	370	3.30	< 10	< 1	0.39	20	0.03	20
T4689	205	274	15	1.2	1.39	208	440	0.5	2	0.19	3.0	12	151	16	3.68	< 10	< 1	0.44	40	0.43	1970
T4694	205	274	15	0.4	3.18	22	500	< 0.5	2	0.39	< 0.5	6	52	196	2.55	10	< 1	0.25	20	0.49	110

CERTIFICATION: Frank Bidlen

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

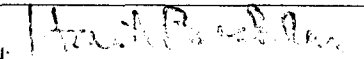
To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO PLACER
Comments:

Page Number : 1-B
Total Pages : 1
Certificate Date: 11-JUL-93
Invoice No. : I9316687
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9316687

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
K3832	205	274	7	0.06	11	360	8	< 2	4	55	0.02	10	< 10	29	< 10	234
K3833	205	274	< 1	0.10	10	600	8	< 2	3	46	< 0.01	< 10	< 10	17	< 10	46
K3836	205	274	2	0.08	4	400	12	< 2	5	46	0.06	10	< 10	27	< 10	58
K3849	205	274	4	0.03	4	730	12	4	15	165	0.02	10	< 10	103	< 10	172
K3851	205	274	3	< 0.01	3	650	52	< 2	2	9	< 0.01	< 10	< 10	27	< 10	94
K3852	205	274	< 1	0.02	7	590	18	< 2	4	21	< 0.01	< 10	< 10	47	< 10	78
K3853	205	274	< 1	0.02	2	650	8	2	4	19	< 0.01	< 10	< 10	52	< 10	68
K3854	205	274	< 1	0.02	8	650	16	< 2	6	23	0.01	< 10	< 10	58	< 10	90
K3855	205	274	< 1	0.03	3	520	64	< 2	3	52	< 0.01	< 10	< 10	39	< 10	56
K3856	205	274	< 1	0.05	5	630	38	< 2	3	39	< 0.01	< 10	< 10	45	< 10	56
K3857	205	274	< 1	0.03	4	570	24	< 2	4	20	< 0.01	< 10	< 10	46	< 10	76
K3858	205	274	1	0.02	4	510	40	< 2	3	26	< 0.01	< 10	< 10	37	< 10	42
K3859	205	274	1	0.02	4	630	28	< 2	3	20	< 0.01	< 10	< 10	38	< 10	60
K3860	205	274	< 1	0.03	4	490	34	< 2	3	26	< 0.01	< 10	< 10	29	< 10	54
T4677	205	274	< 1	0.07	4	420	12	< 2	6	21	0.13	10	< 10	47	< 10	128
T4682	205	274	238	< 0.01	8	700	16	22	1	8	< 0.01	10	< 10	5	< 10	70
T4683	205	274	47	0.01	6	780	8	4	2	36	< 0.01	< 10	< 10	13	< 10	16
T4684	205	274	66	0.01	3	650	14	10	1	64	< 0.01	10	< 10	15	< 10	20
T4689	205	274	1	0.02	6	510	146	2	7	12	< 0.01	10	< 10	27	< 10	438
T4694	205	274	1	0.16	4	460	14	< 2	4	86	0.01	10	< 10	29	< 10	52

CERTIFICATION: 

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
ATTN: CASINO PROJECT
P.O. BOX 4127
WHITEHORSE, YT
Y1A 3S9

Project : CASINO
Comments: ATTN: R. CAMPBELL DELONG

Page Number :1
Total Pages :1
Certificate Date: 24-JUL-93
Invoice No. :I9316606
P.O. Number :
Account :FC

CERTIFICATE OF ANALYSIS A9316606

SAMPLE	PREP CODE		Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %	Ba ppm	Nb ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm
575451	208	274	15.70	2.82	0.02	3.82	6.61	1.65	0.04	0.08	0.18	62.90	0.41	4.65	98.90	1030	12	228	182	3	154
575452	208	274	16.30	1.14	0.02	7.54	4.70	2.61	0.05	1.79	0.14	61.60	0.50	3.30	99.70	1410	9	159	534	< 2	130
575453	208	274	16.60	2.29	< 0.01	3.64	3.07	1.32	0.13	3.31	0.19	66.20	0.45	2.45	99.70	1350	12	105	699	7	171
575454	208	274	13.90	0.06	0.02	4.83	4.78	0.86	0.02	0.02	0.06	69.00	0.50	5.95	100.00	1290	12	227	34	< 2	169
575455	208	274	15.20	4.03	0.02	4.38	3.43	1.77	0.09	2.65	0.12	66.60	0.46	0.90	99.70	1630	10	99	355	4	104
575456	208	274	11.00	0.56	0.03	7.75	3.36	0.41	0.01	0.05	0.04	71.70	0.13	5.15	100.20	368	10	113	14	< 2	96
575457	208	274	15.80	5.78	0.03	5.73	2.42	5.22	0.08	3.60	0.24	57.00	0.62	3.65	100.20	896	9	121	741	2	148
575458	208	274	14.60	0.07	0.02	5.19	7.13	0.62	< 0.01	0.21	0.15	64.70	0.56	6.40	99.70	2010	9	204	299	< 2	144
575459	208	274	12.90	1.68	0.02	0.96	6.50	0.97	0.02	0.20	0.08	73.00	0.14	3.30	99.80	1820	10	140	129	< 2	92
575460	208	274	16.50	2.58	0.02	5.37	2.72	2.37	0.03	3.68	0.21	64.30	0.51	1.70	100.00	1160	10	88	898	< 2	151
575461	208	274	16.10	0.56	0.01	6.13	5.82	2.81	0.03	2.50	0.16	63.30	0.50	2.35	100.30	1780	11	225	373	< 2	139
575462	208	274	15.80	0.18	< 0.01	4.80	3.92	0.74	0.01	2.15	0.24	64.80	0.54	6.65	99.80	1430	11	146	389	< 2	159
575463	208	274	13.20	0.41	0.01	16.20	3.89	1.63	0.02	1.84	0.10	58.50	0.46	3.70	99.90	1100	10	148	326	< 2	117
575464	208	274	16.00	2.73	0.05	5.00	3.12	3.04	0.04	2.82	0.18	62.70	0.67	3.20	99.60	1150	10	151	302	11	130
575465	208	274	12.40	0.61	0.02	3.93	7.74	0.56	0.02	0.28	0.07	70.40	0.24	2.95	99.20	2230	8	172	249	< 2	89
575466	208	274	15.00	3.44	0.01	2.93	3.49	1.91	0.03	3.20	0.14	65.30	0.50	3.15	99.10	1090	10	136	309	< 2	113
575467	208	274	13.40	0.05	0.02	1.82	3.94	0.45	0.01	0.08	0.04	77.80	0.19	2.40	100.20	709	12	125	12	< 2	109
575468	208	274	16.30	3.13	< 0.01	5.32	2.89	2.23	0.04	3.59	0.20	63.60	0.50	2.00	99.80	1110	11	98	854	8	144
575469	208	274	14.00	0.26	0.02	8.15	5.65	2.46	0.04	1.71	0.11	62.10	0.41	4.30	99.20	1280	8	196	249	< 2	112
575470	208	274	16.60	2.75	< 0.01	3.19	5.59	0.86	0.02	0.05	0.19	64.80	0.45	4.70	99.20	609	12	205	133	4	170
575471	208	274	14.60	0.04	< 0.01	7.38	3.42	0.56	0.02	0.05	0.17	62.10	0.64	10.90	99.90	928	11	133	72	< 2	154
575472	208	274	14.80	3.39	0.03	3.62	3.46	1.68	0.02	3.25	0.12	67.40	0.46	1.60	99.80	1250	8	115	346	2	114
575473	208	274	16.40	1.51	< 0.01	5.90	4.53	2.39	0.03	2.65	0.21	62.70	0.51	2.45	99.30	1470	10	151	685	3	140
575474	208	274	16.10	4.10	0.01	3.06	4.33	1.44	0.06	1.96	0.18	63.90	0.42	3.35	98.90	785	12	150	336	< 2	173
575475	208	274	16.30	3.21	0.01	4.45	3.48	2.64	0.03	3.63	0.21	63.70	0.51	1.65	99.80	1060	12	131	964	2	147
575476	208	274	16.10	3.66	0.01	4.77	3.13	2.32	0.05	3.75	0.21	63.70	0.51	0.90	99.10	1180	8	76	930	< 2	150
575477	208	274	16.10	1.94	0.01	4.31	6.33	2.13	0.03	0.94	0.14	63.10	0.50	4.60	100.10	1070	12	176	269	3	131
575478	208	274	15.00	4.25	0.02	4.32	3.48	1.85	0.03	2.40	0.14	64.70	0.51	2.00	98.70	1430	10	119	380	5	116
575479	208	274	14.10	0.04	0.03	3.01	9.11	0.28	0.01	0.36	0.13	66.70	0.36	4.25	98.40	2420	10	199	116	< 2	99
575480	208	274	16.60	3.88	0.01	4.08	4.40	2.15	0.07	2.91	0.30	61.40	0.56	2.60	99.00	1690	11	154	695	6	187

CERTIFICATION: Ian R. Bradshaw

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: CHER CATHRO & ASSOC. (1981) LTD.
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Invoice No. : I9319870
P.O. Number :
Account : FC

CERTIFICATE OF ANALYSIS A9319870

SAMPLE	PREP CODE		Al2O3 %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %	Ba ppm	Nb ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm
31-3	208	226	13.71	0.10	< 0.01	0.96	3.98	0.40	< 0.01	0.21	0.02	79.01	0.16	2.07	100.65	1420	< 10	110	10	10	100
32-3	208	226	14.82	1.81	< 0.01	1.03	5.59	0.23	< 0.01	0.39	0.08	72.18	0.33	4.12	100.60	5560	< 10	105	150	10	250
33-3	208	226	14.08	1.88	0.01	1.69	4.53	0.66	< 0.01	3.03	0.06	72.16	0.23	2.16	100.50	2810	< 10	110	310	10	120
34-2	208	226	19.41	5.74	< 0.01	5.52	1.78	2.78	0.02	3.48	0.18	59.94	0.64	1.26	100.75	1420	< 10	90	620	20	270
35-2	208	226	16.25	3.49	0.01	4.17	2.74	1.95	0.02	3.20	0.14	66.56	0.52	1.95	101.00	2280	< 10	100	370	20	150
36-2	208	226	16.78	4.07	0.02	6.44	1.88	3.05	0.02	2.98	0.20	62.84	0.70	2.10	101.10	1280	< 10	100	400	40	140
37-2	208	226	14.79	3.19	< 0.01	4.69	3.51	2.33	0.03	2.92	0.17	66.10	0.75	2.57	101.05	3740	< 10	120	360	30	200
38-8	208	226	14.31	1.17	< 0.01	3.40	7.29	0.77	0.03	0.89	0.15	69.83	0.33	2.98	101.15	1390	< 10	190	180	20	90
39-8	208	226	15.24	1.01	< 0.01	3.55	8.63	0.82	< 0.01	0.63	0.26	67.51	0.49	3.17	101.35	2240	< 10	210	120	40	110
40-8	208	226	14.52	0.98	< 0.01	3.39	9.03	0.72	0.01	0.61	0.17	68.71	0.33	2.75	101.25	2810	< 10	210	180	20	100
41-8	208	226	14.35	0.21	< 0.01	2.15	8.73	0.23	0.04	0.67	0.11	71.58	0.33	1.69	100.10	4390	< 10	200	160	10	100
42-9	208	226	16.70	0.17	< 0.01	2.67	7.71	0.31	< 0.01	0.62	0.17	69.54	0.46	3.08	101.45	3430	< 10	175	140	20	110
43-9	208	226	15.47	1.87	< 0.01	1.15	4.63	1.17	0.01	0.37	0.17	70.16	0.35	5.32	100.70	990	< 10	105	180	10	130
44-9	208	226	14.69	0.25	< 0.01	7.67	6.06	0.45	< 0.01	0.38	0.20	65.26	0.33	5.50	100.80	2720	< 10	150	160	10	90
45-9	208	226	15.44	0.86	< 0.01	2.47	7.39	0.73	0.01	0.52	0.18	69.83	0.31	3.41	101.15	2060	< 10	150	190	10	110
46-9	208	226	14.47	0.30	< 0.01	6.48	7.17	0.70	0.06	0.49	0.17	65.98	0.36	4.21	100.40	3830	< 10	170	120	10	90
47-1	208	226	18.52	4.29	< 0.01	5.61	2.89	3.66	0.04	3.48	0.24	58.35	0.65	3.60	101.35	640	< 10	165	390	30	180
48-1	208	226	18.21	5.46	< 0.01	7.91	3.33	4.82	0.03	3.10	0.30	54.21	0.83	2.74	100.95	1200	< 10	195	520	20	90
49-1	208	226	18.05	5.42	< 0.01	8.80	2.19	4.06	0.04	2.75	0.33	55.53	1.05	3.11	101.35	1310	< 10	75	510	30	70
50-50	208	226	15.47	0.12	< 0.01	1.23	4.68	0.69	< 0.01	0.23	0.02	75.86	0.43	2.65	101.40	930	< 10	155	10	10	140
51-K	208	226	14.54	0.77	< 0.01	1.58	10.29	1.20	0.01	0.61	0.10	70.20	0.30	1.57	101.20	2720	< 10	245	220	10	120
52-K	208	226	15.00	2.17	< 0.01	2.14	4.43	1.51	0.01	3.27	0.11	68.38	0.37	3.35	100.75	1110	10	145	420	10	120
53-K	208	226	15.11	1.91	< 0.01	4.18	4.46	1.95	0.01	3.22	0.11	65.92	0.41	3.34	100.65	1140	< 10	145	510	10	130
54-K	208	226	14.29	0.63	< 0.01	1.48	10.42	1.03	< 0.01	0.66	0.09	71.00	0.29	1.45	101.35	2750	10	210	160	10	110
55-K	208	226	14.05	0.62	0.02	1.04	9.71	0.92	< 0.01	0.63	0.12	71.66	0.29	1.27	100.35	2730	< 10	205	190	10	110
56-P	208	226	15.62	2.69	0.01	6.40	4.58	2.38	0.02	3.32	0.23	62.38	0.51	2.13	100.25	1260	< 10	125	660	20	130
57-P	208	226	16.48	3.30	0.01	3.52	3.09	2.04	0.02	3.87	0.22	64.16	0.52	3.02	100.25	950	< 10	105	690	20	130
58-P	208	226	15.73	1.77	< 0.01	4.47	5.77	2.36	0.02	2.16	0.24	62.32	0.49	4.29	99.63	1570	10	140	300	10	140
59-P	208	226	9.87	1.03	0.01	12.81	5.33	1.19	0.01	1.06	0.13	64.20	0.35	2.19	98.18	1190	< 10	110	480	10	80
60-P	208	226	14.85	2.09	< 0.01	6.40	6.26	2.09	0.02	2.58	0.17	60.23	0.48	4.39	99.57	1560	< 10	165	380	10	120
61-P	208	226	14.36	2.30	< 0.01	6.73	5.99	1.85	0.01	2.64	0.16	60.51	0.46	4.56	99.58	1510	< 10	155	380	10	120
589962 H	208	226	16.54	0.78	< 0.01	4.43	3.94	3.35	0.03	4.25	0.12	62.99	0.66	3.20	100.30	450	< 10	175	380	10	160

CERTIFICATION: David Bradley

0100-63760
093190
APPENDIX 10
c.1

APPENDIX X

TEST PIT DESCRIPTIONS

093190

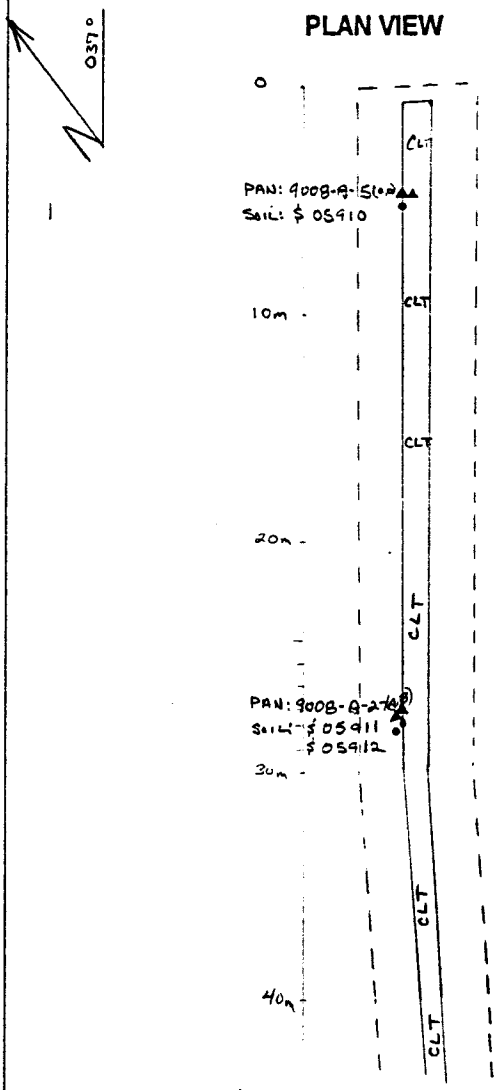
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008 - A	EQUIPMENT TYPE: HITACHI HOE @ $130/HR.
NORTHING:	EQUIPMENT HOURS: 8
EASTING:	EQUIPMENT COST: $1040
STARTED: JUNE 5, 1993	LABOUR COST: 4 HRS AT 26.25/HR - $105.
FINISHED: JUNE 24, 1993	TOTAL EXPENDITURE: $1145.00

PLAN VIEW

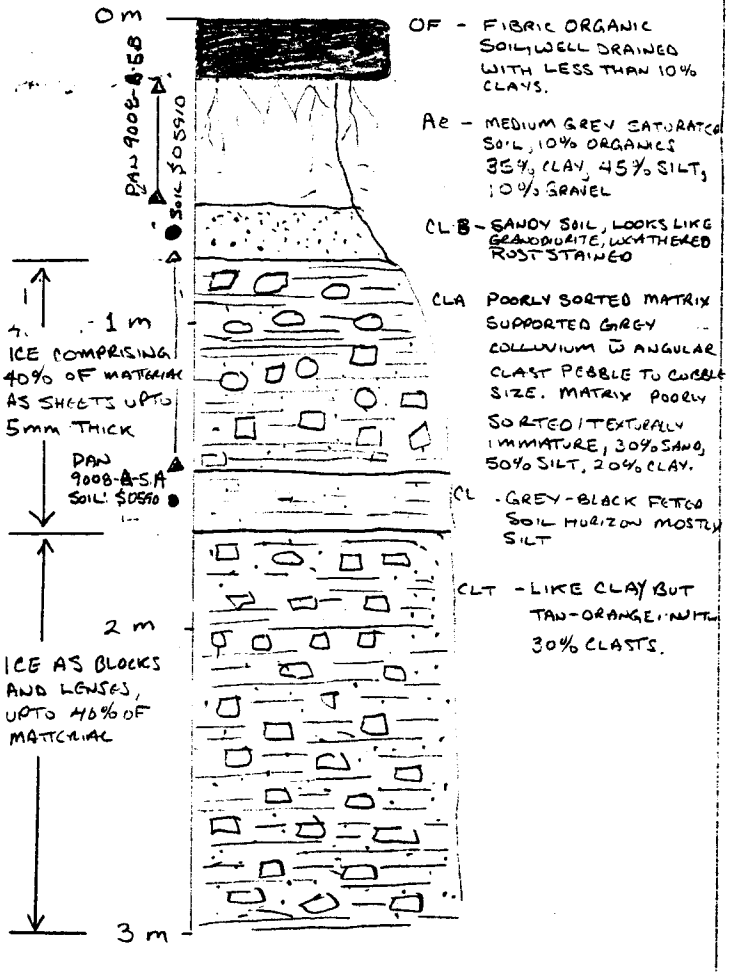
SCALE: 1:300



No bedrock exposed.

Dimentions (m)
5.6 x 40 x 3

SOIL PROFILE @ 5m



Scale: 1:25

COMMENTS: CONTINUOUS PERMAFROST BEDROCK NOT REACHED

S05910 25, 25, 1, 16
S05911 105, 30, <1, 16
S05912 86, 50, 1, 24

SAMPLE NUMBERS: Soil: S 05910 - S05912 PAN 9008-A-5A, 9008-A-5B, 9008-A-27A, 9008-A-27B

PANNING CONCENTRATE DESCRIPTION:

- See adjoining page.

Panning Concentrate Description

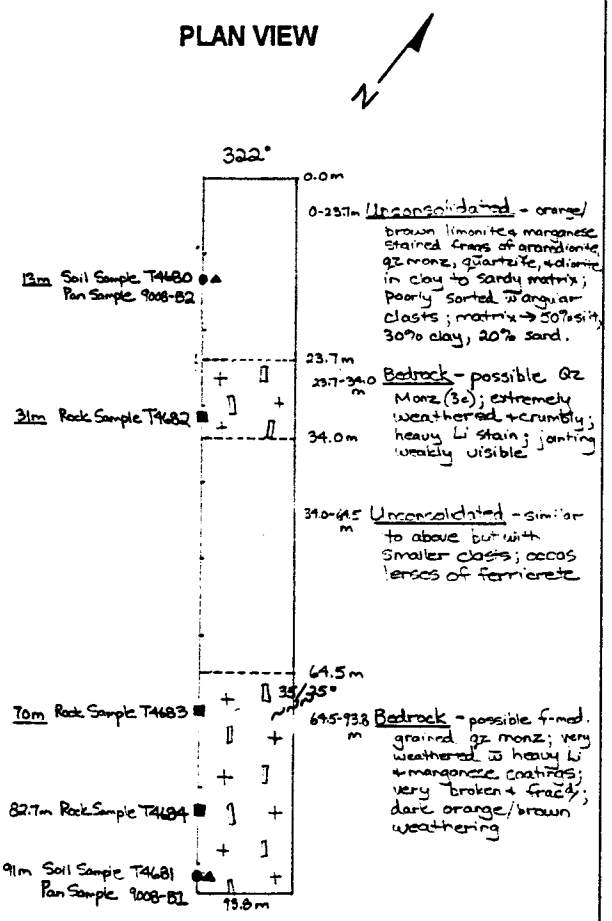
PS9008A-27A	Sample taken from approximately 1.3m above the trench floor -? m the grey → black felted soil horizon (CL) @ 27m; subrounded grains of decomposed granodiorite / fine-grained quartz monzonite. mostly Qz; minor feldspar, mica, magnetite; light orange-brown colour; average particle size = 10 µm., minor yellow fluorescent grains
PS9008A-5B	Sample taken from the upper med-grey soil/clay layer, @ 5m @ 2.5m from the bottom of the trench; minor MG; tan coloured; Remnant granodiorite that has broken down: mostly Qz, mafics (HB>BI); very minor magnetite; some remnant Pyrite.
PS9008A-27B	Sample taken from the upper soil/clay layer @ 27m, tan coloured; minor magnetite; remant granodiorite: mostly quartz, muscovite, pyrite, mafcs (BI > HB); minor feldspar; Ave. partical size: 15-20µm.
PS9008A-5a	Sample taken from the upper soil/clay layer @ 5m; Orange-tan coloured; decomposed granodiorite: mostly quartz, some feldspar., remnant Pyrite; HB > BI. Ave. partical size = 20 µm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	P.L. 9008
CREEK:	Casino
TYPE:	Creek

PIT NUMBER: 9008-B	EQUIPMENT TYPE: D7 @ 100/HR, HITACHI HOE @ $130/HR
NORTHING:	EQUIPMENT HOURS: D7: 2HR, HOE: 5HR
EASTING:	EQUIPMENT COST: $850.00
STARTED: June 5, 1993	LABOUR COST: 9 1/2 HRS AT $26.25/HR = $249.38
FINISHED: June 19, 1993	TOTAL EXPENDITURE: $1099.38

PLAN VIEW



Dimentions (m)
94 x 1.5 x 2.2

Scale: 1:1000

SOIL PROFILE

Unconsolidated Material
- orange/maroon in colour; very weathered; Li + manganese stained fragments of granod., qz monz, quartzite & diorite in clay to sandy matrix; slightly lithified

COMMENTS: PREDOMINANTLY COLLUVIUM WITH LIMONITE STAINING, LOCALLY FORMING ferricrete.

Soil: T4680	3590, 330, 489, 28	Rock: T4682	1985, 55, 238, 16	/0m
T4681	2470, 260, 224, 28	T4683	283, 10, 47, 8	/0m
		T4684	370, 30, 66, 14	/0m

SAMPLE NUMBERS: Soil: T4680, T4681 ; Rock: T4682, T4683, T4684 ; Pan 9008-B1 & 9008-B2

PANNING CONCENTRATE DESCRIPTION:

P9008B2: light orange-brown colour; sample taken just above bedrock @ 13m; mostly quartz, minor magnetite, HB, some partially decomposed feldspar; average particle size - 10mm. minor yellow fluorescent grains

P9008B1: sample taken @ 91m just above bedrock; poorly sorted angular fragments of decomposed granodiorite-?: quartz, HB, feldspar, magnetite; average particle size: 15mm. minor yellow fluorescent grains

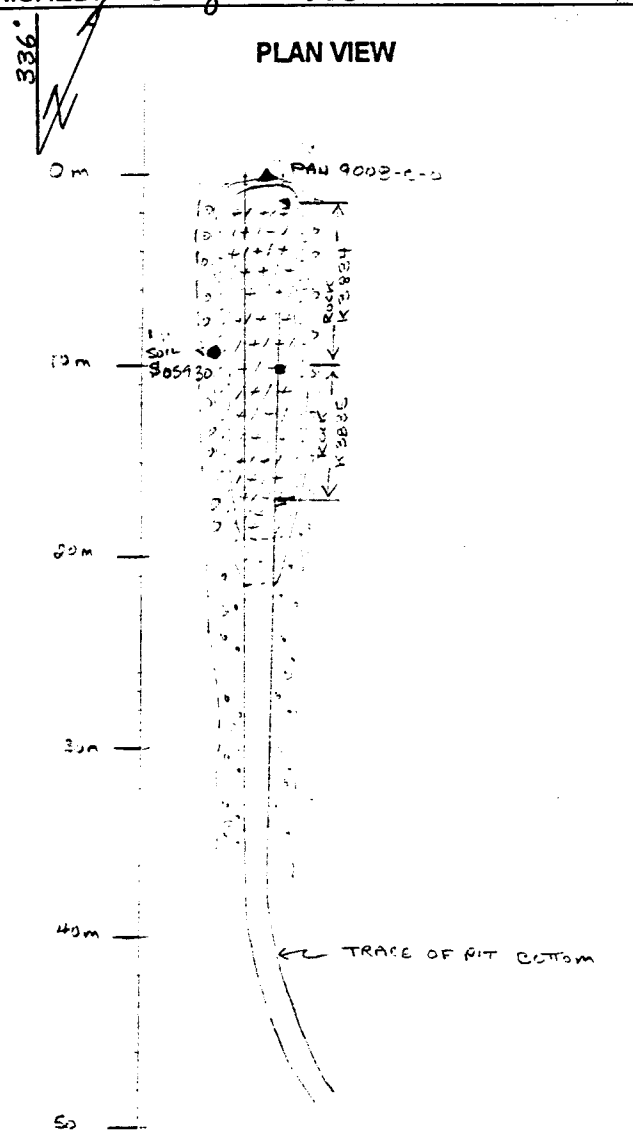
✓

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008-C	EQUIPMENT TYPE: D7 WINCHCAT, HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D7: 1HR, HOE 5HR
EASTING:	EQUIPMENT COST: D7@ 100/HR = $100, HOE@130/HR = $650
STARTED: June 5, 1993	LABOUR COST: 4 1/2 HRS AT 26.25/HR = 118.13
FINISHED: July 10, 1993	TOTAL EXPENDITURE: $868.13

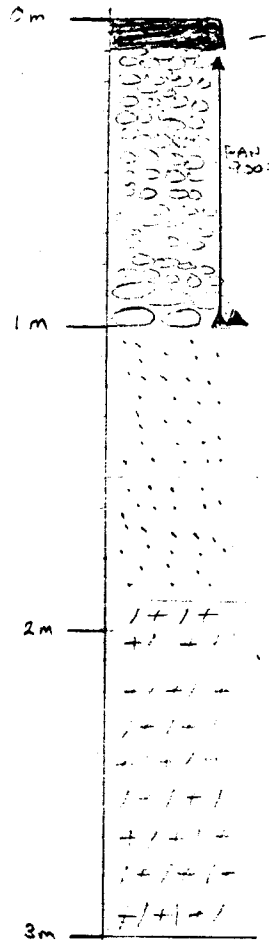
PLAN VIEW



Dimentions (m)
50 x 3.5 x 3

Scale: 1:400

SOIL PROFILE @ 0m



- 0.0 - 1.0 MESIC ORGANIC SOIL
- 0.1 - 1.0 BEDDED CREEK GRAVELS with Goethite staining, well drained, unfrozen.
- 1.0 - 1.5 RESIDUAL SAND AND SILT FROM IN SITU WEATHERING OF GRANODIORITE. COLOUR ORANGE TO CINNAMON BROWN.
- 1.5 - 1.9 V. FRIABLE LIMONITE STAINED GRANODIORITE WITH RELICT textures Preserved
- 1.9 - 2.9 BLOCKY CLAY-WEATHERED GRANODIORITE - ALL MAFICS LOST. LIMONITE STAINING ON JOINTS.

Scale: 1:25

COMMENTS:

Soil: S05930 631, 70, 7, 162 Rock: K3834 168, <5, 1, 86 8/m
K3835 10, <5, 8, <2 5/m

SAMPLE NUMBERS: SOIL: S05930, PAN: 9008-C0 ROCK: K3834, K3835

PANNING CONCENTRATE DESCRIPTION:

9008C-0 COARSE FRACTION: FERRICRETE WITH GRANODIORITE FRAGMENTS
FINE FRACTION: BIOTITE / MUSCOVITE = 10%, QUARTZ SAND 60%
MAGNETITE 1%. CONCENTRATE FINE SAND

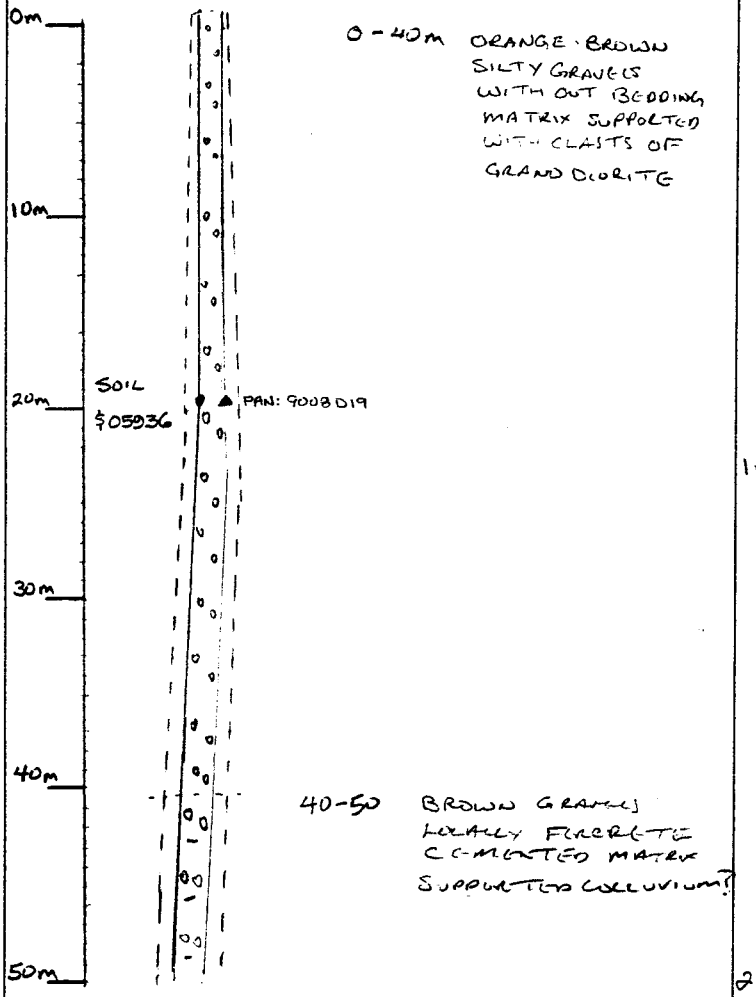
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008-D	EQUIPMENT TYPE: D7 WINCH CAT, HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D7: 1HR, HOE: 4.5
EASTING:	EQUIPMENT COST: D7 @ 100/HR = $100, HOE @ 130/HR = 585
STARTED: June 16/93	LABOUR COST: 3 HRS AT 26.25/HR = 78.75
FINISHED: July 11/93	TOTAL EXPENDITURE: $763.75

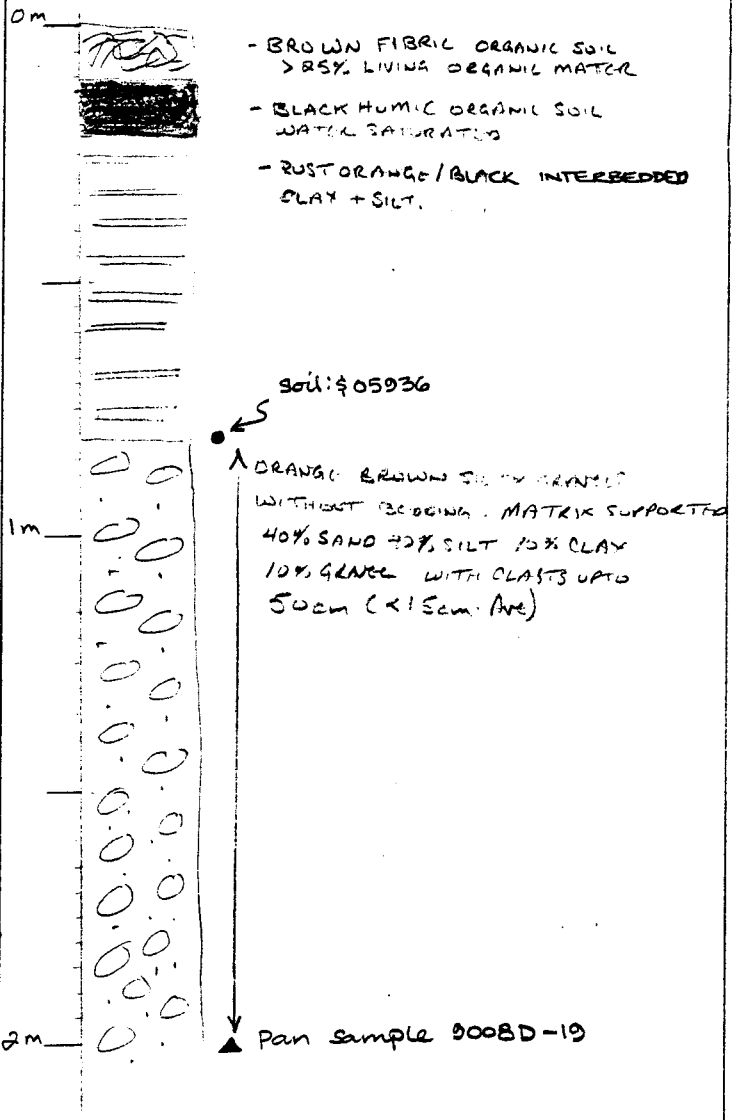
SCALE: 1:400

PLAN VIEW



Dimentions (m)
50 x 2.3 x 2

SOIL PROFILE @ 19m



COMMENTS: No bedrock exposed.

Soil: $05936 64, 65 2,944

SAMPLE NUMBERS: Soil: $05936 Pan: 9008D-19

PANNING CONCENTRATE DESCRIPTION:

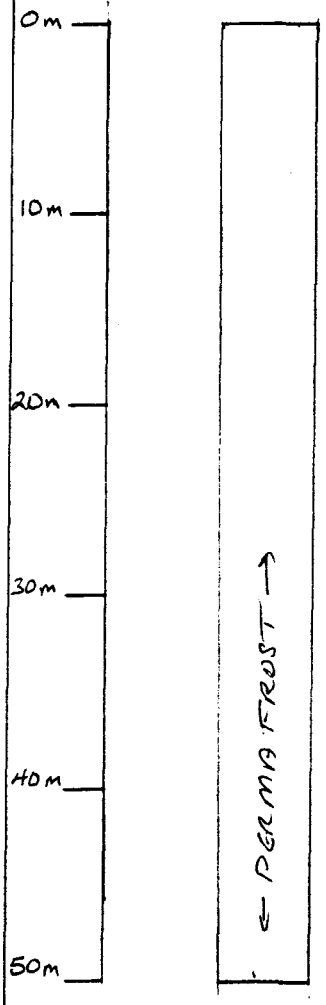
9008-D-19 COARSE FRACTION: FLAT CUBIC OF ORANGE GRANITIC GRANODIORITE
PAN: SILT TO FINE-SAND: 5% MAGNETITE 0.1% SCHEELITE/POWELLITE 10% Muscovite

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008-E	EQUIPMENT TYPE: D6-WIDETRACK CAT
NORTHING:	EQUIPMENT HOURS: 2 HR.
EASTING:	EQUIPMENT COST: @ $100/HR = $200
STARTED: JUNE 24 1993	LABOUR COST: 1 1/4 HRS AT 26.25/HR - 39.38
FINISHED: JUNE 24, 1993	TOTAL EXPENDITURE: $239.38

PLAN VIEW



30cm OF ORGANIC FIBRIC & MESIC MATERIAL REMOVED

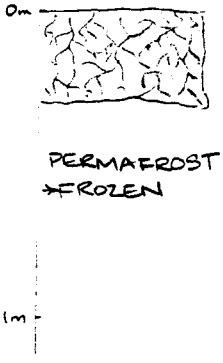
PERMAFROST PROHIBITS STRIPPING AT THIS TIME

Dimentions (m)
50 x 2.4 x 0.3

Scale: 1:200

SOIL PROFILE

30cm OF FIBRIC-MESIC ORGANIC SOILS



Scale: 1:25

COMMENTS: THE ORGANIC LAYER WAS STRIPPED. PERMAFROST WAS UNPENETRABLE. FURTHUR TRENCHING WAS ABANDONED.

SAMPLE NUMBERS: None Taken.

PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

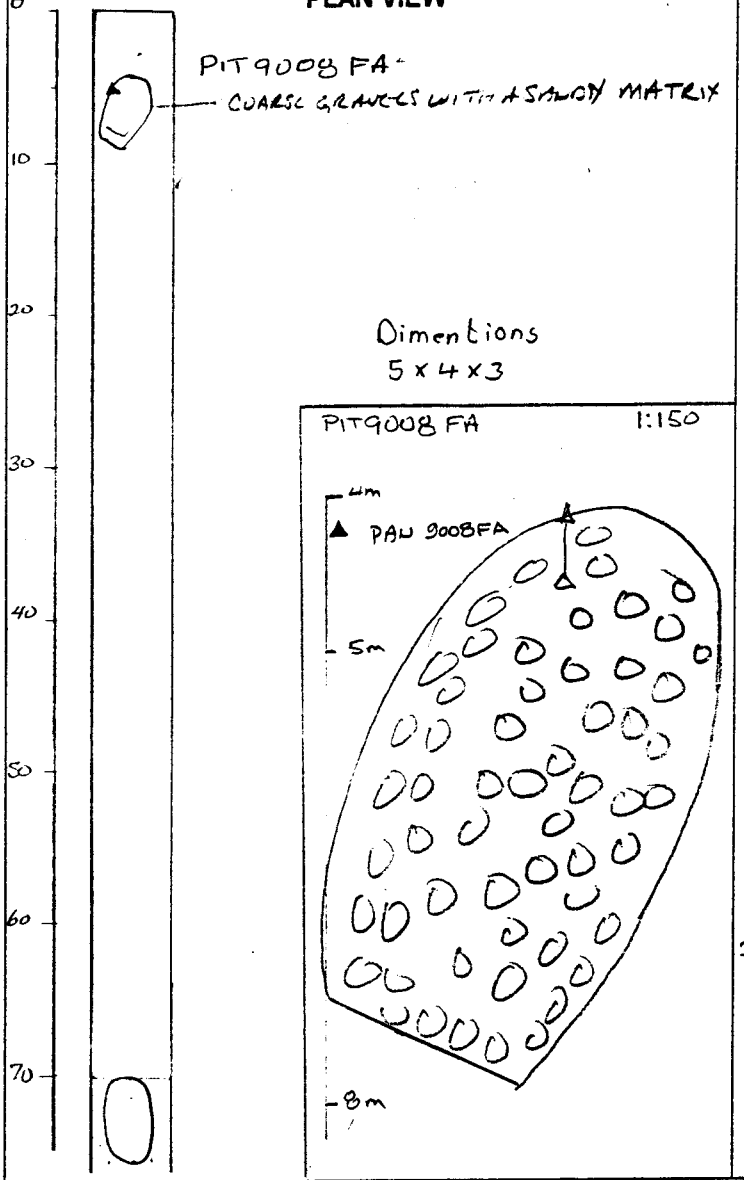
LEASE NO.: PL9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008-FA
NORTHING:
EASTING:
STARTED: June 24, 1993
FINISHED: July 12, 1993

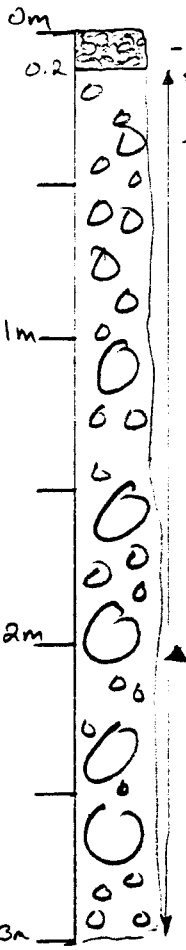
EQUIPMENT TYPE: D6 WIDE TRACK CAT, HITACHI HOE
EQUIPMENT HOURS: D6 1 HR HOE: 1 HR
EQUIPMENT COST: D6 @ 100/HR + 100 HOE @ 130/HR = $ 130
LABOUR COST: 1½ HRS AT 26.25/HR = 39.38
TOTAL EXPENDITURE: $ 269.38

scale 1:500

PLAN VIEW



SOIL PROFILE taken @ 4m.



- BLACK HUMIC ORGANIC SOIL, WATER SATURATED
- COBBLY GRAVEL AND SAND WITH SOME BOULDERS – GRAVELS ARE WELL ROUNDED CONSISTING OF MOSTLY GRANODIORITE AND LESSER YM Gneiss. AVERAGE CLAST SIZE 40cm. MATRIX CONSISTS OF CLEAN SANDS WITH LITTLE FINES. MATERIAL IS WELL DRAINED

▲ Pan Sample: 9008FA

scale: 1:25

COMMENTS: – No bedrock exposed.
– No soil sample taken.

SAMPLE NUMBERS: PAN 9008 FA.

PANNING CONCENTRATE DESCRIPTION:

9008FA COARSE FRACTION: PRINCIPALLY SUB ROUNDED CLASTS OF GRANODIORITE
FINE FRACTION: 5% MAGNETITE SAND, 0.03% POWELLITE ? PHOSPHORESCENT
1% ~~SAND~~ MUSCOVITE, 80% QUARTZ, 0.5% HORNBLENDE + BIOTITE
→ Sample taken @ 4m in the cobbly gravels.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

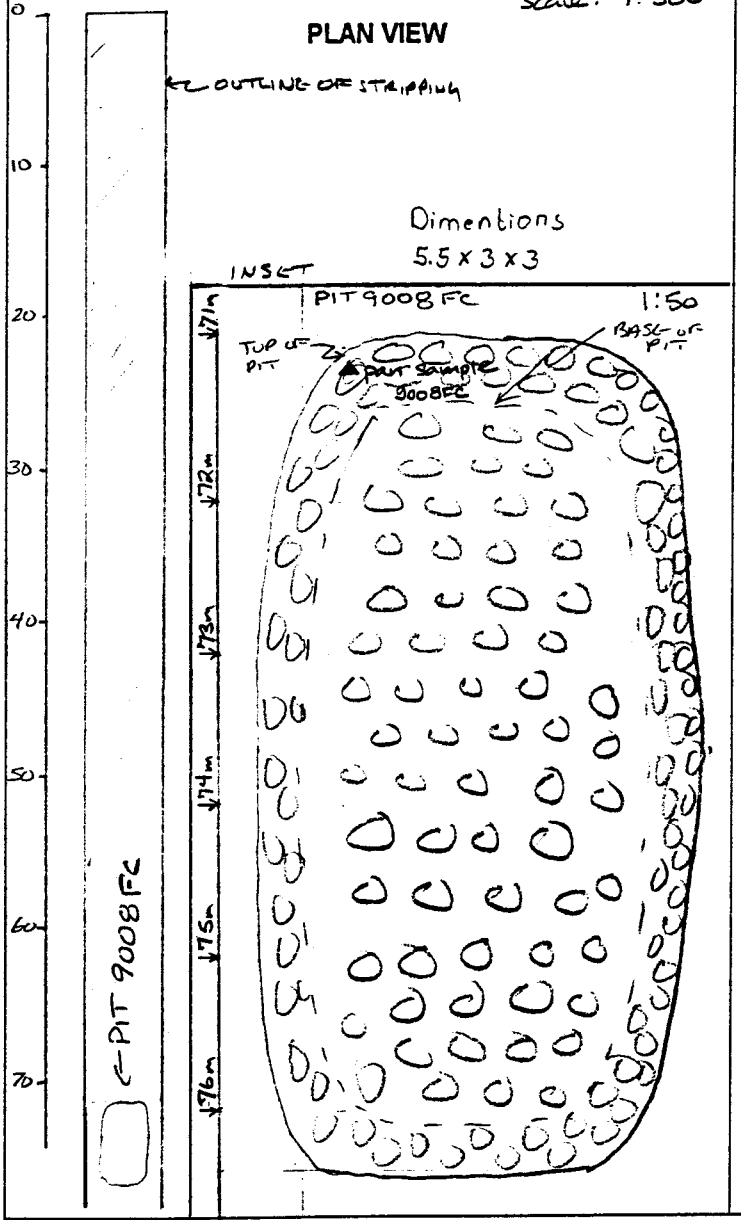
LEASE NO.: PL 9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008-FC
NORTHING:
EASTING:
STARTED: June 24/1993
FINISHED: July 12/1993

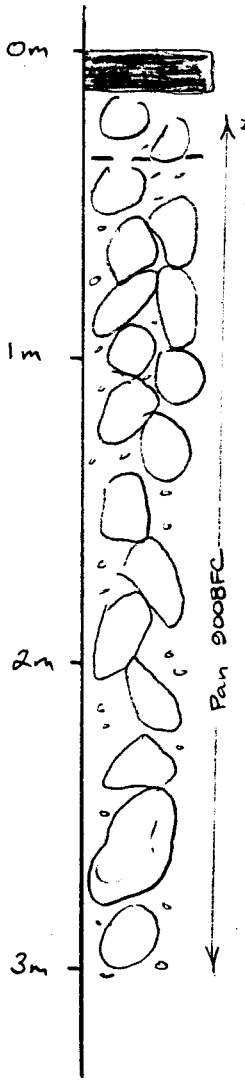
EQUIPMENT TYPE: D6 WIDETRACK, HITACHI HOE
EQUIPMENT HOURS: D6: 1 HR, HOE: 0.5 HR
EQUIPMENT COST: D6 @ 100/HR = 100, HOE @ 130/HR = 65
LABOUR COST: 1 1/2 HRS AT 26.20/HR = 39.38
TOTAL EXPENDITURE: $204.38

Scale: 1:500

PLAN VIEW



SOIL PROFILE @ 71m.



- BLACK HUMIC ORGANICS WITH SOME GRAVEL
- REDISH BROWN MATRIX FLUVIAL GRAVELS
- COBBLY CLAST SUPPORTED FLUVIAL GRAVELS WITH COBBLES OF GRANODIORITE AND LESSOR GNEISS. MATRIX CONSISTS OF CLEAN SANDS MODERATELY SORTED.

Scale: 1:25

COMMENTS: EXCELLENT GRAVELS
→ no soil sample taken.

SAMPLE NUMBERS: PAN: 9008 FC
PANNING CONCENTRATE DESCRIPTION:
9008 F.C. COARSE FRACTION: GRANODIORITE & PEBBLES
FINE FRACTION: 90% QUARTZ, 5% MAGNETITE, 1% HORNBLEND + BIOTITE, 1% MISCELLANEOUS TRACE POWELLITE (YELLOW MINERAL)
→ sample taken @ 71m in the fluvial gravels and cobbles.

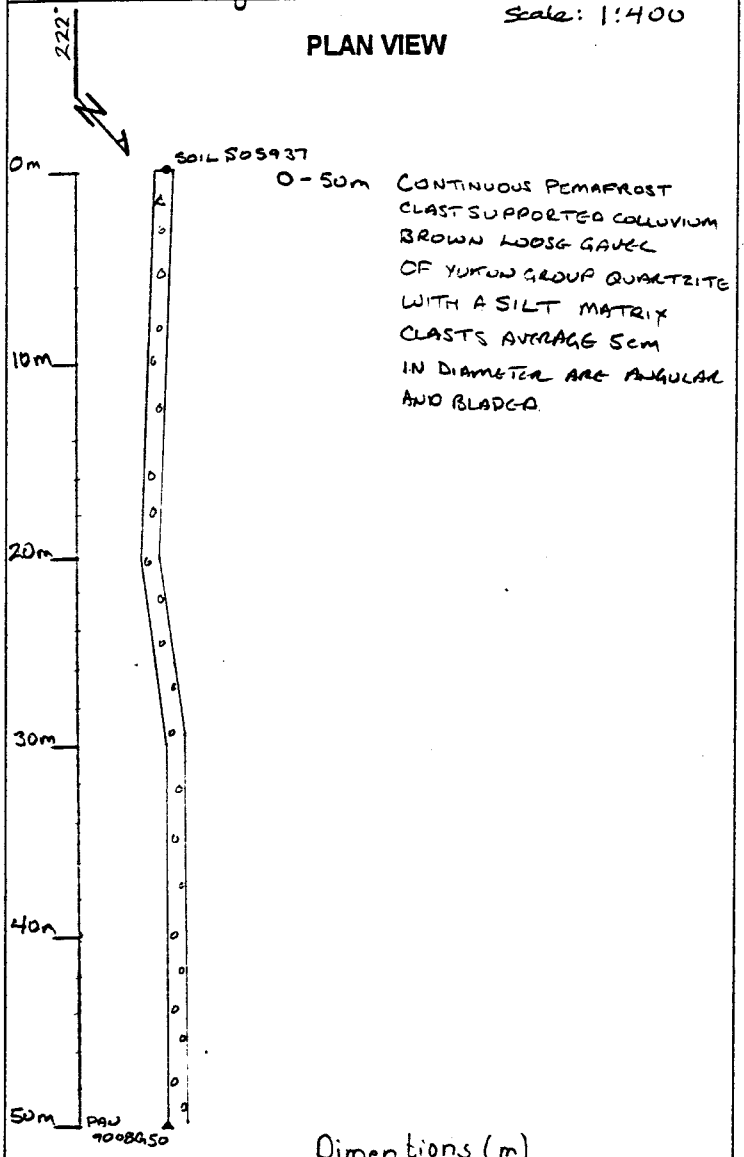
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008-G	EQUIPMENT TYPE: HITACHI, HOE
NORTHING:	EQUIPMENT HOURS: 2.5 HRS
EASTING:	EQUIPMENT COST: 2.5 HRS @ 130/HR = 325
STARTED: July 7, 1993	LABOUR COST: 2 HRS AT 26.25/HR = 52.50
FINISHED: July 11, 1993	TOTAL EXPENDITURE: $377.50

Scale: 1:400

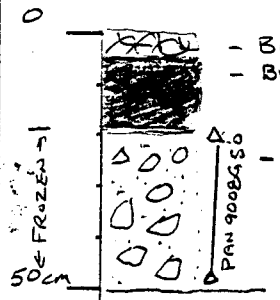
PLAN VIEW



0 - 50m CONTINUOUS PERMAFROST CLAST SUPPORTED COLLUVIUM BROWN LOOSE GAVEL OF YUKON GROUP QUARTZITE WITH A SILT MATRIX CLASTS AVERAGE 5cm IN DIAMETER ARE ANGULAR AND BLADED

Dimentions (m)
50 x 1 x 0.5

SOIL PROFILE @ 50m



- BROWN FIBRIC ORGANICS
- BLACK HUMIC ORGANIC SOIL
- BROWN CLAST SUPPORTED COLLUVIUM WITH FRAGMENTS OF QUARTZITE averaging 5cm IN DIAMETER

Scale: 1:300

COMMENTS: CONTINUOUS PERMAFROST FROM SURFACE, UNABLE TO DIG EFFECTIVELY BELOW 50cm.

Soil: S05937 18 <5 2.52

SAMPLE NUMBERS: SOIL S05937, PAN: 9008-G-50.

PANNING CONCENTRATE DESCRIPTION:

9008G COARSE FRACTION: Pebbles of QUARTZITE
FINE FRACTION: FINE SAND 95% QUARTZ, 0.5% HORNBLENDE, 0.5% BIOTITE 0% MAGNETITE 1% FELDSPARS, ANGULAR SAND GRAINS.
→ sample taken @ 50m in the brown clast-supported colluvium.

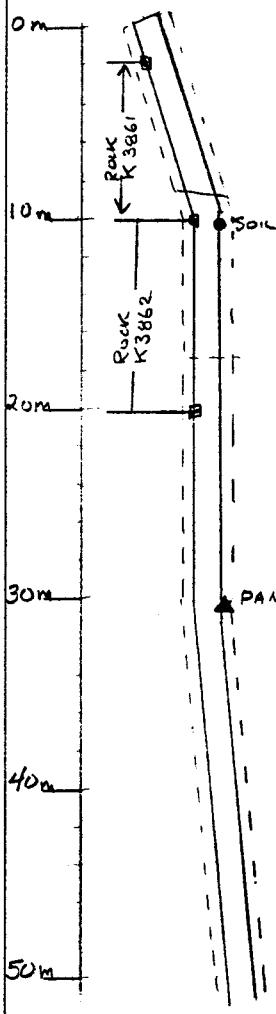
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9008
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9008-HA	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: 1.5 HRS
EASTING:	EQUIPMENT COST: @ $130/HR = $195
STARTED: July 7/1993	LABOUR COST: 4 HRS AT 26.25/HR = 105.
FINISHED: July 12/1993	TOTAL EXPENDITURE: $300

PLAN VIEW

Scale: 1:400



0-8m FRIABLE LIMONITE STAINED GRANODIORITE WITH XENOLITHS OF DIORITE

8m-17m BLOCKY UNALTERED GRANODIORITE WITH LIMONITE STAINING ON JOINTS

17m-20m FRIABLE GRANODIORITE WITH CLAY LIMONITE WEATHERING.

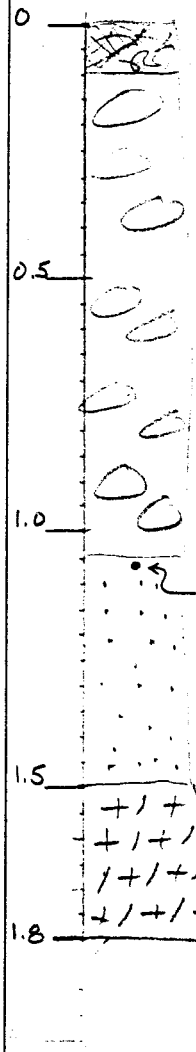
20m-30m BLOCKY UNALTERED GRANODIORITE

30m-40m RUST BROWN SANDY RESIDUAL SOIL AFTER GRANODIORITE

40m-50 DARK BROWN MATRIX SUPPORTED COLLUVIUM.

Dimentions (m)
50 x 2 x 1.8

SOIL PROFILE @ 10m



0-0.1 BLACK FIBRIC ORGANIC SOIL (MOIST)

0.1-1.04 MATRIX SUPPORTED COLLUVIUM. DARK BROWN WITH 10% GRAVEL FRAGMENTS OF GRANODIORITE, 60% SAND, 25% SILT, 3% ORGANICS, 1% ORGANICS

1.04-1.5 RUST-TAN WEATHERING RESIDUAL SOIL AFTER GRANODIORITE. 80% QUARTZ-FELDSPAR SAND, 25% SILT, 5% CLAY

1.5-1.8 TAN BLOCKY TO FRIABLE UNALTERED LIMONITE STAINED GRANODIORITE

Scale: 1:300

COMMENTS: ADJOINS 9008-HB TO SOUTH

Soil: S05940 46, <5, 2, 276 Rock: K3861 20, <5, 3, 34 /8m
K3862 19, <5, 3, 62 /10m

SAMPLE NUMBERS: Rock: K3861, K3862 ; Soil: S05940 ; Pan: 9008H-30

PANNING CONCENTRATE DESCRIPTION:

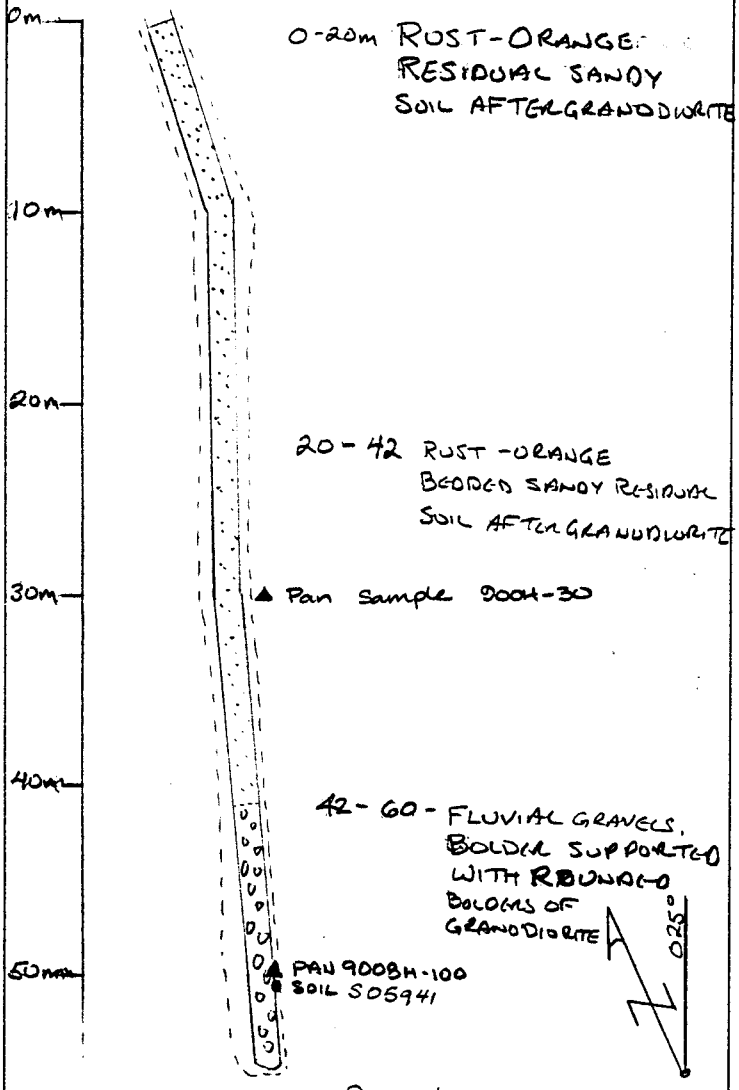
9008H-30 - 10% MAGNETITE, 0.5% SCHEELITE + POWELLITE, 5% BIOTITE, >40% QUARTZ
PANNED TO FINE SAND
- sample taken @ 30m in the matrix supported colluvium.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9008
CREEK: CASINO
TYPE: CREEK

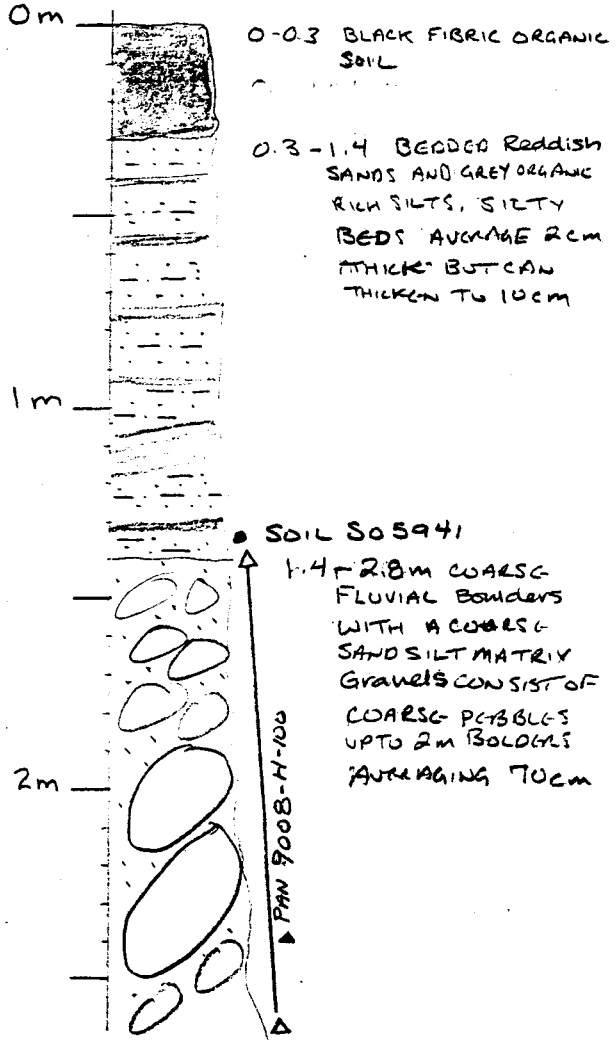
PIT NUMBER: 9008-HB	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: 1.5HR.
EASTING:	EQUIPMENT COST: @130/HR = $195
STARTED: July 7, 1993	LABOUR COST: 3.0 HRS AT 26.25/HR = 78.75
FINISHED: July 12, 1993	TOTAL EXPENDITURE: $273.75

PLAN VIEW 1:400



Dimentions (m)
55 X 2 X 2.5

SOIL PROFILE @ 50m



Scale: 1:200

COMMENTS: SOUTH OF PIT 9008-HA
-No bedrock exposed.

Soil: S05941 36.45, 18.550

SAMPLE NUMBERS: Pan: 9008H-30, 9008H-100; Soil: S05941

PANNING CONCENTRATE DESCRIPTION:

9008H-30 - 10% MAGNETITE, 0.5% Scheelite + POWDER; 5% Biotite; >70 QUARTZ PANNED FINE SAND

9008H-100 COARSE FRACTION GRANODIORITE CLASTS >50% FINE FRACTION: 10% MAGNETITE 1% SCHEELITE + POWDER 5% QUARTZ SAND. 1% FRAGMENTS

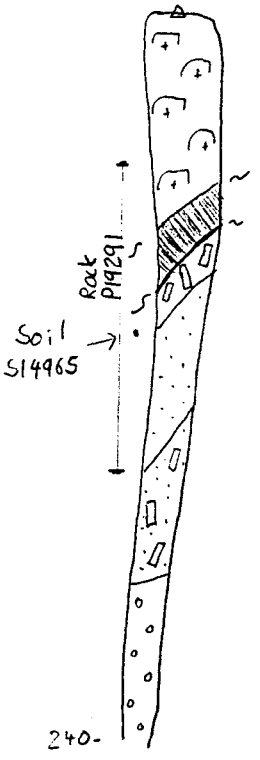
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK: Casino
TYPE: Creek

PIT NUMBER: 9008-J	EQUIPMENT TYPE:
NORTHING:	EQUIPMENT HOURS:
EASTING:	EQUIPMENT COST:
STARTED: September 14, 1993	LABOUR COST:
FINISHED:	TOTAL EXPENDITURE:

PLAN VIEW

1:250



0-5.5 granodiorite, blocky, weakly weathered, limonite on fractures

5.5-6.9 Fault, mostly clay gouge with quartz monzonite protolith

6.9-8.2 Quartz monzonite, highly clay altered, grey-yellow color

8.2-8.5 Diorite - very fine grained, grey-khaki coloured

8.5-10.5 Quartz monzonite, rubbly and friable, pale grey-tan color

10.5-12.7 Diorite, blocky to soft, med to dark brown-grey

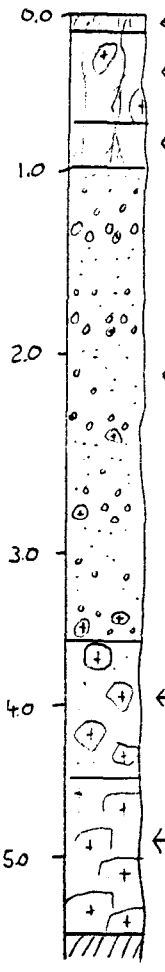
12.7-18.5 residual soil of quartz monzonite, friable and rubbly

18.5-24 overburden, silt/clay/soil with blocks of granodiorite

Dimentions (m)
24 x 3.0 x 5.0

SOIL PROFILE at 0 m

1:50



← willows, grasses, blue berry bushes

← colluvium layer with weakly altered granodiorite layer,

← organic rich, brown-black peat layer

layers of well graded colluvium. ← clasts of granodiorite fresh to weakly altered, reddish brown to tan-brown matrix

← brown clast supported colluvium, clasts average 30-40 cm, weakly altered, limonite stained

← blocky granodiorite, well fractured and silicified, limonite on fractures

COMMENTS:

Soil S14965 291, 165, 18.96 Rock P19291 306, 75, 41, 10/10 m

SAMPLE NUMBERS: Soil S14965 Rock P19291

PANNING CONCENTRATE DESCRIPTION:

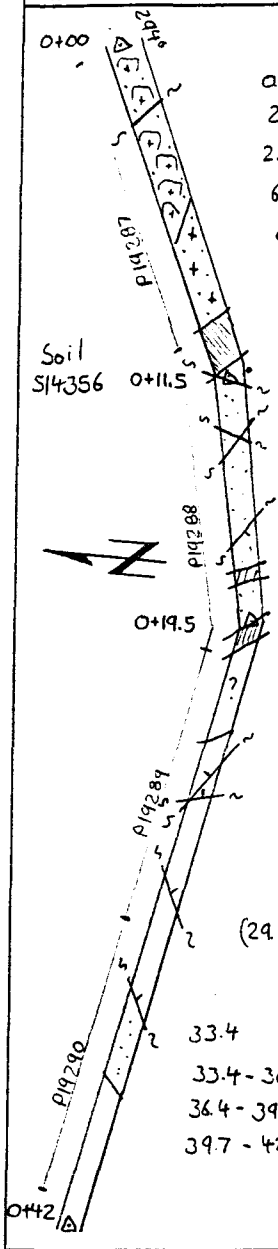
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9008
CREEK: Casino
TYPE: Creek

PIT NUMBER: 9008K	EQUIPMENT TYPE:
NORTHING:	EQUIPMENT HOURS:
EASTING:	EQUIPMENT COST:
STARTED: September 5 1993	LABOUR COST:
FINISHED:	TOTAL EXPENDITURE:

1:250

PLAN VIEW

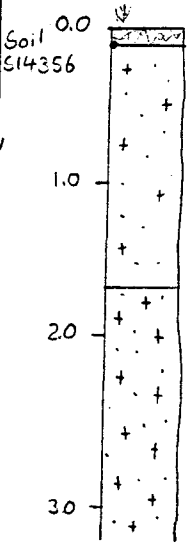


0.0-2.4 granodiorite, weakly altered
2.4 Faults - 5+8cm 150/69 NW 154/88 NW
2.4-6.7 granodiorite, weakly altered
6.7-9.8 friable, rubbly, granodiorite
9.8-11.2 Fault gouge and clays 346/85SW
(11.4) Fault 084/68S
11.2-14.6 friable rubbly granodiorite
(13.1) Faults 339/90 079/79SE
14.6-16.5 Fault, patchy clay, gouge
16.5-19.6 residual granodiorite
(16.5) Fault 179/85 SW
(17.5) Fault 216/84 SW
19.6-20 Fault 195/85 SW
20.-22.5 fine grained intrusive rock, altered
22.5-22.6 Faults 285/85 NE -10cm
221/8E E -5cm
22.6-33.4 Quartz Monzonite? pale yellow-tan with zones of orange-tan
(29.1) Fault 129/72 SW
33.4 Fault 085/34SW
33.4-36.4 Diorite
36.4-39.7 Granodiorite + residual soil
39.7-42.0 Overburden

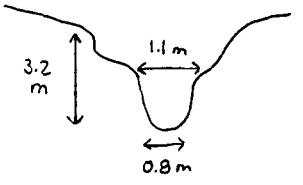
Dimentions (m)
42 x 2.0 x 3.0

1:50

SOIL PROFILE at 11m



← willows, moose moss + moss organic rich brown soil
← residual soil, granodiorite protolith, med. orange-tan colour
← granodiorite - extremely friable, moderate supergene alteration medium → dark orange-tan colour



Typical Cross Section

COMMENTS:

Rock P19287 219,105 <1, 34 /10m P19289 62, 64 <1, 30 /10m
Soil S14356 81, 85, 12, 36 P19288 282, 125 <1, 18 /10m P19290 63, 40 1, 18 /10m

SAMPLE NUMBERS: Soil S14356 Rock P19287 - P19290

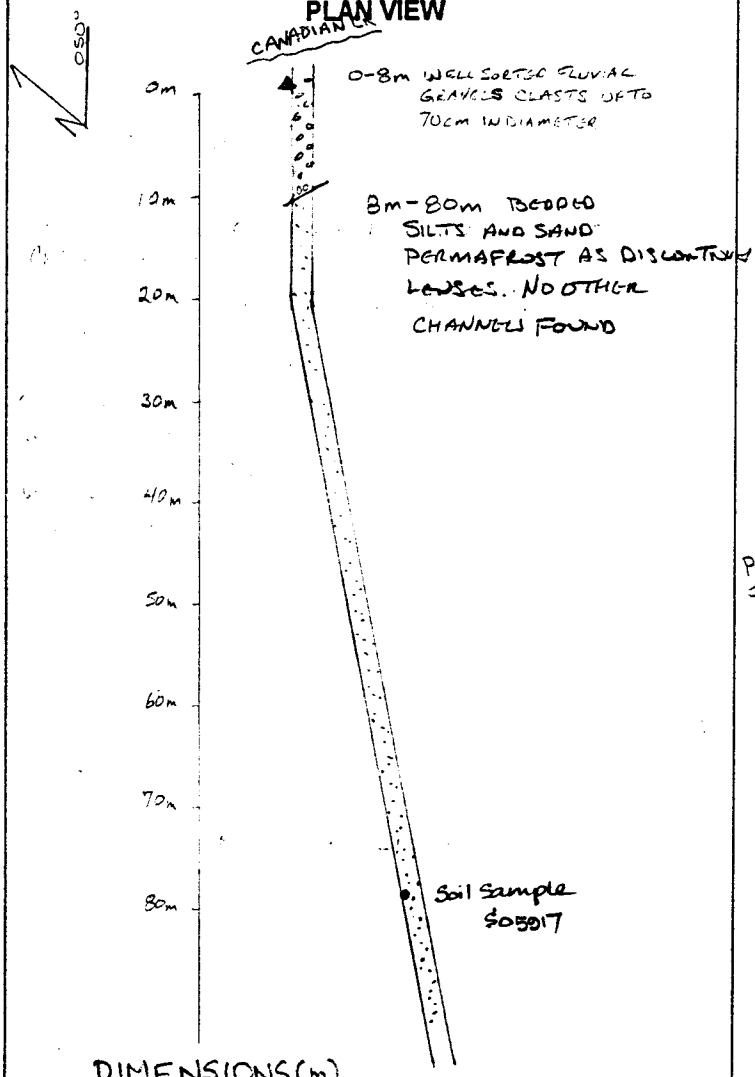
PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9033
CREEK:	CANADIAN
TYPE:	CREEK

PIT NUMBER: 9033-A	EQUIPMENT TYPE: WIDE TRACK D6 @$100/hr; Hitachi Hoe @$130/hr
NORTHING:	EQUIPMENT HOURS: D6 - 2 , HOE - 7
EASTING:	EQUIPMENT COST: D6 @ 100/HR = 200, HOE @ 130/HR = 910
STARTED: JUNE 5 1993	LABOUR COST: 7 hours @ $26.25/hr → 183.75
FINISHED: JUNE 27 1993	TOTAL EXPENDITURE: $1293.75

PLAN VIEW

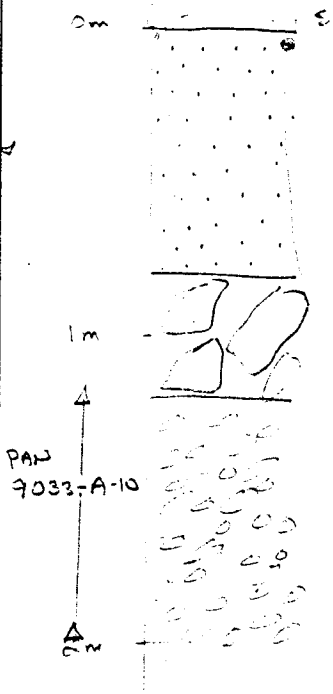


DIMENSIONS(m)

80 x 2 x 2

SCALE: 1:750

SOIL PROFILE @ 10 m



0-0.30 WELL SORTED FLUVIAL SAND CLEAN WITH CROSS BEDDING AT LOW ANGLES. SEDIMENT >90% ANGULAR COARSE QUARTZ SAND.

0.30-1.20 BOULDER SUPPORTED GRAVELS RUSTY ORANGE WITH MATRIX 20% CLAY, 40% SILT AND 40% SAND

1.20-2.00 CLAST SUPPORTED GRAVEL, CLASTS UP TO 10cm MATRIX 70% SAND 30% SILT. FLUVIAL

COMMENTS: WELL SORTED GRAVELS NEAR BOTTOM OF TRENCH, 0-10m

Soil: S05917 85, 15, 26, 32

SAMPLE NUMBERS: PAN: 9033-A-0 , SOIL: S05917

PANNING CONCENTRATE DESCRIPTION:

PS9033A-0: Sample taken from the clast supported gravels @ 0m; Mostly quartz, some HB, feldspar; weak magnetite; angular to subangular; ave. grain size 20-25/1m. Minor orange fluorescent grains → powellite?

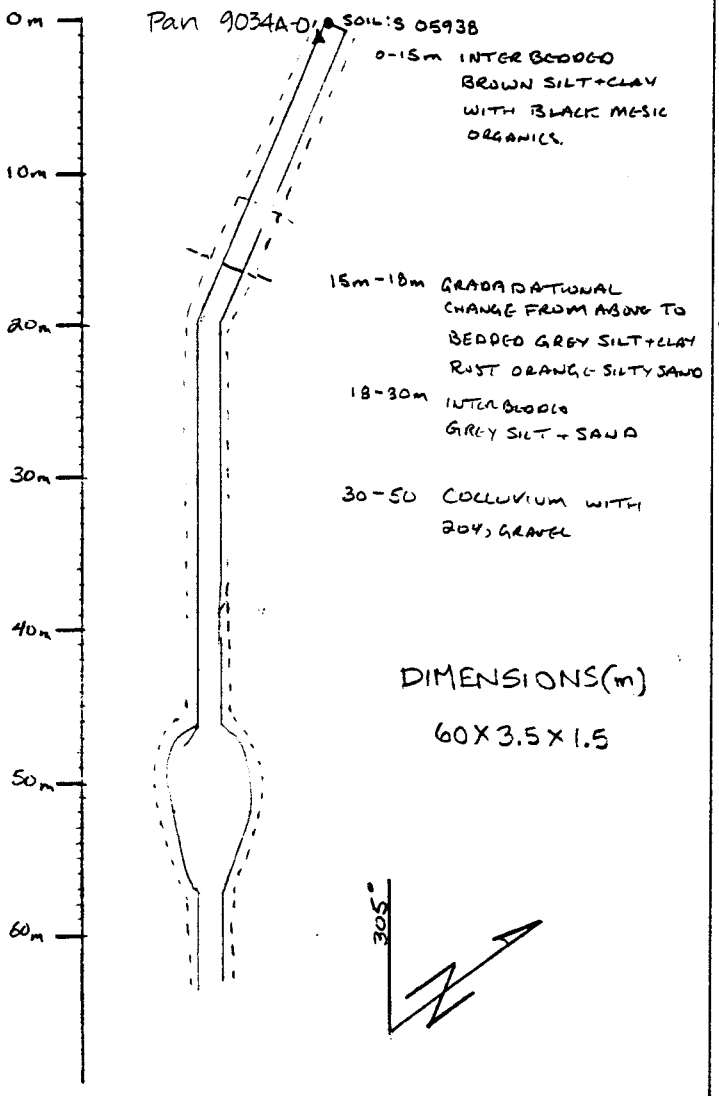
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9034
CREEK: MELOY
TYPE: CREEK

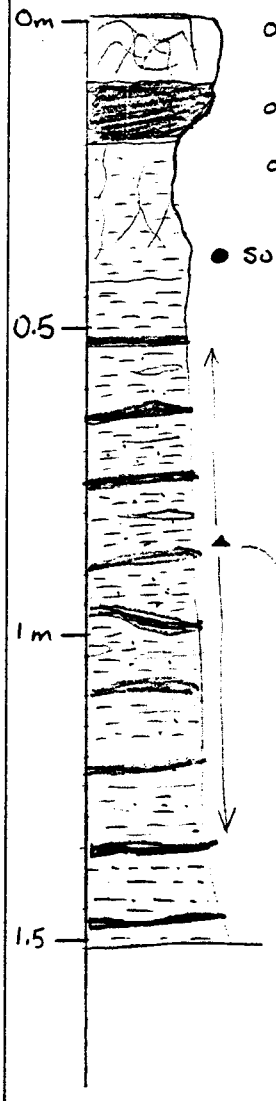
PIT NUMBER: 9034-A	EQUIPMENT TYPE: D7 Ripper Cat ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7 : 1.5hrs ; hoe : 3.5hrs
EASTING:	EQUIPMENT COST: 1.5 @ $130/hr ; 3.5 @ $130/hr
STARTED: July 10, 1993	LABOUR COST: 3.5 hrs @ $26.25/hr
FINISHED: July 13, 1993	TOTAL EXPENDITURE: $741.87

SCALE 1:500

PLAN VIEW



SOIL PROFILE @ 0m



Scale 1:12.5

COMMENTS: NO SUITABLE GRAVELS

Soil S05938 28,<5, 3, 20

SAMPLE NUMBERS: SOIL: S05938 , PAN SAMPLE 9034A-0

PANNING CONCENTRATE DESCRIPTION:

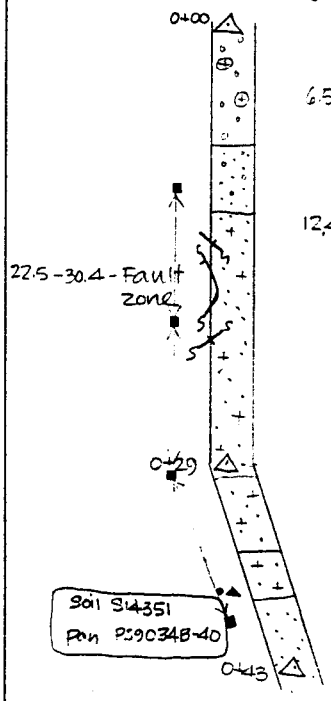
PS9034A-0: Sample taken from the interbedded fluvial - colluvial layer @ 0m. orange-tan colour; mostly quartz, remnant feldspar, hornblende, biotite, Minor magnetite, remnant pyrite, and fluorescent grains (blue and yellow). Average particle size: 40μm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9034
CREEK:	Meloy
TYPE:	Creek

PIT NUMBER: 9034 B	EQUIPMENT TYPE: D7 Ripper Cat.
NORTHING:	EQUIPMENT HOURS: D7R: 2.5 hrs
EASTING:	EQUIPMENT COST: 2.5 @ $130/hr
STARTED: June 2/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 18/93	TOTAL EXPENDITURE: $377.50

PLAN VIEW



0-6.5 - Colluvium - tan coloured; friable and rubbly; minor clasts of Granodiorite.

6.5-12.4 - Med. to dark brown coloured colluvium; partly residual soil; clasts of granodiorite decrease in size with depth.

12.4-43 - Residual soil: granodiorite protolith; extremely friable; no structures have been preserved; this unit becomes more competent with depth; Limonitic; orange tan to grey-white colour.

Rock Samples:

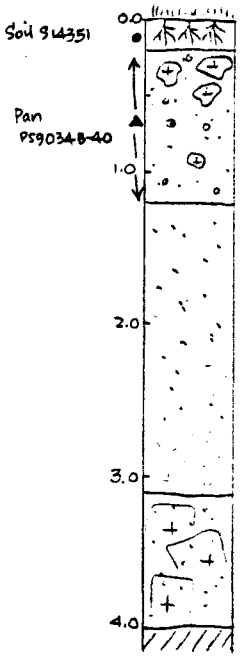
12.5-20	P19282
20-30	P19283
30-40	P19284

DIMENSIONS (m)
43 x 3 x 3

Scale 1:500

SOIL PROFILE

*taken @ 40m.



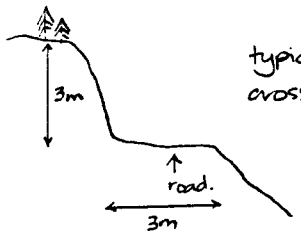
willows; grass; occ. spruce; minor moss.

organic-rich brown-grey coloured soil

grey-tan coloured colluvium; has not been transported a long distance: dirty silts, sands and clays; organic rich; friable; Granodiorite clasts decrease in size and abundance with depth.

Residual soil: orange-tan to tan brown coloured; limonitic; extremely friable with no structures preserved. Granodiorite protolith.

blocky, highly friable granodiorite; Limonite coated on fractures; Structures are preserved.



typical cross section

Scale 1:50

COMMENTS:

Soil	S14351	32	<5	<1	74
Rock	P19282	13	<5	1	204 / 7.5m
	P19283	487	<5	1	1060 / 10m
	P19284	14	<5	1	470 / 10m

SAMPLE NUMBERS: Soil: S14351; Pan PS90348-40; Rock: P19282 - P19284

PANNING CONCENTRATE DESCRIPTION:

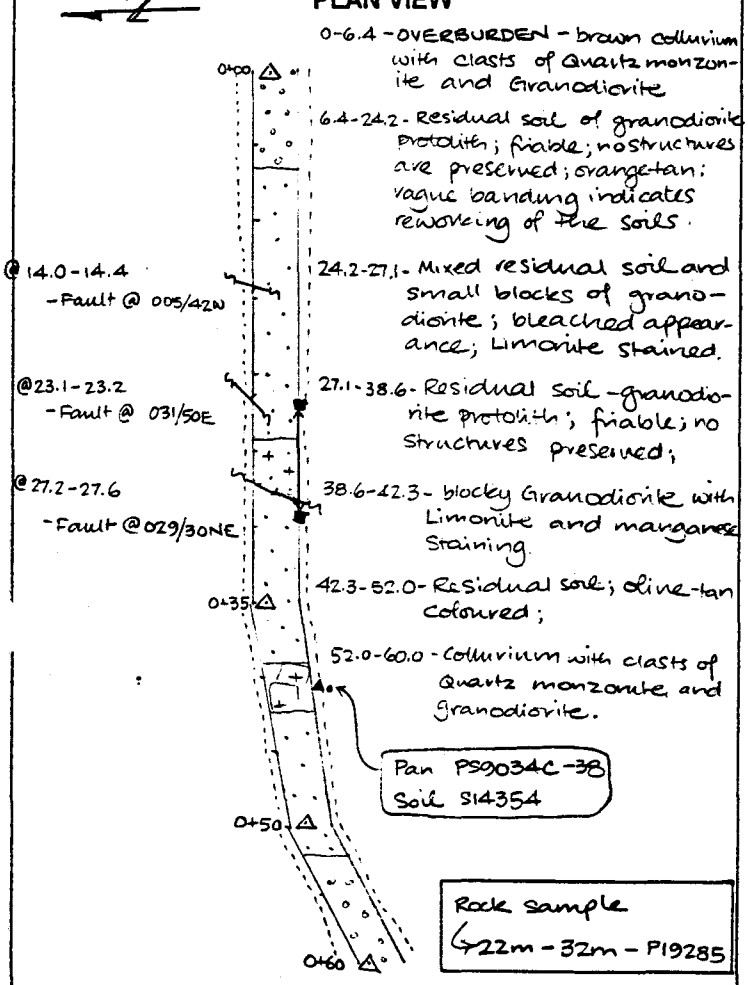
PS90348-40 - Sample taken @ 40m in the colluvium layer; tan-brown colour; Mostly subangular grains of quartz, remnant feldspar, biotite, magnetite, Minor hornblende. Average particle size: 20-25mm. Minor Million Fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9034
CREEK:	Meloy
TYPE:	Creek

PIT NUMBER: 9034C	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 3.5 hrs
EASTING:	EQUIPMENT COST: 3.5 hrs @ $130/hr
STARTED: June 2/93	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: Aug. 20/93	TOTAL EXPENDITURE: $520.63

PLAN VIEW



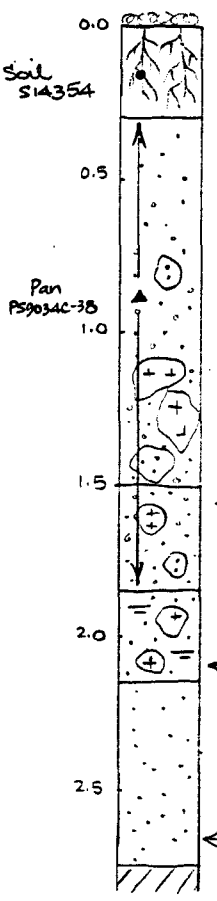
DIMENSIONS (m)

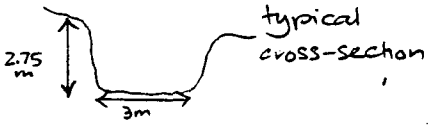
60 X 3 X 2.8

Scale 1:500

SOIL PROFILE

* taken @ 38m





Scale 1:25

COMMENTS:

Soil S14354 19, 10, 1, 376 Rock P19285 17, <5, 1, 184 110m

SAMPLE NUMBERS: Soil : S14354; Pan : PS9034C-38; Rock : P19285

PANNING CONCENTRATE DESCRIPTION:

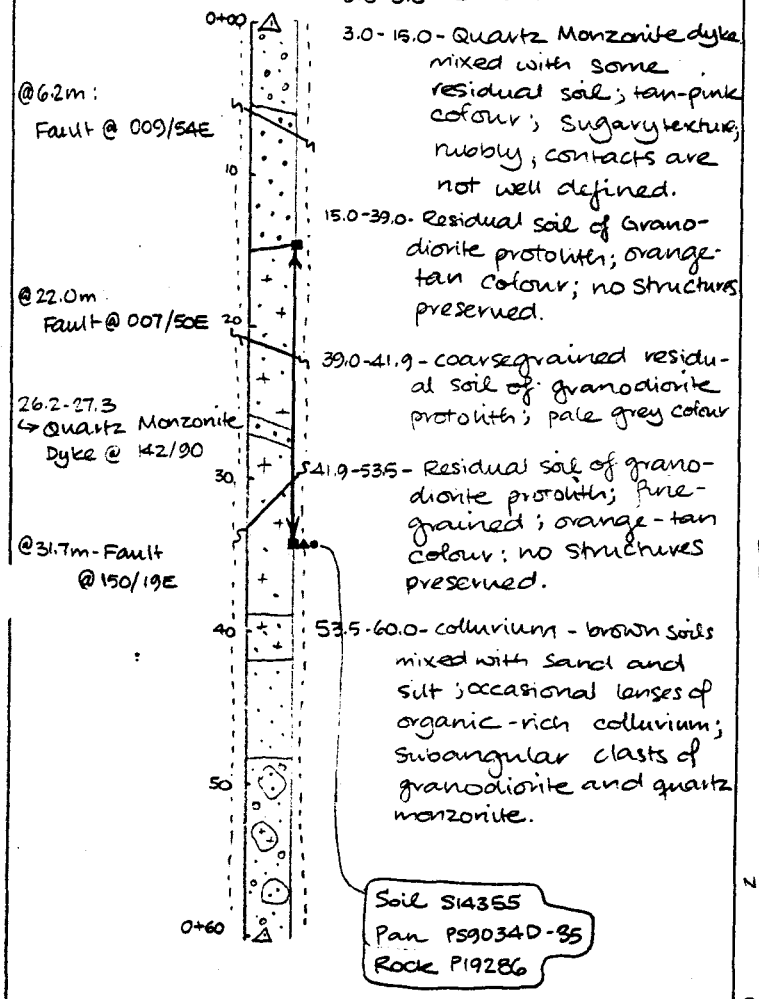
PS9034C-38 - Sample taken @ 38 m in both the colluvium layers; pale grey-tan colour; Mostly subangular quartz and feldspar; Minor biotite, hornblende and magnetite; Average particle size: 50μm. Minor yellow and white fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9034
CREEK:	Meloy
TYPE:	Creek

PIT NUMBER: 9034D	EQUIPMENT TYPE: D7 Ripper Cat.
NORTHING:	EQUIPMENT HOURS: D7 : 3.5 hrs
EASTING:	EQUIPMENT COST: 3.5 @ $130/hr
STARTED: June 2, 1993	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: August 20, 1993	TOTAL EXPENDITURE: $520.63

PLAN VIEW

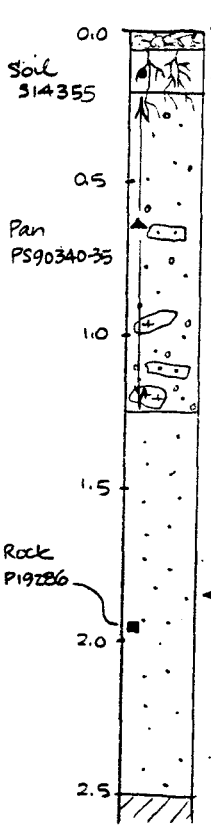


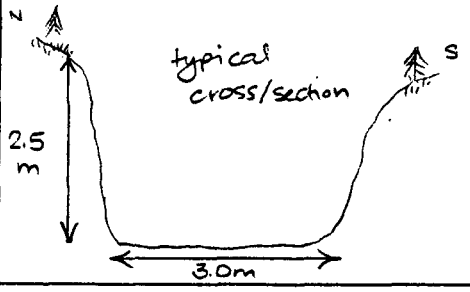
DIMENSIONS(m)
60 x 3 x 2.5

Scale 1:500

SOIL PROFILE

* taken @ 35m *





Scale 1:25

COMMENTS:

Soil: S14355 15.<5, 1.72 Rock: P19286 5.<5, 1.46

SAMPLE NUMBERS: Soil : S14355 ; Pan : PS9034D-35 ; Rock : P19286

PANNING CONCENTRATE DESCRIPTION:

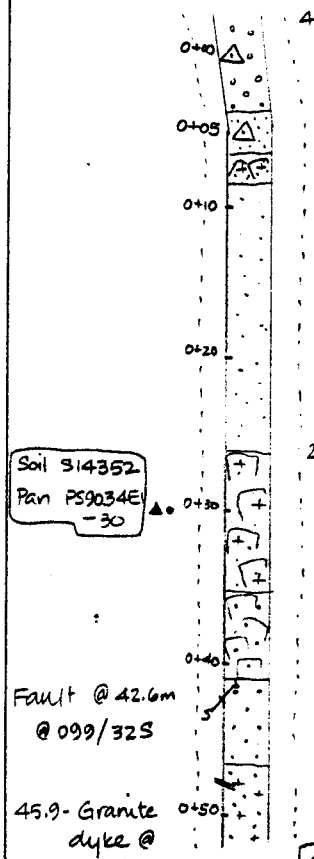
PS9034D-35- Sample taken @ 35m in the colluvium layer; tan coloured; Mostly sub-rounded grains of quartz; Minor remnant feldspar, biotite, magnetite and hornblende. Average particle size: 20 µm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9034
CREEK: Meloy
TYPE: Creek

PIT NUMBER: 9034E1	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 1 hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: August 16/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 18/93	TOTAL EXPENDITURE: $182.50

PLAN VIEW



0.0-4.0- overburden

4.0-6.5 - Residual soil of Granodiorite protolith; orange-tan colour; friable; no structures preserved.

6.5-9.0 - Blocky Granodiorite; well-jointed, friable;

9.0-27.7 - Residual soil of granodiorite protolith; alternating zones of bleached clay-rich material and orange-brown limonitic material.
→FAULT ZONE

27.7-37.3 - moderately altered granodiorite; structures are preserved

37.3-44.2 - Granite-Quartz Monzonite; hard; dark limonite and/or Manganese stains; pale green; fine grained

44.2-50.0 - Residual soil; highly supergene altered granodiorite; rubbly; orange-tan colour.

Continues as 9034E2

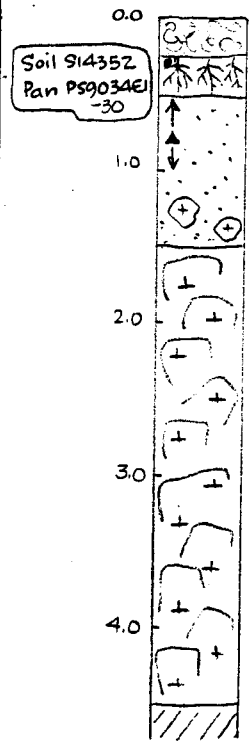
DIMENSIONS (m)

50 x 3 x 4.5

Scale 1:500

SOIL PROFILE

* taken @ 30m *

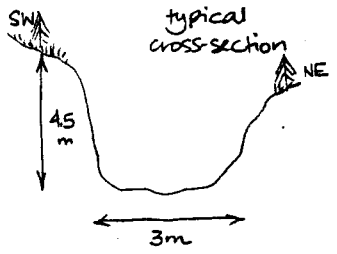


← thin moss cover, willows, grass, wild flowers.

← organic rich brown-grey coloured soil

← residual soil; orange-tan coloured; mostly sub-angular quartz and remnant Feldspar; small clasts of Granodiorite @ base.

← moderately altered, blocky granodiorite; friable and soft; orange-tan colour; Limonite-stained on fracture surfaces.



Scale: 1:50

COMMENTS:

Soil S14352 30.<S.<1.162

SAMPLE NUMBERS: Soil: S14352; Pan PS9034E1-30

PANNING CONCENTRATE DESCRIPTION:

PS9034E1-30- Sample taken @ 30m in the upper part of the residual soil layer; orange-tan colour; mostly subangular quartz, remnant feldspar and biotite; minor magnetite and hornblende. Average particle size: 2.5mm. Minor yellow fluorescent grains.

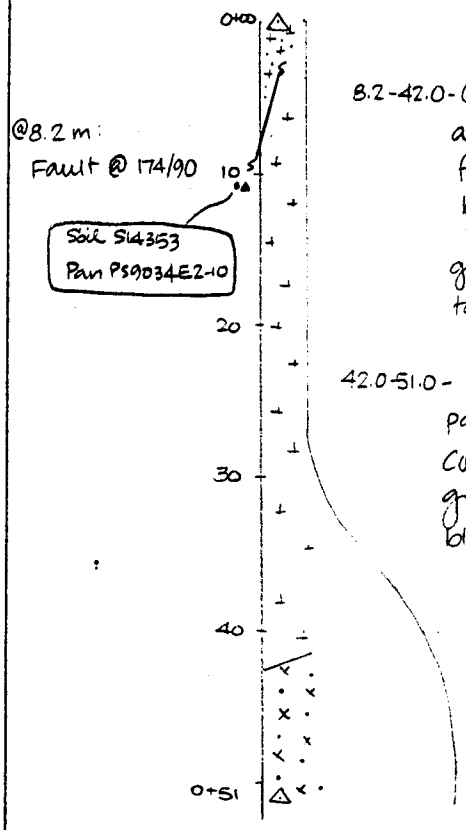
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9034
CREEK:	
TYPE:	

PIT NUMBER: 9034E2	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 1hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: August 16/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 18/93	TOTAL EXPENDITURE: $182.50

CONTINUATION OF 9034E1

PLAN VIEW



0.0-8.2 - Residual Soil of granodiorite protolith; friable; no relict structures

8.2-42.0 - Granodiorite - very altered from the faulting episode; blocky, very competent unit; pale green colour - weathers to a tan-brown.

42.0-51.0 - Quartz monzonite; pale green - not as competent as the granodiorite above; blocky.

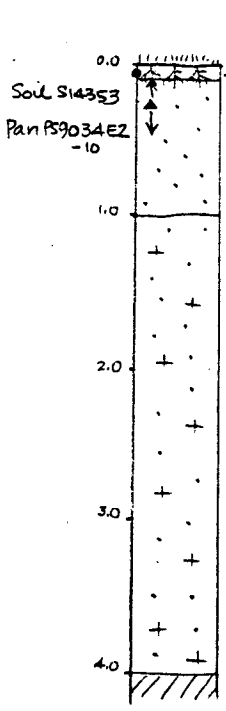
DIMENSIONS(m)

51 X 3 X 4

Scale 1:500

SOIL PROFILE

*taken @ 10m.



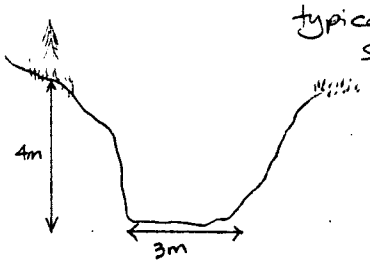
grass, brush, willows

brown, organic-rich soil

Residual soil - protolith appears to be granodiorite; tan colour; friable and crumbly; no relict structures preserved.

Altered Granodiorite; pale cream to green colour; hard and blocky, very competent.

typical cross section



Scale 1:50

COMMENTS:

Soil: S14353 23.25.1.150

SAMPLE NUMBERS: Soil: S14353 ; Pan PS9034E2-10 ;

PANNING CONCENTRATE DESCRIPTION:

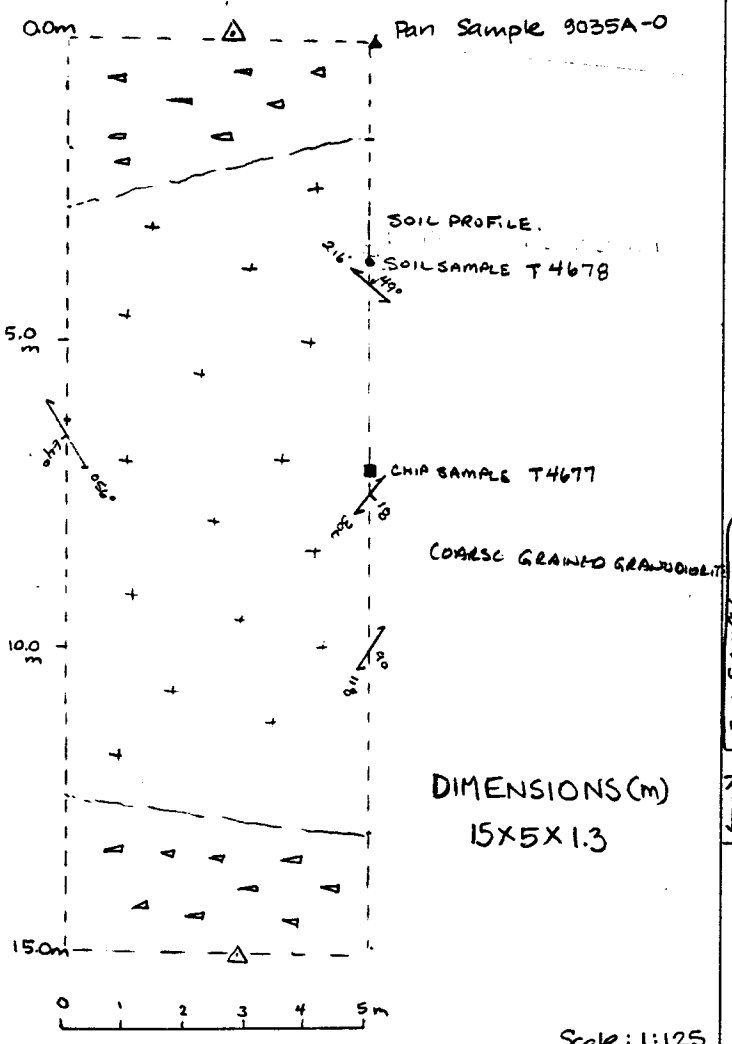
PS9034E2-10 - Sample taken @ 10m in the residual soil layer; tan-brown colour; mostly subangular grains of quartz, remnant feldspar, magnetite, biotite; minor hornblende. Average particle size: 30μm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9035
CREEK: MELOY, LEFT BRANCH
TYPE: CREEK

PIT NUMBER: 9035-A	EQUIPMENT TYPE: D7 Ripper
NORTHING:	EQUIPMENT HOURS: D7: 3hrs.
EASTING:	EQUIPMENT COST: 3hrs @ $130/hr
STARTED: JUNE 2 1993	LABOUR COST: 4 hrs @ $26.25/hr
FINISHED: JUNE 9, 1993	TOTAL EXPENDITURE: $495.00

PLAN VIEW

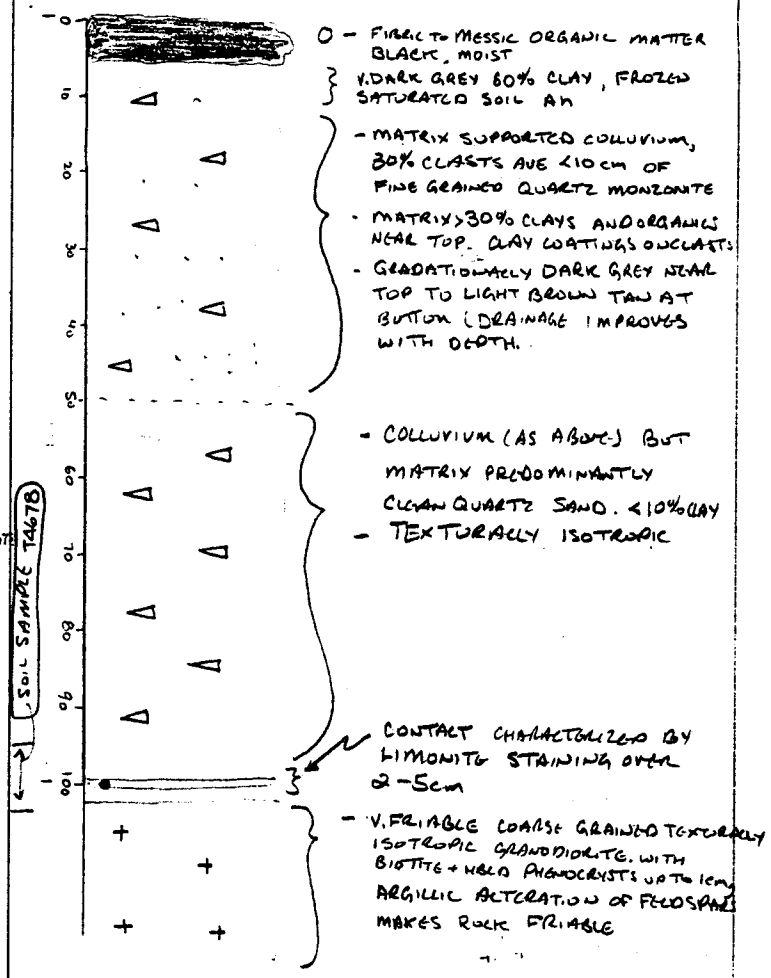


DIMENSIONS (m)
15 X 5 X 1.3

Scale: 1:125

SOIL PROFILE

taken @ 3.5m.



Scale: 1:10

COMMENTS: PHOTO TAKEN JUNE 9, 5pm, CLEAN SORTED SANDS

Soil T4678 37, <5, 3, 120 Rock: T4677 7, 10, <1, 12 10m

SAMPLE NUMBERS: Soil T4678, Chip: T4677 ; Pan: 9035A-0

PANNING CONCENTRATE DESCRIPTION:

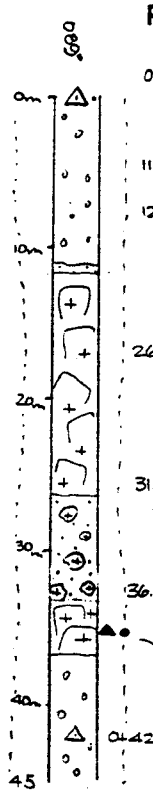
PS 9035A-0 - Sample taken @ 0m in the colluvium layer; pale tan colour; Mostly quartz, feldspar, hornblende, magnetite, muscovite, biotite. Average particle size: 30µm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9035
CREEK:	Tributary of Meloy
TYPE:	Creek

PIT NUMBER: 9035B	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: 4 hrs
EASTING:	EQUIPMENT COST: 4 @ $130/hr
STARTED: Aug 14/93	LABOUR COST: 3hrs @ $26.25
FINISHED: Aug. 15/93	TOTAL EXPENDITURE: $598.75

PLAN VIEW



0.0-11.7 - colluvium: grey to tan brown; silt and sand sized particles with blocks of GD.

11.7-12.7 - Residual soil

12.7-26.0 - Granodiorite - blocky and well fractured; weakly altered; tan coloured; limonite on fracture surfaces.

26.0-31.3 - mixed residual soil with blocks of GD; block size and abundance increase with depth; friable and rubbly

31.3-36.5 - blocky, friable Granodiorite with 10% residual soil; well fractured.

36.5-42.0 - colluvium; clasts of granodiorite

Soil S14344
Pan PS9035B-35

DIMENSION (m)

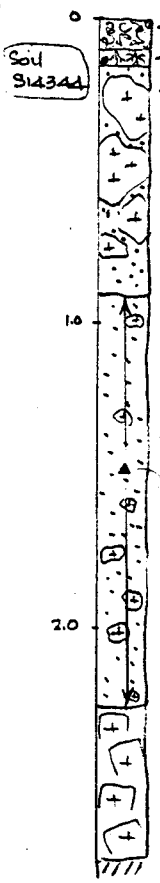
45 × 5 × 2.7

N

Scale 1:500

SOIL PROFILE

* taken @ 35m *



moss

brown; organic-rich soil

light grey to tan-brown coloured colluvium layer with large boulders of weakly altered to fresh granodiorite; sandy (Quartz) matrix.

finer grained colluvium layer - Quartz-sand material with 20-40% blocks of Granodiorite; tan-brown to orange-tan colour.

pan PS9035B-35

blocky Granodiorite with weak supergene alteration; tan colour; friable; rubbly with minor residual soil.

Scale 1:25

COMMENTS:

Soil S14344 17, 10, <1, 36

SAMPLE NUMBERS: S14344 - Soil; Pan - PS9035B-35

PANNING CONCENTRATE DESCRIPTION:

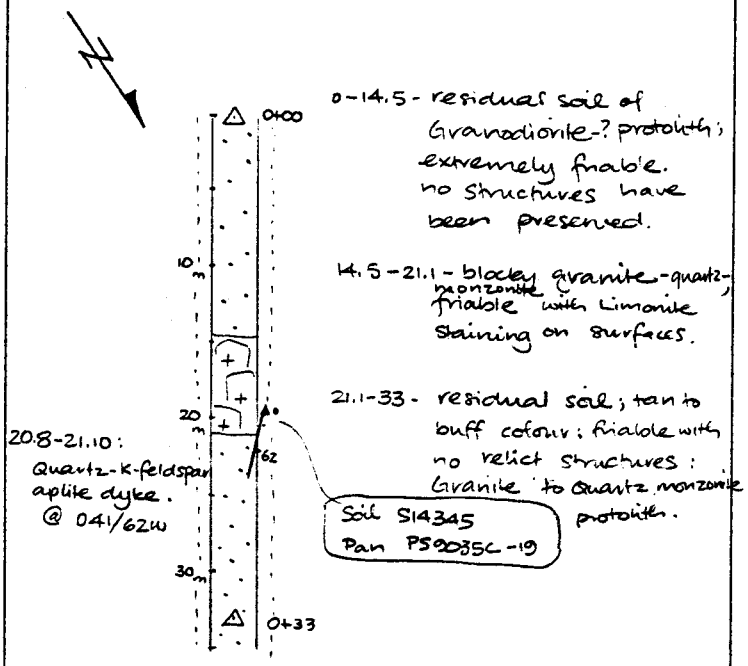
PS9035B-35 - sample taken @ 35m in the fine-grained colluvium layer; Orange-tan colour; mostly subangular grains of Quartz, remnant feldspar, biotite, magnetite; minor hornblende; Average particle size: 4mm. Minor yellow fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9035
CREEK: Tributary of Meloy
TYPE: Creek

PIT NUMBER: 9035C	EQUIPMENT TYPE: D7 Ripper Cat.
NORTHING:	EQUIPMENT HOURS: D7: 1 hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: Aug. 14/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: Aug. 15/93	TOTAL EXPENDITURE: $182.50

PLAN VIEW



DIMENSIONS (m)

33 x 3 x 2.1

Survey Data:

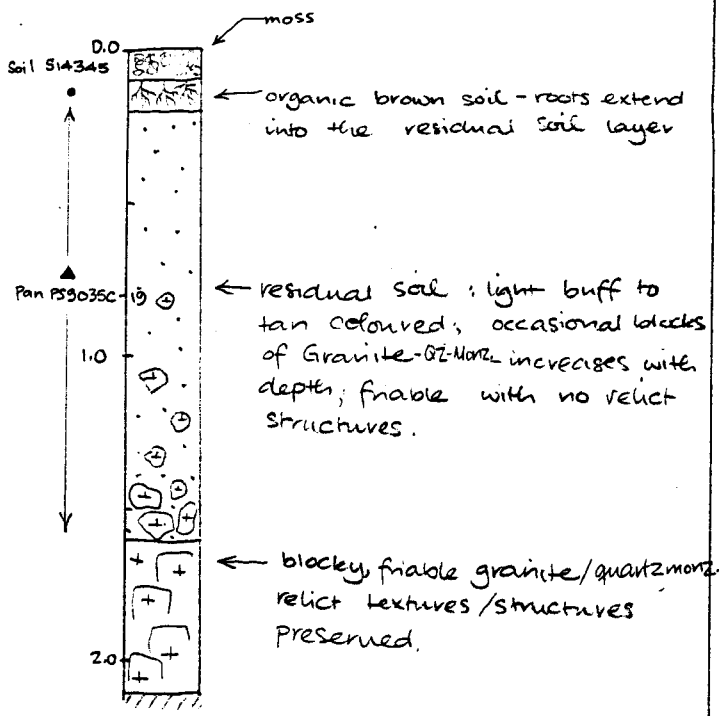
From	To	Orientation
0.0	33.0	033°

From	To	Inclination
0	18.0	-6
18.0	33.0	+8

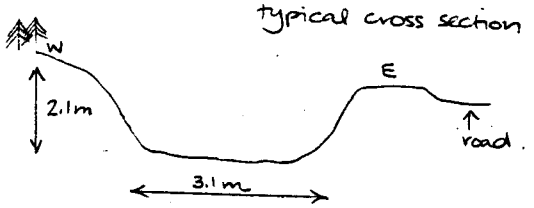
Scale 1:500

SOIL PROFILE

* taken @ 19m



typical cross section



Scale 1:25

COMMENTS:

Soil S14345 11.5, 1.82

SAMPLE NUMBERS: Pan: PS9035C-19; Soil S14345

PANNING CONCENTRATE DESCRIPTION:

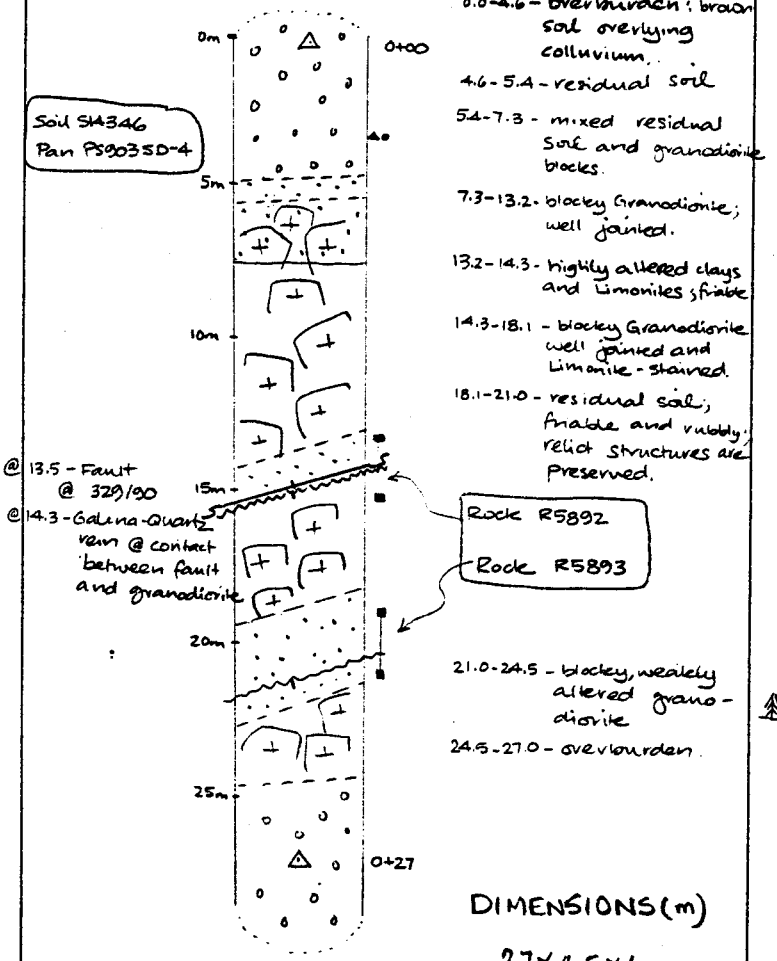
PS9035C-19: sample taken @ 10m in the residual soil layer; pale tan-orange colour; Mostly quartz and remnant feldspar, Minor biotite, hornblende and magnetite. - Subangular grains; Average particle size: 25/mm Minor yellow fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9035
CREEK: Tributary of Meloy
TYPE: Creek.

PIT NUMBER: 9035D	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 1hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: June 2/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: Aug. 15/93	TOTAL EXPENDITURE: $182.50

PLAN VIEW



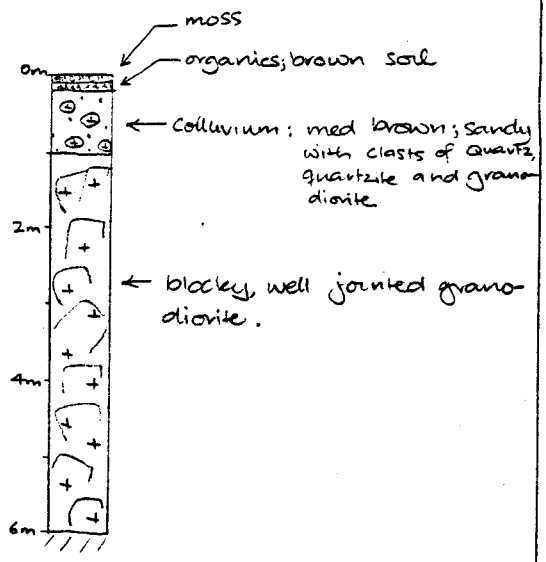
0.0-4.6 - overburden; brown soil overlying colluvium.
4.6-5.4 - residual soil
5.4-7.3 - mixed residual soil and granodiorite blocks.
7.3-13.2 - blocky Granodiorite; well jointed.
13.2-14.3 - highly altered clays and Limonites; friable
14.3-18.1 - blocky Granodiorite well jointed and Limonite-stained.
18.1-21.0 - residual soil; friable and rubbly; relict structures are preserved.
21.0-24.5 - blocky, weakly altered granodiorite
24.5-27.0 - overburden

DIMENSIONS (m)
27 × 4.5 × 6

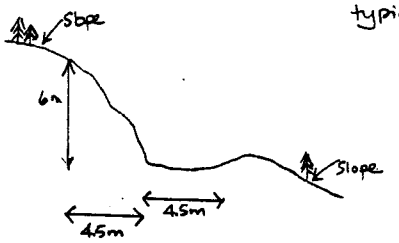
Scale 1:250

SOIL PROFILE

* Average profile taken @ 12m.



typical cross section:



Scale 1:100

COMMENTS:

Soil S14346 26.5 5.362 Rock R5892 66, 25, 12, 5260 /2m
R5893 29, <5, 3, 682 /2m

SAMPLE NUMBERS: Soil: S14346; Pan PS9035D-4; Rock: R5892, R5893

PANNING CONCENTRATE DESCRIPTION:

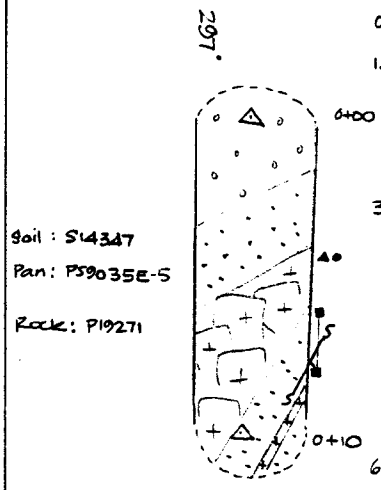
PS9035D-4 - sample taken @ 4m in the colluvium layer; orange - tan colour; poorly sorted; mostly quartz and remnant feldspar; minor hornblende and biotite; Trace magnetite. Average particle size: 10-20μm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9035
CREEK:	Tributary of Meloy
TYPE:	Creek

PIT NUMBER: 9035E	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 1 hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: June 2/93	LABOUR COST: 1.5 hrs @ $26.25/hr
FINISHED: Aug. 16/93	TOTAL EXPENDITURE: $169.38

PLAN VIEW



0.0 - 1.7 - overburden

1.7 - 3.8 - residual soil of Granodiorite protolith; orange-tan; friable with no remnant structure;

3.8 - 6.3 - blocky, LI-stained granodiorite overlain by extremely friable residual soil. Textures are preserved

6.3 - 7.9 Fault and associated clays and limonites. Fault @ 324/54W

7.9 - 8.7 - blocky Granodiorite; friable; LI-stained.

8.7 - 10 - residual soil; friable; orange-tan colour.

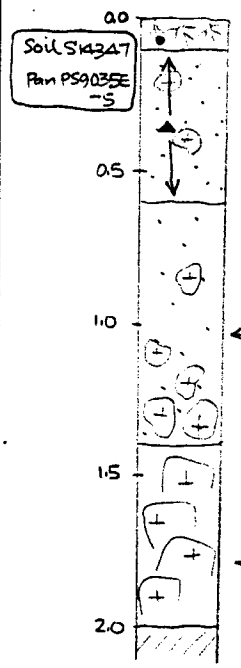
DIMENSIONS (m)

10 X 4.5 X 2

Scale 1:250

SOIL PROFILE

* taken @ 4.5m

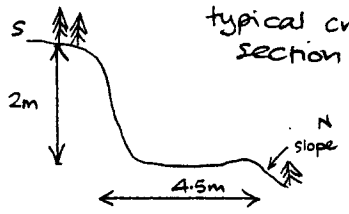


brown, organic-rich soil; some loose talus

colluvium layer - angular blocks of weakly altered, LI-stained granodiorite; blocks are 10-15 cm; matrix is a sandy material - mostly Quartz + clay.

Residual Soil: orange-tan colour; clasts of Granodiorite are weakly altered and increase in size and abundance with depth.

blocky, friable granodiorite Limonite stained; weakly altered.



typical cross section

Scale 1:25

COMMENTS:

Soil S14347 20.15.2.90 Rock P19271 18.<5.4.960 12m

SAMPLE NUMBERS: Soil S14347; Pan PS9035E-5; Rock: P19271

PANNING CONCENTRATE DESCRIPTION:

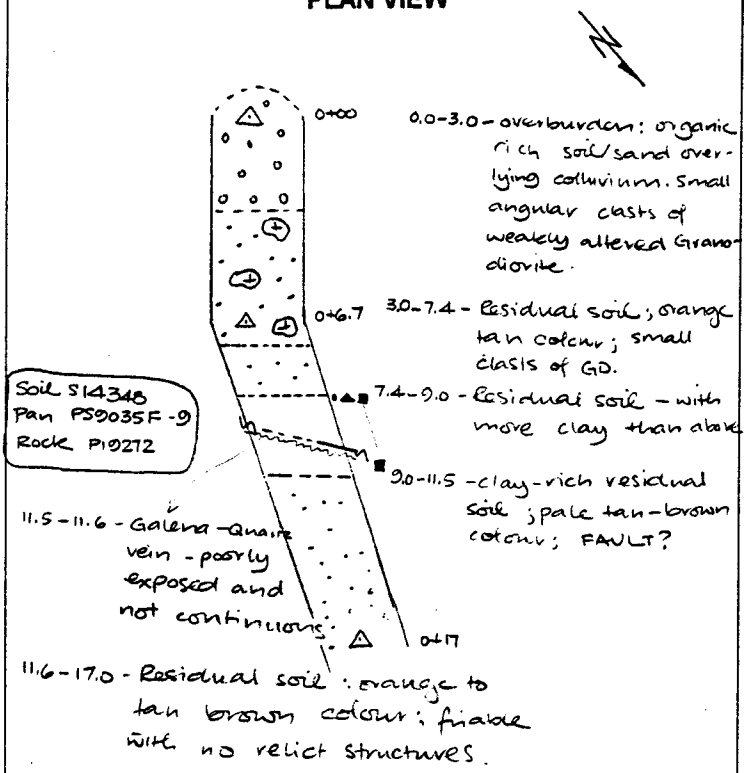
PS-9035E-5: Sample taken @ 5m in the colluvium layer; orange-tan colour; Mostly subangular grains of quartz, reinnant feldspar, and biotite; Minor magnetite. Average particle size: 30µm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9035
CREEK:	Tributary of Meloy
TYPE:	Creek

PIT NUMBER: 9035F	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 0.5hrs
EASTING:	EQUIPMENT COST: 0.5 @ $130/hr
STARTED: Aug. 15/93	LABOUR COST: 2hrs @ $26.25/hr
FINISHED: Aug. 16/93	TOTAL EXPENDITURE: $117.50

PLAN VIEW

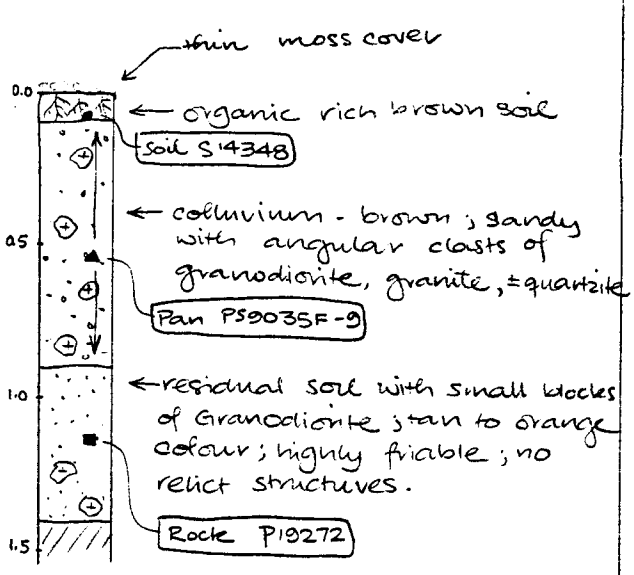


DIMENSIONS (m)
17 x 3 x 1.4

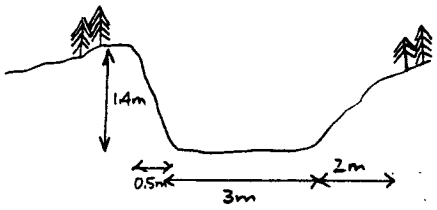
Scale 1:250

SOIL PROFILE

taken @ 9m



typical cross-section



Scale 1:25

COMMENTS:

Soil S14348 15.15.1.48 Rock P19272 77.25.2 >10,000 12m

SAMPLE NUMBERS: Soil S14348; Pan PS9035F-9; Rock P19272

PANNING CONCENTRATE DESCRIPTION:

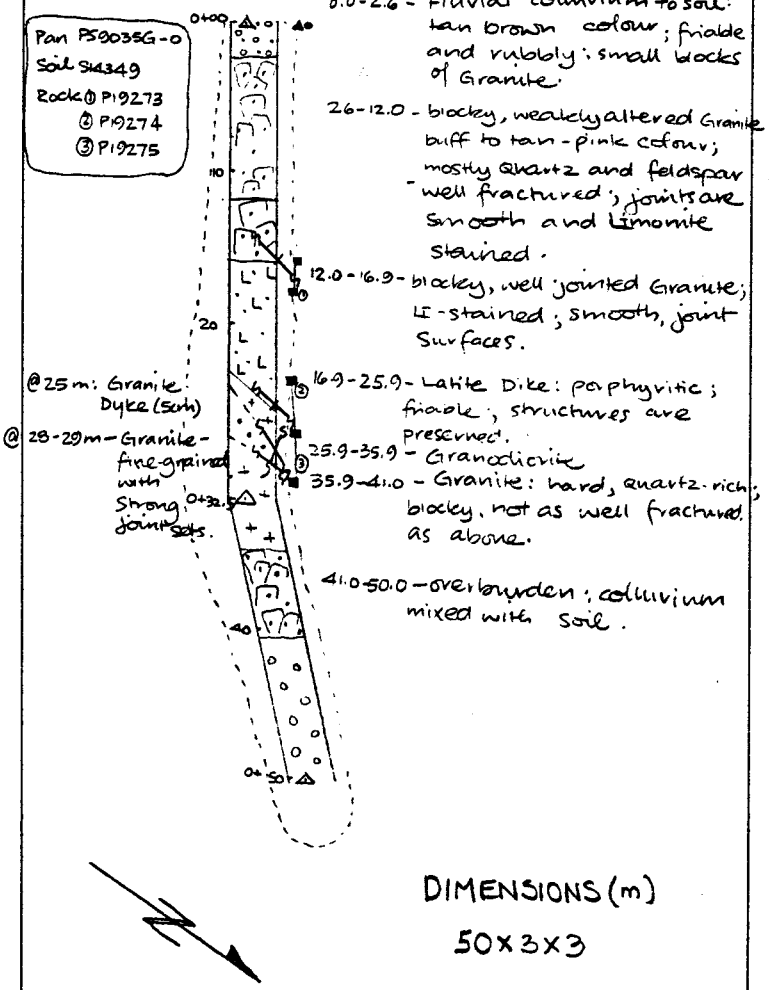
PS9035F-9 - sample taken @ 9m in the colluvium layer; orange-tan colour; Mostly subangular quartz, remnant feldspar, Minor hornblende, magnetite, biotite, Average particle size: 30µm. Minor yellow and white fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9035
CREEK:	Tributary of Meloy
TYPE:	Creek

PIT NUMBER: 9035G	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7 : 2 hrs.
EASTING:	EQUIPMENT COST: 2 @ $130/hr
STARTED: June 2/93	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: Aug. 16/93	TOTAL EXPENDITURE: $325.63

PLAN VIEW



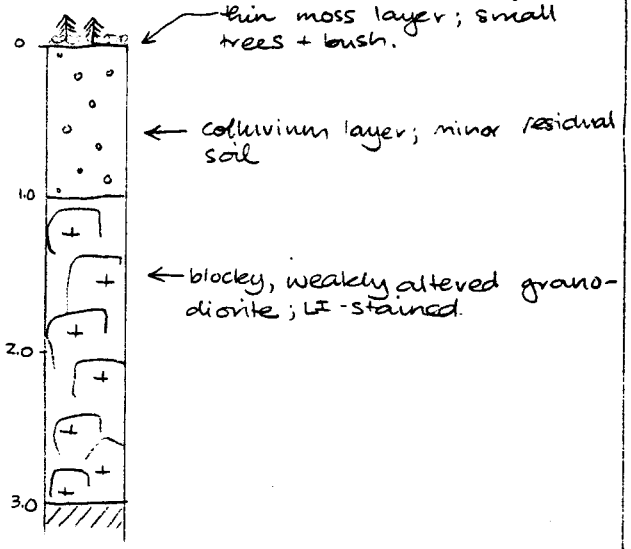
DIMENSIONS (m)

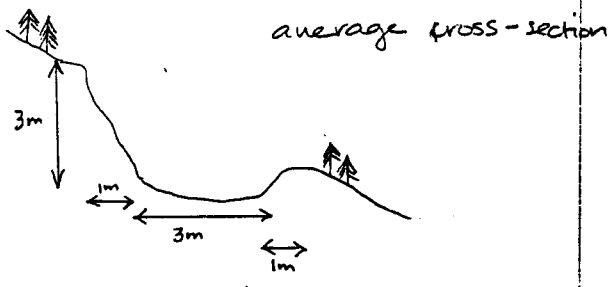
50 x 3 x 3

Scale 1:500

SOIL PROFILE

taken @ 12m (average)





Scale 1:50

COMMENTS:

Soil S14349 21, <5, 2, 30

Rock P19273 8, <5, 7, 278 /2m
P19274 9, <5, 5, 310 /3m
P19275 4, <5, 2, 774 /3m

SAMPLE NUMBERS: Soil : S14349, Pan PS9035G-0 ; Rock - P19273 - P19275 incl.

PANNING CONCENTRATE DESCRIPTION:

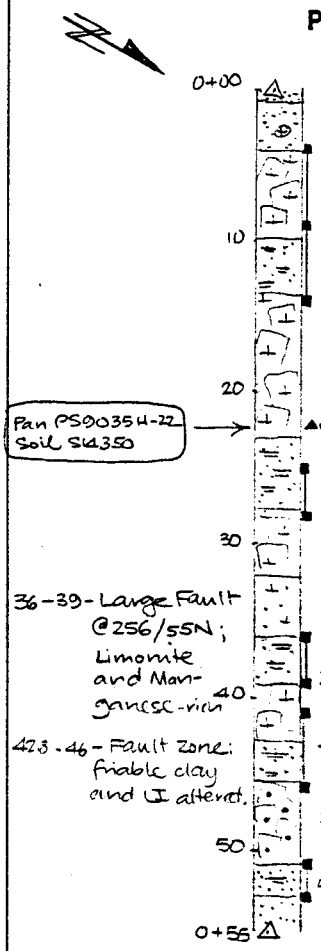
9053G-0 - sample taken @ 0m in the mixed colluvium and residual soil layer; orange-tan colour; Mostly subangular grains of quartz, remnant feldspar, biotite; Minor magnetite; Average particle size: 4mm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9035
CREEK: Tributary of Meloy
TYPE: Creek

PIT NUMBER: 9035 H	EQUIPMENT TYPE: D7 Ripper Cat.
NORTHING:	EQUIPMENT HOURS: D7: 2 hrs
EASTING:	EQUIPMENT COST: 2 @ $130/hr
STARTED: Aug. 5/93	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: Aug. 17/93	TOTAL EXPENDITURE: $ 325.63

PLAN VIEW



0.0-1.5 - Residual soil; orange-tan colour; small clasts of quartz Monzonite and Granodiorite

1.5-4.0 - Friable, mixed zones of granodiorite with residual soil

4.0-9.7 - blocky Granodiorite; Limonite stained on joint fractures.

9.7-13.6 - Fault zone - extremely friable Limonite and clay; faults @ many angles.

13.6-25.6 - blocky granodiorite

25.6-27.8 - Fault zone.

27.8-32 - blocky granodiorite

32-36 - mixed granodiorite and residual soil

39-42.8 - blocky granodiorite

46-51 - blocky, fresh to weakly altered Granite - Quartz Monzonite

51-53 - residual soil; FAULT; friable.

53-55 - residual soil (mixed with colluvium-?); friable; no structures are preserved.

Rock Samples:

4-9 m	P19276
9-14m	P19277
25-28m	P19278
36-39m	P19279
41-46m	P19280
51-53m	P19281

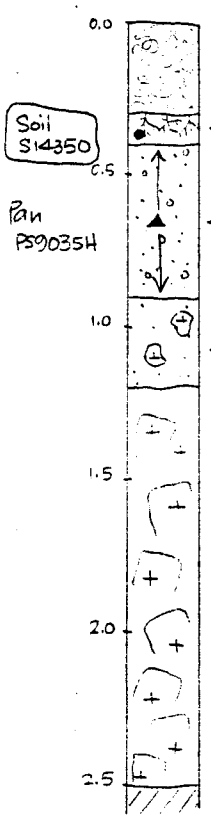
DIMENSIONS (m)

55 x 3 x 2.5

Scale 1:500

SOIL PROFILE

taken @ 22m



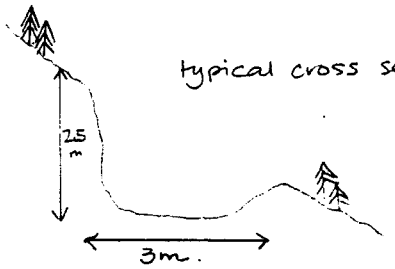
moss, willow, spruce, pine

organic-rich brown soil

Colluvium: quartz sand mixed with rubbly silt and organics; minor clasts of granodiorite which increases in size and abundance with depth. Friable with no remnant structures.

residual soil with clasts of Granodiorite; size and abundance of clasts increases with depth; tan-orange colour; friable without remnant structures.

blocky Granodiorite: Limonite stained; well fractured; fresh to weakly altered.



typical cross section

Scale 1:25

COMMENTS:

Soil: S14350 13, <5, 1, 30

Rock:	P19276	22, <5, 3, 48	/5m	P19279	7, <5, 1, 1390	/3m
	P19277	8, <5, 3, 346	/5m	P19280	11, <5, 1, 768	/4m
	P19278	38, <5, 2, 860	/3m	P19281	17, <5, 3, 3000	/2m

SAMPLE NUMBERS: Soil: S14350; Pan: PS9035H-22; Rock: P19276-19281 incl.

PANNING CONCENTRATE DESCRIPTION:

PS9035H-22 - sample taken @ 22m in the colluvium layer: orange tan colour; mostly sub-rounded grains of quartz and remnant feldspar; minor biotite, muscovite, magnetite; Average particle size: 10-15μm. Minor white and yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9036
CREEK:	Casino
TYPE:	Creek

PIT NUMBER: 9036A	EQUIPMENT TYPE: D7 Ripper
NORTHING:	EQUIPMENT HOURS: D7 : 1 hr
EASTING:	EQUIPMENT COST: 1 hr @ $130/hr
STARTED: June 7/93	LABOUR COST: 1 hr @ $26.25/hr
FINISHED: June 14/93	TOTAL EXPENDITURE: $ 156.25

PLAN VIEW

0.0-50.0- frozen black muck; organic rich.
- Permafrost table just under moss cover

Dimension (m)

50 x 4.5 x 0.3

Scale 1:500

SOIL PROFILE

COMMENTS:- Permafrost layer @ 0.30m depth. Further trenching abandoned.
- No samples taken.

SAMPLE NUMBERS:

PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9036
CREEK: Casino
TYPE: Creek

PIT NUMBER: 9036-B
NORTHING:
EASTING:
STARTED: July 15, 1993
FINISHED: July 21, 1993

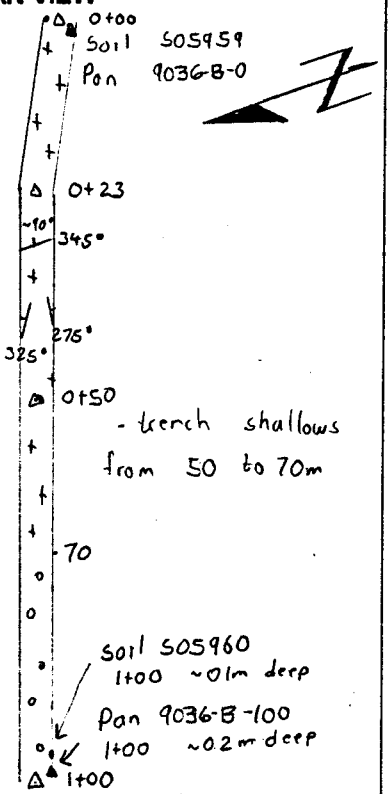
EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6: 2 hrs; hoe: 4.5 hrs
EQUIPMENT COST: 2 @ $100/hr; 4.5 @ $130/hr
LABOUR COST: 2.5 @ $26.25/hr
TOTAL EXPENDITURE: $850.63.

Survey Data

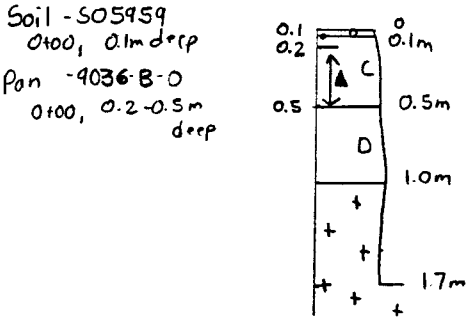
From	To	Stk	Dip
0	23	277°	-18°
23	100	290°	-17°

- good to poor exposure up until 70m
- weathered granodiorite
- mainly large blocks with minor zones of strong clay alteration
- after 70m trench very poor due to permafrost, only colluvium exposed

PLAN VIEW 1:1000



SOIL PROFILE 1:50



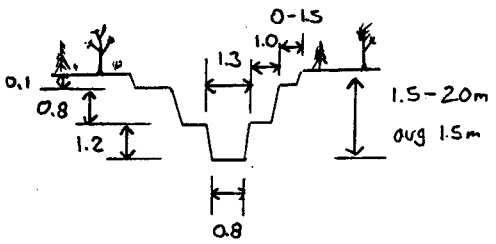
O - organics, 7-10cm thick, good black muck with some brown sand

C - colluvium, very light grey to brown clay, some sand and 30% angular WRGD frag.

D - decomposed bedrock, angular rock fragments in brown clay and sand

$^{+}_{+}$ - bedrock, granodiorite

Typical Cross-Section 0+26



Dimentions (m)
100 X 4.5 X 0.3

- at 70m trench becomes a cat trench w/ with only a 50cm hoe trench + no benches

COMMENTS: No glacial / fluvial material encountered. No permafrost until 70m then ground frozen solid. From 50 to 70m possibly discontinuous permafrost.

Soil: S05959 11, <5, <1, 18
S05960 20, <5, 2, 8

SAMPLE NUMBERS: S05959 - S05960 - Soil 9036-B-0, 9036-B-100 -pan

PANNING CONCENTRATE DESCRIPTION:

PS-9036B-0: sample taken @ 0m in the colluvium layer - 20-50 cm depth; orange-tan colour; Mostly quartz - some remnant feldspars, magnetite, muscovite; no mafics; minor yellow fluorescent grains; Ave. particle size: 20 μm

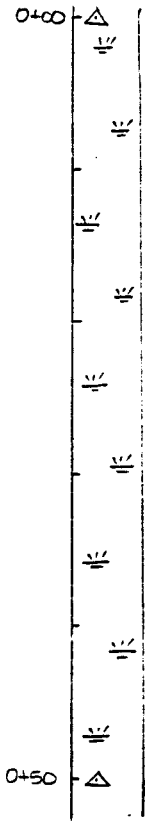
PS9036B-100: Sample taken @ 100m in the colluvium layer, orange-tan colour; Mostly quartz - some minor feldspars, muscovite, magnetite, biotite; Ave part. size: 30-40μm

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9036
CREEK:	Casino
TYPE:	Creek

PIT NUMBER: 9036 C	EQUIPMENT TYPE: D7 Ripper
NORTHING:	EQUIPMENT HOURS: D7 : 1 hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: June 11, 1993	LABOUR COST: 1 hr @ $26.25/hr
FINISHED: June 11, 1993	TOTAL EXPENDITURE: $156.25

PLAN VIEW



0.0-50.0 - Frozen black "muck" encountered beneath the thick moss cover.

Dimentions (m)
50 x 4.5 x 0.3

Scale 1:500

SOIL PROFILE

COMMENTS: - Permafrost encountered below the thick moss cover; further trenching abandoned after 0.3m depth
- No samples taken.

SAMPLE NUMBERS:

PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9036
CREEK: Casino
TYPE: Creek

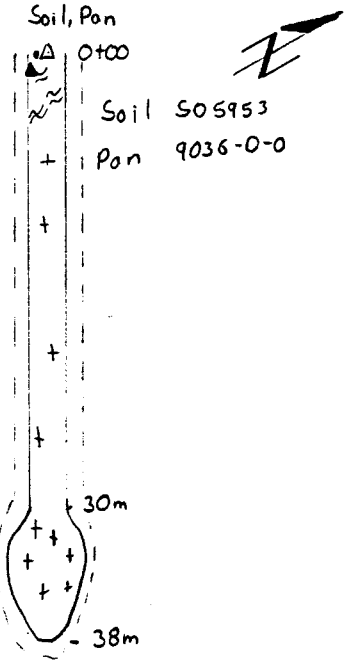
PIT NUMBER: 9036-D	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 5hrs
EASTING:	EQUIPMENT COST: 5 @ $130/hr
STARTED: July 15, 1993	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: July 19, 1993	TOTAL EXPENDITURE: $715.63

Survey Data

From	To	Strike	Dip
0+00	38m	118°	-14°

PLAN VIEW

1:500



-only colluvium or decomposed bedrock exposed in most of trench
- top 5m appear to be Yukon Metamorphic Quartzite with minor quartz-mica schist

-at 30m trench deepens to 3m with medium grained granodiorite

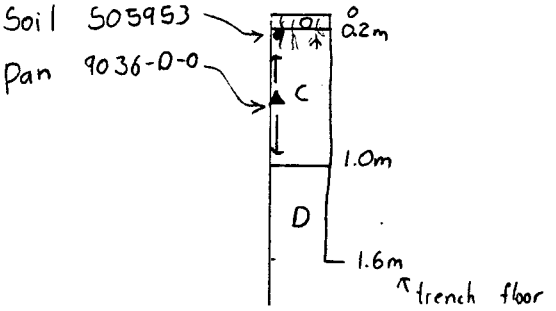
4X4 ROAD

≈≈ Yukon Metamorphic Complex
+ + Dawson Range Granodiorite

Dimentions (m)
38 x 4.4 x 1.6

SOIL PROFILE

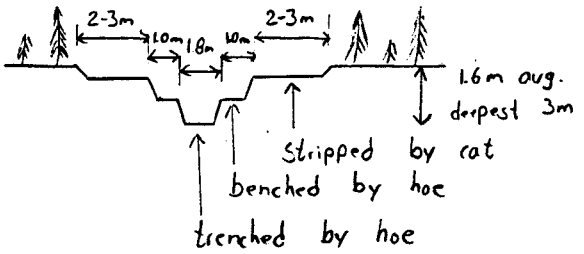
1:50



O - organics, 20cm of good black organics, some brown clay mixed in, become thicker down trench to ~40cm

C - colluvium, derived from up slope, mainly sandy clay material with minor frogments of granodiorite

D - decomposed bedrock, mainly light brown clay with rock fragments



TCB

COMMENTS: no permafrost, seepage or glacial/fluvial material

Soil S05953 25 <5 3 6

SAMPLE NUMBERS: S05953 -soil, 9036-D-0 pan sample

PANNING CONCENTRATE DESCRIPTION:

PS9036D-0: Sample taken @ 0m in the colluvium layer; tan-grey colour; Mostly quartz, biotite, remnant feldspars, magnetite, hornblende; Minor yellow fluorescent grains; Ave. particle size: 15-20μm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

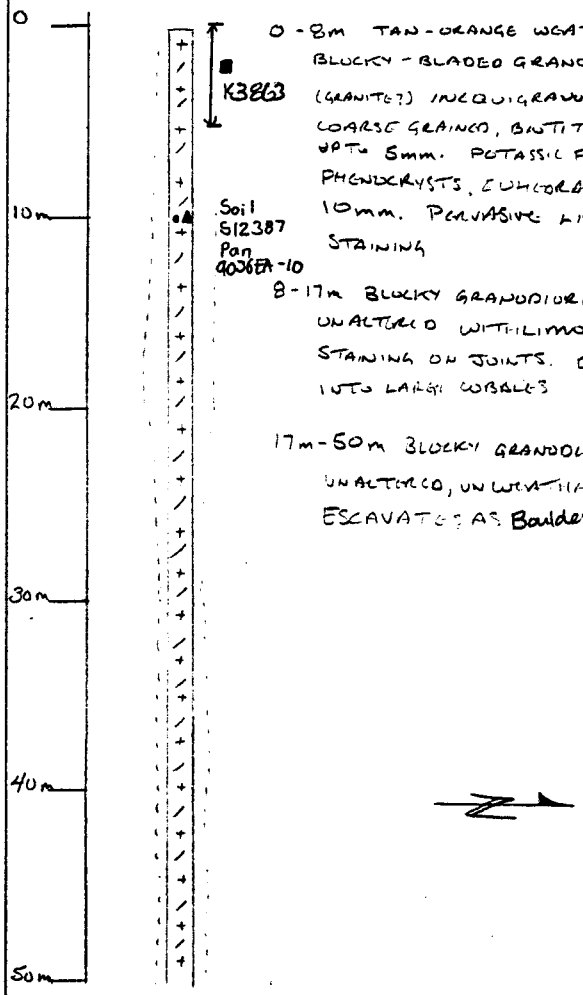
LEASE NO.: PL 9036-
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9036-EA
NORTHING:
EASTING:
STARTED: June 7, 1993
FINISHED: Aug 13, 1993

EQUIPMENT TYPE: D6 Wide Track; D7 Ripper; hoe
EQUIPMENT HOURS: D6: 0.5 hr ; D7R: 0.5hr ; hoe: 3hrs
EQUIPMENT COST: 0.5@ $100/hr; 0.5@ $130/hr; 3@ $130/hr
LABOUR COST: 2hrs @ $26.25/hr
TOTAL EXPENDITURE: $557.50

SCALE: 1:400

PLAN VIEW



0 - 8m TAN - ORANGE WEATHERING BLOCKY - BLADED GRANODIORITE (GRANITE?) INEQUIGRANULAR COARSE GRAINED, BIOTITE BOOKLETS UP TO 5mm. POTASSIC FELDSPAR PHENOCRYSTS, EUHEDRAL, UP TO 10mm. PERVASIVE LIMONITE STAINING

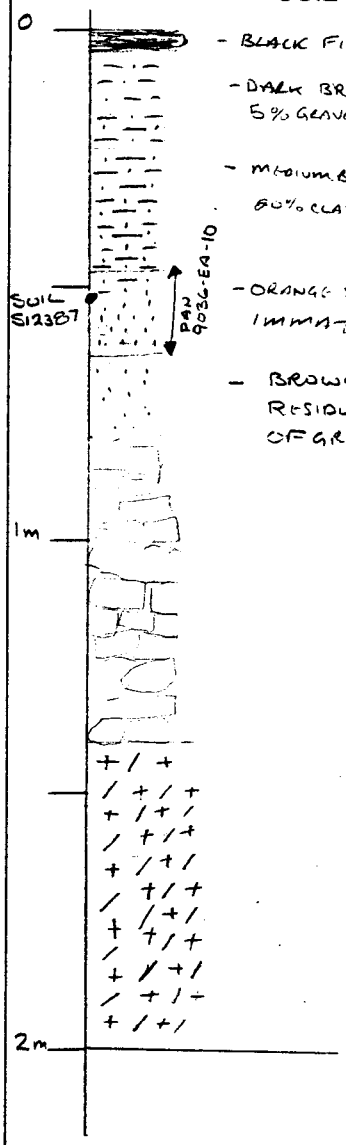
8 - 17m BLOCKY GRANODIORITE, UNALTERED WITH LIMONITE STAINING ON JOINTS. BREAKS INTO LARGE COBBLES

17m - 50m BLOCKY GRANODIORITE, UNALTERED, UNWEATHERED; ESCAVATES AS Boulders

Dimentions (m)
50 x 2.5 x 2.0

1:15

SOIL PROFILE at 10m



- BLACK FIBRIC ORGANIC SOIL DRY
- DARK BROWN SOIL 90% SILT, 20% CLAY 5% GRAVEL, 5% SAND
- MEDIUM BROWN SOIL MOIST. 30% SAND 60% CLAY, 45% SILT, 5% ORGANICS
- ORANGE SANDY SOIL 90% FINE IMMATURE SAND
- BROWN - BLACK SANDY SOIL RESIDUAL SANDS AFTER WEATHERING OF GRANODIORITE

COMMENTS:

Soil S12387 14, <5, <1. 10 Rock K3863 2, <5, <1.6 /5m

SAMPLE NUMBERS: Soil S12387 Pan, PS9036EA-10 Rock, K3863

PANNING CONCENTRATE DESCRIPTION:

PAN 9036EA-10 - FINE SAND CONSISTING OF ANGULAR CLEAR QUARTZ, BIOTITE; LESSER FELDSPARS AND MAGNETITE. SEVERAL VERY FINE YELLOW AND BLUE fluorescent GRAINS

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

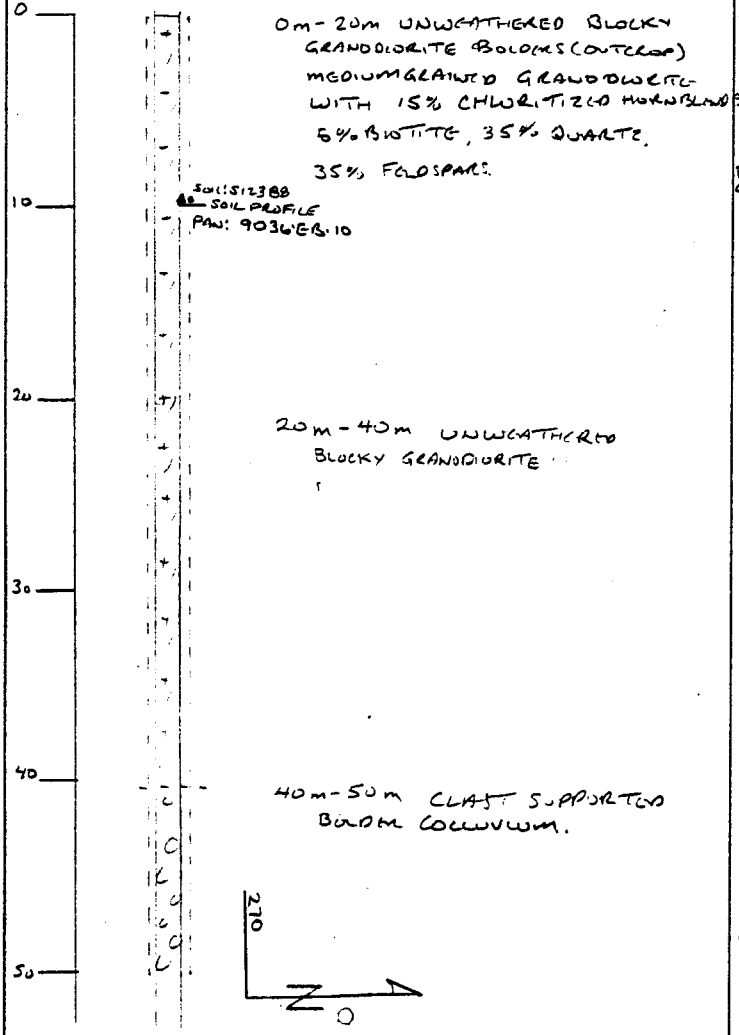
LEASE NO.: PL 9036
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9036-EB
NORTHING:
EASTING:
STARTED: June 7, 1993
FINISHED: August 13, 1993

EQUIPMENT TYPE: D6 Wide Track; D7 Ripper; Hitachi hoe
EQUIPMENT HOURS: D6: 0.5hrs; D7: 0.5hrs; hoe: 3hrs
EQUIPMENT COST: 0.5@ $100/hr; 0.5@ $130/hr; 3@ $130/hr
LABOUR COST: 2 hrs @ $26.25/hr
TOTAL EXPENDITURE: $557.50

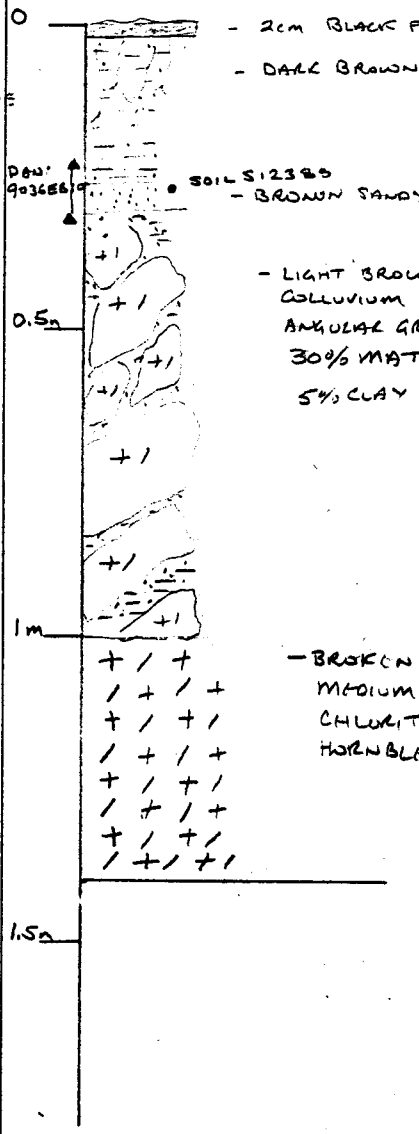
SCALE 1:400

PLAN VIEW



Dimentions (m)
50 x 1.5 x 1.4

SOIL PROFILE @ 10m



Scale 1:12.5

COMMENTS:

Soil S12388 11, <5, <1.8

SAMPLE NUMBERS: Soil: S12388 PAN: 9036-EB-10

PANNING CONCENTRATE DESCRIPTION:

PAN 9036-EB-10 PANNED TO FINE SAND OF ANGULAR GRAINS OF QUARTZ, MAGNETITE, HORNBLENDE BIOTITE, MUSCOVITE. SOME FLOURESCENT YELLOW GRAINS

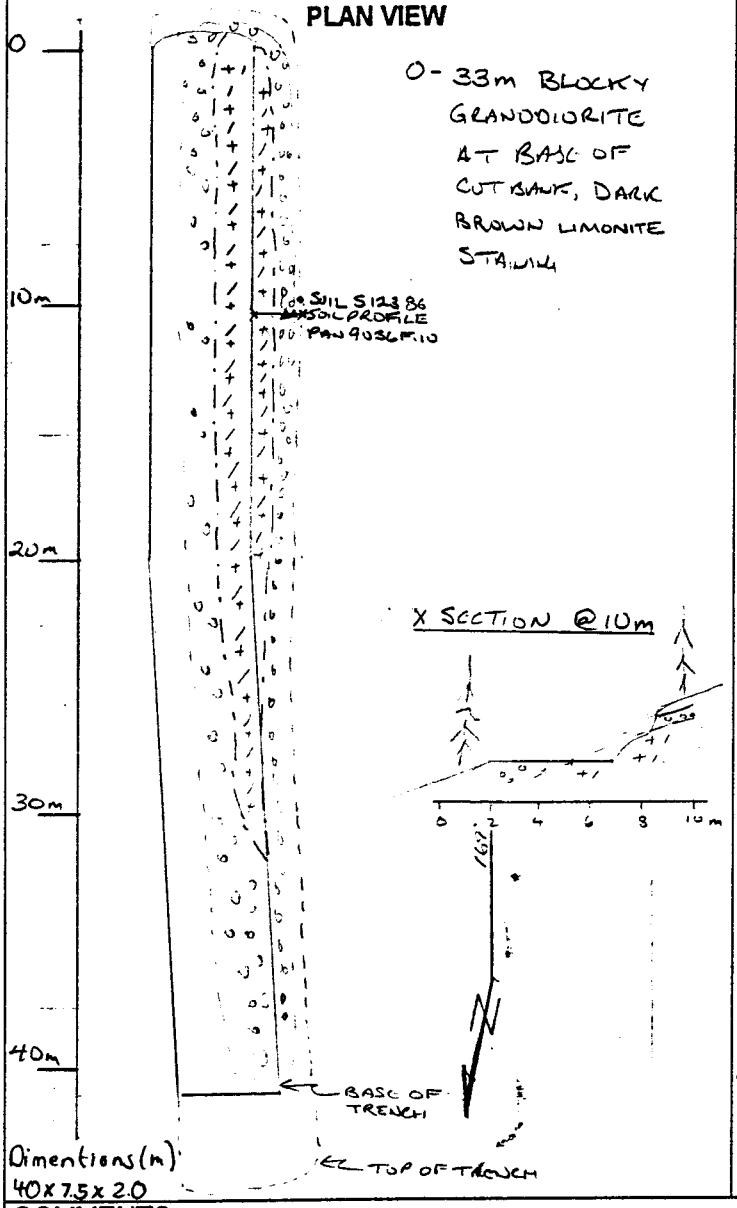
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9036
CREEK: CASINO
TYPE: CREEK

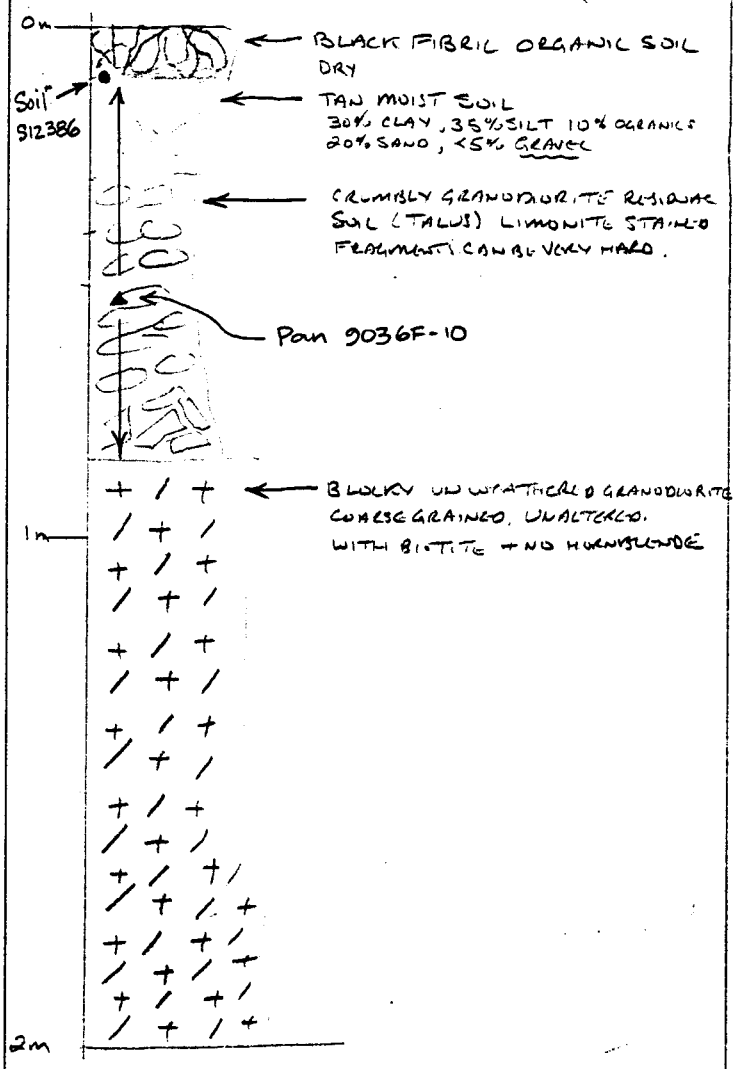
PIT NUMBER: 9036-F	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 3hrs
EASTING:	EQUIPMENT COST: 3 @ $130/hr
STARTED: June 13, 1993	LABOUR COST: 3 hrs @ $26.25/hr
FINISHED: August 13, 1993	TOTAL EXPENDITURE: $468.75

SCALE: 1:300

PLAN VIEW



SOIL PROFILE @10m



Scale 1:15

COMMENTS:

Soil S12386 27, <5, <1, 14

SAMPLE NUMBERS: SOIL S12386, PAN9036F-10

PANNING CONCENTRATE DESCRIPTION:

PAN 9036F-10 : PANNED TO FINE SAND 30% MAGNETITE 60% CLEAR QUARTZ SAND, 1% MICAS. SCHEELITE (<1%) CALCITE FLUORESCENT YELLOW GRAINS AND A FEW FLUORESCENT WHITE GRAINS (TRACE)

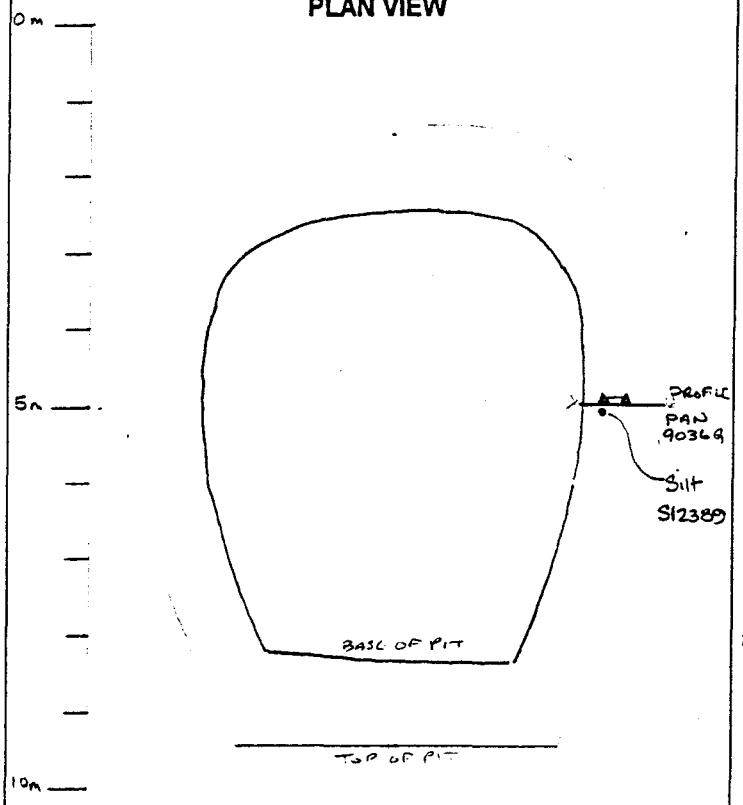
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9036
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9036-G	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 1hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: August 12, 1993	LABOUR COST: 1 hr @ $26.25/hr
FINISHED: August 13, 1993	TOTAL EXPENDITURE: $156.25

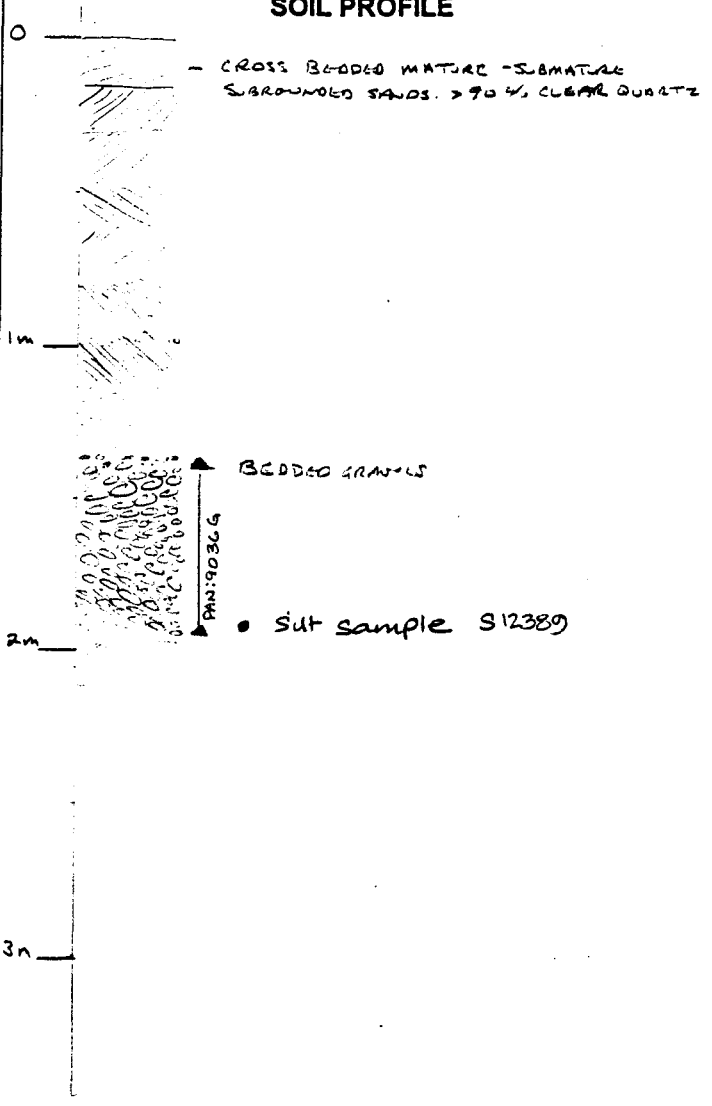
1:100

PLAN VIEW



1:25

SOIL PROFILE



Dimentions (m)
8.5 x 3.0 x 2.1

COMMENTS:

Silt S12389 18, <5, <1, 24

SAMPLE NUMBERS: PAN: 9036G ; Silt Sample : S12389

PANNING CONCENTRATE DESCRIPTION:

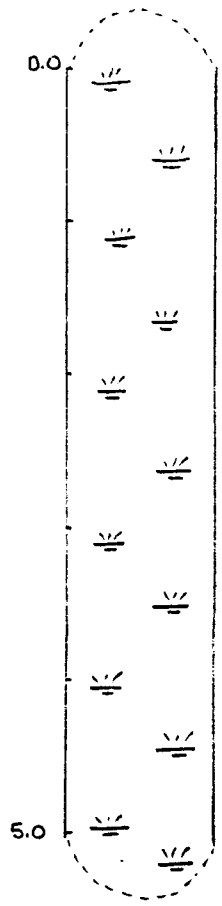
PAN: 9036G.0 PANNED TO FINE SAND 55% ANGULAR QUARTZ SAND, 35% MAGNETITE 10% FELDSPARS, 0.8% FLOURESCENT YELLOW MINERALS TRACE FLUORESCENT WHITE MINERALS

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9036
CREEK:	Casino Creek
TYPE:	Creek

PIT NUMBER: 9036H	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 1hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: Aug. 12/93	LABOUR COST: 0.5hr @ $26.25/hr
FINISHED: Aug. 13/93	TOTAL EXPENDITURE: $143.13

PLAN VIEW



permafrost encountered just under the moss cover. only "black muck" exposed.

Dimentions (m)
5.0 x 1.0 x 0.3

Scale 1:50

SOIL PROFILE

COMMENTS: - Permafrost encountered just under the moss cover @ a depth of 30m. Further trenching abandoned.
- No samples taken.

SAMPLE NUMBERS:

PANNING CONCENTRATE DESCRIPTION:

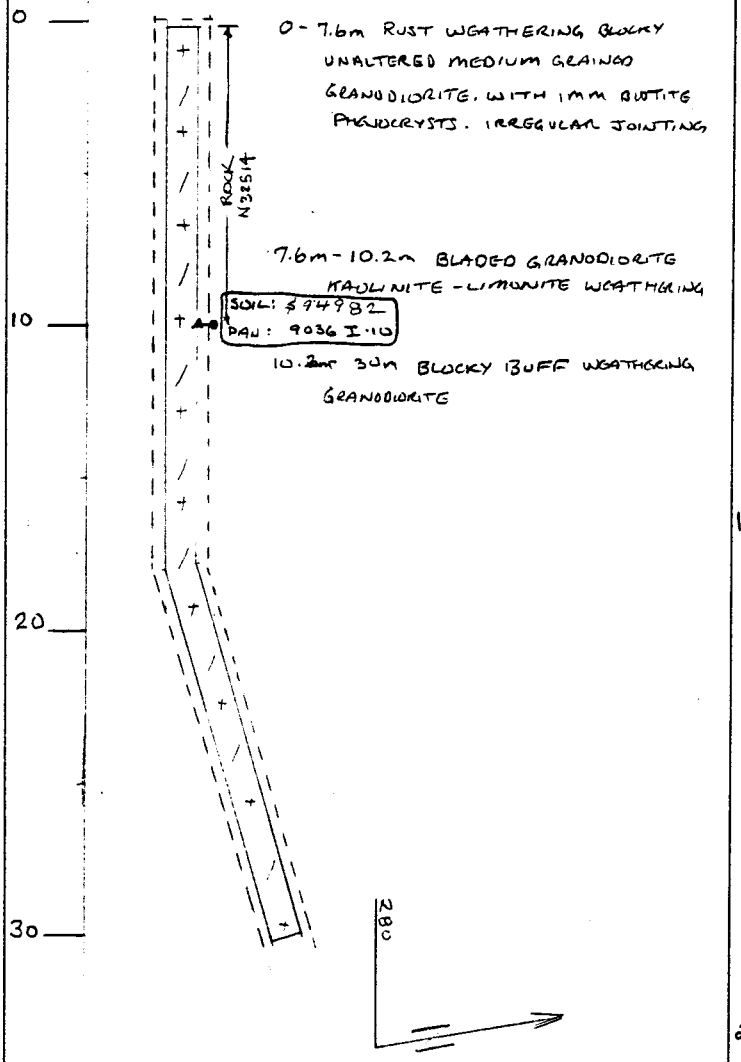
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9036
CREEK: CASINO CREEK
TYPE: CREEK

PIT NUMBER: 9036 I	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 2 hrs
EASTING:	EQUIPMENT COST: 2 @ $130/hr
STARTED: August 12/93	LABOUR COST: 2hrs @ $26.25/hr
FINISHED: AUGUST 19, 1993	TOTAL EXPENDITURE: $312.50

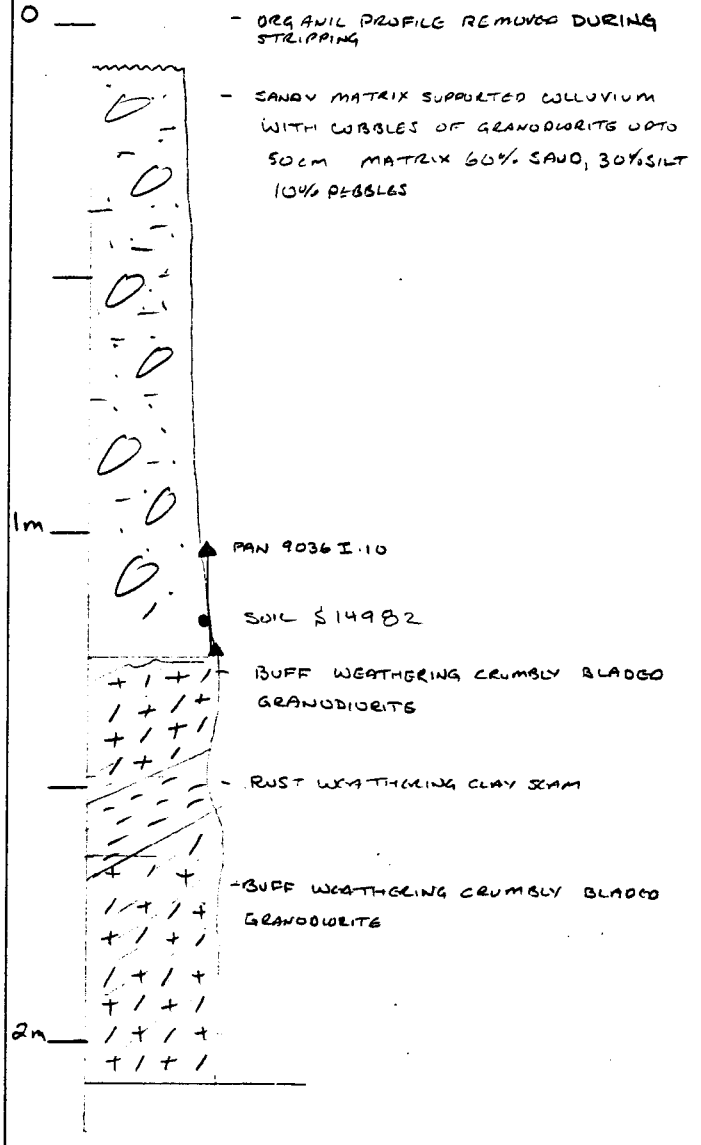
SCALE: 1:250

PLAN VIEW



1:15

SOIL PROFILE @ 10m



Dimentions (m)
30 x 1.5 x 2.1

COMMENTS:

Soil $14982 13, <5, 1, 2 Rock N32514 5, <5, <1, 4 /10m

SAMPLE NUMBERS: SOIL $14982 PAN 9036-I-10 ROCK N32514

PANNING CONCENTRATE DESCRIPTION:

PS9036I-10 - Sample taken @ 10m; orange-grey colour; mostly subangular grains of magnetite, quartz, biotite, feldspar. Minor yellow fluorescent grains; Average particle size: 10-20µm.

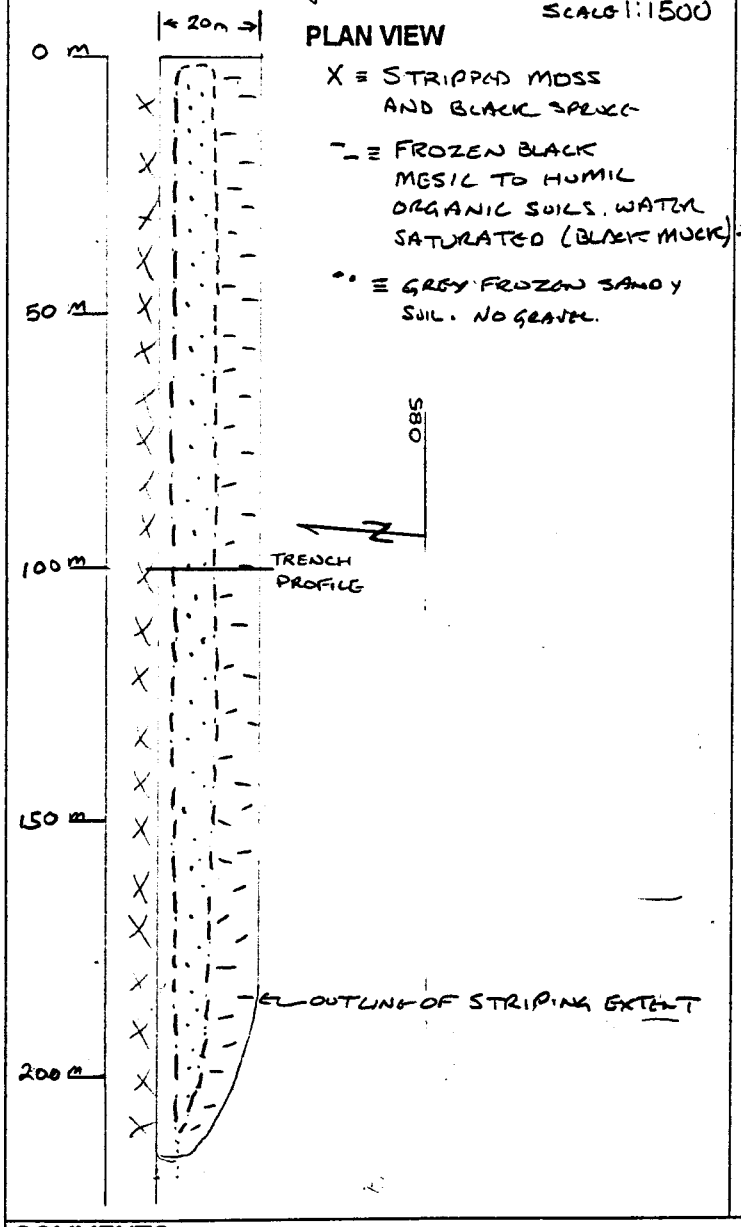
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9037
CREEK: BRYNELSEN
TYPE: CREEK

PIT NUMBER: 9037 A	EQUIPMENT TYPE: D7-RIPPER CAT HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D7: 24 HOE: 4
EASTING:	EQUIPMENT COST: D7 @ 130/HR = $3120. HOE @ 130/HR = $520
STARTED: JUNE 2, 1993	LABOUR COST: ~$0
FINISHED: JULY 11, 1993	TOTAL EXPENDITURE: $3640

SCALE 1:1500

PLAN VIEW



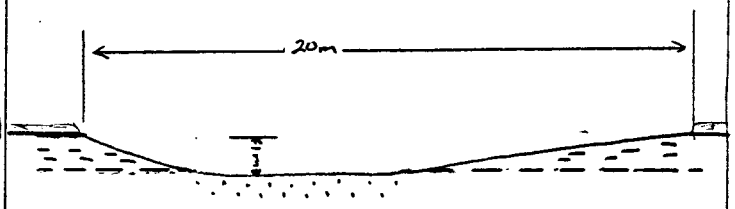
X = STRIPPED MOSS AND BLACK SPRUCE

= FROZEN BLACK MESIC TO HUMIC ORGANIC SOILS. WATER SATURATED (BLACK MUCK)

= GREY FROZEN SANDY SOIL. NO GRAVEL.

1:250

SOIL PROFILE @ 100m



- FROZEN GROUND, UNABLE TO PENETRATE TO GRAVELS.

COMMENTS: AREA FIRST STRIPPED OF LIVING ORGANIC MATERIAL JUNE RESTRIPPED, UNABLE TO TRENCH PERMAFROST TO GRAVELS. RECOMMEND CONTINUED STRIPPING NEXT YEAR AND REATEMPT TRENCHING

SAMPLE NUMBERS: NO SUITABLE MATERIAL

PANNING CONCENTRATE DESCRIPTION: NO SUITABLE MATERIAL

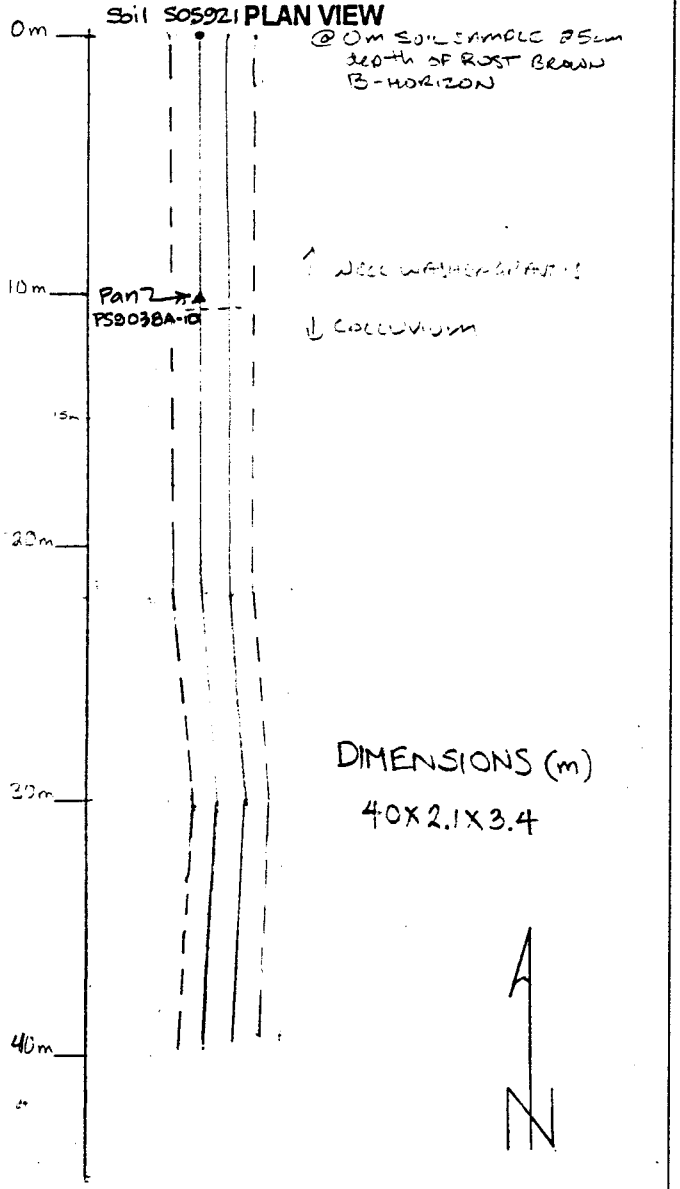
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9038
CREEK: CANADIAN
TYPE: CREEK

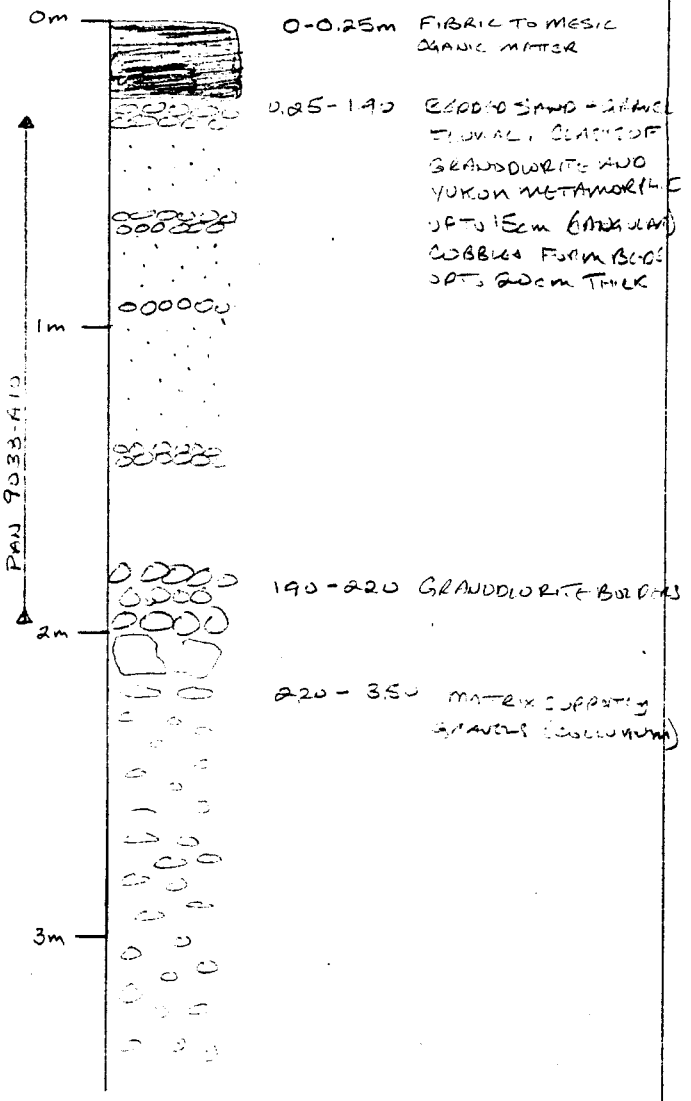
PIT NUMBER: 9038-A	EQUIPMENT TYPE: D-7 winch, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D-7 2 hrs; Hoe 7 hrs
EASTING:	EQUIPMENT COST: 2 hrs @ 100 = $200; 7 hrs @ 130 = $910
STARTED: June 8, 1993	LABOUR COST: 5 hrs @ $26.25 = $131.25
FINISHED: JUNE 29 1993	TOTAL EXPENDITURE: $1241.25

SCALE: 1:300

Soil S05921 PLAN VIEW



SOIL PROFILE @ 10m



COMMENTS: No bedrock exposed.

Soil S05921 94, 25, 24 32

SAMPLE NUMBERS: Pan: PS9038A-10 ; Soil: S05921

PANNING CONCENTRATE DESCRIPTION:

PS9038A-10 sample taken @ 10m in the bedded, fluvial layer; orange-brown coloured; Mostly quartz (some have a limonite stain), minor feldspar, hornblende, and pyrite. Ave particle size: 20-25 µm. Minor orange fluorescent grains (colourless in plain light) - possibly powellite.

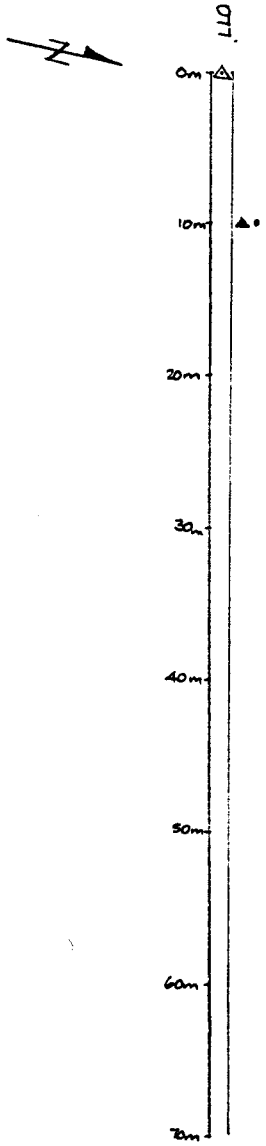
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9038
CREEK:	Canadian
TYPE:	Creek.

PIT NUMBER: 9038-B	EQUIPMENT TYPE: Hitachi hoe
NORTHING:	EQUIPMENT HOURS: Hoe: 8hrs
EASTING:	EQUIPMENT COST: 8 hrs @ $130/hr
STARTED: July 2, 1993	LABOUR COST: 3hrs @ $26.25/hr
FINISHED: July 10, 1993	TOTAL EXPENDITURE: $1118.75

Scale: 1:500

PLAN VIEW



pan sample PS9038B-10

0-70m:

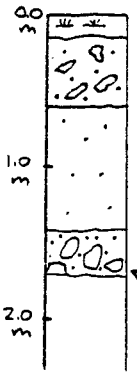
- No bedrock exposed - mostly frozen colluvium and talus.
- ice lenses in the soil and in the residual soil/blocky granodiorite.

DIMENSIONS (m)

70 X 1.5 X 1.7

SOIL PROFILE

taken @ 50m



0.0-0.15 - moss and blocky talus

0.15-0.60 - Coarse, blocky talus
- very coarse, hard, competant blocky talus (up to 0.8m)
- talus of hard granodiorite

← Frozen, organic rich soil
- dark brown to black frozen, hard, very fine, fibrous peat and clayey silt.
- thin, randomly oriented ice lenses. 0.5-1.0mm thick.
  → estimate of 10% ice by volume.

Frozen, Broken Rock Fragments
- slightly weathered, hard, broken granodiorite supported in a frozen, residual sand matrix.
- ice-rich with up to 6" ice wedges.

Scale: 1:50.

COMMENTS: No Bedrock Exposed.

SAMPLE NUMBERS: Pan: 9038B-10;

PANNING CONCENTRATE DESCRIPTION:

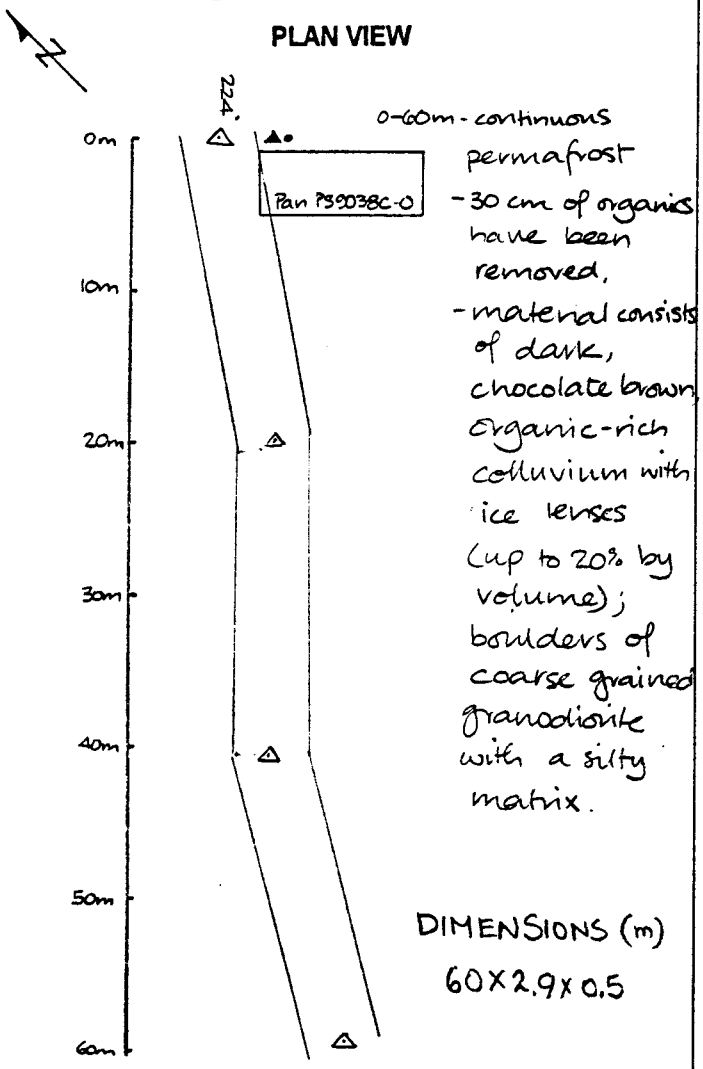
9038-B-10 - Sample taken @ 10m. Light tan-grey colour; mostly Quartz, feldspar, minor Hornblende and magnetite, minor Pyrite. Average particle size: 15-20 µm. Minor fluorescent orange mineral - possibly powellite?

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9038
CREEK:	Canadian
TYPE:	Creek

PIT NUMBER: 9038C	EQUIPMENT TYPE: Hitachi hoe
NORTHING:	EQUIPMENT HOURS: Hoe: 9 hrs
EASTING:	EQUIPMENT COST: 9 hrs @ $130/hr
STARTED: July 2, 1993	LABOUR COST: 4 @ $26.25/hr
FINISHED: July 10, 1993	TOTAL EXPENDITURE: $1275.00

PLAN VIEW



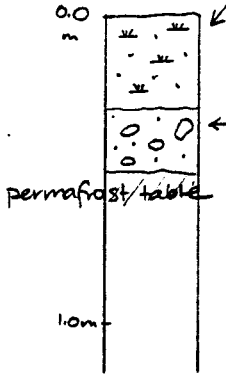
0-60m - continuous permafrost
- 30 cm of organics have been removed,
- material consists of dark, chocolate brown, organic-rich colluvium with ice lenses (up to 20% by volume); boulders of coarse grained granodiorite with a silty matrix.

DIMENSIONS (m)
60 X 2.9 X 0.5

Scale: 1:500

SOIL PROFILE

taken @ 30m



0.0 - 0.3m - Frozen Peat and silt under moss
- material turns to "muck" when thawed.

← Frozen colluvium and Talus
- brown, thawed, very wet (saturated) coarse grained sand with some silt and gravel.
- occasional boulder to 1.5m diameter.
- All talus clasts are hard granodiorite

Scale: 1:25.

COMMENTS: Continuous Permafrost - no bedrock exposed.

SAMPLE NUMBERS: Pan: 9038C-0

PANNING CONCENTRATE DESCRIPTION:

9038-C-0 - Sample taken @ 0m in the organic-rich colluvium. tan-grey-colour; mostly, hornblende, quartz, magnetite, remnant feldspars, Minor yellow and blue fluorescent grains; Ave particle size: 20-25μm.

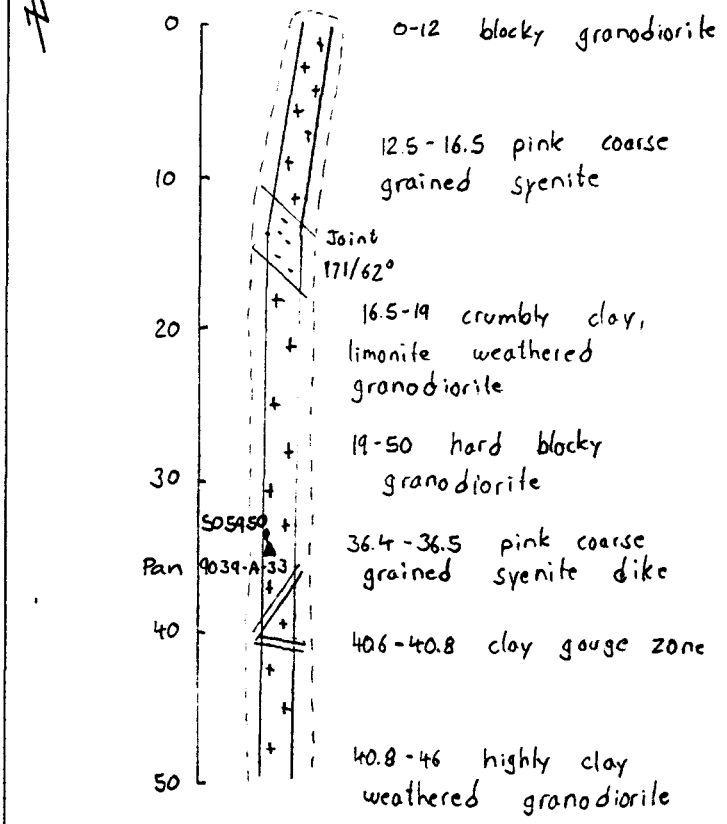
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9039
CREEK:	Casino
TYPE:	Bench

PIT NUMBER: 9039A	EQUIPMENT TYPE: D7 Ripper; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7 - 2hrs; hoe: 3hrs
EASTING:	EQUIPMENT COST: 2 @ $130/hr; 3 @ $130/hr
STARTED: June 9, 1993	LABOUR COST: 3hrs @ $26.25/hr
FINISHED: July 17, 1993	TOTAL EXPENDITURE: $728.75

1:500

PLAN VIEW

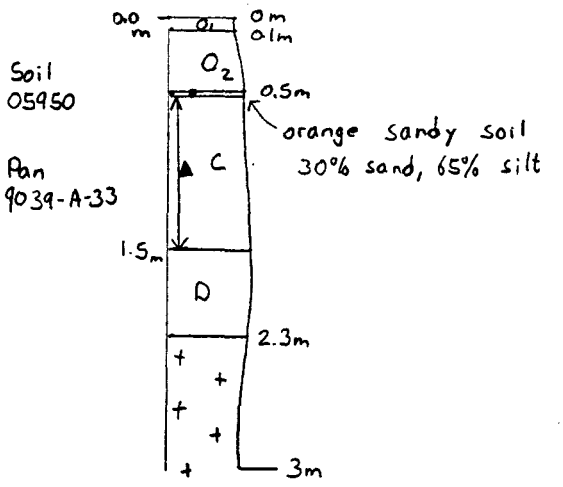


Dimentions (m)
50 × 3.5 × 3.0

Scale 1:50

SOIL PROFILE

@ 32.8m



O_1 - organics, black muck

O_2 - dark brown silty soil, 80% silt, 10% clay 10% organics

C - dark brown matrix supported colluvium with boulders and cobbles of granodiorite

D - crumbly granodiorite with limonite stains

+ + - blocky granodiorite

COMMENTS:

Soil S05950 30, <5, 2 16

SAMPLE NUMBERS: Pan: 9039A-33 Soil S0CA50

PANNING CONCENTRATE DESCRIPTION:

PS9039A-33 - Sample taken @ 33m in the fluvial, clastic layer; tan coloured; subangular to rounded grains averaging 1.5mm of quartz, feldspar, hornblende and Pyrite, minor magnetite, Some orange fluorescent mineral - possibly powellite ?

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9039
CREEK: Casino
TYPE: Bench

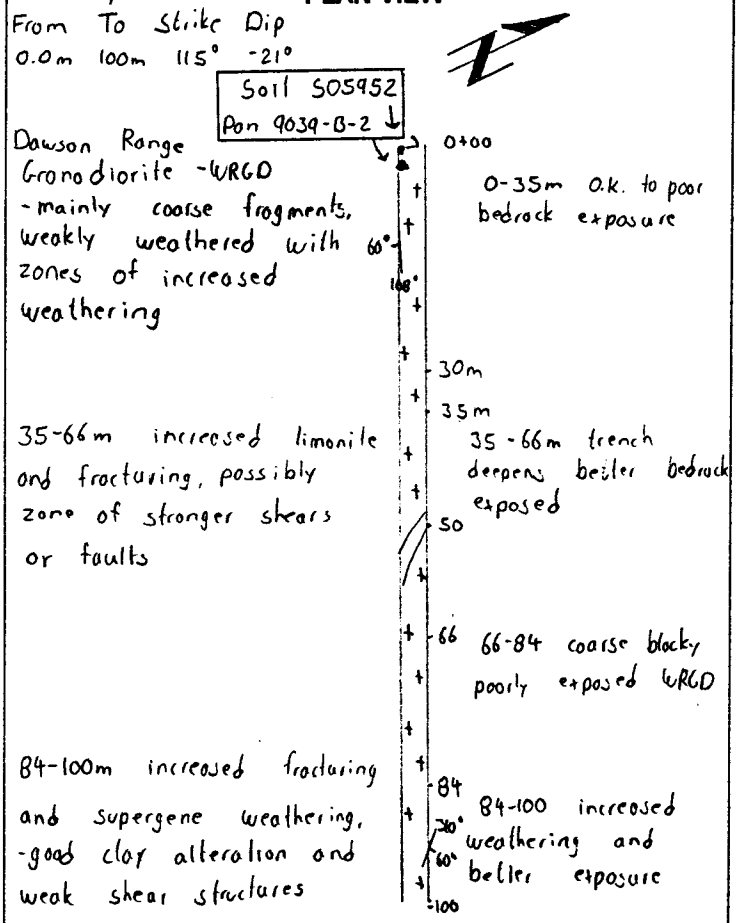
PIT NUMBER: 9039-B
NORTHING:
EASTING:
STARTED: July 15, 1993
FINISHED: July 19, 1993

EQUIPMENT TYPE: D6 wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6: 2.5hrs; hoe: 6 hrs
EQUIPMENT COST: 2.5 @ $100/hr; 6 @ $130/hr
LABOUR COST: 2.5hrs @ $26.25/hr
TOTAL EXPENDITURE: $1095.63

Survey Data

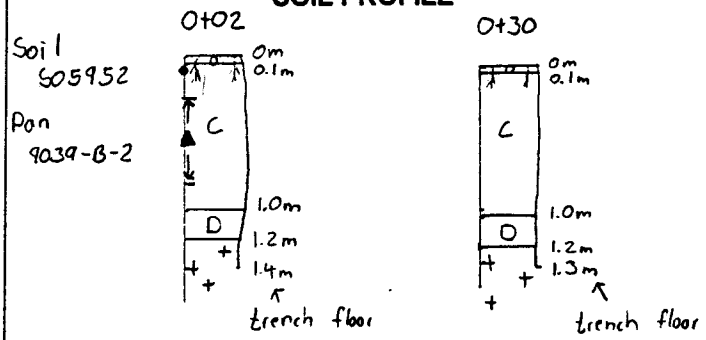
PLAN VIEW 1:1000

From To Strike Dip
0.0m 100m 115° -21°



Dimenbrions (m)
100 x 4 x 1.8

SOIL PROFILE 1:50

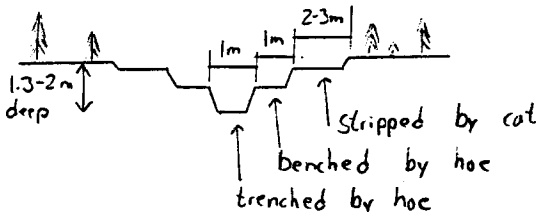


O - organics, light brown, poorly developed

C - colluvium, mainly light brown sand with rock fragments

D - decomposed bedrock

+ + + - bedrock, granodiorite



COMMENTS: no permafrost, no water and no glacial/fluvial material

Soil S05952 21, <5, 1.6

SAMPLE NUMBERS: S05952 - Soil 9039-B-2 - Pan Sample

PANNING CONCENTRATE DESCRIPTION:

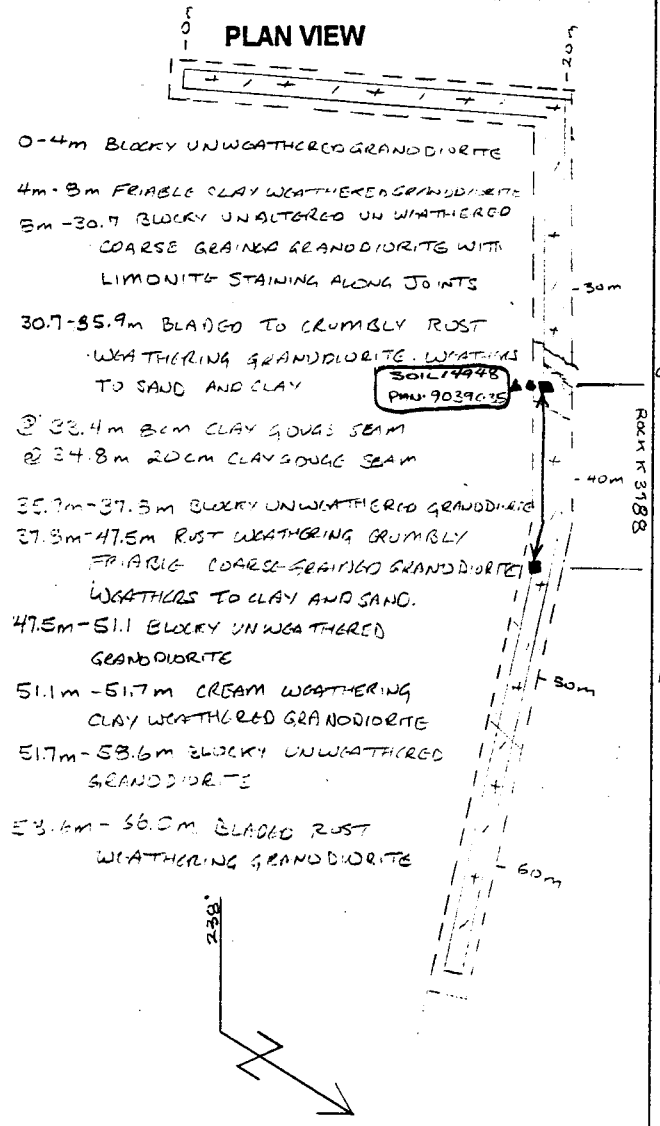
PS90396-2 - sample taken from the colluvium layer @ 2m. Orange - tan colour; Decomposed Granodiorite: Quartz, feldspar, hornblende, magnetite, biotite, muscovite; Minor cyclon fluorescent grains. Average particle size: 20µm

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

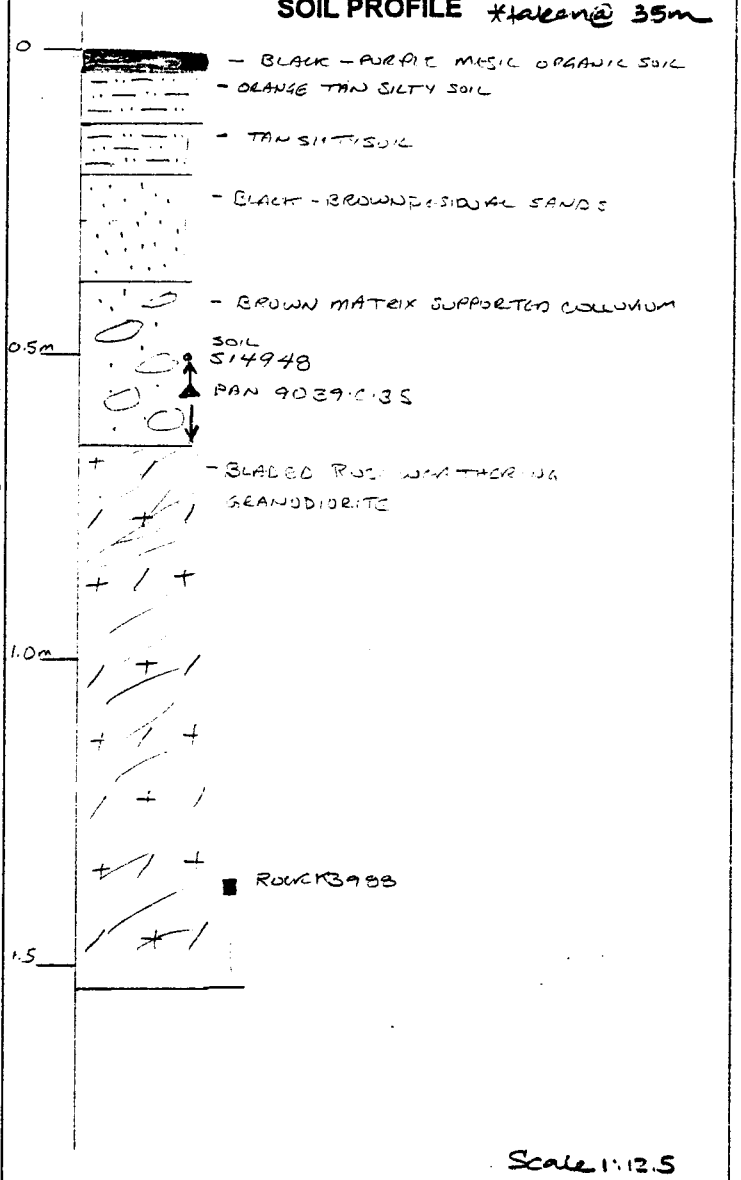
LEASE NO.:	PL 9039
CREEK:	CASINO
TYPE:	BENCH

PIT NUMBER: 9039-C	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 5hrs
EASTING:	EQUIPMENT COST: 5 @ $130/hr
STARTED: August 18, 1993	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: August 22, 1993	TOTAL EXPENDITURE: $715.63

PLAN VIEW



SOIL PROFILE *taken @ 35m



COMMENTS:

Soil S14948 81, <5, 15.8 Rock K3988 37, <5, 4, <2 / 10m

SAMPLE NUMBERS: SOIL S14949 ROCK K3999 PAN: 9039-C-35

PANNING CONCENTRATE DESCRIPTION:

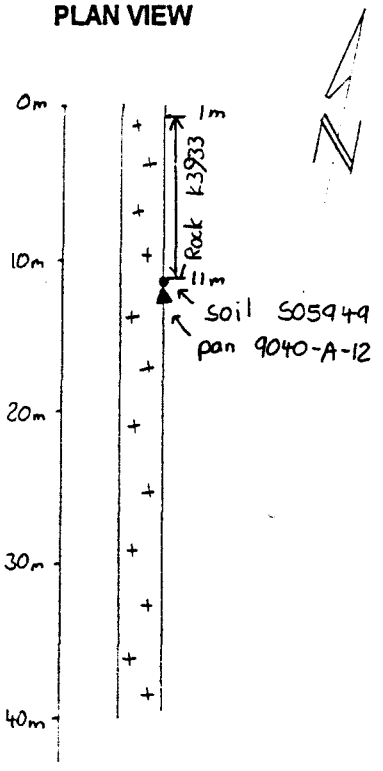
PS9039C-35 - Sample taken @ 35m in the lower section of the brown colluvium layer; orange-grey colour; mostly subangular grains of quartz, biotite, felaspar; minor hornblende and magnetite. Average particle size: 20µm. Minor yellow and white fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL9040
CREEK:	Casino
TYPE:	Bench

PIT NUMBER: 9040-A	EQUIPMENT TYPE: D7 Ripper; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 2 hrs; hoe: 3 hrs
EASTING:	EQUIPMENT COST: 2 @ $130/hr; 3 @ $130/hr
STARTED: June 9, 1993	LABOUR COST: 3 hrs @ $26.25/hr
FINISHED: July 17, 1993	TOTAL EXPENDITURE: $728.75

PLAN VIEW



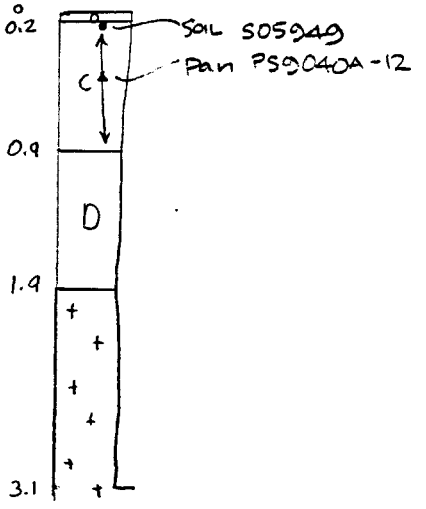
0-40m Blocky inequigranular granodiorite with weak propyllitic alteration
- forms irregular small cobbles
- buff weathering with a weak limonite stain

Dimentions (m)
40x 3.0 x 3.1

Scale: 1:500

SOIL PROFILE

taken @ 0+12



O - organics, 20cm deep, dark brown

C - colluvium, bedded bark brown soil, 60% silt, 25% sand, 10% gravel, 5% clay

D - decomposed bedrock, buff weathering crumbly granodiorite clasts form angular blocks, ~15cm avg.

+ + - bedrock, granodiorite

Scale: 1:50

COMMENTS:

Soil S05949 33, <5, 1, 6 ✓ missing at chemex?

SAMPLE NUMBERS: Soil - S05949 Pan - 9040-A-12 Rock K3933

PANNING CONCENTRATE DESCRIPTION:

PS9040A-12 - Sample taken @ 12m in the colluvium layer. tan-grey colour; Decomposed "young" granodiorite: angular pieces of qz, feldspar, HB, BI, muscovite; mod-abund. magnetite; minor yellow fluorescent grains. Ave. particle size: 30μm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9040
CREEK: Casino
TYPE: Bench

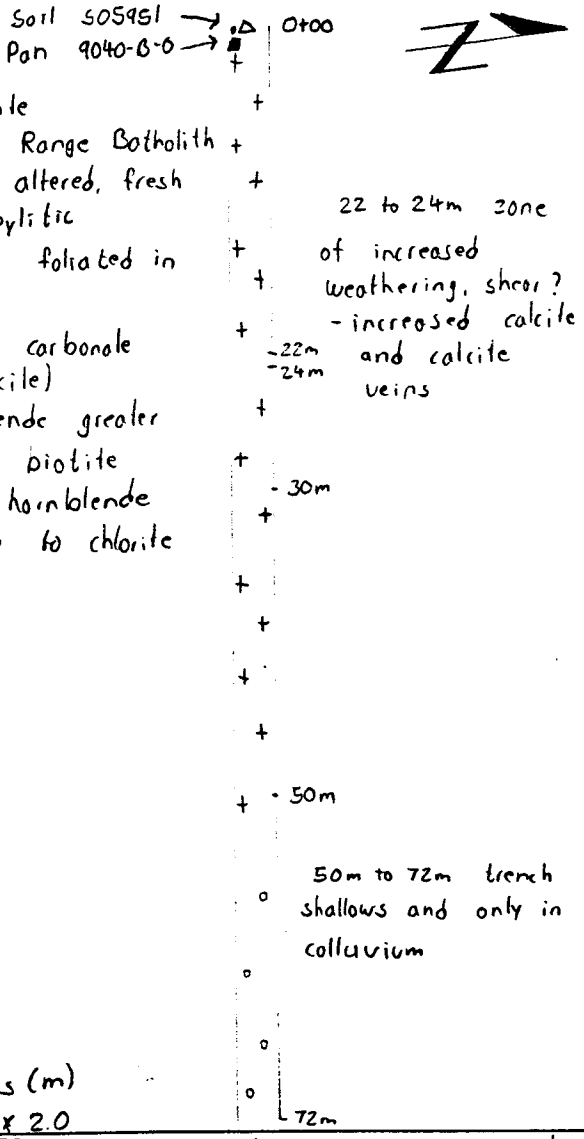
PIT NUMBER: 9040-B
NORTHING:
EASTING:
STARTED: July 15, 1993
FINISHED: July 19, 1993

EQUIPMENT TYPE: D6 Wide Track, Hitachi hoe
EQUIPMENT HOURS: D6: 2hrs; hoe: 4.5hrs
EQUIPMENT COST: 2 @ $100/hr; 4.5 @ $130/hr
LABOUR COST: 2.5 hrs @ $26.25/hr
TOTAL EXPENDITURE: $850.63

Survey Data

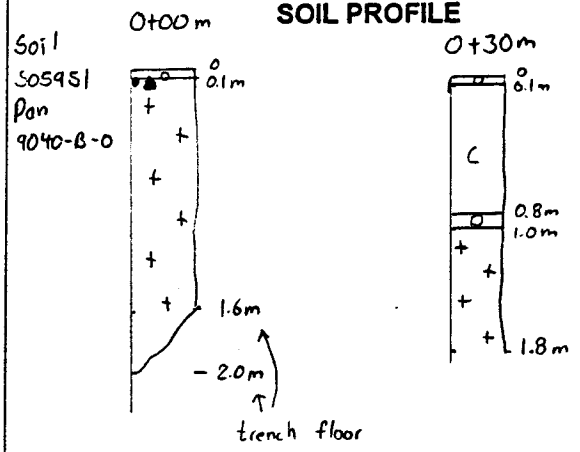
From	To	Strike	Dip
0+00	72m	97°	-21°

PLAN VIEW 1:500



Dimentions (m)
72 x 3.5 x 2.0

SOIL PROFILE 1:50

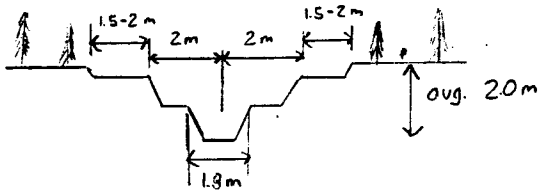


O - organics, 10cm of poorly developed organics, brown clay - south facing slope

C - colluvium, non existant at crest of ridge, increases to 70cm of light sandy brown material with decomposed granodiorite

D - decomposed bedrock, granodiorite with brown sandy material

++ - bed rock, granodiorite



TCB

COMMENTS: no permafrost, no water in trench, no glacial / fluvial material

Soil S05951 14, <5, <1, 4

SAMPLE NUMBERS: S05951 - soil 9040-B-0 - pan sample

PANNING CONCENTRATE DESCRIPTION:

PS9040B-0 - sample taken @ on just above bedrock; orange-tan colour; Decomposed granodiorite. Mostly subangular quartz, feldspar, biotite, magnetite, muscovite. Minor bone fluorescent grains. Fine particle size: 10µm

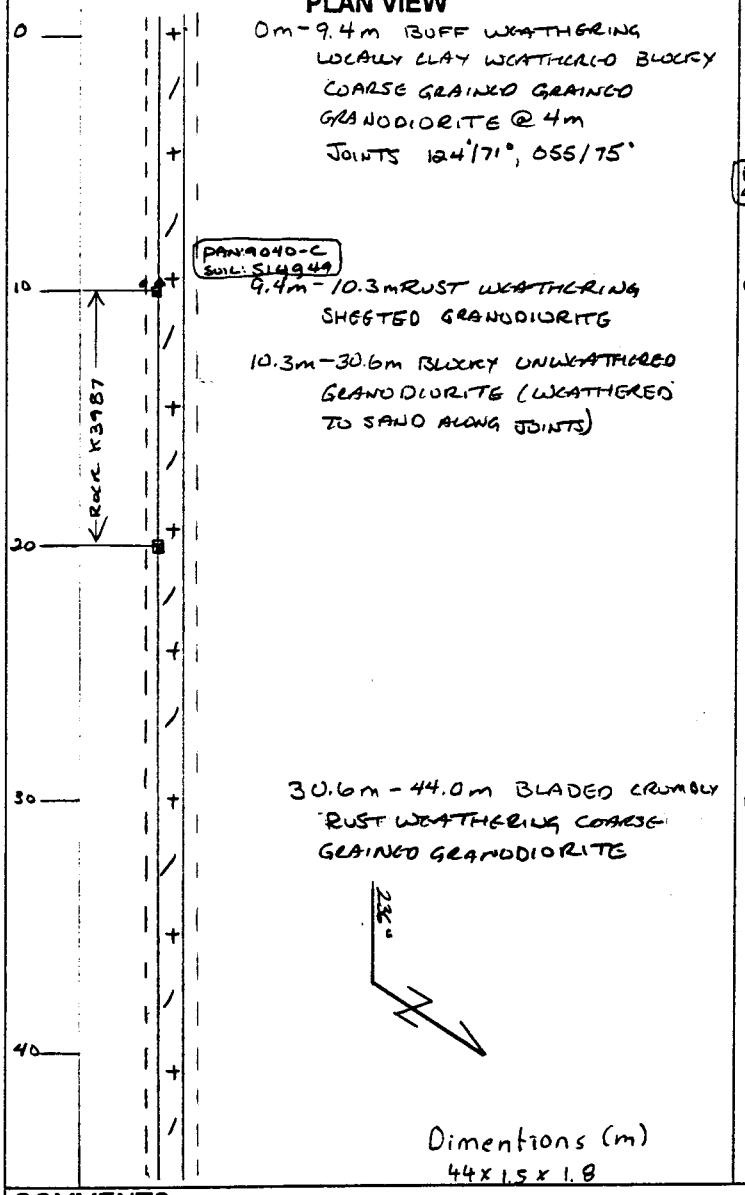
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9040
CREEK: CASINO
TYPE: BENCH

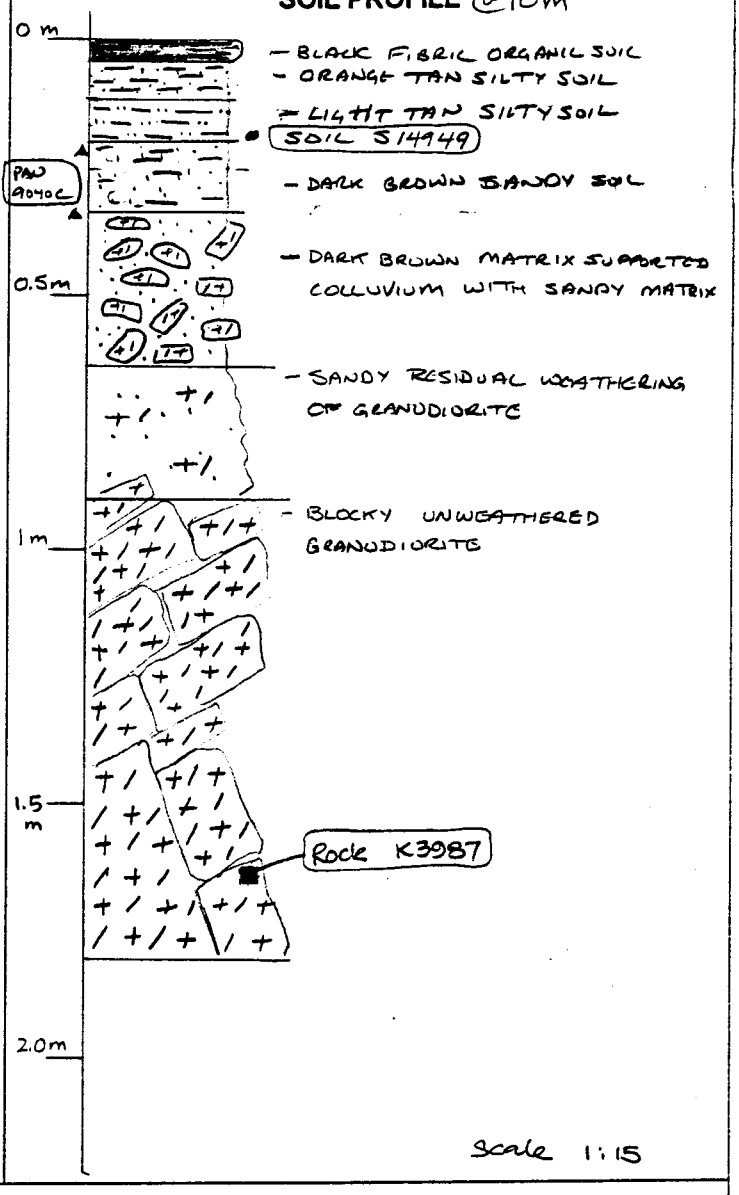
PIT NUMBER: 9040-C	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 4 hrs
EASTING:	EQUIPMENT COST: 4 @ $130/hr
STARTED: Aug. 18/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: Aug. 22/93	TOTAL EXPENDITURE: $572.50

SCALE: 1:300

PLAN VIEW



SOIL PROFILE @10m



Scale 1:15

COMMENTS:

missing Rock k3987 43, <5, 10, <2 /10m

SAMPLE NUMBERS: SOIL S14949, ROCK K3987, PAN 9040-C-10

PANNING CONCENTRATE DESCRIPTION:

PS9040C-10: Sample taken @ 10m in the dark brown sandy soil layer; tan coloured. Subangular grains of quartz, feldspar and biotite; Minor hornblende and magnetite; Aneroic particle size: 25µm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

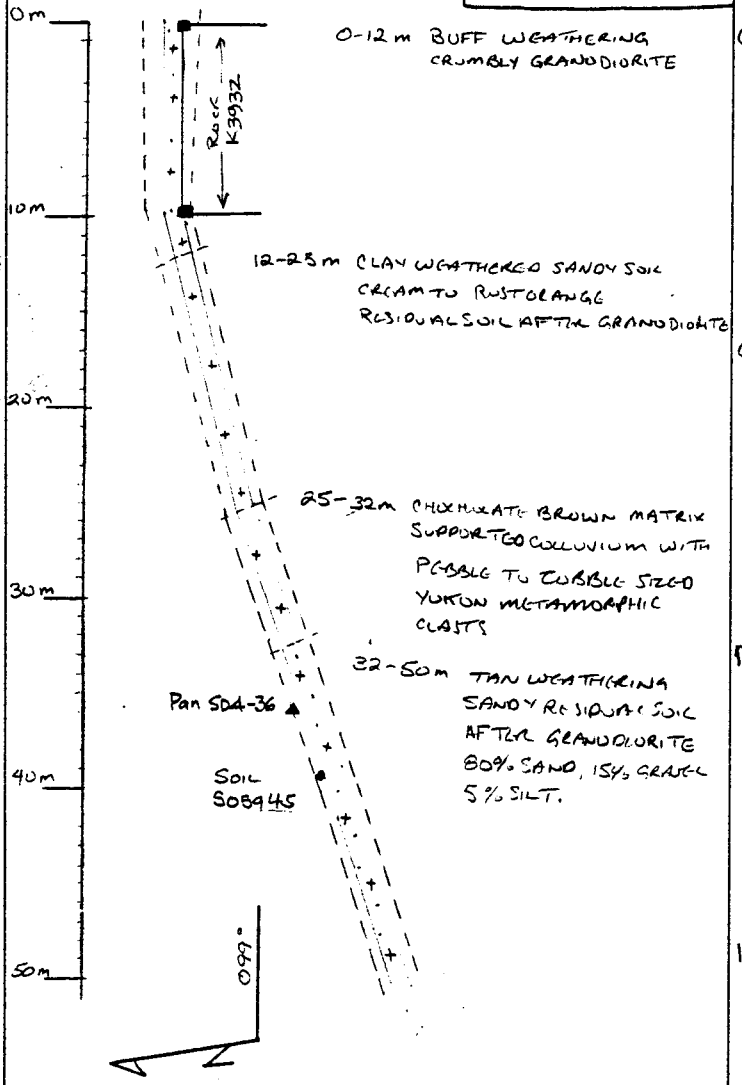
LEASE NO.: PL9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041A - SD4
NORTHING:
EASTING:
STARTED: June 14, 1993
FINISHED: July 13, 1993

EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6: 0.5hrs; hoe: 1.5 hrs.
EQUIPMENT COST: 0.5 @ $100/hr; 1.5hrs @ $130/hr.
LABOUR COST: 1.5 hrs @ $26.25/hr
TOTAL EXPENDITURE: $284.38

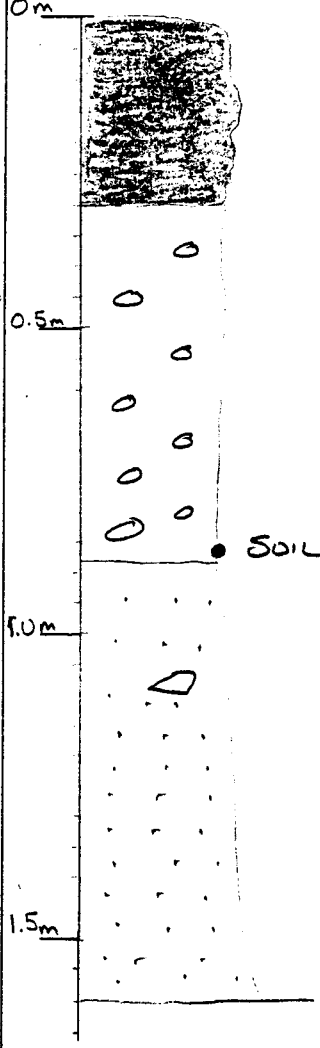
CONTINUED FROM 9043D-SD3

PLAN VIEW



SOIL PROFILE

taken @ 40m



CONTINUED AS 9041A-SD5

Dimentions (m) 50 x 1.5 x 1.7

Scale: 1:400

Scale 1:15

COMMENTS:

Soil S059345 57, <5, 5, 438 Rock K3932 24, <5, 1, 4 /10m

SAMPLE NUMBERS: Rock: K3932 S059345 - soil ; Pan SD4-36

PANNING CONCENTRATE DESCRIPTION:

PS9041SD4-36 - sample taken from the colluvium layer @ 36m; orange-tan colour; Subangular grains of Quartz, feldspar, hornblende, magnetite, biotite, and muscovite; Average particle size: 10-20μm; Minor yellow and blue fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

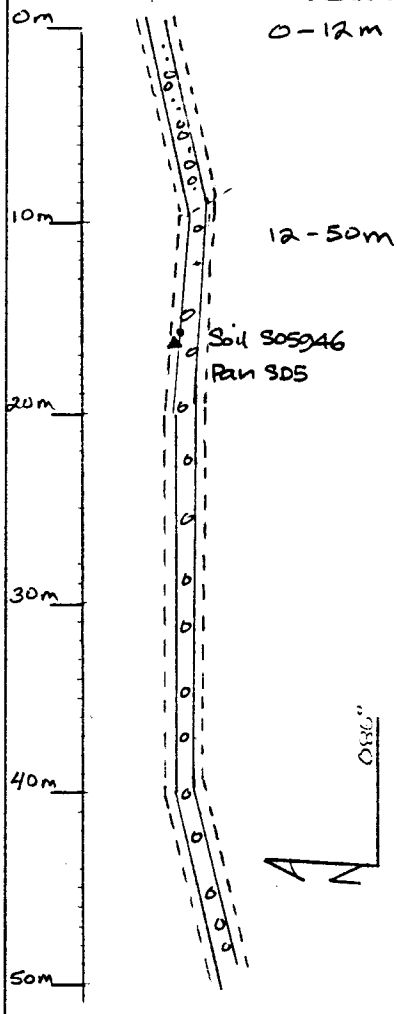
LEASE NO.: PL 9041
CREEK: CASINO
TYPE: CREEK

PIT NUMBER: 9041A-SD5
NORTHING:
EASTING:
STARTED: June 14, 1993
FINISHED: July 13, 1993

EQUIPMENT TYPE: D6 Wide Track, Hitachi Hoe
EQUIPMENT HOURS: D6: 0.5 hrs ; hoe: 1.5 hrs .
EQUIPMENT COST: 0.5 @ $100/hr ; 1.5 hrs @ $130/hr
LABOUR COST: 1.5 hrs @ $26.25/hr
TOTAL EXPENDITURE: $284.38

PLAN VIEW

CONTINUED FROM 9041A-SD4



0-12m RUST-TAN COLLUVIUM MATRIX SUPPORTED 40% SILT 20% SAND 10% GRAVEL

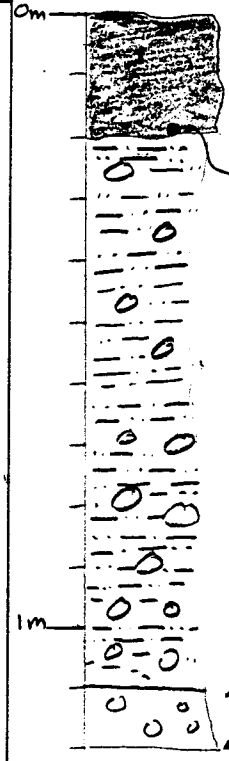
12-50m DARK-GREY MATRIX SUPPORTED COLLUVIUM 70% SILT, 10% SAND 10% CLAY, 10% GRAVEL CLASTS ~~BRZ~~-YUKON METAMORPHIC GNEISS UPTO 10cm

CONTINUED AS 9041A-SD6

Dimentions (m)
50 x 1.5 x 1.2

Scale 1:400

SOIL PROFILE @ 16m



- BLACK HUMIC ORGANIC SOIL

SOIL S05946

DARK GREY MATRIX SUPPORTED COLLUVIUM

PAN SAMPLE SD-5-16
TAN MATRIX SUPPORTED COLLUVIUM WITH GNEISSIC CLASTS.

COMMENTS:

Soil S05946 39 <5, 1, 42

SAMPLE NUMBERS: Soil: S05946 ; Pan: SD5-16

PANNING CONCENTRATE DESCRIPTION:

SD5-16 TAKEN FROM TAN MATRIX SUPPORTED COLLUVIUM WITH GNEISS PEBBLES AND COBBLES PANNED TO FINE QUARTZ SAND WITH MINOR HORNBLENDE AND MAGNETITE GRAINS QUARTZ SAND FROSTED NO FLUORESCENT MINERALS

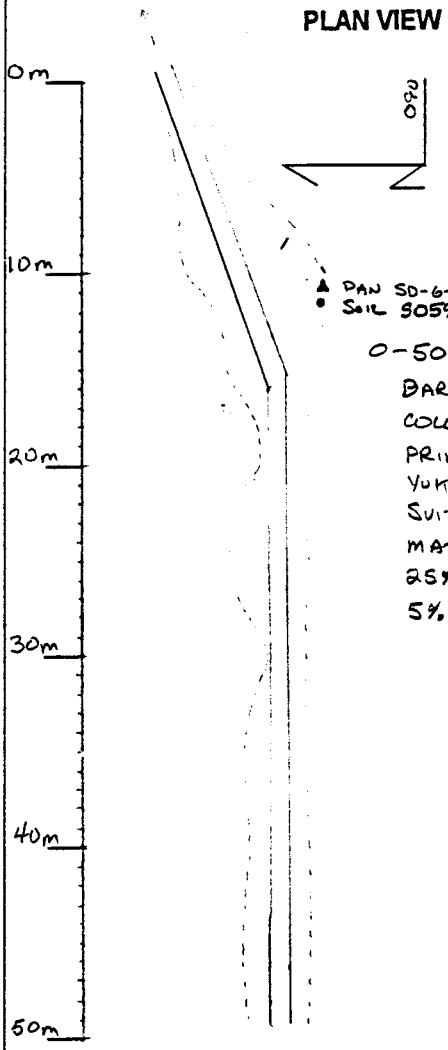
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041A-SD6	EQUIPMENT TYPE: D6-Wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.5hr ; hoe: 1 hr
EASTING:	EQUIPMENT COST: 0.5 hr @ $100/hr ; 1 hr @ $130/hr
STARTED: June 14, 1993	LABOUR COST: 1.5hrs @ $26.25/hr
FINISHED: July 13, 1993	TOTAL EXPENDITURE: $219.38

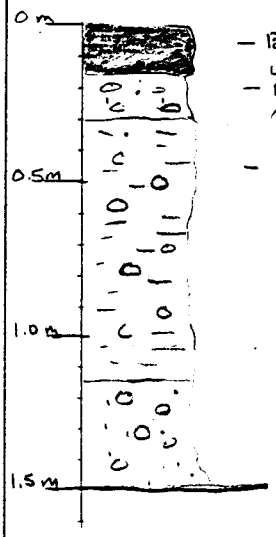
PLAN VIEW

CONTINUED FROM 9041A-5



Scale: 1:400

SOIL PROFILE @ 10m *



Scale: 1:25.

COMMENTS:

Soil 505948 S2 <5, 1, 20

SAMPLE NUMBERS: Soil: 505948; Pan: SD6-11

PANNING CONCENTRATE DESCRIPTION:

9041A-SD6-10: sample taken @ 10m from the colluvium layer. orange-tan colour; Mostly quartz, feldspar, hornblende, biotite (chlorite after both HB and BI); very minor magnetite. Minor yellow, white and blue fluorescent grains.

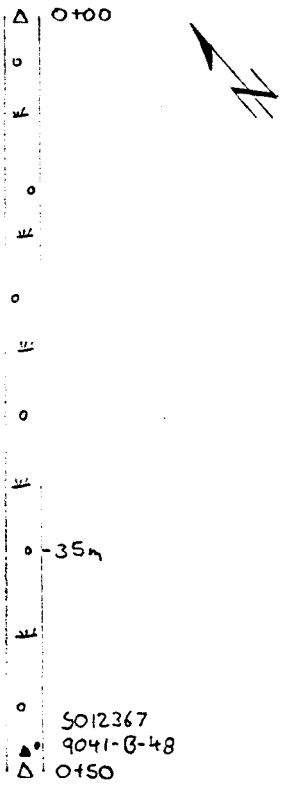
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9041
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9041-B	EQUIPMENT TYPE: D6 Wide Track ; hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 1 hr ; hoe: 1.5hr.
EASTING:	EQUIPMENT COST: 1 hr @ $100/hr ; 1.5hr @ $130/hr
STARTED: June 24, 1993	LABOUR COST: 3 hr @ $26.25/hr
FINISHED: July 30, 1993	TOTAL EXPENDITURE: $373.75

1:500

PLAN VIEW

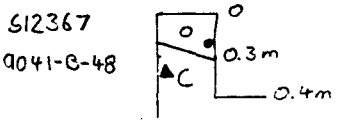


Dimentions (m)
50 x 2.5 x 0.4

1:50

SOIL PROFILE

0+48



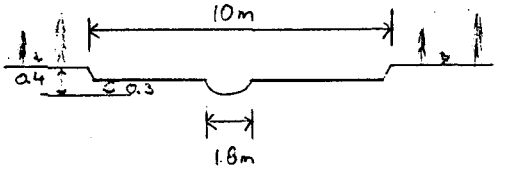
O - organics, thick black muck with roots and sticks

C - colluvium, pale brown sand and clay very minor rock frogments

- pools of water in trench
- likely melted permafrost

Typical Cross-Section

0+40



COMMENTS: Very poor exposure, trench barely reached colluvium due to permafrost

Soil S12367 10, <5, 1, 2

SAMPLE NUMBERS: soil S12367 pan, 9041-B-48

PANNING CONCENTRATE DESCRIPTION:

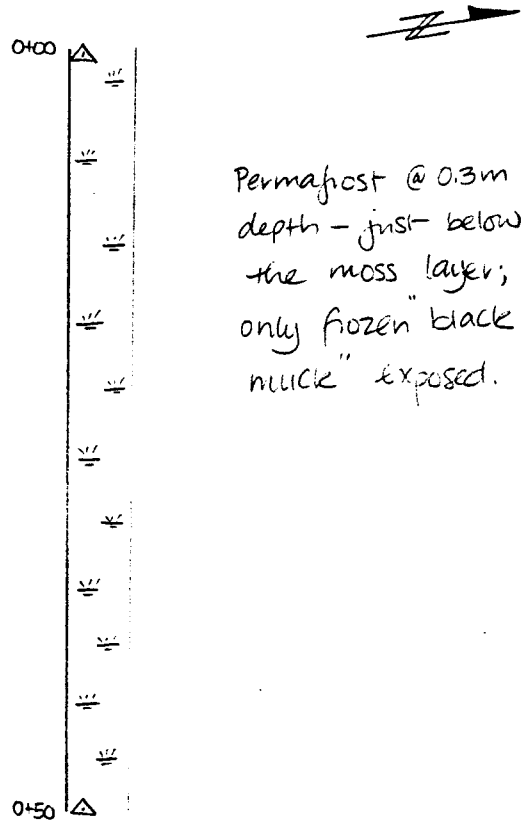
PS9041B-48: Sample taken @ 48m in the colluvium layer; orange-tan colour; mostly subangular to subrounded quartz grains; lesser amounts of remnant feldspar, hornblende, biotite, muscovite. Average grain size; 50µm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9041
CREEK:	Casino
TYPE:	Bench

PIT NUMBER: 9041C	EQUIPMENT TYPE: D7 Ripper
NORTHING:	EQUIPMENT HOURS: D7: 1hr
EASTING:	EQUIPMENT COST: 1 @ $130/hr
STARTED: June 14, 1993	LABOUR COST: 1 hr @ $26.25/hr
FINISHED: June 14, 1993	TOTAL EXPENDITURE: $156.25

PLAN VIEW



Permafrost @ 0.3m depth – just below the moss layer; only "frozen black muck" exposed.

Dimentions (m)
50 x 4.5 x 0.3

Scale 1:500

SOIL PROFILE

COMMENTS:– Permafrost @ 0.3m; Further trenching abandoned
– No samples taken.

SAMPLE NUMBERS:

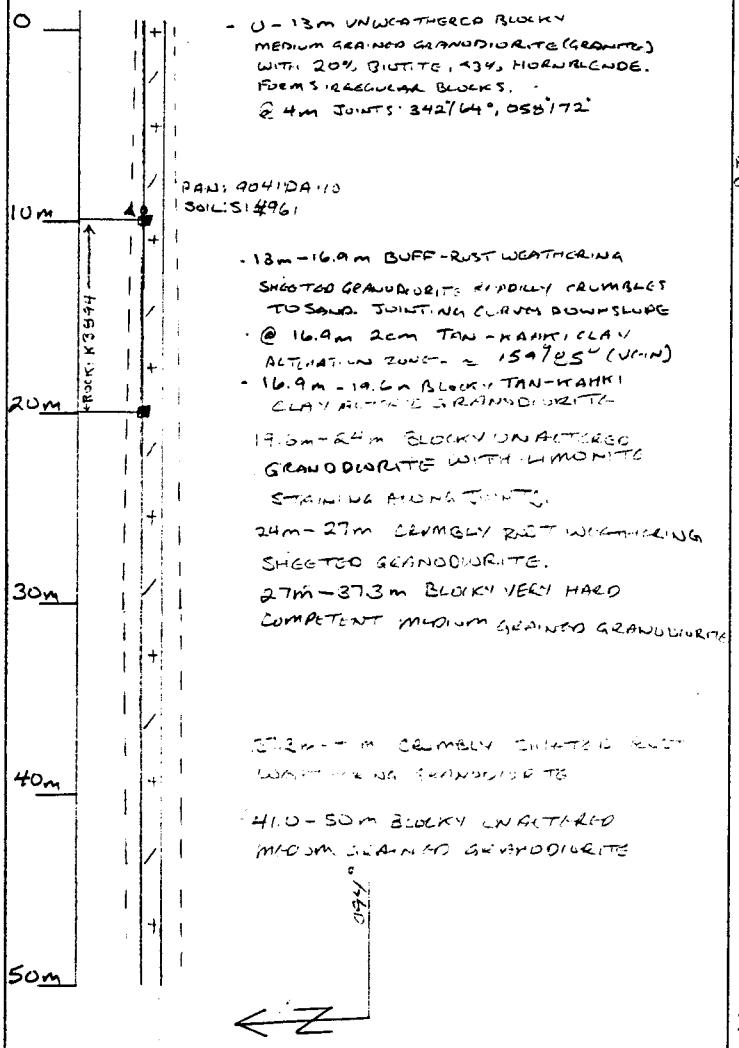
PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041DA	EQUIPMENT TYPE: D6 Wide Track; Hitachi HOE
NORTHING:	EQUIPMENT HOURS: D6: 1hr; Hoe: 2hrs
EASTING:	EQUIPMENT COST: 1@ $100/hr; 2@ $130/hr
STARTED: Aug. 9/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: Aug. 10/93	TOTAL EXPENDITURE: $412.50

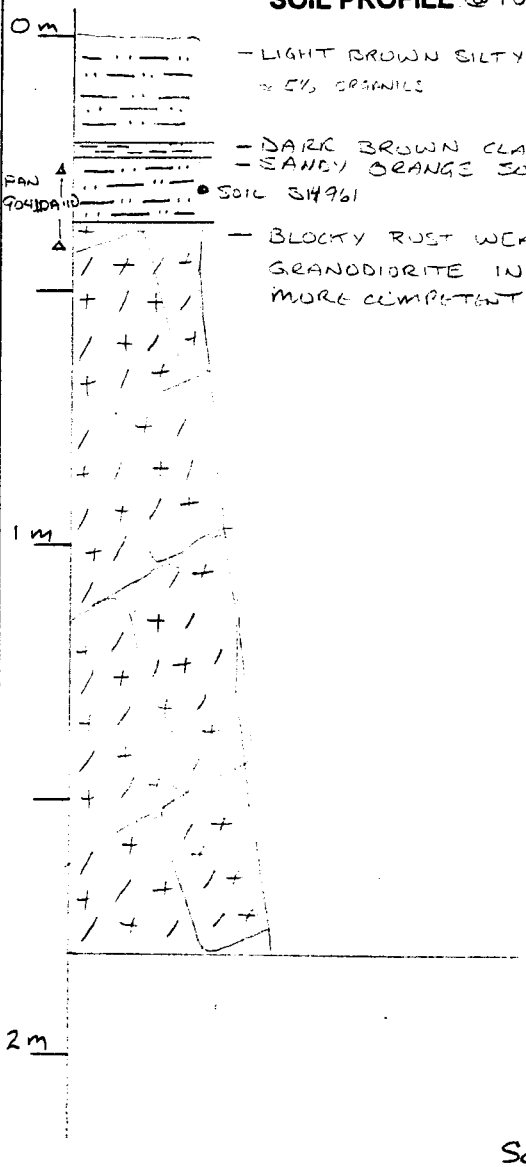
PLAN VIEW



Dimentions (m)
50 x 1.5 x 18

Scale 1:400

SOIL PROFILE @ 10m



Scale 1:15

COMMENTS:

Soil S14961 21, <5, 7, 10 Rock K3984 11, <5, 2, <2 /10m

SAMPLE NUMBERS: ROCK: K3984 SOIL: S14961 PAN: 9041DA:10

PANNING CONCENTRATE DESCRIPTION:

PS9041DA - Sample taken @ 10m in the sandy orange soil layer; orange-tan colour; mostly subangular quartz, feldspar, biotite; minor magnetite and hornblende; Average grain size: 10-20mm; Minor yellow fluorescent grains.

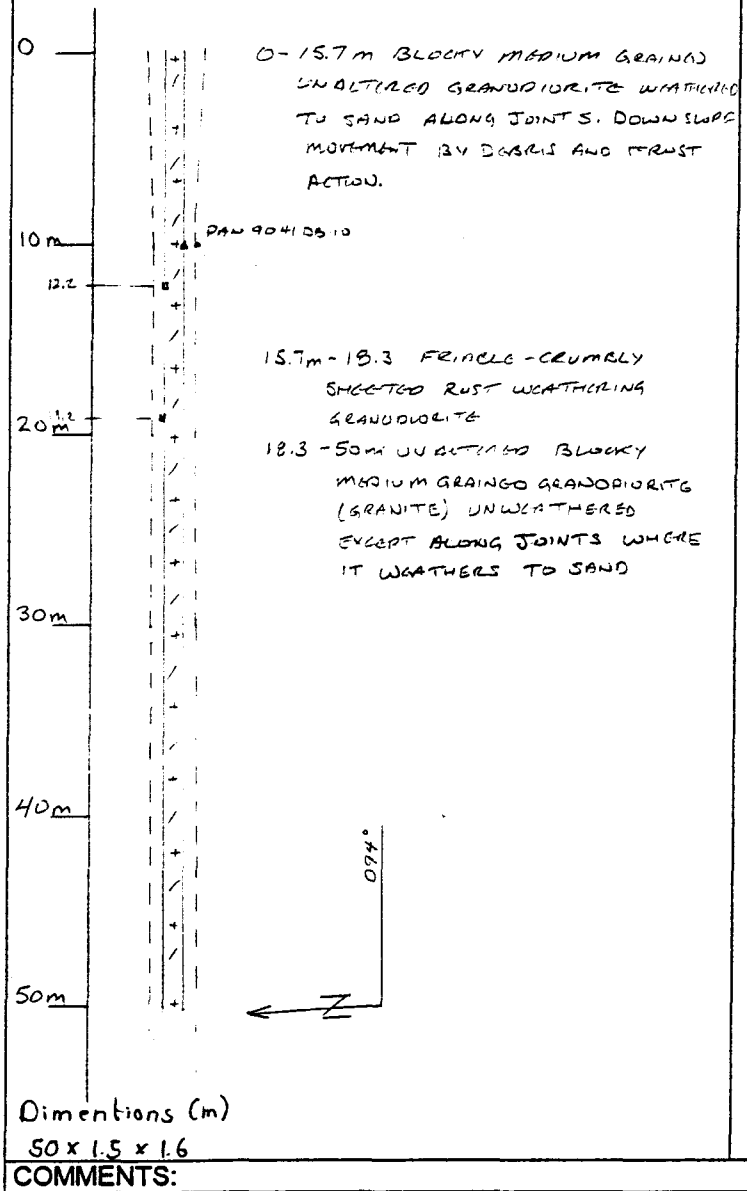
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041 DB	EQUIPMENT TYPE: D6 Wide Track; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.75 hrs; hoe; 2 hrs
EASTING:	EQUIPMENT COST: 1.75 @ $100/hr; 2 @ $130/hr
STARTED: Aug. 9/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: Aug. 19/93	TOTAL EXPENDITURE: $487.50

1:400

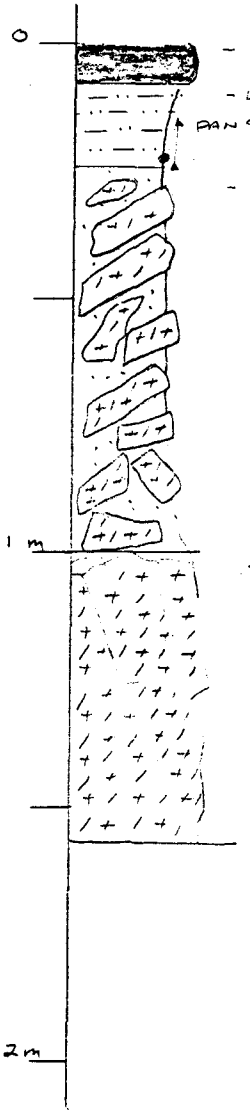
PLAN VIEW



Dimentions (m)
50 x 1.5 x 1.6

1:15

SOIL PROFILE



COMMENTS:

SAMPLE NUMBERS: PAN: 9041 DB-10

PANNING CONCENTRATE DESCRIPTION:

PS9041DB-10: Sample taken @ 10m in the lower brown silty layer; tan coloured; Mostly subangular grains of quartz, feldspar, biotite, minor magnetite and hornblende; Average particle size: 50µm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

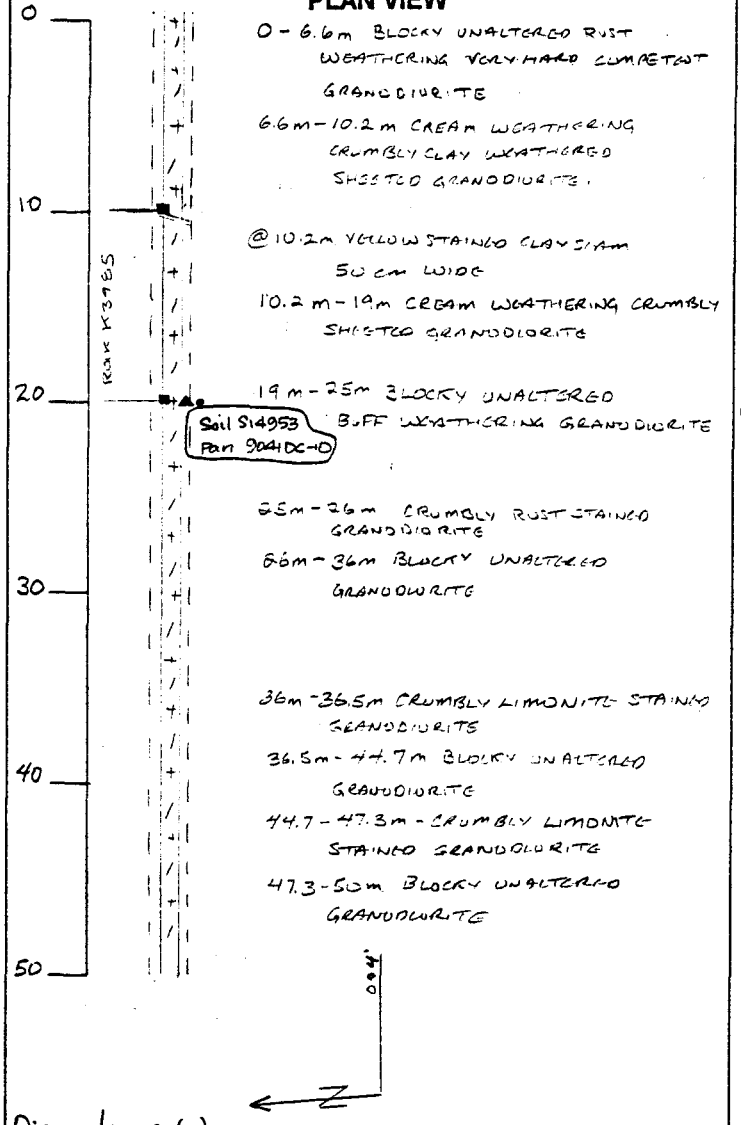
LEASE NO.:	PL 9041
CREEK:	CASINO
TYPE:	BENCH

PIT NUMBER:	9041 DC
NORTHING:	
EASTING:	
STARTED:	Aug. 9/93
FINISHED:	Aug. 19/93

EQUIPMENT TYPE:	D6 Wide Track; Hitachi hoe
EQUIPMENT HOURS:	D6: 1.75; hoe: 2hrs.
EQUIPMENT COST:	1.75 @ $100/hr; 2 @ $130/hr
LABOUR COST:	2 hrs @ $26.25/hr
TOTAL EXPENDITURE:	$487.50

1:400

PLAN VIEW



0 - 6.6m BLOCKY UNALTERED RUST WEATHERING VERY HARD COMPETENT GRANODIORITE

6.6m - 10.2m CREAM WEATHERING CRUMBLY CLAY WEATHERED SHEETED GRANODIORITE.

@ 10.2m YELLOW STAINED CLAY SEAM 50 cm WIDE

10.2m - 19m CREAM WEATHERING CRUMBLY SHEETED GRANODIORITE

19m - 25m BLOCKY UNALTERED BUFF WEATHERING GRANODIORITE

25m - 26m CRUMBLY RUST STAINED GRANODIORITE

26m - 36m BLOCKY UNALTERED GRANODIORITE

36m - 36.5m CRUMBLY LIMONITE STAINED GRANODIORITE

36.5m - 44.7m BLOCKY UNALTERED GRANODIORITE

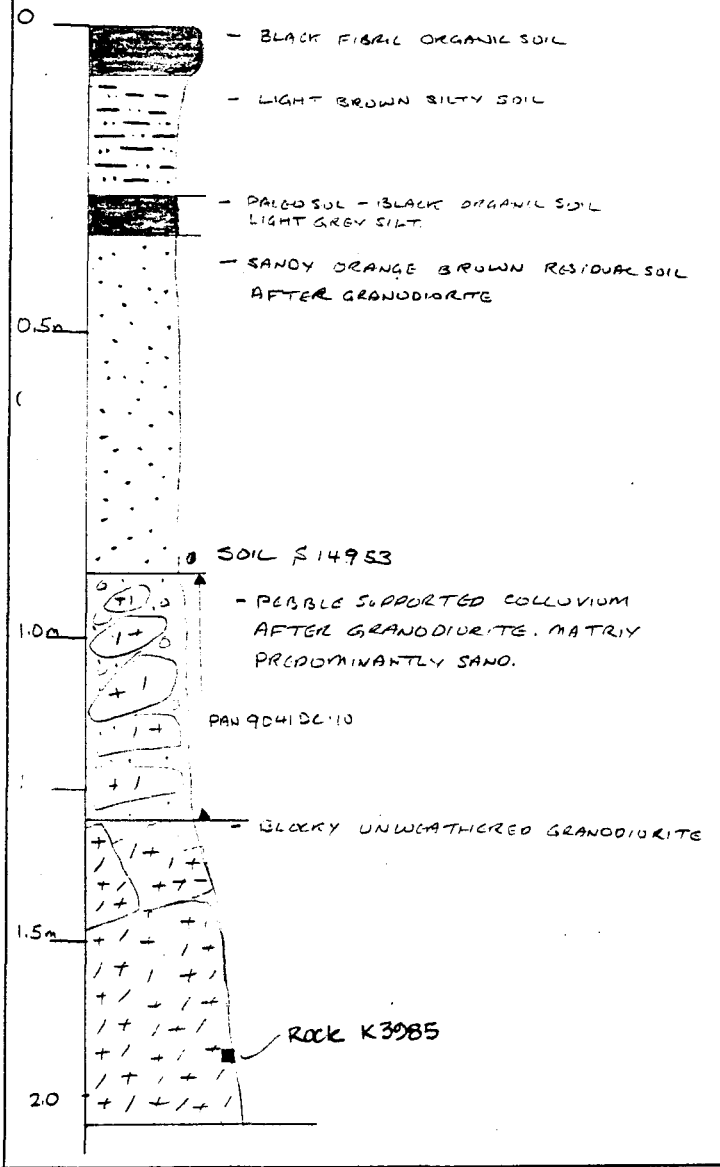
44.7 - 47.3m - CRUMBLY LIMONITE STAINED GRANODIORITE

47.3 - 50m BLOCKY UNALTERED GRANODIORITE

Dimentions (m)
50 x 1.5 x 2.1

1:125

SOIL PROFILE @ 20m



- BLACK FIBRIC ORGANIC SOIL
- LIGHT BROWN SILTY SOIL
- PALEO SOIL - BLACK ORGANIC SOIL LIGHT GREY SILT
- SANDY ORANGE BROWN RESIDUAL SOIL AFTER GRANODIORITE
- PEBBLE SUPPORTED COLLUVIUM AFTER GRANODIORITE. MATRIX PREDOMINANTLY SAND.
- BLOCKY UNWEATHERED GRANODIORITE

COMMENTS:

Soil S14953 6, <5, 1, 8 Rock K3985 6, <5, 1, 4

SAMPLE NUMBERS: SOIL S14953, PAN: 9041 DC-10, ROCK K3985

PANNING CONCENTRATE DESCRIPTION:

PS9041DC-20: sample taken @ 20m in the colluvium layer; tan-grey colour; Mostly subangular Quartz, minor feldspar and biotite, no magnetite; Average particle size: 20/im; minor yellow fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9041
CREEK:	Casino
TYPE:	Bench

PIT NUMBER:	9041-E
NORTHING:	
EASTING:	
STARTED:	July 15, 1993
FINISHED:	July 21, 1993

EQUIPMENT TYPE:	D6 Wide Track; Hitachi Hoe
EQUIPMENT HOURS:	D6: 2 hrs; hoe: 4.0 hrs
EQUIPMENT COST:	2 @ $100/hr; 4.0 @ $130/hr
LABOUR COST:	2.5 hr @ $26.25/hr
TOTAL EXPENDITURE:	$785.63

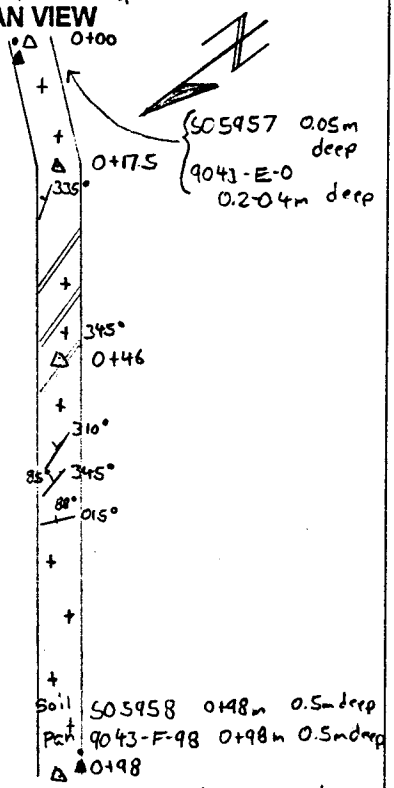
Survey Data

From	To	Stk.	Dip
0	17.5	285°	-14°
17.5	98.0	307°	-14°

- fairly good exposure in trench
- weak to moderately weathered granodiorite with sections of strong clay alteration, usually associated with some shear structure

↑ 90436

PLAN VIEW 1:1000



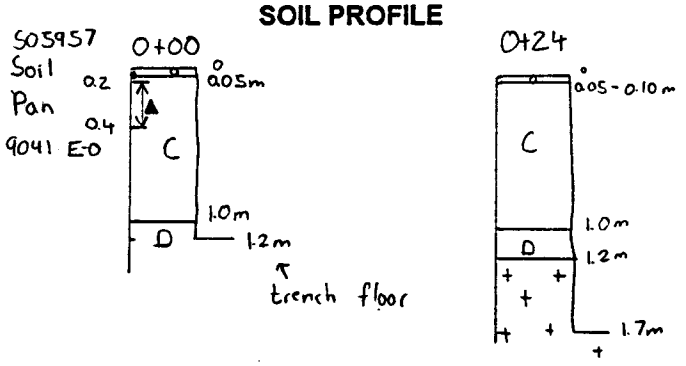
- trench turns into a stripped trench which connects w 90368

Dimentions (m)

9.8 × 6.0 × 1.8

1:50

SOIL PROFILE



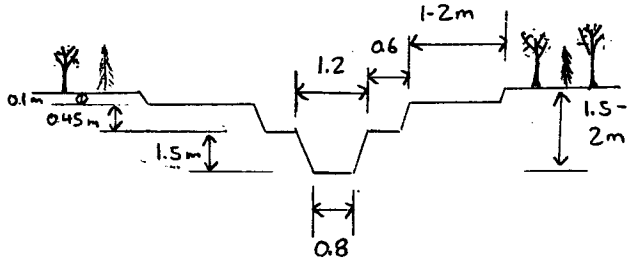
O - organics, 5-10 cm block organics weakly developed due to proximity to hill/ridge

C - coluvium, light sandy brown, mainly clay and sand

D - decomposed bedrock, ~70-80% blocks of granodiorite with sand and clay between blocks

$^{+}_{+}$ - bedrock, granodiorite

Typical Cross-Section 0+24



TCO

COMMENTS: No permafrost or glacial/fluvial material. No water or seeps in trench.

Soil	SO5957	15	<5	1	18
	SO5958	13	<5	<1	16

SAMPLE NUMBERS: SO5957 - SO5958 - Soil 9041-E-0, 9041-E-98 - pan

PANNING CONCENTRATE DESCRIPTION:

PS9041E-0: sample taken @ 0m @ 20-40cm depth; orange-tan colour; Decomposed Granodiorite: Mostly Qz, some remnant KF, magnetite, muscovite Minor BI; Very Minor blue fluorescent grains; Ave. Particle size: 20-25mm

PS9041E-98: Sample taken @ 98m @ 20-40 cm depth; orange-tan colour: Decomposed Granodiorite: Quartz, feldspar, biotite, minor magnetite. Minor yellow and blue fluorescent grains. Ave particle size: 15-20mm

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

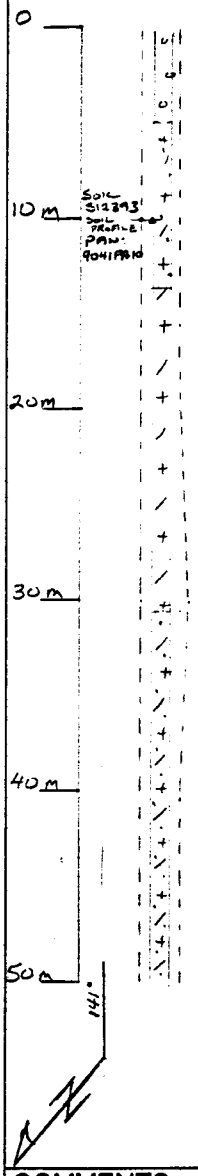
LEASE NO.: PL 9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041 FA
NORTHING:
EASTING:
STARTED: August 10, 1993
FINISHED: AUGUST 15, 1993

EQUIPMENT TYPE: Hitachi hoe; D6 wide track
EQUIPMENT HOURS: hoe: 1.5hrs; D6: 2hrs.
EQUIPMENT COST: 1.5 @ $130/hr; 2@ $100/hr
LABOUR COST: 2.5 Hours @ $26.25/Hr =
TOTAL EXPENDITURE: $460.63

SCALE: 1:400

PLAN VIEW



0 - 4.4m DARK BROWN CLAST SUPPORTED BOLDER COLLUVIUM. ≈ 30% MATRIX MATRIX CONSISTS OF: 60% ANGULAR SAND 20% SILT, 20% CLAY. CLAST OF PEBBLE TO BOLDER SIZED GRANODIORITE

4.4m - 9.5m FRIABLE DARK BROWN CLAY ALTERED MEDIUM GRAINED GRANODIORITE. 15% BIOTITE, 1% HORNBLENDE,

@8.9m 8cm CLAY GOUGE ZONE WITH HEMATITE STAINING ON FOOTWALL

9.5m - 14m BLOCKY GRANODIORITE WITH PERVASIVE LIMONITE STAINING WEATHERING TO ANGULAR COARSE PEBBLES AND COBBLES.

14m - 31m BLOCKY UNWEATHERED GRANODIORITE WIDE FRACTURE SPACING FORMING BOLDERS AND COARSE COBBLES. GRANODIORITE HAS AN ISOTROPIC TEXTURE

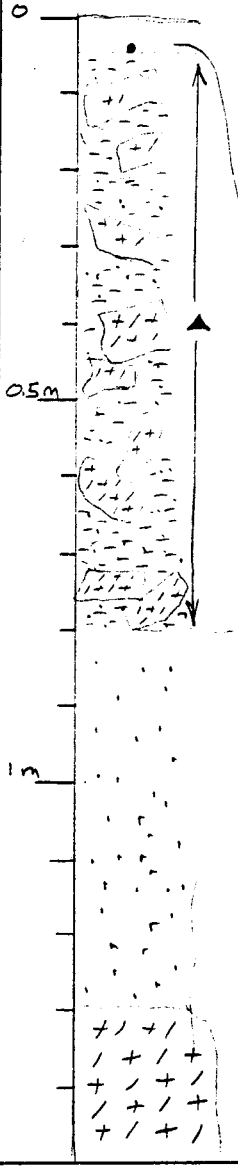
31m - 50m CRUMBLY GRANODIORITE. WEATHERING TO SAND AND CLAY ALONG JOINTS RELICT STRUCTURES PRESERVED

Continues as 9041FB

Dimentions (m)
50 x 1.5 x 2.0

SCALE: 1:10

SOIL PROFILE @ 10m



- BLACK FIBRIC ORGANIC SOIL WITH LIGHT GREY VOLCANIC ASH
- DARK GREY BROWN MATRIX SUPPORTED COLLUVIUM

Soil S12393
Pan PS9041FA-10

- RESIDUAL UNWEATHERED GRANODIORITE
- WEATHERS TO ANGULAR SAND AND GRAVELS.
- BLOCKY GRANODIORITE

COMMENTS:

Soil S12393 14, <5, 1, 12

SAMPLE NUMBERS: PAN: 9041FA-10, SOIL: S12393

PANNING CONCENTRATE DESCRIPTION:

PS9041F-10: Sample taken @ 10m in the dark brown colluvium layer. orang - tan colour; Mostly subangular quartz, feldspar and biotite; minor magnetite and hornblende. Average particle size: 50μm. Minor yellow and white fluorescent grains.

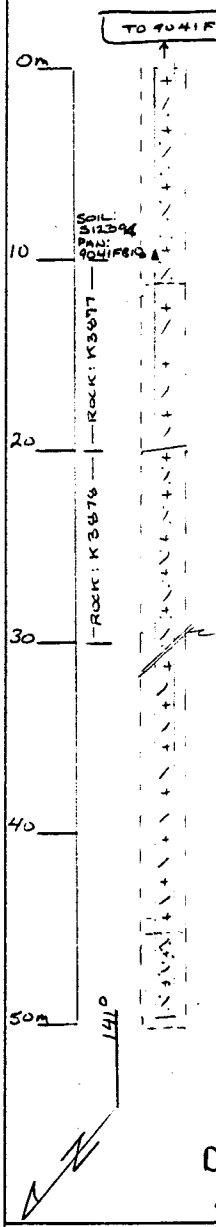
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041 FB	EQUIPMENT TYPE: D6 Wide track; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 2 hrs; hoe: 1.5 hrs.
EASTING:	EQUIPMENT COST: 2 @ $100/hr; 1.5 @ $130/hr
STARTED: August 10, 1993	LABOUR COST: 2.5 MEN @ $26.25/HR = $
FINISHED: August 15, 1993	TOTAL EXPENDITURE: $460.63

SCALE: 1:400

PLAN VIEW



0 - 11m HIGHLY WEATHERED GRANODIORITE. RUST BROWN DECOMPOSING TO SAND AND CLAY ALONG JOINTS. STRONG PERVASIVE LIMONITE STAINING.

11 - 21m BLOCKY UNWEATHERED GRANODIORITE BREAKING TO COBBLES AND BOULDERS.

21m - 31m BLOCKY TO FRIABLE GRANODIORITE MODERATELY WEATHERED TO CLAY AND FINE SAND. MODERATE PERVASIVE LIMONITE STAINING.

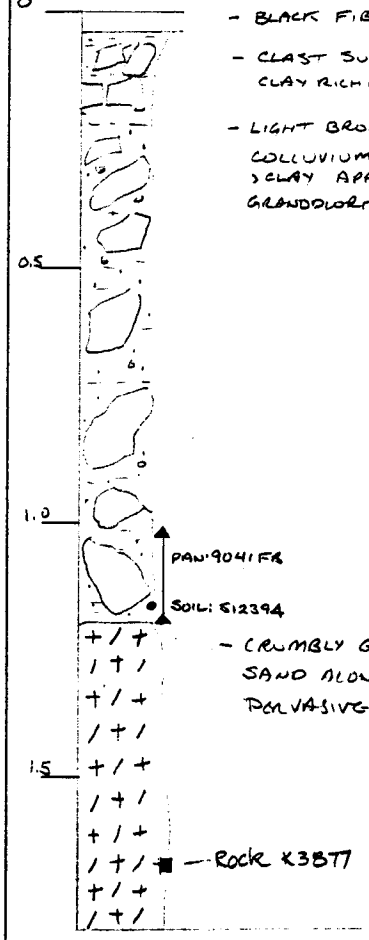
@ 31.4m CLAY SEAM 5cm WIDE

31m - 46m BLOCKY UNWEATHERED GRANODIORITE FORMING COBBLES

46m - 50m CRUMBLY GRANODIORITE RUST WEATHERING

Dimentions (m)
50 x 1.5 x 1.8

SOIL PROFILE @ 10m



- BLACK FIBRIC ORGANIC SOIL
- CLAST SUPPORTED COLLUVIUM WITH A CLAY RICH MATRIX
- LIGHT BROWN MATRIX SUPPORTED COLLUVIUM: MATRIX: SILT > SAND > GRAVEL > CLAY APPROXIMATELY 40% ANGULAR GRANODIORITE CLASTS.
- CRUMBLY GRANODIORITE WEATHERING TO SAND ALONG JOINTS MODERATE PERVASIVE LIMONITE STAINING

COMMENTS:

Soil S12394 9, <5, 1, 10 Rock K3877 11, <5, 1, 8 /10m
K3878 8, <5, 1, 8 /10m

SAMPLE NUMBERS: Rock: K3877, K3878. Soil: S12394. Pan: 9041EB-10

PANNING CONCENTRATE DESCRIPTION:

PS9041FB-10: Sample taken @ 10m from the lower section of the colluvium layer: pale tan-grey colour; Mostly subangular quartz grains, minor magnetite, feldspar and biotite. Minor yellow and white fluorescent grains. Average particle size: 50 µm.

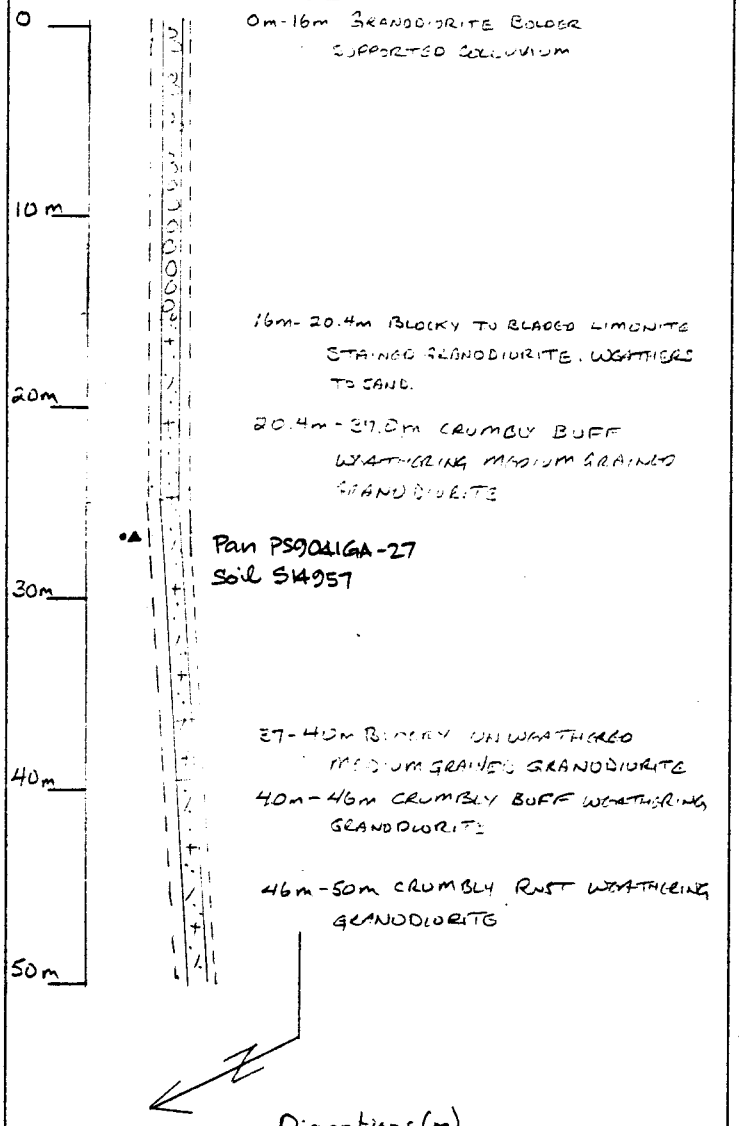
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041GA	EQUIPMENT TYPE: D6 wide Track; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.75 hrs; hoe: 1.5 hrs.
EASTING:	EQUIPMENT COST: 1.75 @ $100/hr; 1.5 @ $130/hr
STARTED: Aug. 9/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: Aug. 20/93	TOTAL EXPENDITURE: $422.50

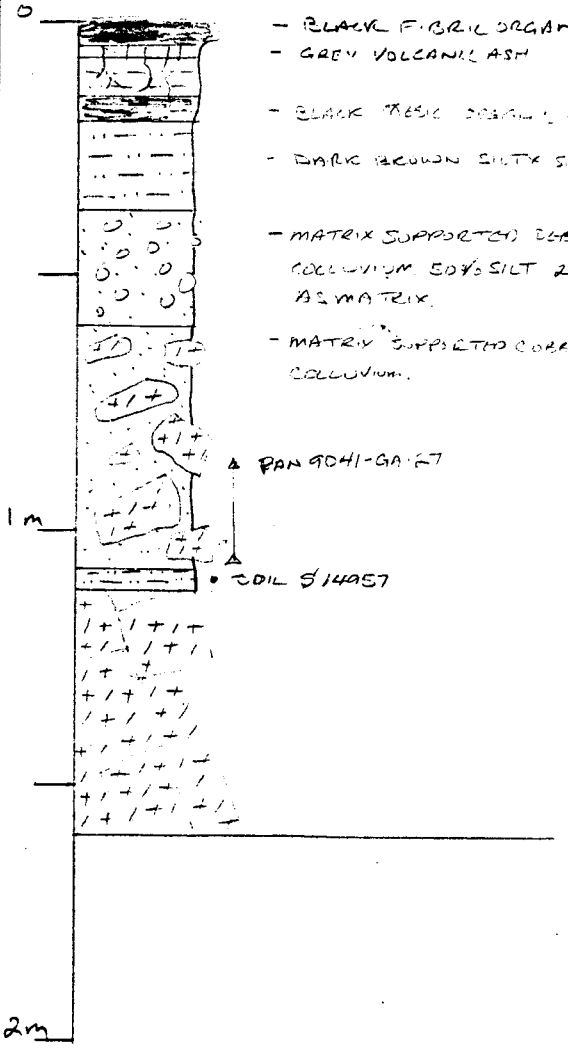
1:400

PLAN VIEW



1:15

SOIL PROFILE @ 27m



COMMENTS:

Soil S14957 24, <5, 8, 12

SAMPLE NUMBERS: Soil S14957 PAN: 9041GA-27

PANNING CONCENTRATE DESCRIPTION:

PS9041GA-27. sample taken @ 27m in the colluvium layer; tan coloured; Mostly angular fragments of quartz; minor magnetite, feldspar, biotite. Average particle size: 30µm; Minor yellow fluorescent grains.

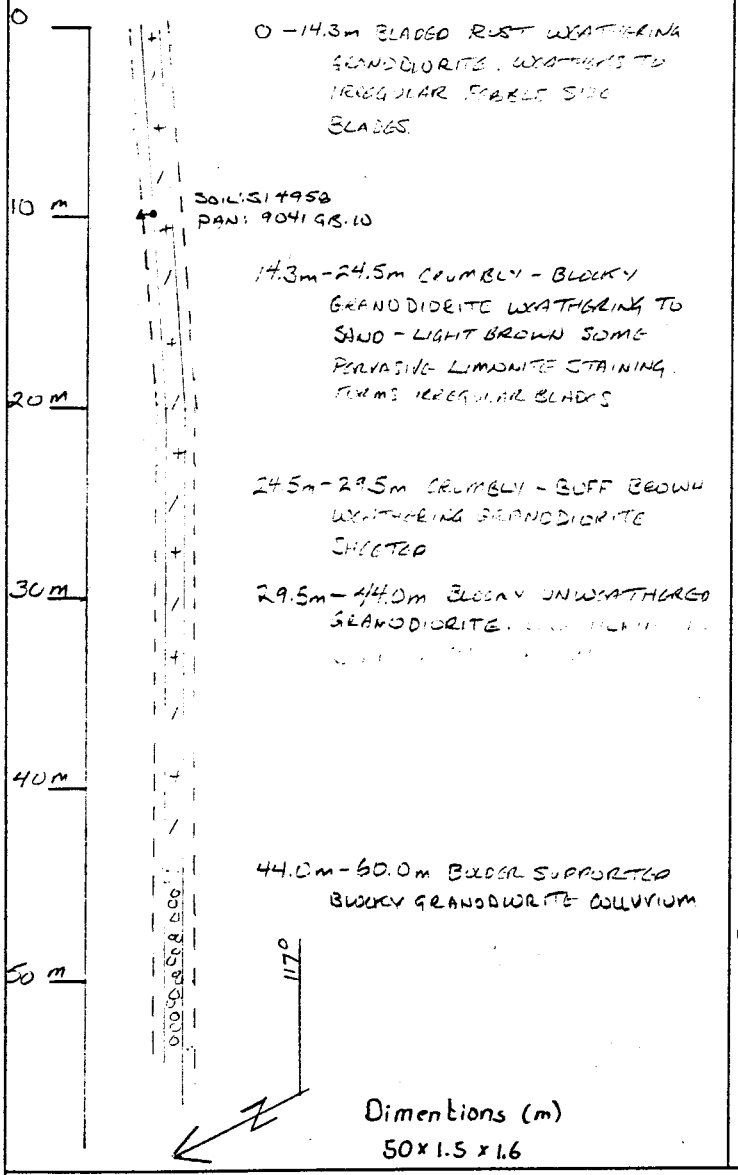
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9041
CREEK: CASINO
TYPE: BENCH

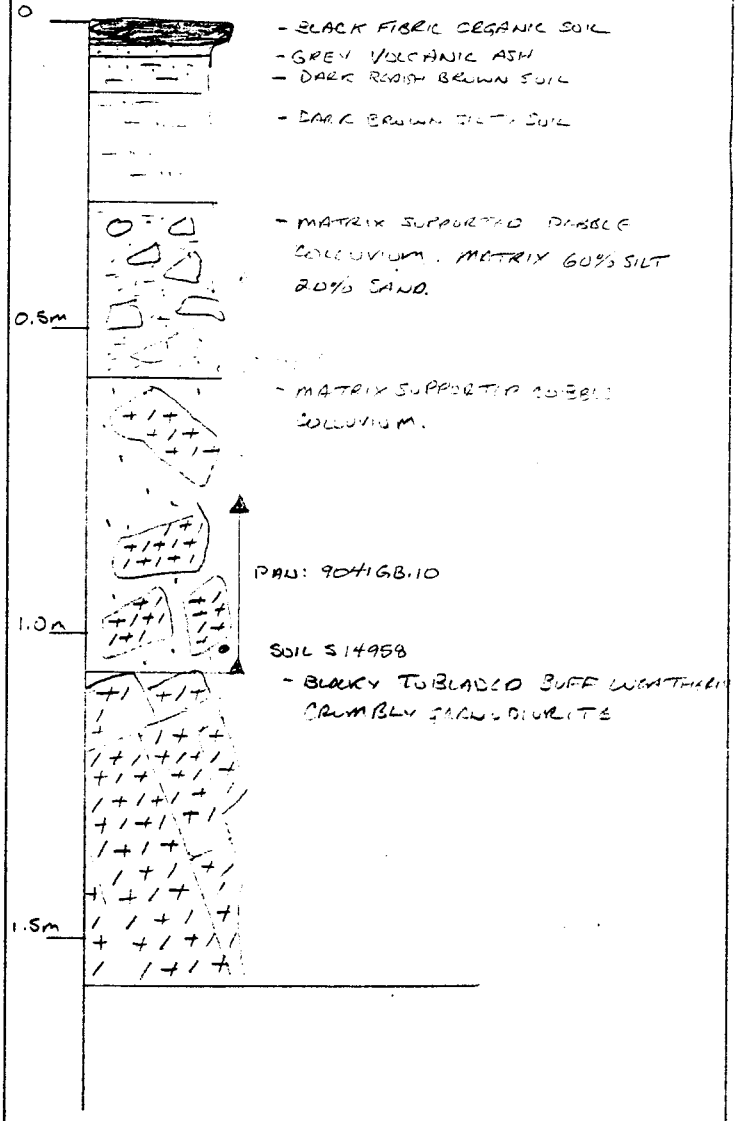
PIT NUMBER: 9041GB	EQUIPMENT TYPE: D6 Wide Track; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.75hrs; hoe: 1.5hrs.
EASTING:	EQUIPMENT COST: 1.75 @ $100/hr, 1.5 @ $130/hr
STARTED: August 9/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 20/93	TOTAL EXPENDITURE: $422.50

1:400

PLAN VIEW



SOIL PROFILE @ 10m



COMMENTS:

Soil S14958 18, <5, 3, 10

SAMPLE NUMBERS: Soil: S14958. PAN 9041GB.10

PANNING CONCENTRATE DESCRIPTION:

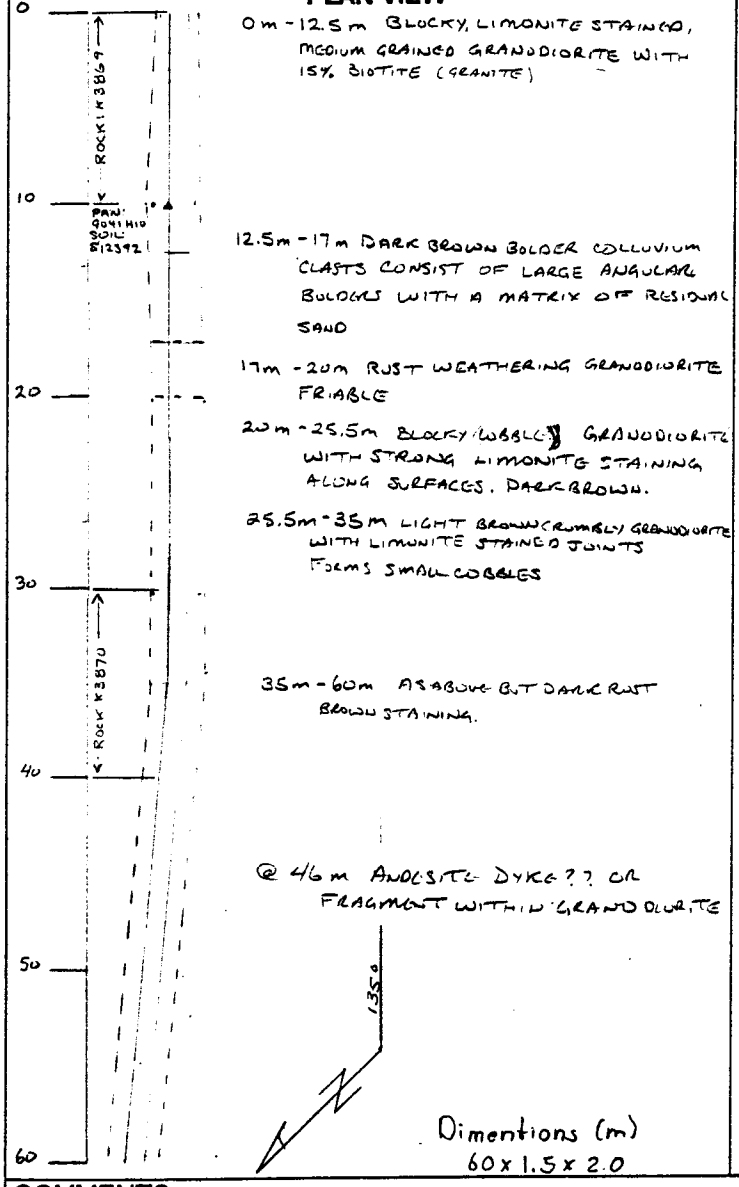
PS9041GB-10: Sample taken @ 10m in the colluvium layer; orange-tan colour; Mostly angular grains of quartz; Minor feldspar, biotite and magnetite. Trace yellow and white fluorescent grains; Average particle size: 4mm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9041
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9041-H	EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 4.5hrs.; hoe: 3 hrs.
EASTING:	EQUIPMENT COST: 4.5 @ $100/hr; 3 @ $130/hr
STARTED: August 11, 1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 15, 1993	TOTAL EXPENDITURE: $892.50

PLAN VIEW



0m - 12.5m BLOCKY, LIMONITE STAINED, MEDIUM GRAINED GRANODIORITE WITH 15% BIOTITE (GRANITE)

12.5m - 17m DARK BROWN BOLDER COLLUVIUM CLASTS CONSIST OF LARGE ANGULAR BOLDERS WITH A MATRIX OF RESIDUAL SAND

17m - 20m RUST WEATHERING GRANODIORITE FRIABLE

20m - 25.5m BLOCKY/WABBLY GRANODIORITE WITH STRONG LIMONITE STAINING ALONG SURFACES. DARK BROWN.

25.5m - 35m LIGHT BROWN CRUMBLY GRANODIORITE WITH LIMONITE STAINED JOINTS FORMS SMALL COBBLES

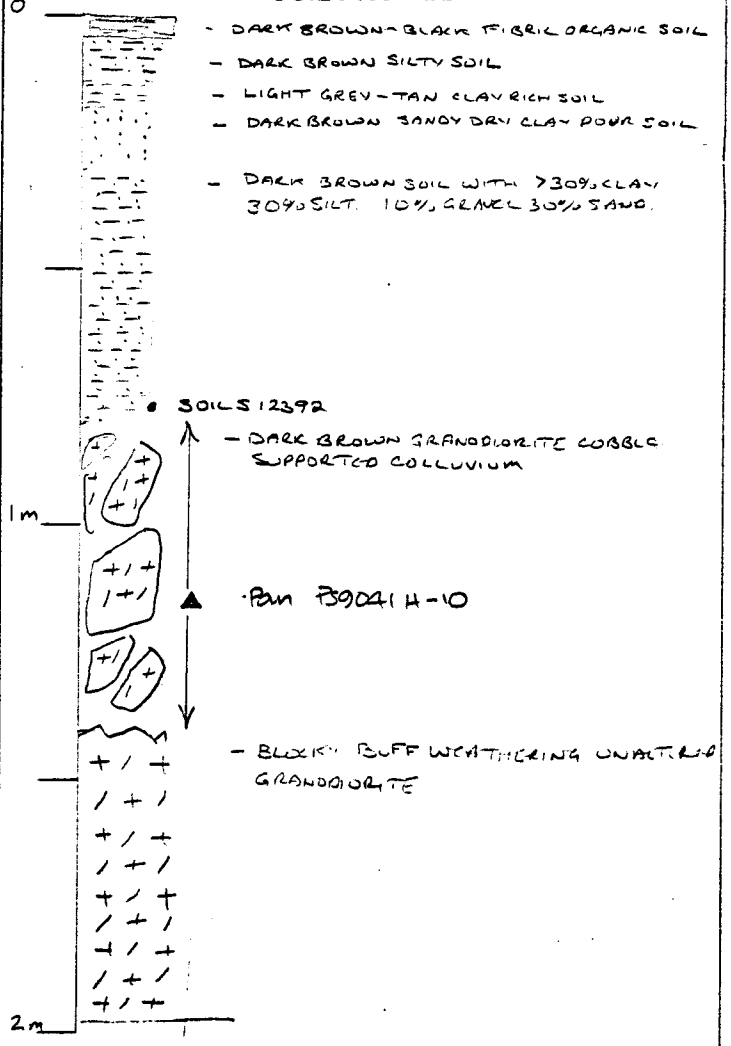
35m - 60m AS ABOVE BUT DARK RUST BROWN STAINING.

@ 46m ANDESITE DYKE?? OR FRAGMENT WITHIN GRANODIORITE

Dimentions (m)
60 x 1.5 x 2.0

SOIL PROFILE @ 10 m

1:15



- DARK BROWN-BLACK FIBRIC ORGANIC SOIL
- DARK BROWN SILTY SOIL
- LIGHT GREY-TAN CLAY RICH SOIL
- DARK BROWN SANDY DRY CLAY POOR SOIL
- DARK BROWN SOIL WITH >30% CLAY 30% SILT 10% GRAVEL 30% SAND.

SOILS 12392
- DARK BROWN GRANODIORITE COBBLE SUPPORTED COLLUVIUM

Pan PS9041H-10

- BLOCKY BUFF WEATHERING UNALTERED GRANODIORITE

COMMENTS:

Soil S12392 27, <5, 12, 16 Rock K3869 24, <5, 4, 10 /10m
K3870 14, <5, 5, 10 /10m

SAMPLE NUMBERS: Pan: PS9041H-10; Soil: S12392; Rock: K3869 - K3870

PANNING CONCENTRATE DESCRIPTION:

PS9041H-10: Sample taken @ 10 m in the colluvium layer. Orange - tan colour; mostly subangular grains of quartz, biotite, and feldspar; Minor magnetite. Average particle size: 40μm; Minor yellow and white fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9042
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9042-A
NORTHING:
EASTING:
STARTED: June 24, 1993
FINISHED: July 20, 1993

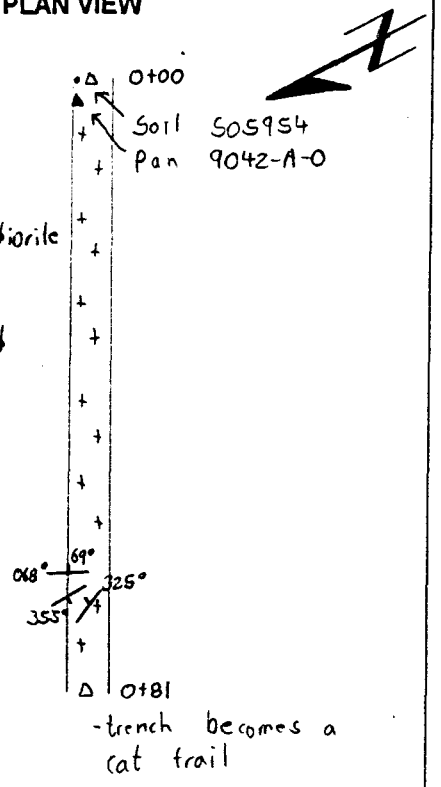
EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6: 2 hrs; hoe: 4 hrs.
EQUIPMENT COST: 2 @ $100/hr; 4 @ $130/hr
LABOUR COST: 3 hrs @ $26.25/hr.
TOTAL EXPENDITURE: $798.75

Survey Data

From	To	Stk	Dip
0.0	8.10	300°	-14°

1:1000

PLAN VIEW

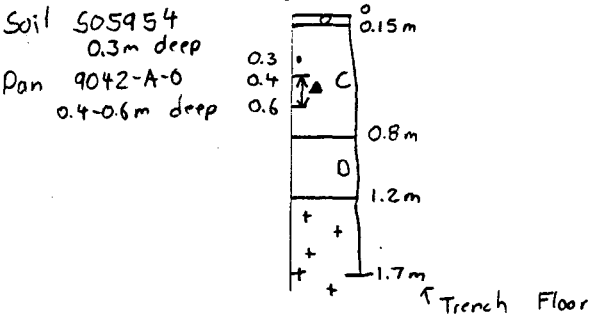


- oak to poor exposure in trench
- Dawson Range Granodiorite with moderate to strong weathering
- minor aplitic and foliated sections

-trench becomes a cat trail

1:50

SOIL PROFILE
(0+00)



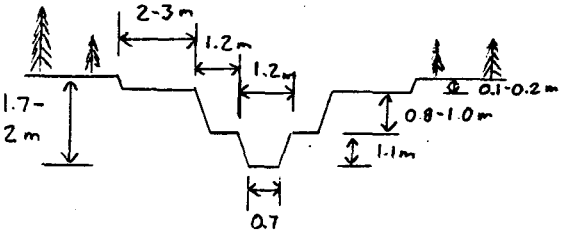
O - organics, 15cm of good black organics with plant roots

C - colluvium, dark grey clay grading to sandy brown at bottom, ~30% rocks

D - decomposed bedrock, weakly consolidated with clay and sand

+ + - bedrock granodiorite

Typical Cross-Section
0+10



Dimentions (m)
8.1 x 4.7 x 2

TCB

COMMENTS: No permafrost or glacial / fluvial material encountered in trench. No water or seeps in trench

Soil 505954 23, <5, <1, 12

SAMPLE NUMBERS: 505954 - soil 9042-A-0 - pan

PANNING CONCENTRATE DESCRIPTION:

PS9042A-0: sample taken @ 0m @ a depth of 40-60cm; orange-grey colour; Decomposed Granodiorite, mostly quartz, biotite, magnetite, remnant feldspar and hornblende. Ave. particle size: 1mm. Minor amounts of fluorescent yellow and blue grains. - poss. tungstates.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9042
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9042-B
NORTHING:
EASTING:
STARTED: June 25, 1993
FINISHED: July 30, 1993

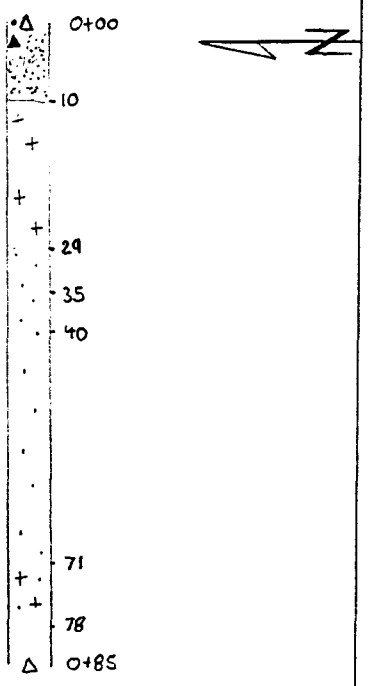
EQUIPMENT TYPE: D6 wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6: 4 hrs; hoe: 3.5 hrs
EQUIPMENT COST: 4 @ $100/hr; 3.5 @ $130/hr
LABOUR COST: 2.5 @ $26.25/hr.
TOTAL EXPENDITURE: $920.63

Survey Data

From	To	Stk	Dip
0	35	270°	-8°
35	85	270°	0°

PLAN VIEW

1:1000



0-10
- fine grained, weakly foliated
- diorite

10-29
- granodiorite with coarse orthoclase grains

29-40
- deeper trench to 1.8m
- does not appear to reach bedrock

40-71
- poor exposure
- 0.3m deep

71-78
- trench deepens with granodiorite exposed in decomposed bedrock

78-85
- very poor exposure

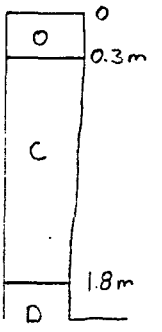
connects to 9043G

Dimentions (m)
85 x 5.5 x 1.1

SOIL PROFILE

1:50

Taken @ 35m

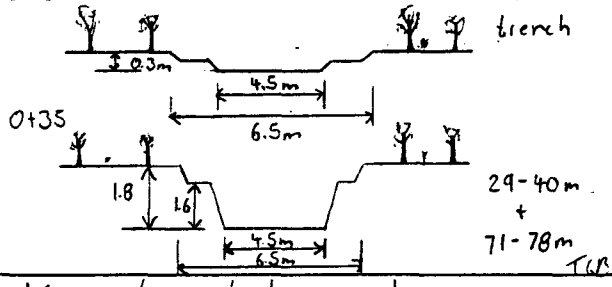


O - organics, 30cm dark-greyish brown sand/clay and organics

C - colluvium, basically very strongly weathered bedrock?, does not appear to have moved very much. mainly brown clay + sand

D - decomposed bedrock, less weathered than above

Typical Cross-Section



TGR

COMMENTS: Cat trench with zones up to 1.6m deep but mainly a shallow 0.3m trench. No glacial or fluvial material

Soil S12368 25, <5, <1, 8

SAMPLE NUMBERS: Soil S12368 pan 9042-B-0

PANNING CONCENTRATE DESCRIPTION:

PS9042B-0 - sample taken @ 0m in the colluvium layer; orange-tan colour; Feldspar, quartz, biotite, hornblende, rounded to sub-rounded grains averaging 20-30μm in size. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

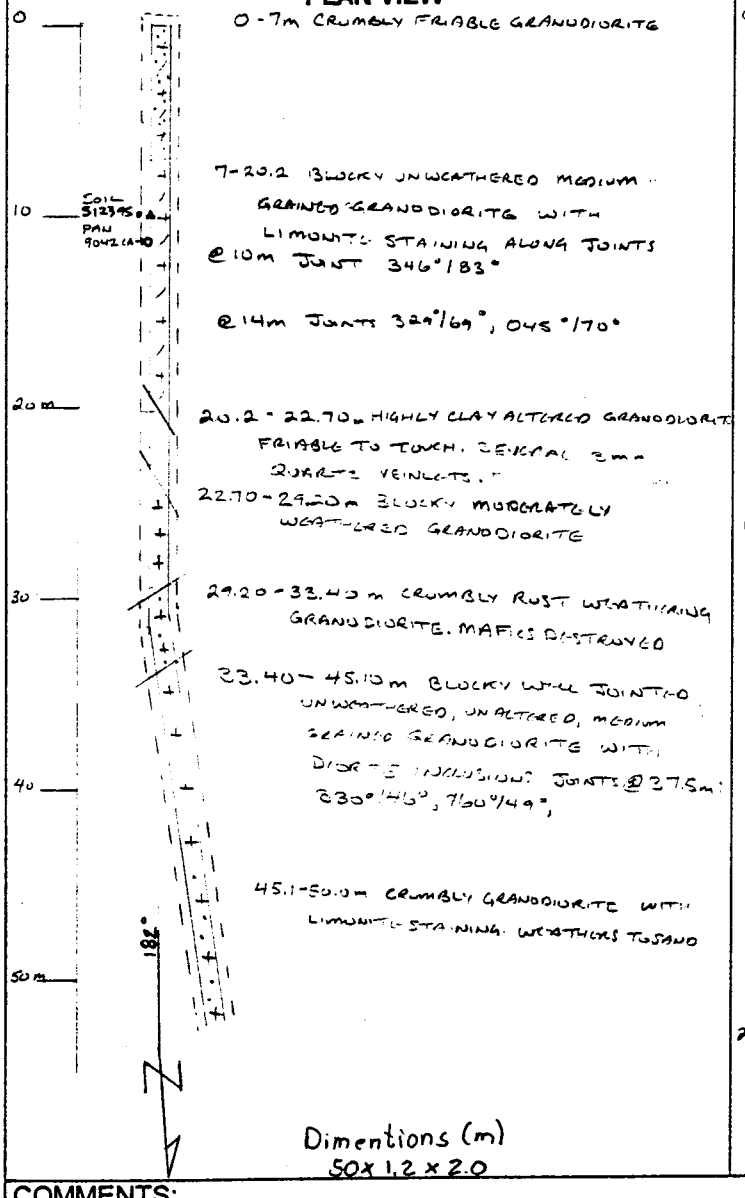
LEASE NO.: PL 9042
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9042 CA
NORTHING:
EASTING:
STARTED: June 25, 1993
FINISHED: August 16, 1993

EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6 · 2HRS HOE: 3HRS
EQUIPMENT COST: 2 @ $100/hr ; 3 @ $130/hr
LABOUR COST: 2.5 @ $26.25/hr
TOTAL EXPENDITURE: $655.63

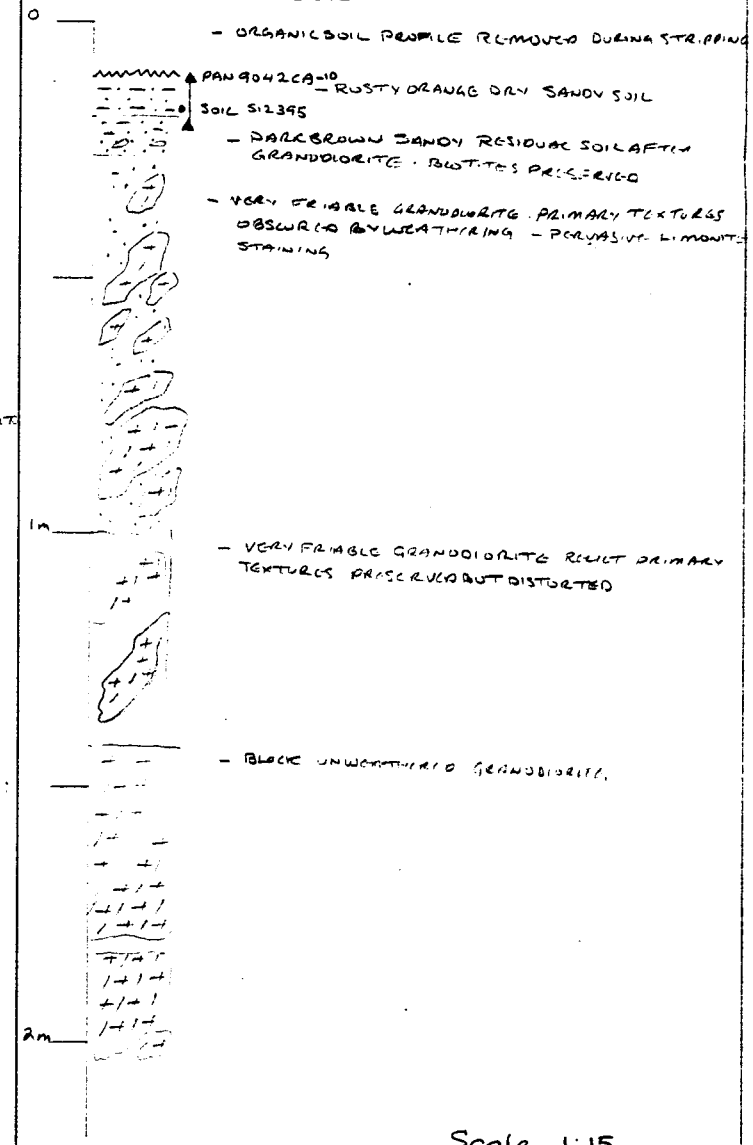
SCALE: 1:400

PLAN VIEW



Dimentions (m)
50 x 1.2 x 2.0

SOIL PROFILE @ 10m



Scale 1:15

COMMENTS:

Soil S12395 17, <5, <1, 20

SAMPLE NUMBERS: PAN: 9042CA-10 SOIL: S12395

PANNING CONCENTRATE DESCRIPTION:

PS9042CA-10 - Sample taken @ 10m in the rusty orange sandy soil; orange-tan colour; Mostly sub-rounded quartz and remnant feldspar; Minor biotite, magnetite, Average particle size: 40µm; Minor yellow fluorescent grains.

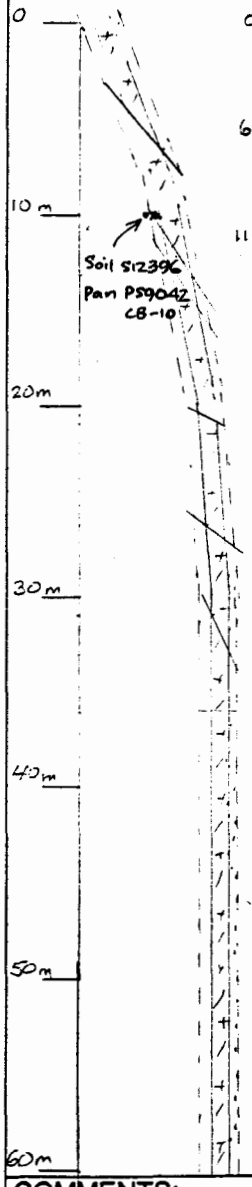
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9042
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9042-CB.
NORTHING:
EASTING:
STARTED: August 10, 1993
FINISHED: August 16, 1993

EQUIPMENT TYPE: D6 Wide Track; Hitachi hoe
EQUIPMENT HOURS: D6: 3 HRS ; HOE: 4 HRS
EQUIPMENT COST: 3 @ $100/hr ; 4 @ $130/hr
LABOUR COST: 2.5 HRS @ $26.25/hr
TOTAL EXPENDITURE: $885.63

PLAN VIEW



0-6m CRUMBLY, TAN WEATHERING GRANODIORITE. WEATHERS TO SAND AND COBBLES.

6m-11.6 BLOCKY MEDIUM GRAINED GRANODIORITE COMPETENT; VERY HARD Boulders WITH ONLY WEAK LIMONITE STAINING

11.6-13.0 FRIABLE CLAY WEATHERED GRANODIORITE

13.0-21.0m RUST WEATHERING GRANODIORITE SOFT WITH LIMONITE STAINING

21.0m-26.5m BLOCKY UNWEATHERED GRANODIORITE WEATHERING TO SAND.

26.5m-32.0m CRUMBLY RUST WEATHERING GRANODIORITE WEATHERING TO SAND

32.0m-36.0m BLOCKY RUST WEATHERING GRANODIORITE. SOFT CRUMBLY UNDER FROM HAMMER BLOWS

36.0-60.0 EAST SIDE OF TRENCH BLOCKY COMPETENT (HARD) UNWEATHERED GRANODIORITE

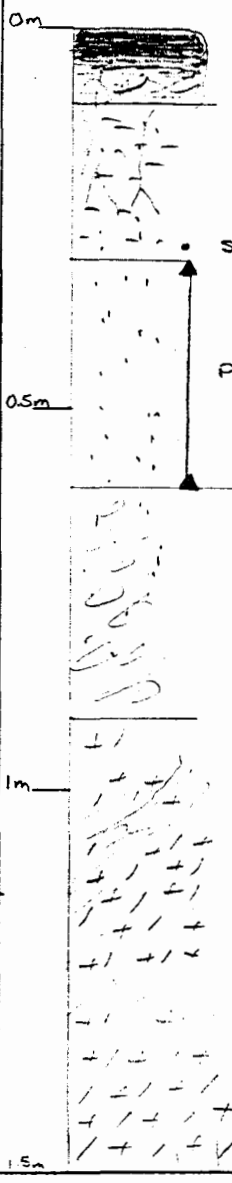
-WEST WALL OF TRENCH HIGHLY WEATHERED CRUMBLY GRANODIORITE COMPLETELY WEATHERED TO CLAY AND SAND.

Dimentions (m) 60 x 1.5 x 1.5

Scale 1:400

SOIL PROFILE

* taken @ 10m



-BLACK FIBRIC ORGANICS OIL WITH GREY VOLCANIC ASH

-BRIGHT ORANGE SILTY SOIL WITH 30% CLAY, 10% ORGANICS.

SOIL: S12396

- DARK BROWN RESIDUAL SANDS AFTER GRANODIORITE

PAN: 9042-CB.10

- MEDIUM BROWN WEATHERED GRANODIORITE PEBBLES AND COBBLES.

- BLACK TO BLUISH GRANODIORITE WITH LIMONITE STAINING ALONG JOINTS.

Scale 1:10

COMMENTS:

Soil S12396 19, <5, 2, 12

SAMPLE NUMBERS: SOIL: S12396, PAN 9042-CB.10.

PANNING CONCENTRATE DESCRIPTION:

PS9042CB-10 - Sample taken @10m in the residual sand layer; orange-tan colour; Mostly subangular quartz, feldspar, biotite, magnetite. Average particle size: 100µm; Minor yellow fluorescent grains

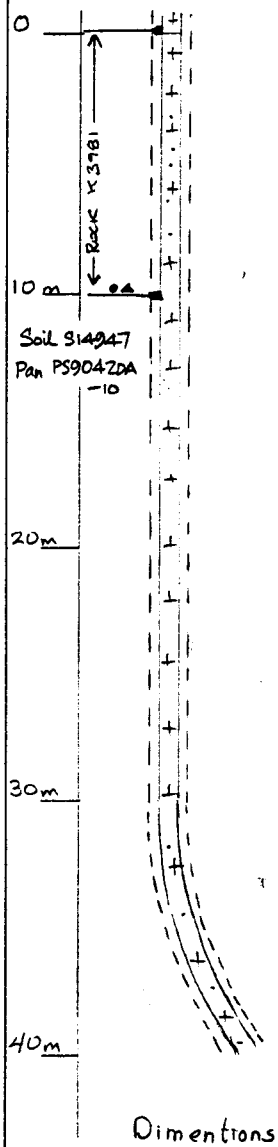
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9042
CREEK:	CASINO
TYPE:	BENCH

PIT NUMBER: 9042-DA	EQUIPMENT TYPE: D6 wide Track, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.5 hours, HOE: 2.5 hours
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr ; 2.5 @ $130/hr
STARTED: August 10, 1993	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: August 20, 1993	TOTAL EXPENDITURE: $540.63

Scale 1:300

PLAN VIEW



0-4m RUSTY-BROWN WEATHERING MEDIUM GRAINED, BLOCKY TO CRUMBLY GRANODIORITE. FELDSPARS COMPLETELY WEATHERED TO CLAY.

@ 4.0m - 8cm BLEACHED CLAY GOUGE Scam

4.0m - 6.4m RUST BROWN WEATHERING COMPLETELY CLAY WEATHERED FINE FINE GRAINED GRANODIORITE (GRANITE)

@ 6.4m 1 cm CLAY ALTERED QUARTZ VEIN LET 036°

6.4m - 10.3m BUFF TO RUST WEATHERING CRUMBLY GRANODIORITE CRUMBLES TO SAND AND PEBBLES

10.3m - 25m BLOCKY TO BLOCKY GRANODIORITE. BREAKS DOWN TO REGULAR BLOCKS. RUST BROWN WEATHERING. WEATHERS TO SAND ALONG JOINTS.

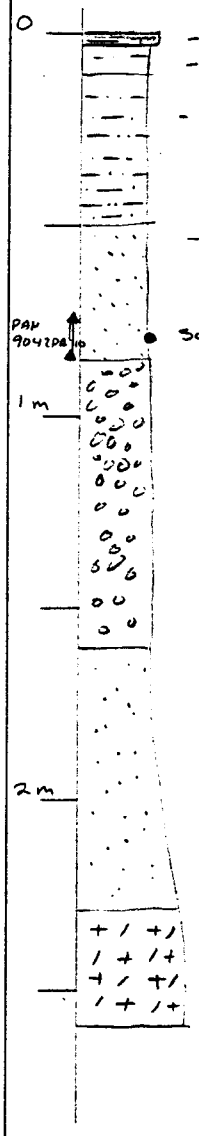
25m - 35m BROWN, CRUMBLY WEATHERING GRANODIORITE

35m - 40m BROWN TO RUST WEATHERING, BLOCKY TO BLOCKY GRANODIORITE.

Dimentions (m)
40 x 1.5 x 2.6

Scale 1:20

SOIL PROFILE @ 10m



- DARK BROWN - BLACK FIBRIC ORGANIC SOIL
- DULL LIGHT BROWN SILTY SOIL (DRY)
- DARK BROWN - BLACK SILTY SOIL WITH 30% SAND
- ORANGE SANDY SOIL WITH STRONG LIMONITE STAINING

SOIL S14947

- ANGULAR PEBBLE GRANODIORITE GRAVEL
- BROWN WEATHERING RESIDUAL SOIL AFTER GRANODIORITE
- BLOCKY TO CRUMBLY RUST WEATHERING GRANODIORITE

COMMENTS:

Soil S14947 4, <5, 11, 18 Rock K3981 5, <5, 12, 14 /10m

SAMPLE NUMBERS: SOIL: S14947 ROCK: K3981 PAN: 9042 DA-10

PANNING CONCENTRATE DESCRIPTION:

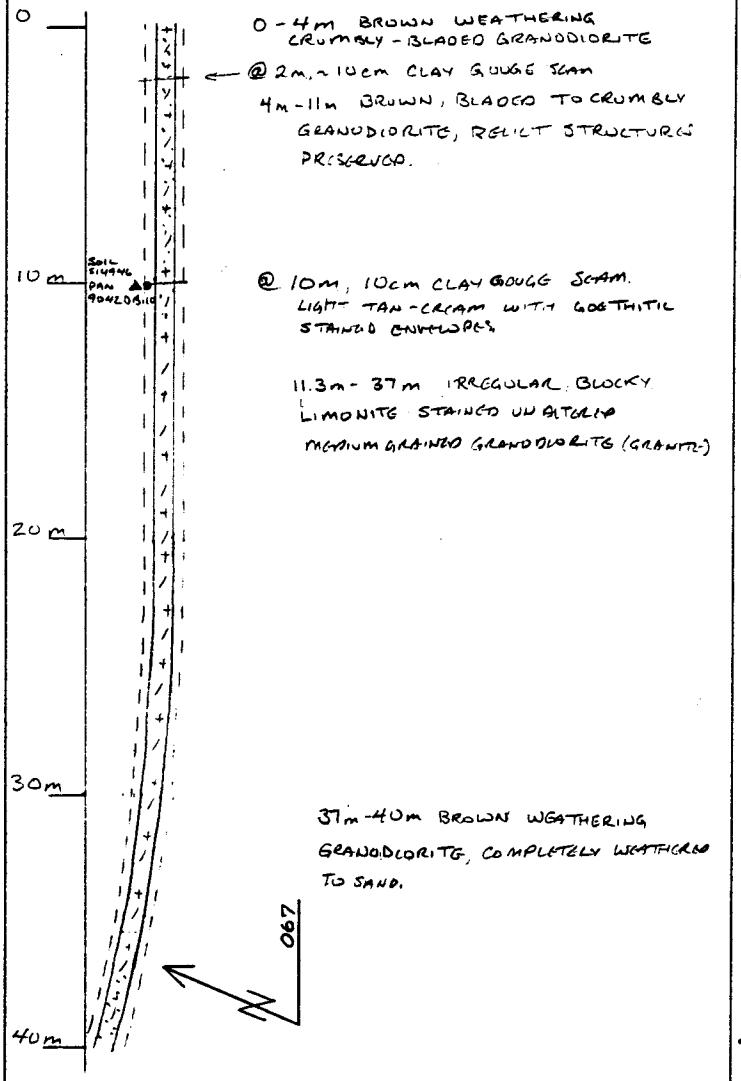
PS9042DA-10 - Sample taken @ 10m in the sandy soil layer; tan coloured, Mostly subangular grains of Qz, minor feldspar, limonite and magnetite. Average particle size: 3mm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9042
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9042 DB	EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.5 HRS HOE: 2.5 HRS
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr ; 2.5 @ $130/hr
STARTED: August 10/93	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: August 20/93	TOTAL EXPENDITURE: $540.63

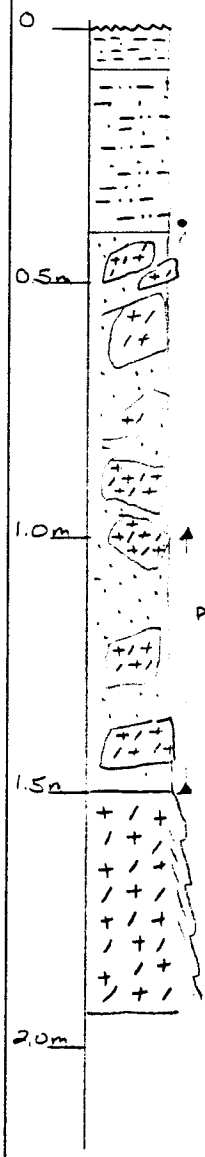
PLAN VIEW



Dimentions (m)
40 x 1.5 x 1.9

Scale 1:300

SOIL PROFILE *taken @ 10m



Scale 1:15

COMMENTS:

Soil S14946 32, <5, 2, 4

SAMPLE NUMBERS: Pan: PS9042DB-10 Soil: S14946

PANNING CONCENTRATE DESCRIPTION:

PS9042B-10 - Sample taken @ 10m in the lower section of the colluvium layer; tan grey colour: mostly quartz biotite and remnant feldspar; minor hornblende; trace magnetite. Average particle size: 15-20µm; minor yellow flourescent grains.

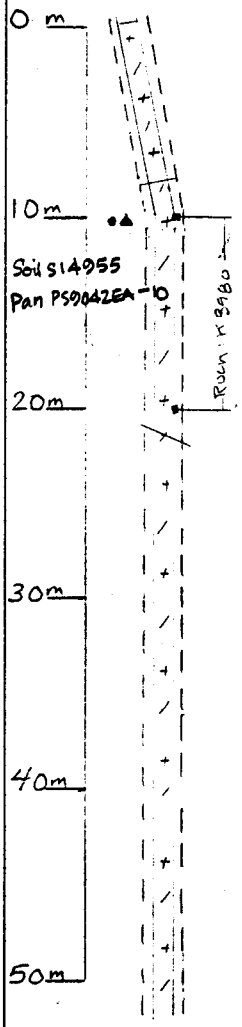
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9042
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9042EA	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: HOE: 3.5 HRS
EASTING:	EQUIPMENT COST: 3.5 @ $130/hr
STARTED: August 15, 1993	LABOUR COST: 2.5 HRS @ $26.25/hr
FINISHED: August 19, 1993	TOTAL EXPENDITURE: $520.63

PLAN VIEW

1:400



0-8m DARK BROWN COMPLETELY CLAY WEATHERED GRANODIORITE CRUMBLES ON TOUCH. RELICT JOINTING FREIGRYED BY LIMONITE STAINING

@ 6m JOINTS 076°/64°, 252/80°

8m-12m BLADED TO BLOCKY CLAY WEATHERED GRANODIORITE. COMPETENT FINE-GRAINED WITH BIOTITE PHANOCRYSTS.

12m-23.3m CRUMBLY LIMONITE CLAY WEATHERING GRANODIORITE

@21m 5cm CLAY SEAM

23.3-37.0m BLOCKY TO BLADED BUFF WEATHERING GRANODIORITE WITH REGULAR JOINTING.

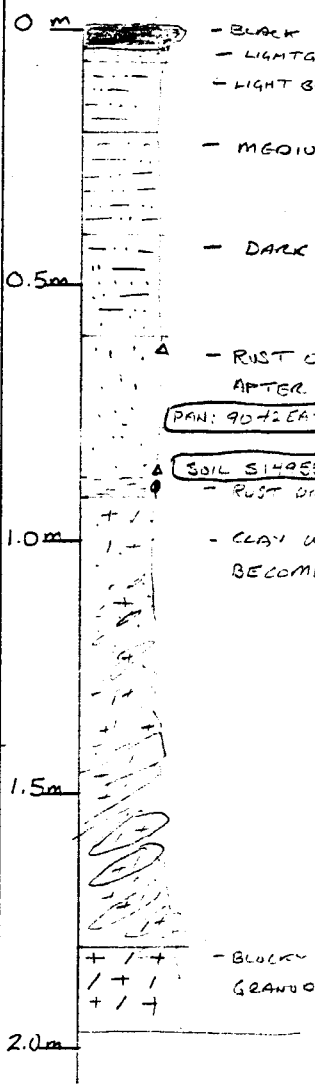
37.0m-43.0m BLADED RUST WEATHERED GRANODIORITE

43.0m-48.0m BLOCKY UNWEATHERED GRANODIORITE

Dimentions (m)
50 x 1.5 x 1.9

SOIL PROFILE

* taken @ 10m



- BLACK FIBRIC ORGANIC SOIL
- LIGHT GREY VOLCANIC ASH
- LIGHT BROWN SILTY SOIL
- MEDIUM BROWN TAHKI SOIL
- DARK BROWN SOIL
- RUST ORANGE SANDY RESIDUAL SOIL AFTER GRANODIORITE
- RUST ORANGE CLAY SOIL
- CLAY WEATHERED GRANODIORITE BECOMES MORE BLOCKY WITH DEPTH
- BLOCKY CLAY LIMONITE WEATHERING GRANODIORITE

COMMENTS:

Soil S14955 7, <5, 6, 28 Rock K3980 6, <5, 11.6 / 10m

SAMPLE NUMBERS: Pan: PS9042EA-10; Soil S14955; Rock: K3980.

PANNING CONCENTRATE DESCRIPTION:

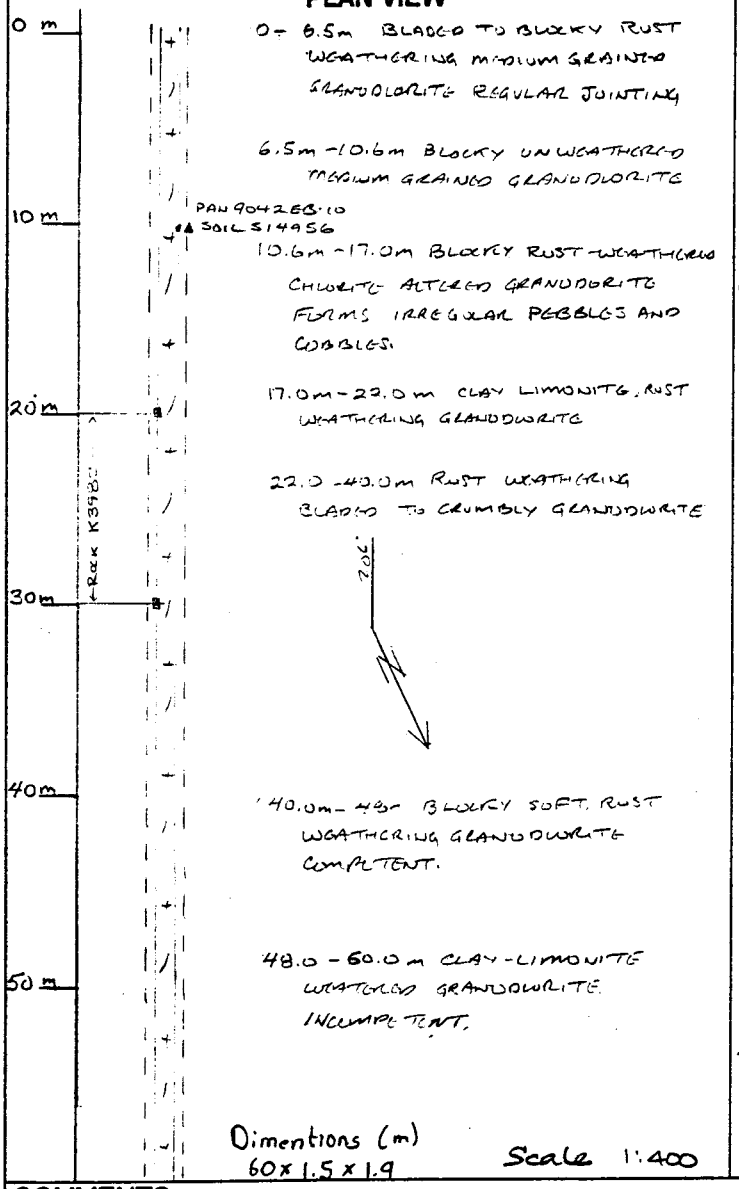
PS9042EA-10 - Sample taken @ 10m; pale orange-tan colour; mostly subangular quartz; minor feldspar, biotite, magnetite; trace yellow fluorescent grains. Average particle size: 40 µm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9042
CREEK: CASINO
TYPE: Bench

PIT NUMBER: 9042 EB	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: HOE: 3.5 HRS
EASTING:	EQUIPMENT COST: 3.5 @ $130/hr
STARTED: August 15, 1993	LABOUR COST: 2.5 HRS @ $26.25/hr
FINISHED: August 19, 1993	TOTAL EXPENDITURE: $520.63

PLAN VIEW



0 - 6.5m BLADED TO BLOCKY RUST WEATHERING MEDIUM GRAINED GRANODIORITE REGULAR JOINTING

6.5m - 10.6m BLOCKY UNWEATHERED MEDIUM GRAINED GRANODIORITE

10.6m - 17.0m BLOCKY RUST-WEATHERED CHLORITE ALTERED GRANODIORITE FORMS IRREGULAR PEBBLES AND COBBLES.

17.0m - 22.0m CLAY LIMONITE, RUST WEATHERING GRANODIORITE

22.0 - 40.0m RUST WEATHERING BLADED TO CRUMBLY GRANODIORITE

40.0m - 48m BLOCKY SOFT RUST WEATHERING GRANODIORITE COMPETENT.

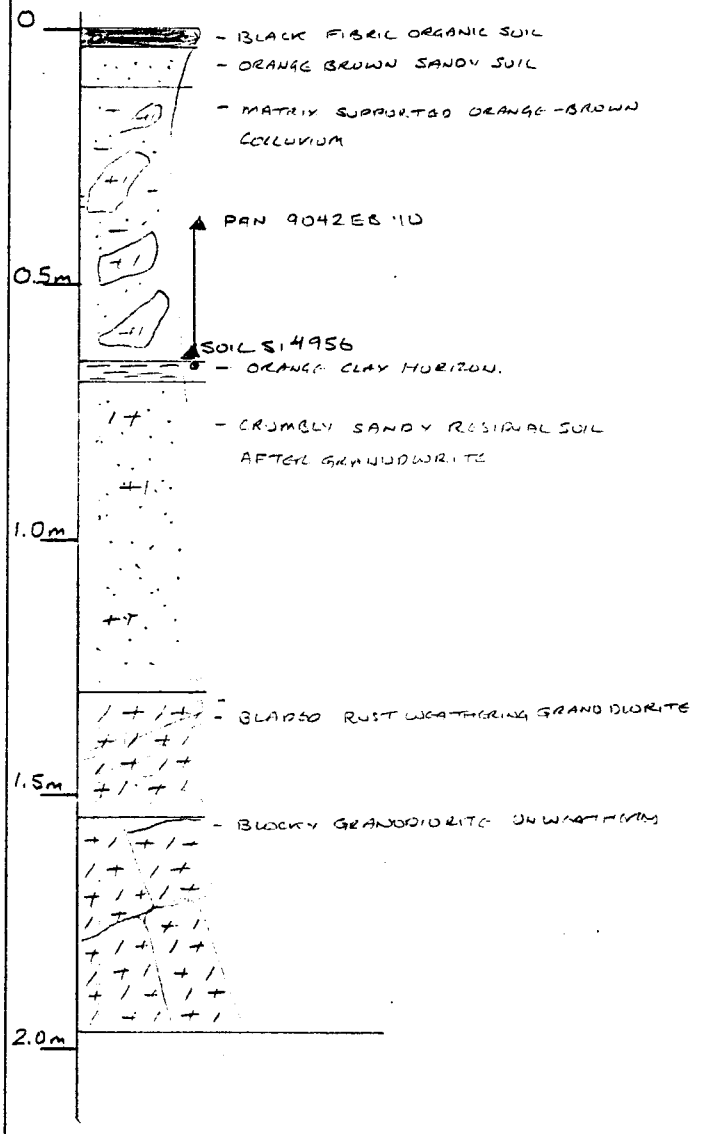
48.0 - 60.0m CLAY-LIMONITE WEATHERED GRANODIORITE INCOMPETENT.

Dimentions (m)
60 x 1.5 x 1.9

Scale 1:400

SOIL PROFILE @ 10m

1:15



- BLACK FIBRIC ORGANIC SOIL
- ORANGE BROWN SANDY SOIL
- MATRIX SUPPORTED ORANGE-BROWN COLLUVIUM
- ORANGE CLAY HORIZON.
- CRUMBLY SANDY RESIDUAL SOIL AFTER GRANODIORITE
- BLADED RUST WEATHERING GRANODIORITE
- BLOCKY GRANODIORITE UNWEATHERED

COMMENTS:

Soil S14956 15, <5, 9.8 Rock K3982 7, <5, 14, 16 /10m

SAMPLE NUMBERS: SOIL S14956, PAN 9042EB-10, ROCK: K3982

PANNING CONCENTRATE DESCRIPTION:

PS9042EB-10 - Sample taken @ 10m in the lower section of the colluvium layer; Mostly subangular grains of quartz, feldspar, and biotite; Minor magnetite, and yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: HL 9043
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9043-A
NORTHING:
EASTING:
STARTED: June 7, 1993
FINISHED: July 20, 1993

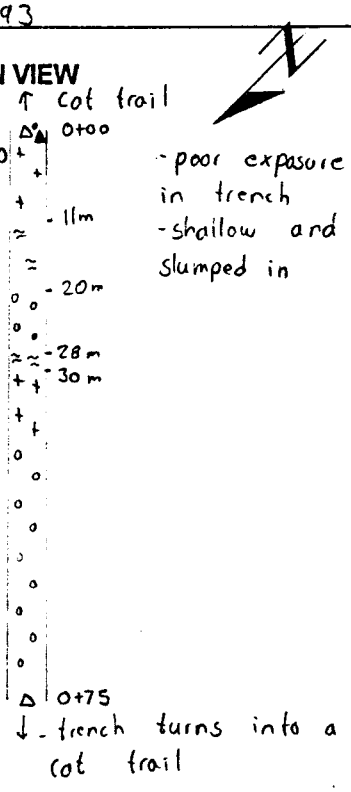
EQUIPMENT TYPE: D6 Wide Track; Hitachi hoe
EQUIPMENT HOURS: D6: 2hrs; hoe: 3.5hrs
EQUIPMENT COST: 2hrs @ $100/hr; 3.5hrs @ $130/hr
LABOUR COST: 3hrs @ $26.25/hr
TOTAL EXPENDITURE: $733.75

Survey Data

From	To	Stk.	Dip
0.0	75.0	315°	-16°

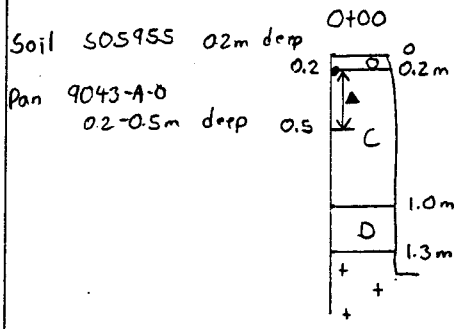
Mainly granodiorite with weak foliation and moderate weathering
- Zones of metamorphic rocks and minor granodiorite with clasts of metamorphic rocks

PLAN VIEW



Scale 1:50

SOIL PROFILE



O - organics, 20 cm good black muck, with minor sand and clay

C - colluvium, light grey clay grading down into brown sand ~10-25% rock fragments

D - decomposed bedrock, brown sand with unconsolidated rock

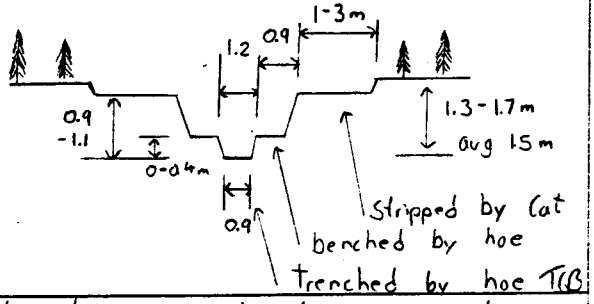
+ + - bedrock, granodiorite

+ + Dawson Range Granodiorite

Yukon Metamorphic Complex

Poor exposure - slumped in

Typical Cross-Section 0+10 m



Dimentions (m)
7.3 x 3.9 x 1.5

Scale: 1:1000

COMMENTS: No permafrost or glacial / fluvial material encountered. No water or seeps in trench.

Soil S05955 12.55, 1.8

SAMPLE NUMBERS: S05955 - soil 9043-A-0 pan

PANNING CONCENTRATE DESCRIPTION:

PS9043A-0 - Sample taken @ on in the colluvium layer @ 20-50cm depth; orange-grey colour; decomposed Granodiorite; Mostly sub-angular Quartz, feldspar, magnetite, Hornblende; remnant Pyrite; Minor yellow fluorescent grains. Ave. particle size: 30μm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9043
CREEK:	Bench
TYPE:	Casino

PIT NUMBER: 9043B	EQUIPMENT TYPE: D6 Wide Track
NORTHING:	EQUIPMENT HOURS: D6: 3hrs
EASTING:	EQUIPMENT COST: 3 @ $100/hr
STARTED: June 25, 1993	LABOUR COST: 1 hr @ $26.25/hr
FINISHED: July 16, 1993	TOTAL EXPENDITURE: $326.25

PLAN VIEW

Permafrost @ 0.3m depth (just under moss layer) only frozen black muck exposed.

Dimentions (m)
100 x 4.5 x 0.3

SOIL PROFILE

COMMENTS: - Permafrost layer just under moss cover @ a depth of 0.3m. Further trenching abandoned.
- No samples taken.

SAMPLE NUMBERS:

PANNING CONCENTRATE DESCRIPTION:

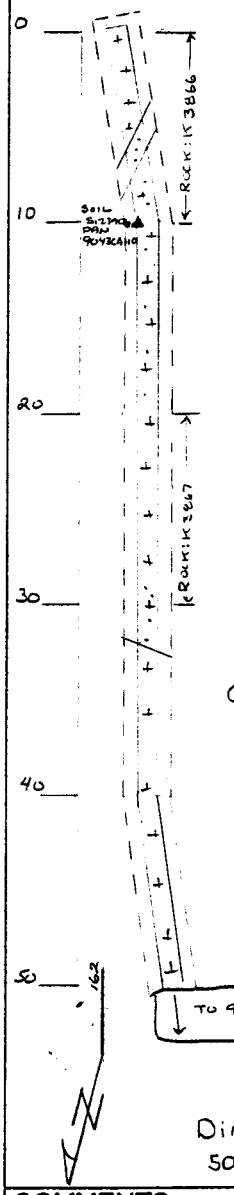
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9043
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9043CA	EQUIPMENT TYPE: D6 wide track; hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.5hrs; hoe: 4hrs.
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr; 4 @ $130/hr
STARTED: August 9, 1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 15, 1993	TOTAL EXPENDITURE: $722.50

SCALE 1:400

PLAN VIEW



0-5m BLOCKY LIGHT BROWN WEATHERING MEDIUM GRAINED GRANODIORITE.
20% MAFICS (BIOTITE TO HORNBLENDE!:)
15% QUARTZ WEATHERS TO ROUGH, ANGULAR PEBBLES AND COBBLES
JOINTS @ 3m 274°/78°, 150°/79°, 306°/48°

5m-6.5m HIGHLY WEATHERED GRANODIORITE COMPLETELY WEATHERED TO SAND

6.5m-19.2m LIGHT BROWN CRUMBLY GRANODIORITE. WEATHERS TO SAND RELICT STRUCTURES POORLY PRESERVED

19.2m-28m LIGHT BROWN - GREY BLOCKY - BLADED GRANODIORITE RELICT TEXTURES DISTURBED BY CREEP (JOINTING...) LIMONITE STAINING ALONG JOINTS

28m-32m VERY CRUMBLY (COLLUVIUM?) AFTER GRANODIORITE. CLAST SUPPORTED WITH DARK RED LIMONITE STAINING. RESIDUAL SOIL WEATHERING

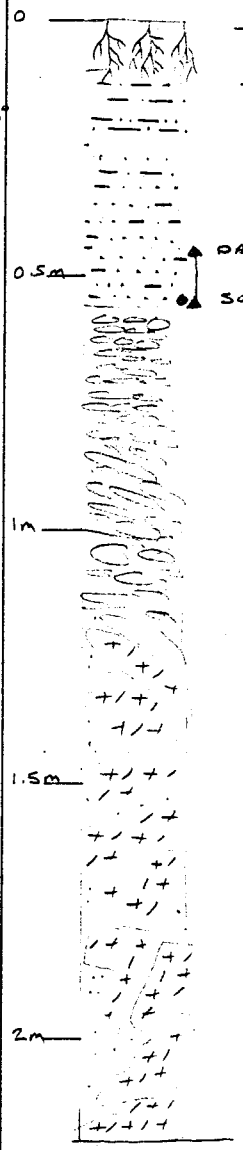
@ 32m, 20cm SAND SEAM, LIMONITE STAINED AND DIPPING TO SOUTH

32m-50m DARK BROWN WEATHERING BLOCKY (BOULDERS) GRANODIORITE NO WEATHERING EXCEPT ALONG JOINTS

Dimentions (m)
50 x 1.5 x 2.2

SCALE: 1:15

SOIL PROFILE @ 10m



- BLACK FIBRIC ORGANIC SOIL WITH 40% GRAY VOLCANIC ASH
- TAN/KAHKI SILTY SOIL, DAMP, 15% ORGANICS 80% SILT, 5% SAND,
- LIGHT BROWN SOIL 95% SAND, 15% SILT, <10% ORGANICS, 1% FINE GRAVEL
- AS ABOVE BUT DARK BROWN
- SHEETED? LIGHT BROWN WEATHERING BLADED GRANODIORITE. WEATHERING TO SAND AND ANGULAR PEBBLES. DRY
- BLOCKY RESIDUAL WEATHERING OF GRANODIORITE. PRIMARY TEXTURES PRESERVED BUT DISTORTED

COMMENTS:

Soil S12390 16, <5, 6, 20 Rock K3866 6, <5, 2, 8 / 10m
K3867 3, <5, 1, 8 / 10m

SAMPLE NUMBERS: SOIL S12390 ROCK: K3866, K3867, PAN 9043CA10

PANNING CONCENTRATE DESCRIPTION:

PS9043CA-10 - Sample taken @ 10m in the dark brown soil/sand level; orange tan Colour; Mostly subrounded grains of quartz, remnant feldspar, magnetite, biotite, Minor Hornblende; Average particle size; 50µm; Minor white fluorescent grains.

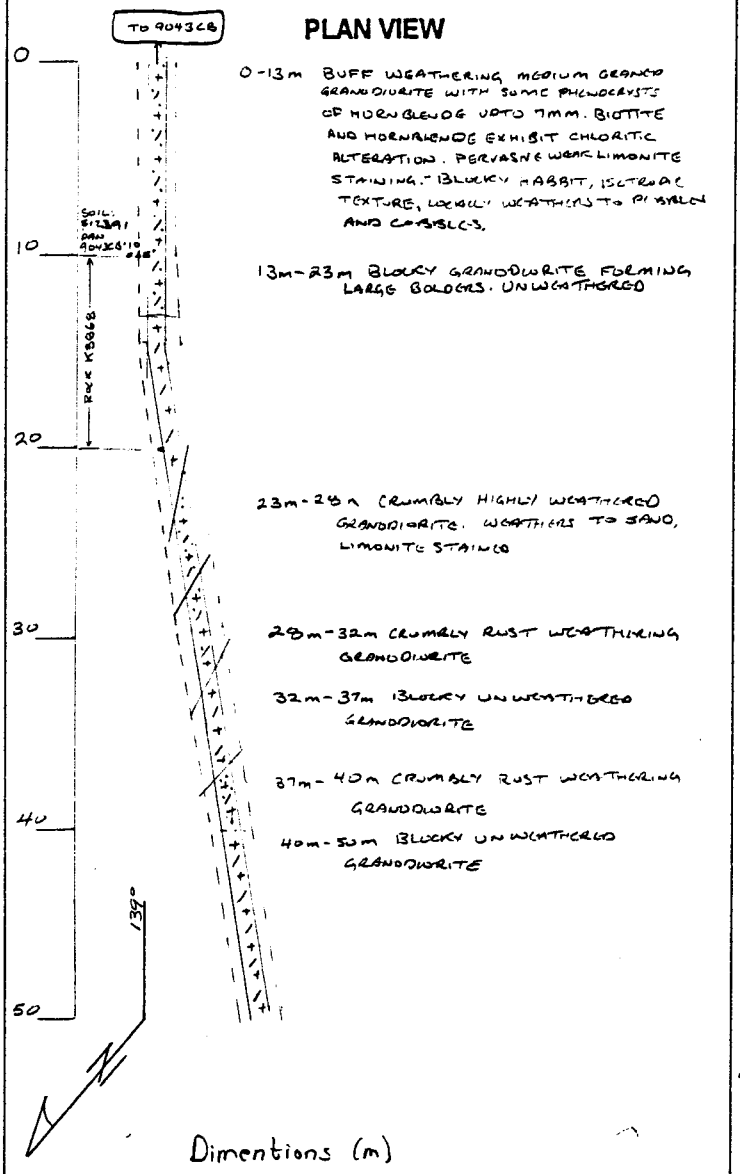
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9043
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9043CB	EQUIPMENT TYPE: D6 wide track; hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.5 hrs; hoe: 4 hrs
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr; 4 @ $130/hr
STARTED: August 9, 1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 16, 1993	TOTAL EXPENDITURE: $722.50

SCALE: 1:400

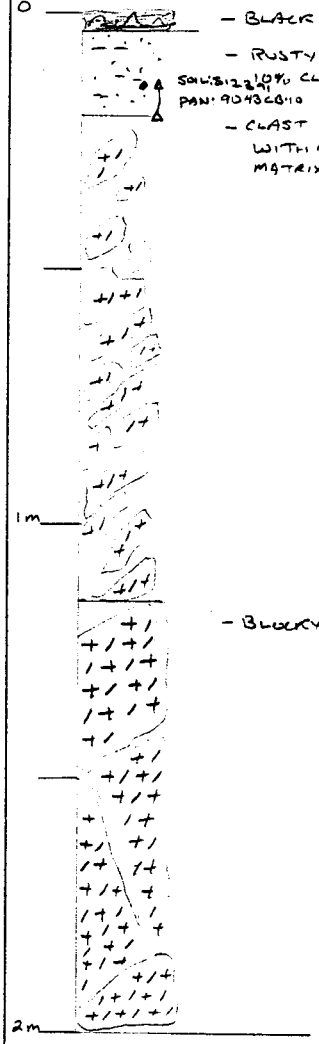
PLAN VIEW



Dimentions (m)
50 x 1.5 x 2.0

SOIL PROFILE @ 10m

1:15



COMMENTS:

Soil S12391 17, <5, 4, 16 Rock K3868 4, <5, 1, 8 / 10m

SAMPLE NUMBERS: ROCK: K3868, SOIL: S12391, PAN: 9043-CB-10

PANNING CONCENTRATE DESCRIPTION:

PS9043CB-10-Sample taken @ 10m from the rusty orange soil layer; Orange-tan colour; mostly subangular grains of quartz, feldspar and biotite; minor magnetite; Average particle size: 20 µm; Minor yellow and white fluorescent grains.

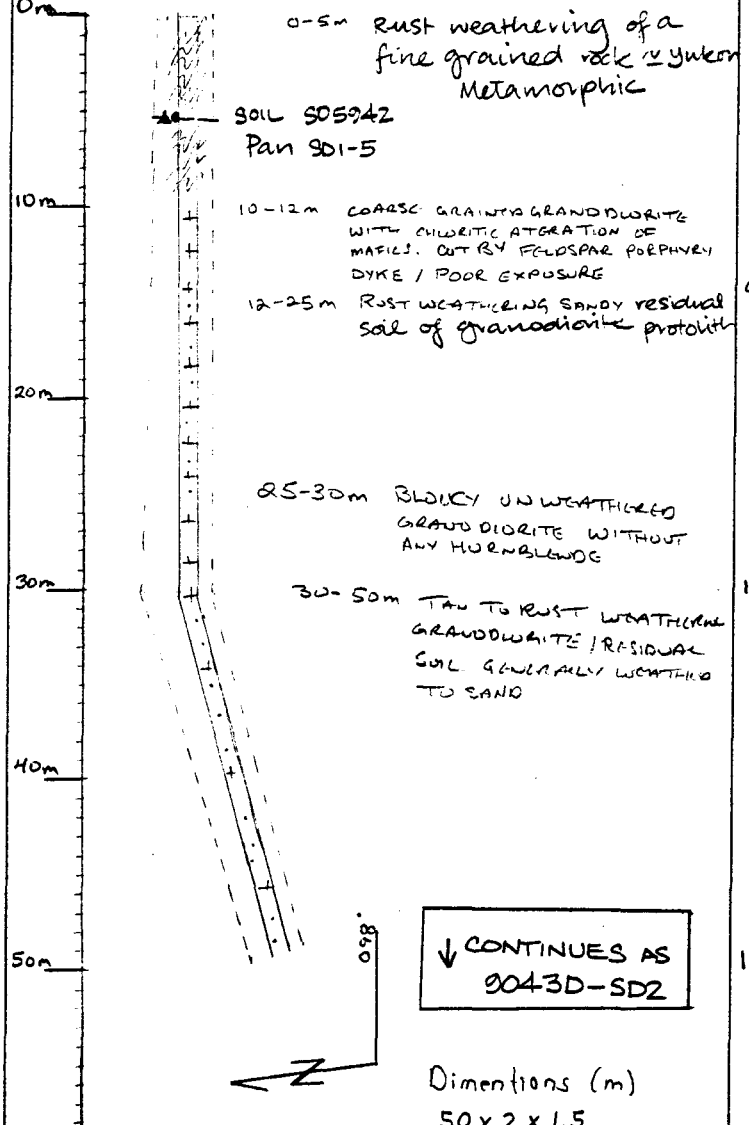
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9043
CREEK: CASINO
TYPE: BENCH

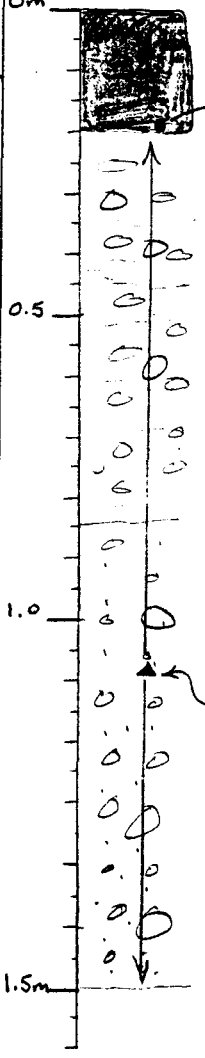
PIT NUMBER: 9043D - SD1	EQUIPMENT TYPE: D6 WIDE TRACK ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.5 hr ; Hoe: 1.5hrs
EASTING:	EQUIPMENT COST: 0.5 @ $100/hr ; 1.5 @ $130/hr
STARTED: June 24, 1993	LABOUR COST: 1.5hrs @ $26.25/hr
FINISHED: July 13, 1993	TOTAL EXPENDITURE: $284.38

SCALE 1:400

PLAN VIEW



SOIL PROFILE @ 5m



0-0.2 BLACK MESIC ORGANIC SOIL 10% LIVING ORGANICS

0.2-0.35 DARK GREY MATRIX SUPPORTED COLLUVIUM WITH 10% ORGANICS 50% SILT 5% SAND, 5% CLAY MOIST

0.35-1.5 TAN-RUST COLLUVIUM MATRIX SUPPORTED WITH 15% CLASTS OF YUKON METAMORPHIC ROCKS

Scale 1:12.5

COMMENTS:

Soil S05942 44, <5, 2, 4

SAMPLE NUMBERS: Soil S05942 ; Pan : 9043-SD1-45

PANNING CONCENTRATE DESCRIPTION: Tan to Rust colluvium with Yukon Group gneiss pebbles to cobbles panned to fine quartz sand with minor magnetite, hornblende and muscovite - no fluorecent minerals

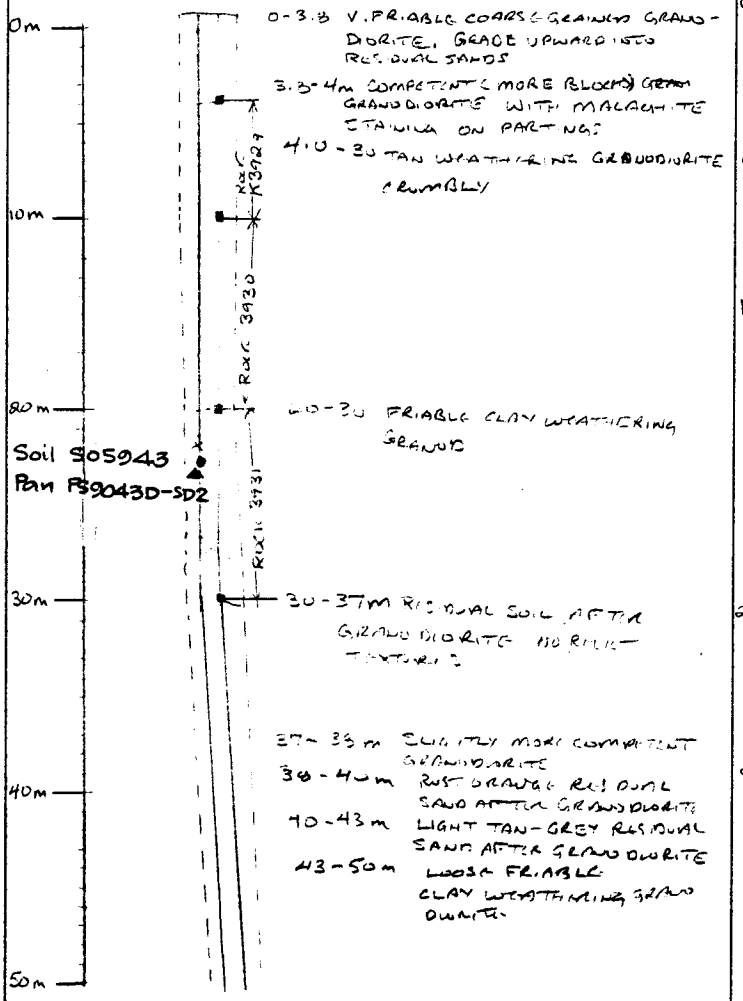
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9043
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 0043D – SD2
NORTHING:
EASTING:
STARTED: June 24, 1993
FINISHED: July 13, 1993

EQUIPMENT TYPE: D6 Wide Track, Hitachi Hoe
EQUIPMENT HOURS: D6: 1.0hr ; hoe: 1.5hr
EQUIPMENT COST: 1.0 @ $100/hr ; 1.5hrs @ $130/hr
LABOUR COST: 1.5hrs @ $26.25 hr
TOTAL EXPENDITURE: $334.38

PLAN VIEW — CONTINUATION FROM 0043D-SD1

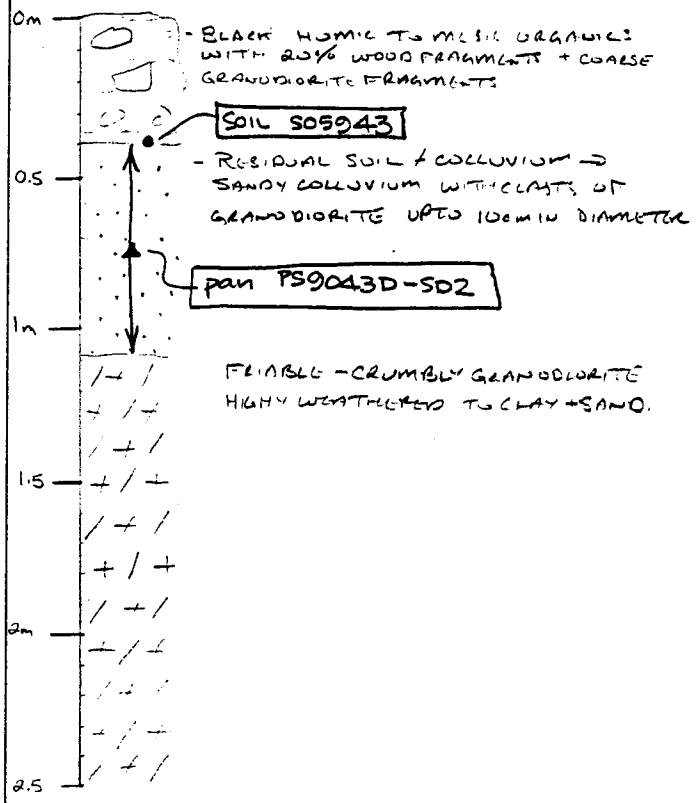


CONTINUES AS 0043D-SD3

Dimentions (m) 50 x 2 x 2.5

Scale: 1:400

SOIL PROFILE @ 22m



Scale: 1:25

COMMENTS:

	Rock	K 3929	21, <5, 1, 8	/6m
Soil S05943 44,30,1,10		K 3930	19, <5, <1, <2	/10m
		K 3931	34, <5, 1, 10	/10m

SAMPLE NUMBERS: Soil : S05943 ; Pan PS9043D-SD2 ; Rock: K3929 – K3931

PANNING CONCENTRATE DESCRIPTION:

PS9043D-SD2-22 ; Sample taken @ 22m in the residual soil and colluvium layer; orange-grey colour; Mostly angular grains of quartz, hornblende, feldspar, biotite. Minor magnetite and yellow fluorescent grains; Ave. particle size: 30µm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

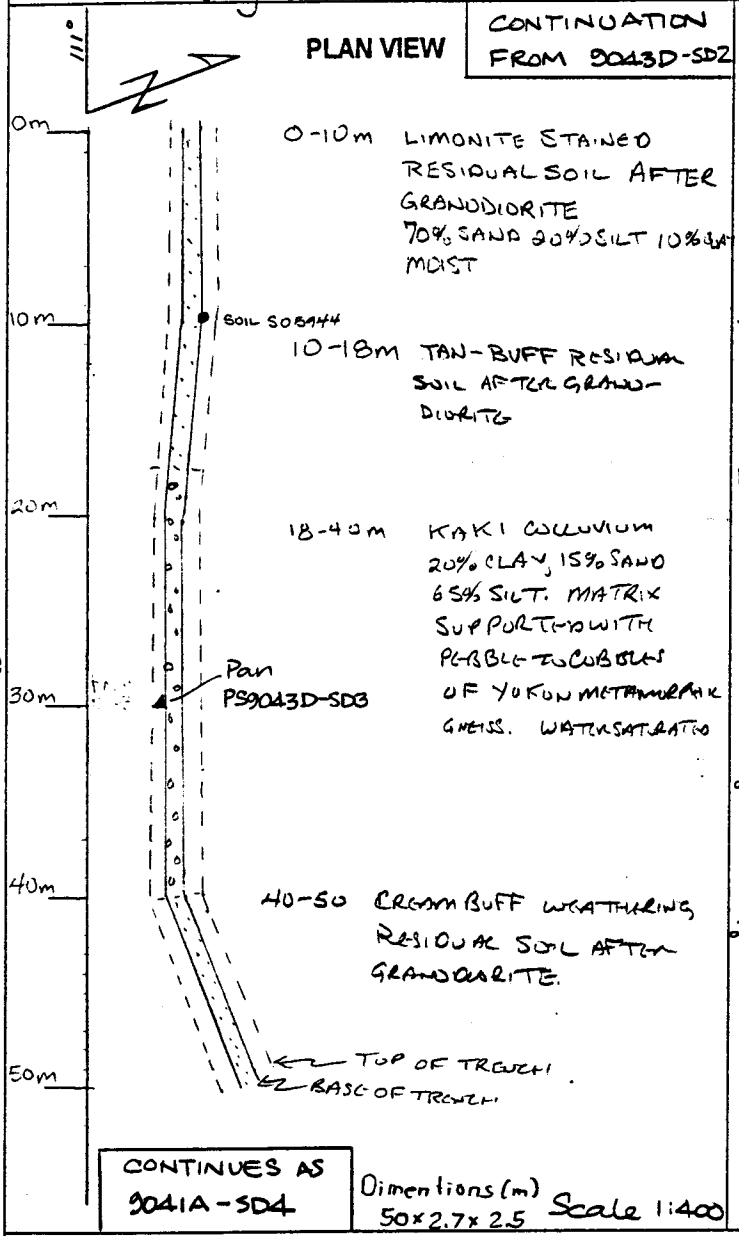
LEASE NO.: PL9043
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9043D - SD3
NORTHING:
EASTING:
STARTED: June 24, 1993
FINISHED: July 13, 1993

EQUIPMENT TYPE: D6 wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6: 0.5 hrs; hoe: 2hrs
EQUIPMENT COST: 0.5 @ $100/hr; 2 hrs @ $130/hr
LABOUR COST: 1.5 hrs @ $26.25/hr
TOTAL EXPENDITURE: $349.38

PLAN VIEW

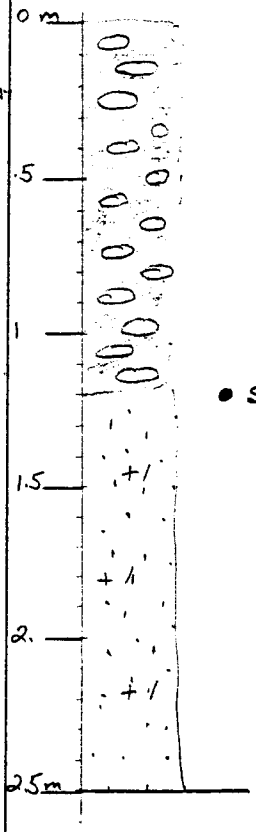
CONTINUATION FROM 9043D-SD2



CONTINUES AS 9041A-SD4

Dimentions (m) 50 x 2.7 x 2.5 Scale 1:400

SOIL PROFILE @10m



- COLLUVIUM WITH ORGANIC MATRIX. BLACK HUMIC ORGANIC MATRIX SUPPORTING YUKON METAMORPHIC GNEISSES

● SOIL S05944
- TAN-BUFF SANDY RESIDUAL SOIL AFTER GRANODIORITE 30% SAND, 60% SILT, 5% GRAVEL 5% CLAY

Scale: 1:25

COMMENTS:

Soil S05944 42.<5, 2.70

SAMPLE NUMBERS: SOIL: S05944 PAN SD9043D-SD3-30

PANNING CONCENTRATE DESCRIPTION:

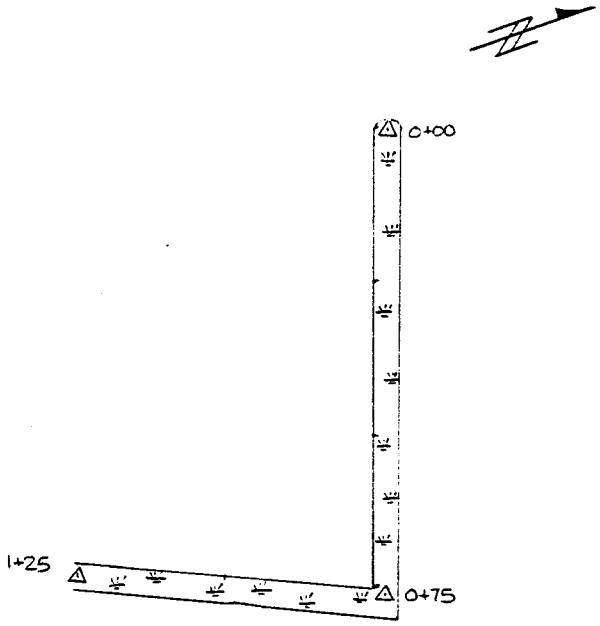
SD9043D-SD3- Sample taken @ 30m in the colluvium layer; Mostly sub-rounded grains of quartz; minor remnant feldspar, hornblende, biotite, muscovite and magnetite; Average grain size: 15-25μm; Minor blue fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9043
CREEK:	Casino
TYPE:	Bench

PIT NUMBER: 9043E	EQUIPMENT TYPE: D6 wide Track
NORTHING:	EQUIPMENT HOURS: D6: 2 hrs
EASTING:	EQUIPMENT COST: 2 @ $100/hr
STARTED: June 25, 1993	LABOUR COST: 1 hr @ $226.25/hr
FINISHED: June 25, 1993	TOTAL EXPENDITURE: $226.25

PLAN VIEW



Permafrost @ 0.3m depth - only "frozen black muck" exposed.

Dimentions (m)
12.5 x 4.5 x 0.3

SOIL PROFILE

COMMENTS: - Permafrost @ 0.3m - just under the moss layer. Furthur trenching was abandoned.
- No samples taken

SAMPLE NUMBERS:

PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9043
CREEK: Casino
TYPE: Bench

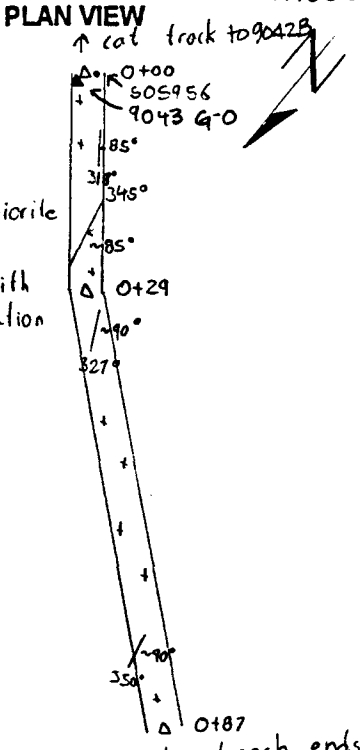
PIT NUMBER: 9043-G
NORTHING:
EASTING:
STARTED: June 25 1993
FINISHED: July 21, 1993

EQUIPMENT TYPE: Hitachi Hoe; D6 Wide Track,
EQUIPMENT HOURS: hoe: 3.5hrs; D6: 4hrs
EQUIPMENT COST: 3.5 @ $130/hr; 4 @ $100/hr
LABOUR COST: 3 hrs @ $26.25/hr
TOTAL EXPENDITURE: $933.75

Survey Data

From	To	Stk.	Dip
0	29	322°	-6°
29	87	312°	-7°

PLAN VIEW 1:1000



- Dawson Range Granodiorite
- mainly coarse blocky, weakly weathered with zones of clay alteration cross cutting

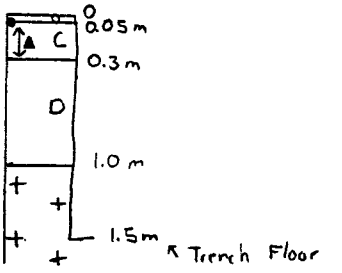
Dimentions (m)

87 x 2.7 x 1.9

SOIL PROFILE 1:50

0+00

Soil S05956 0.05m deep
Pan 9043 G-0 0.05-0.3 m deep



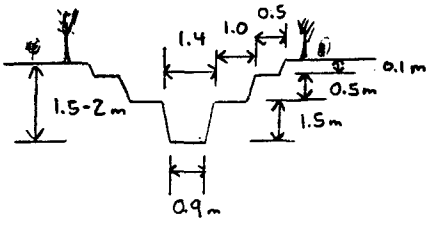
O - organics, 5cm thick, poorly developed, mainly brown soil with minor black

C - coluvium, weakly developed, mainly a zone of brown sand with clay + rock fragments

O - decomposed bedrock, unconsolidated rock fragments with sand + clay between rocks

+ + - bedrock, granodiorite

Typical Cross-Section 0+12m



TCD.

COMMENTS: No permafrost or glacial / fluvial material. No water or seeps in trench. Coluvium increases in thickness down trench.

Soil S05956 17, <5, 1, 12

SAMPLE NUMBERS: S05956 - soil 9043-G-0 - pan
PANNING CONCENTRATE DESCRIPTION:
PS9043G-0: sample taken @ on in the colluvium layer, 5 - 30 cm depth; orange - tan colour. Mostly quartz, magnetite, muscovite, HB = BI, remnant feldspars; fine particle size: 10-15 µm.

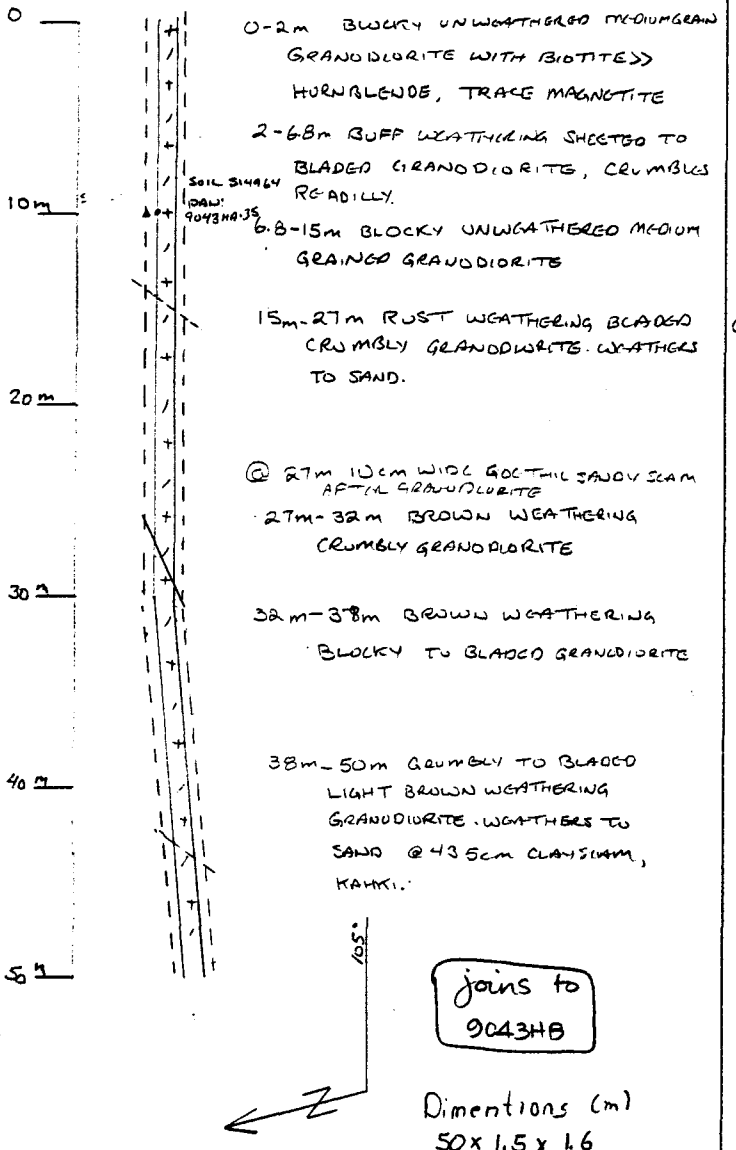
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9043 11
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9043 HA	EQUIPMENT TYPE: D6 wide Track; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.5 hrs; hoe: 1.0 hrs.
EASTING:	EQUIPMENT COST: 0.5 @ $100/hr; 1@ $130/hr
STARTED: August 10/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 20/93	TOTAL EXPENDITURE: $232.50

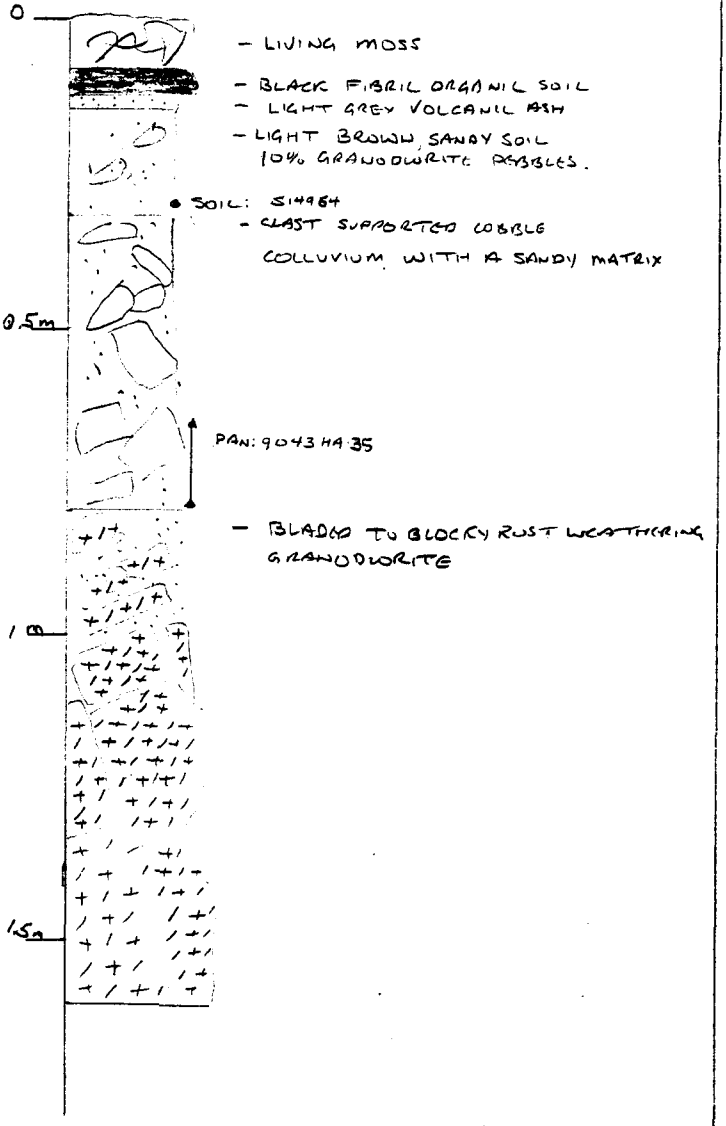
PLAN VIEW

Scale 1:400



SOIL PROFILE @ 35m

Scale 1:12.5



COMMENTS:

✓ missing ?!

SAMPLE NUMBERS: Soil: S14964; Pan: PS9043 HA-35

PANNING CONCENTRATE DESCRIPTION:

PS9043HA-35 - Sample taken @ 35m; orange-tan colour; mostly subangular grains of quartz, feldspar, biotite. Minor magnetite and hornblende. Average particle size: 50μm. Minor yellow and white fluorescent grains.

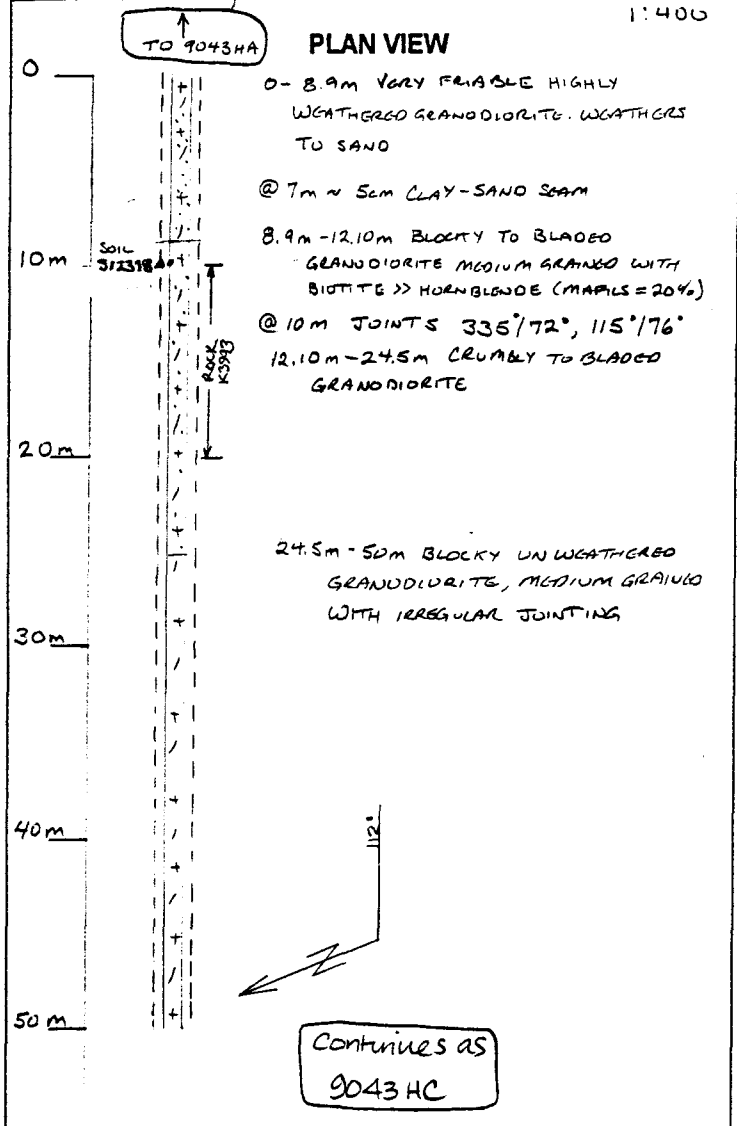
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9043
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9043 HB	EQUIPMENT TYPE: D6 wide Track; hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.75 hrs; hoe: 1.5 hrs.
EASTING:	EQUIPMENT COST: 0.75 @ $100/hr; 1.5 @ $130/hr
STARTED: August 10/93	LABOUR COST: 2 hrs @ $26.25/hr.
FINISHED: August 20/93	TOTAL EXPENDITURE: $322.50

PLAN VIEW

1:400



0 - 8.9m VERY FRIABLE HIGHLY WEATHERED GRANODIORITE. WEATHERS TO SAND

@ 7m ± 5cm CLAY-SAND SEAM

8.9m - 12.10m BLOCKY TO BLADED GRANODIORITE MEDIUM GRAINED WITH BIOTITE >> HORNBLENDE (MAFICS = 20%)

@ 10m JOINTS 336°/72°, 115°/76°

12.10m - 24.5m CRUMBLY TO BLADED GRANODIORITE

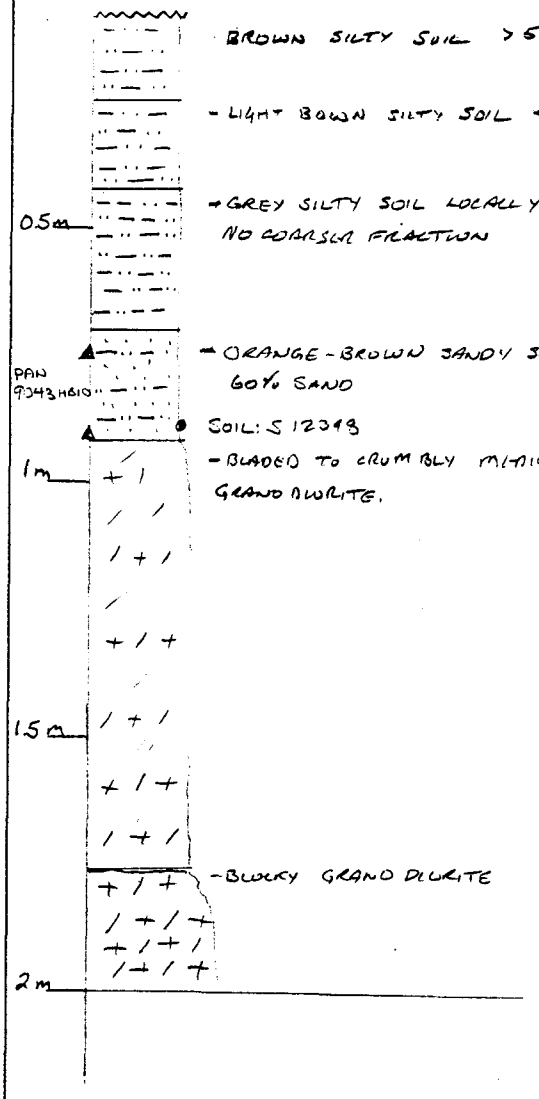
24.5m - 50m BLOCKY UNWEATHERED GRANODIORITE, MEDIUM GRAINED WITH IRREGULAR JOINTING

Continues as 9043 HC

Dimentions (m)
50 × 1.5 × 2.0

SOIL PROFILE @ 10 m

1:15



- STRIPPED ORGANIC PROFILE
- BROWN SILTY SOIL > 5% ORGANICS
- LIGHT BROWN SILTY SOIL < 5% ORGANICS
- GREY SILTY SOIL LOCALLY CEMENTED NO COARSE FRACTION
- ORANGE-BROWN SANDY SOIL. 30% SILT 60% SAND
- SOIL: S 12393
- BLADED TO CRUMBLY MEDIUM GRAINED GRANODIORITE.
- BLOCKY GRANODIORITE

COMMENTS:

Soil S12398 107, <5, 20, 10 Rock K3993 50, <5, 10, 6, / 10m

SAMPLE NUMBERS: SOIL: S12398 ROCK: K3993

PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

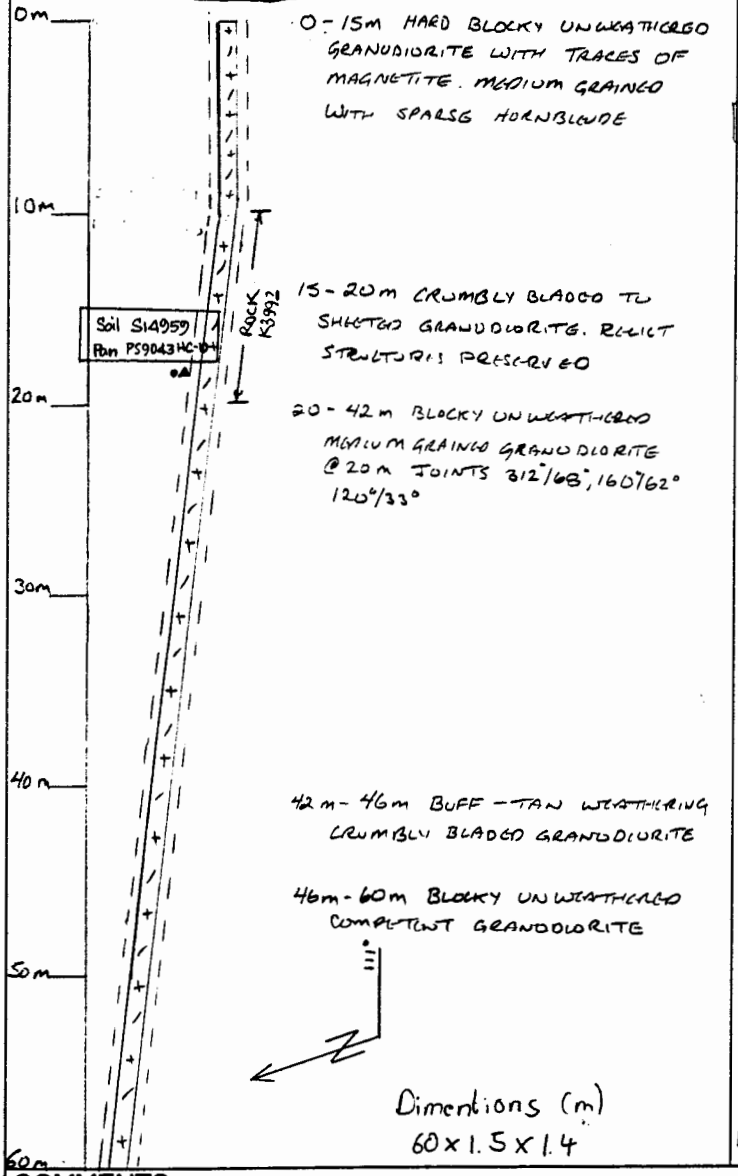
LEASE NO.: PL9043
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9043-HC	EQUIPMENT TYPE: D6 wide Track; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.75 hrs; hoe: 1.5 hrs.
EASTING:	EQUIPMENT COST: 0.75 @ $100/hr; 1.5 @ $130/hr
STARTED: August 10/93	LABOUR COST: 2 hrs @ $26.25/hr.
FINISHED: August 20/93	TOTAL EXPENDITURE: $322.50.

1:400

TO 9043HC

PLAN VIEW



0 - 15m HARD BLOCKY UNWEATHERED GRANODIORITE WITH TRACES OF MAGNETITE. MEDIUM GRAINED WITH SPARSE HORNBLENDE

15 - 20m CRUMBLY BLADED TO SHEETED GRANODIORITE. RELICT STRUCTURES PRESERVED

20 - 42m BLOCKY UNWEATHERED MEDIUM GRAINED GRANODIORITE @ 20m JOINTS 312°/68°, 160°/62° 120°/33°

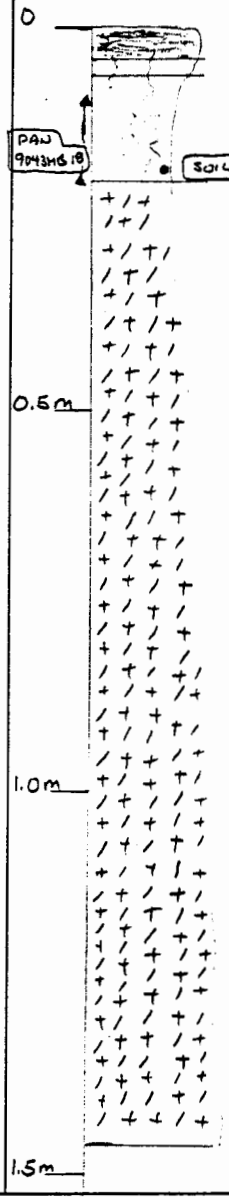
42m - 46m BUFF - TAN WEATHERING CRUMBLY BLADED GRANODIORITE

46m - 60m BLOCKY UNWEATHERED COMPETENT GRANODIORITE

Dimentions (m)
60 x 1.5 x 1.4

1:10

SOIL PROFILE @ 18m



- BLACK FIBRIL ORGANIC SOIL
- GREY VOLCANIC ASH
- ORANGE - BROWN SANDY RESIDUAL SOIL AFTER GRANODIORITE
- BLADED TO CRUMBLY LIGHT BROWN WEATHERING MEDIUM GRAINED GRANODIORITE - BECOMING MORE COMPETENT WITH DEPTH

COMMENTS:

Soil S14959 33, <5, 4, 4 Rock K3992 21, <5, 1, <2 /10m

SAMPLE NUMBERS: SOIL: S14959 PAN: 9043HC-18 ROCK: K3992

PANNING CONCENTRATE DESCRIPTION:

PS9043C-18 - sample taken @ 10m in the orange-brown residual soil layer; tan-orange colour; Mostly angular bits of broken granodiorite: Quartz + feldspar, magnetite, biotite. Minor yellow fluorescent grains. Average particle size: 50 µm.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

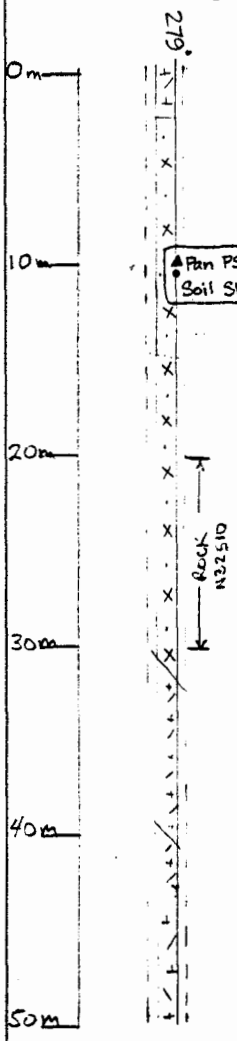
LEASE NO.: PL 9044
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044AA
NORTHING:
EASTING:
STARTED: July 28/93
FINISHED: August 8/93

EQUIPMENT TYPE: Hitachi Hoe
EQUIPMENT HOURS: hoe: 1.5 hrs
EQUIPMENT COST: 1.5 @ $130/hr
LABOUR COST: 2 hrs x $26.25/HR
TOTAL EXPENDITURE: $247.50

Scale: 1:400

PLAN VIEW



0-3m MEDIUM GRAINED GRANODIORITE BLOCKY TO SHEETED HABIT, SOFT, BUFF WEATHERING, WEATHERS TO CLAY

3-3.3m - HIGHLY CLAY ALTERED GRANODIORITE WITH LIMONITE-STAINING

3.3m-15m - BROKEN TAN CLAY WEATHERED QUARTZ MONZONITE >30% BIOTITE 20% K-FELDSPAR - BIOTITE WITH LIMONITE STAINING

15m-30m CRUMBLY TAN-BUFF WEATHERING MEDIUM-FINE GRAINED QUARTZ MONZONITE WITH LIMONITE STAINING ALONG JOINTS - SOME SECTIONS SHOW UPTO 35% QUARTZ

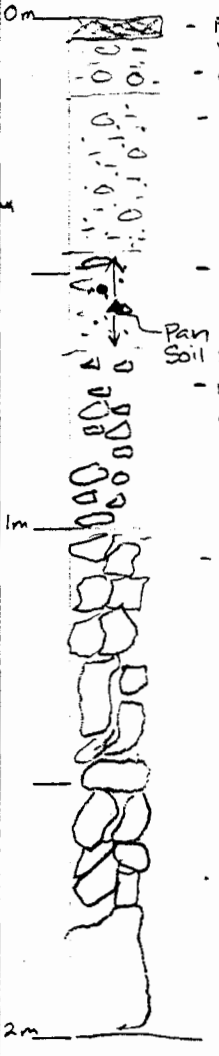
30-37.5 - UNALTERED COARSE GRAINED GRANODIORITE RUST WEATHERING WITH HEMATITE ALONG JOINTS.

40-49.6 UNALTERED BLOCKY GRANODIORITE WITH NUMEROUS DIORITE XENOLITHS AND PINK QUARTZ VEINS WITH HEMATITE

DIMENSIONS(m)

50X1.5X2

SOIL PROFILE @ 10m



- FIBRIL ORGANIC SOIL AND FINE GRAIN VOLCANIC ASH
- GREY COLLUVIAL SOIL
- LIGHT BROWN COLLUVIUM 5% ORGANICS, 60% SILT, 20% SAND, 15% GRAVEL
- SANDY SOIL DARK BROWN < 1% ORGANICS 50% SAND, 35% SILT 5% GRAVEL
- RESIDUAL SOIL AFTER QUARTZ MONZONITE 90% GRAVEL / TALUS
- COARSE UNWEATHERED TO BLOCKY QUARTZ MONZONITE

Scale 1:15

COMMENTS:

Soil S12381 21, <5 2, 8 Rock N32510 16, <5, 10, 14 / 10m

SAMPLE NUMBERS: PAN9044AA-10 SOIL S12381 ROCK: N32510

PANNING CONCENTRATE DESCRIPTION:

PS9044 AA-10 - Sample taken @ 10m in the sandy soil layer; light tan colour; mostly decomposed grains of granodiorite; quartz, remnant feldspar, biotite; minor magnetite; remnant pyrite; Average particle size: 20μm. Minor yellow and white fluorescent grains.

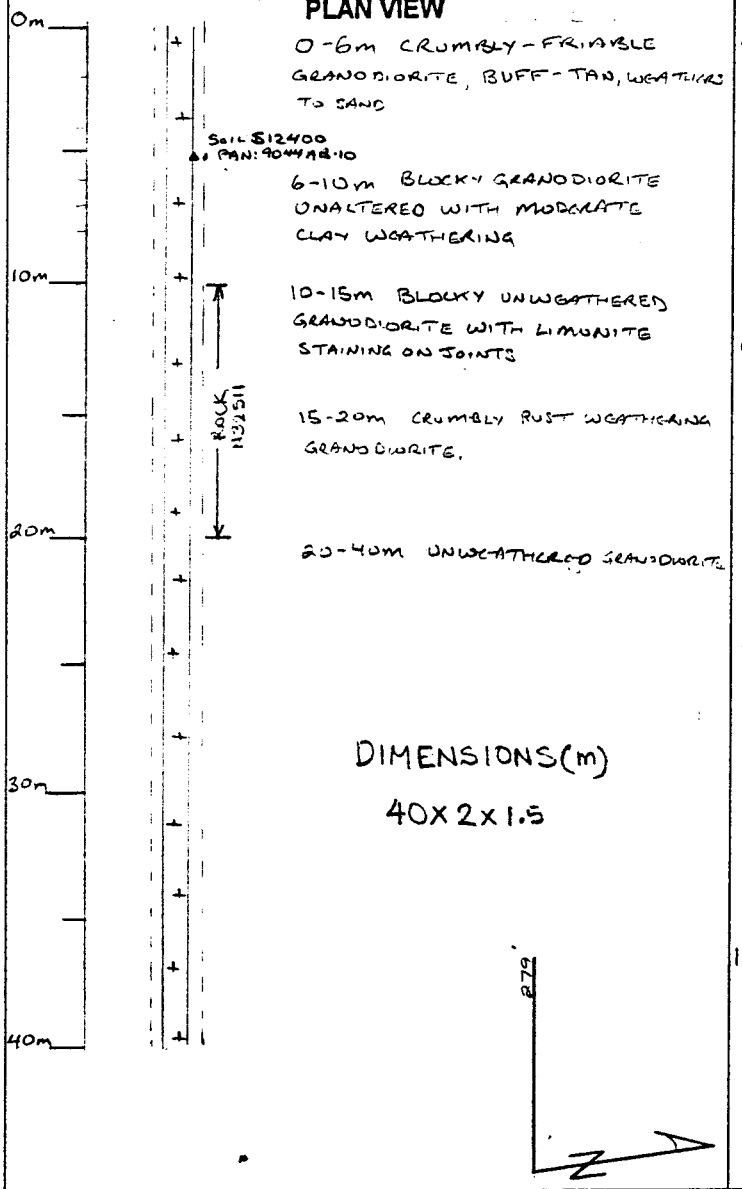
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9044
CREEK: AUSTIN
TYPE: BENCH

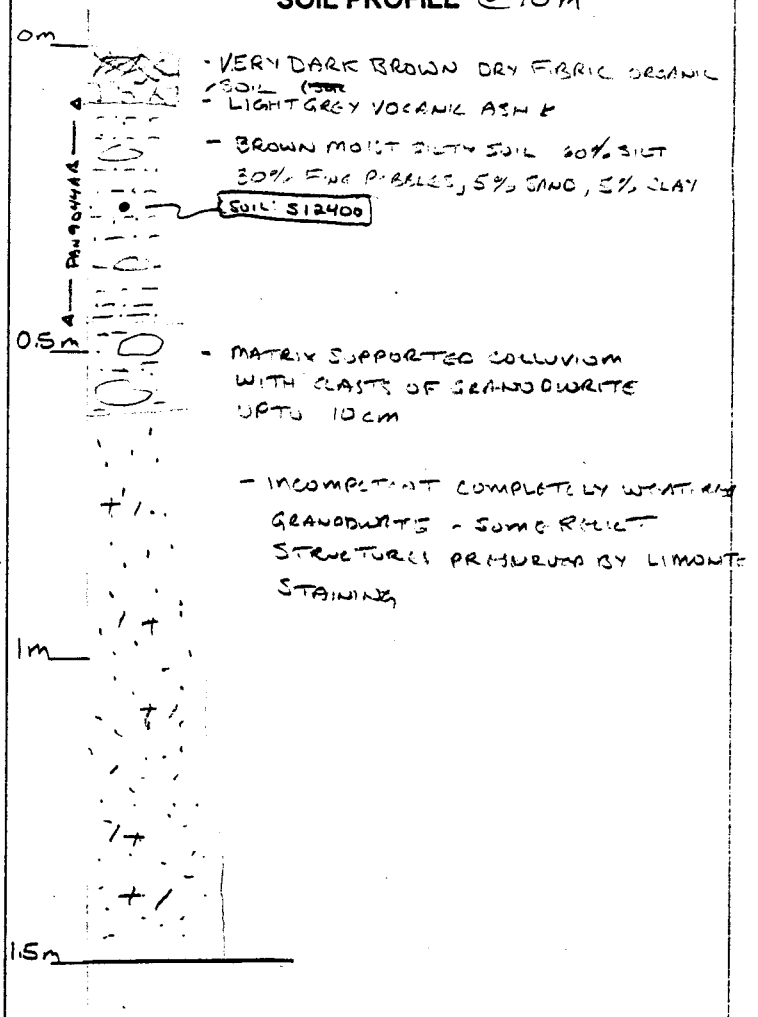
PIT NUMBER: 9044AB	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 1.5 hrs
EASTING:	EQUIPMENT COST: 1.5 @ $130/hr
STARTED: July 28/93	LABOUR COST: 2hrs @ $26.25/hr
FINISHED: August 8/93	TOTAL EXPENDITURE: $247.50

PLAN VIEW

Scale 1:300



SOIL PROFILE @ 10 m



Scale 1:12.5

COMMENTS: POOR PLACER MATERIAL

Soil S12400 21, <5, 2.16 Rock N32511 6, <5, 1.2/10m

SAMPLE NUMBERS: SOIL S12400, PAN: 9044AB-10 ROCK: N32511

PANNING CONCENTRATE DESCRIPTION:

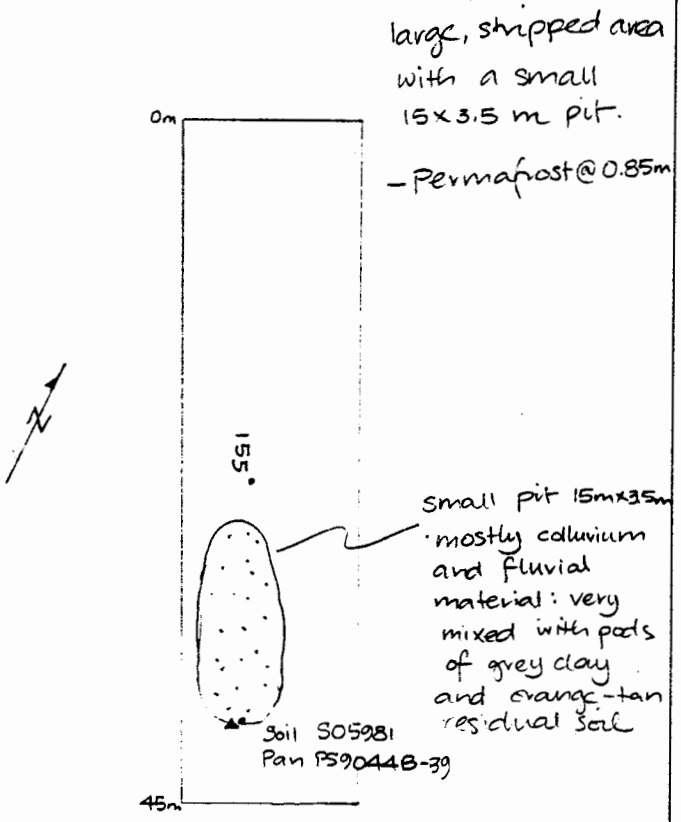
PS9044B-10 - sample taken @ 10m in the brown silty soil layer; light orange-tan colour; Mostly subangular quartz, remnant feldspar, biotite, magnetite; Minor hornblende. Average particle size: 30-40μm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9044
CREEK:	Austin
TYPE:	Bench

PIT NUMBER: 90443	EQUIPMENT TYPE: D7 Ripper ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7 : 1 hr ; hoe : 2 hrs.
EASTING:	EQUIPMENT COST: 1 @ $130/hr ; 2 @ $130/hr
STARTED: June 13, 1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: July 29, 1993	TOTAL EXPENDITURE: $442.50

PLAN VIEW



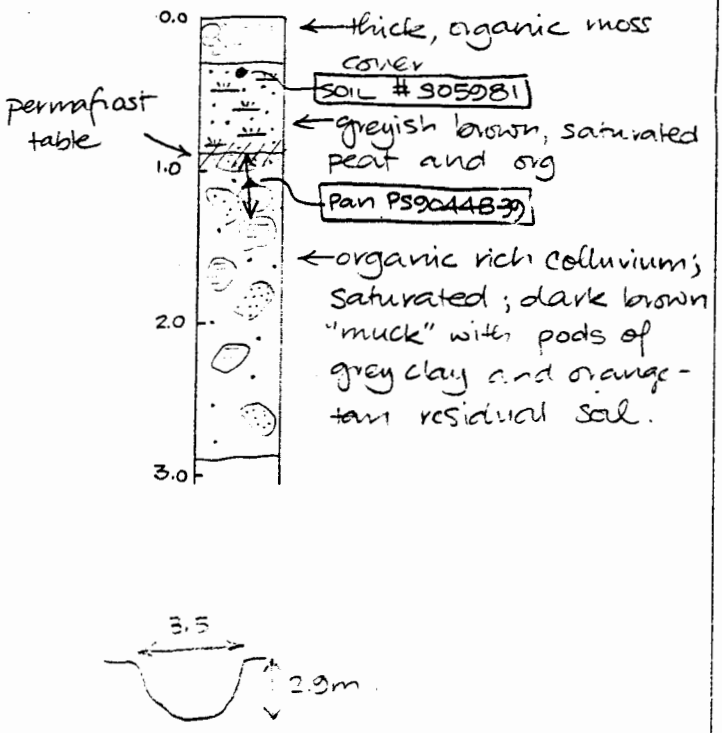
DIMENSIONS (m)

15 X 3.5 X 2.9

Scale: 1:500

SOIL PROFILE

* taken @ 38.5m



Scale: 1:50

COMMENTS: Permafrost table @ 0.85m; no bedrock exposed.

Soil S0.5981 23 <S, <1, 6

SAMPLE NUMBERS: Soil S05981 ; Pan PS9044B-39

PANNING CONCENTRATE DESCRIPTION:

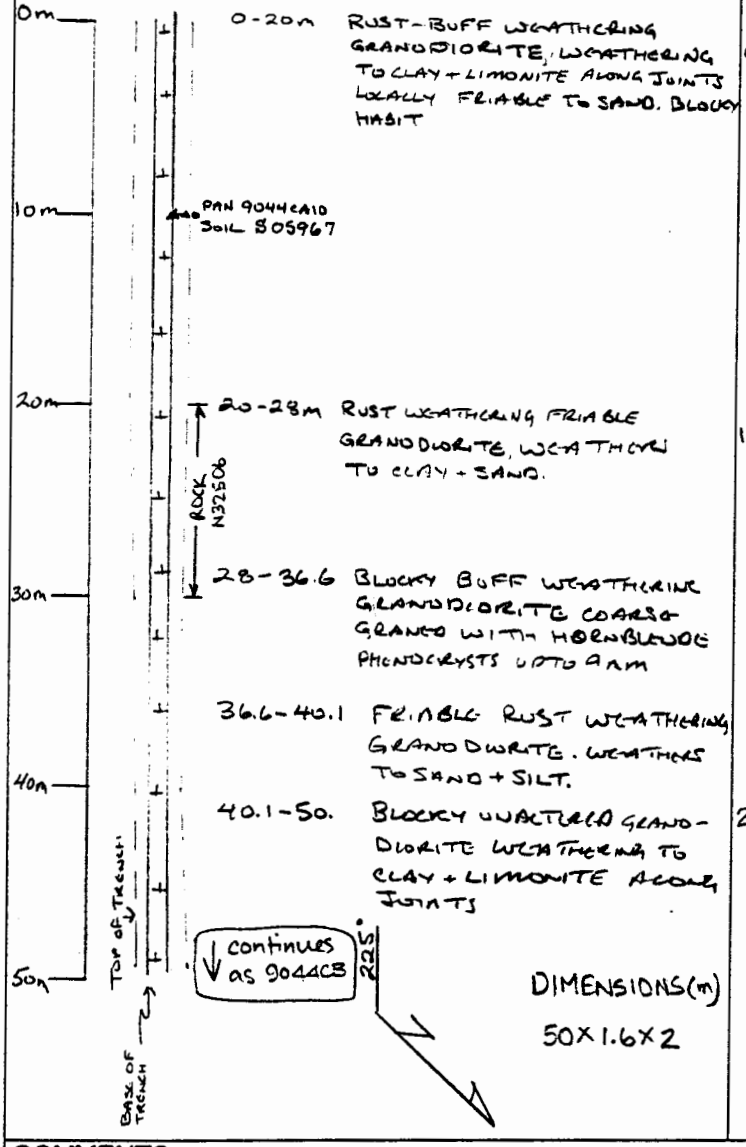
PS9044B-39 - Sample taken @ 39 meters in the upper part of the colluvium layer. orange-tan colour; Mostly remnant feldspar, quartz, minor hornblende, biotite. chlorite after both hornblende and biotite, magnetite; Average grain size: 30-40μm; Minor yellow fluorescent minerals.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

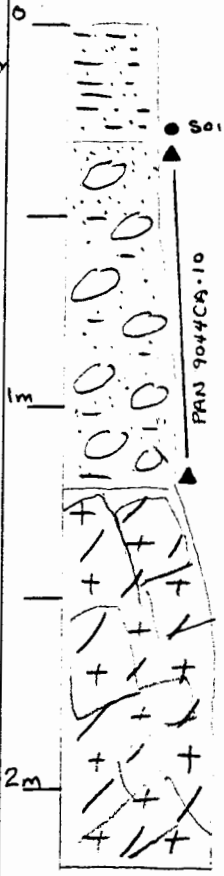
LEASE NO.: PL 9044
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044 CA	EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.25 hrs; hoe: 1 hr
EASTING:	EQUIPMENT COST: 1.25 @ $100/hr; 1 @ $130/hr
STARTED: July 30, 1993	LABOUR COST: 2 HRS @ 26.25
FINISHED: August 5, 1993	TOTAL EXPENDITURE: $307.50

PLAN VIEW SCALE: 1:400



SOIL PROFILE @ 10m



Scale: 1:20

COMMENTS:

Soil S05967 40, <5, 4, 14 Rock N32506 10, <5, 3, 2 /10m

SAMPLE NUMBERS: PAN 9044 CA-10 SOIL: S05967, ROCK: N32506

PANNING CONCENTRATE DESCRIPTION:

PS9044CA-10: Sample taken @ 10m in the dark brown colluvium layer; medium-grey-tan colour; Mostly magnetite, quartz, biotite, Minor hornblende. Average particle size: 20-25 μm. Minor yellow fluorescent grains

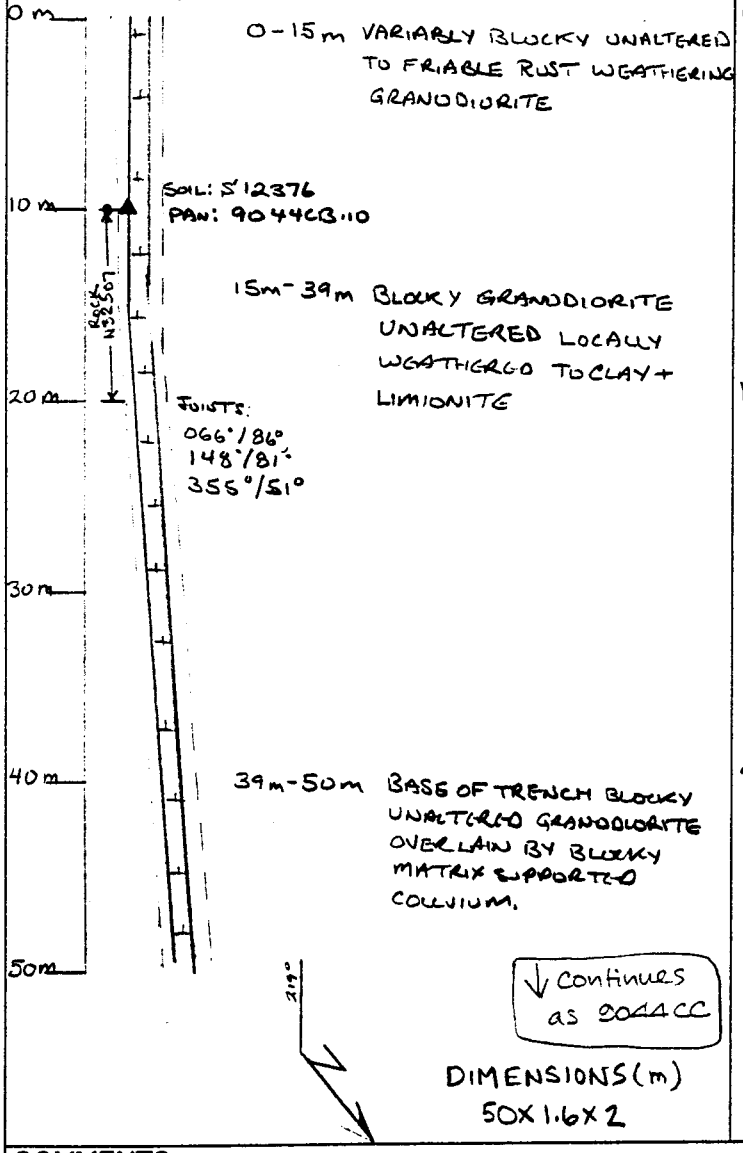
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 90444
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044CB	EQUIPMENT TYPE: Hitachi hoe; D6 Wide Track
NORTHING:	EQUIPMENT HOURS: hoe: 1hr; D6: 1.25 hr.
EASTING:	EQUIPMENT COST: 1 @ $130/hr; 1.25 @ $100/hr
STARTED: June 14, 1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 5, 1993	TOTAL EXPENDITURE: $307.50.

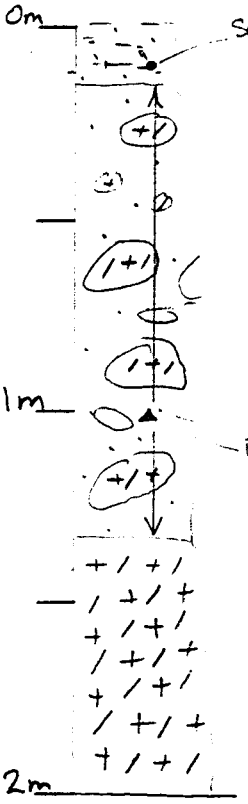
Continuation of ↑ 9044CA

PLAN VIEW SCALE: 1:400



DIMENSIONS (m)
50 X 1.6 X 2

SOIL PROFILE @ 10m



Scale 1:20

COMMENTS:

Soil S12376 16, <5, 2.6 Rock N32507 10, <5, 1, <2 /10m

SAMPLE NUMBERS: PAN: 9044CB-10, SOIL: S12376 ROCK N32507

PANNING CONCENTRATE DESCRIPTION:

PS9044CB-10 - Sample taken @ 10m in the med. to dark brown matrix supported colluvium layer; tan-grey colour; Mostly subangular grains of magnetite, garnet, Limonite, biotite; Minor muscovite. Moderate amounts of yellow fluorescent grains.

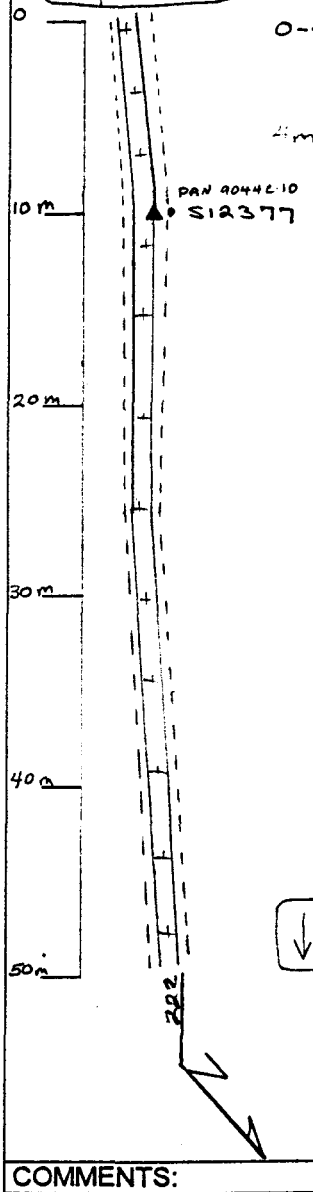
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9044
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044 CC	EQUIPMENT TYPE: D6 Wide Track ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.25 hrs ; hoe: 1 hr
EASTING:	EQUIPMENT COST: 1.25 @ $100/hr ; 1 @ $130/hr
STARTED: July 30, 1993	LABOUR COST: 2 hrs @ $26.50/hr
FINISHED: August 5, 1993	TOTAL EXPENDITURE: $307.50

continuation of ↑ 9044CB

PLAN VIEW SCALE: 1:400



0-50m BLOCKY UNWEATHERED GRANODIORITE WEATHERING TO CLAY + SAND. DISCONTINUOUS EXPOSURE

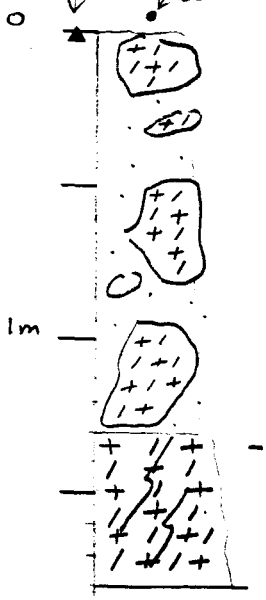
↓ continues as 9044CD

DIMENSIONS (m)

50 x 1.3 x 1.8

Pan PS9044CC-10 Soil S12377

SOIL PROFILE @ 10m



MATRIX SUPPORTED COLLUVIUM CLASTS UP TO 2m MATRIX COARSE SAND AND SILT DERIVED FROM RESIDUAL WEATHERING OF GRANODIORITE

- BLOCKY UNALTERED GRANODIORITE

Scale 1:25

COMMENTS:

Soil S12377 19, <5, 1.4

SAMPLE NUMBERS: SOIL S12377, PAN 9044CC-10

PANNING CONCENTRATE DESCRIPTION:

PS9044CC-10 - Sample taken @ 0m in the matrix-supported colluvium layer; orange-tan colour; Mostly subangular quartz, feldspar, biotite, hornblende, minor magnetite, muscovite. Average particle size: 20-30μm. Minor yellow fluorescent grains

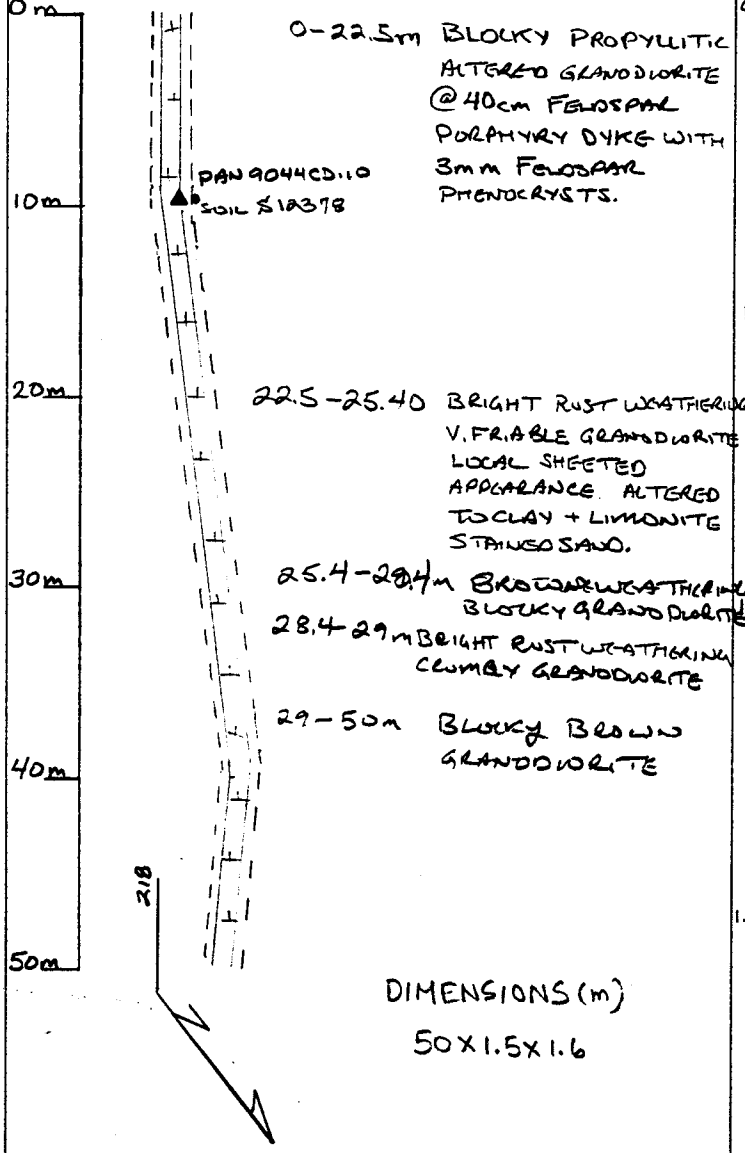
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9044
CREEK: AUSTIN
TYPE: BENCH

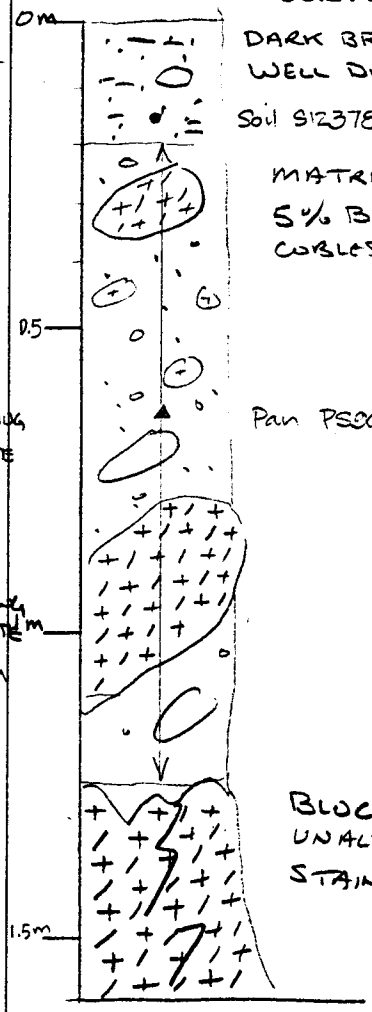
PIT NUMBER: 9044CD
NORTHING:
EASTING:
STARTED: July 30, 1993
FINISHED: August 5, 1993

EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6: 1.25 hrs ; hoe: 1 hr
EQUIPMENT COST: 1.25 @ $100/hr ; 1 @ $130/hr
LABOUR COST: 2 hrs @ $26.25/hr
TOTAL EXPENDITURE: $307.50

PLAN VIEW SCALE: 1:400



SOIL PROFILE @ 10m



Scale 1:12.5

COMMENTS:

Soil S12378 17, <5, 1, 4

SAMPLE NUMBERS: SOIL: S12378, PAN: 9044CD.10

PANNING CONCENTRATE DESCRIPTION:

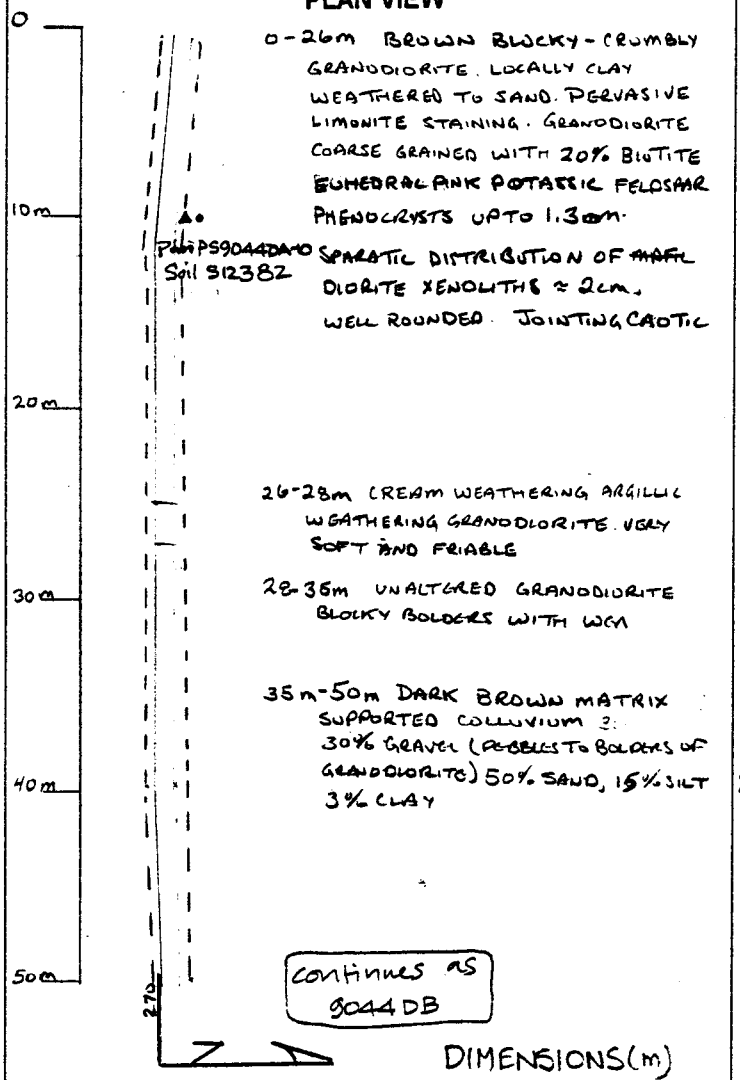
PS9044CD.10 - sample taken @ 10m in the colluvium layer; orange-grey colour; subangular grains of magnetite, quartz, feldspar, hornblende, biotite. Average particle size: 25μm. Minor yellow and blue fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9044
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044 DA	EQUIPMENT TYPE: D6 Wide Track, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.5 hr ; hoe: 1.0 hr.
EASTING:	EQUIPMENT COST: 0.5 @ $100/hr ; 1.0 x $130/hr
STARTED: July 30/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 11/93	TOTAL EXPENDITURE: $232.50

PLAN VIEW

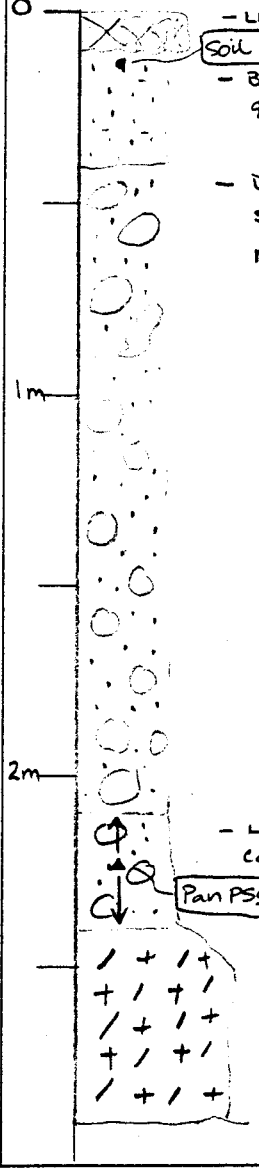


DIMENSIONS(m)
50 X 1.5 X 2.2

Scale 1:400

* taken @ 10m *

SOIL PROFILE



- LIGHT BROWN FIBRIC ORGANIC SOIL
- BROWN - SANDY SOIL WITH 90% SAND 9% SILT, 1% SILT
- DARK GREYISH BROWN MATRIX SUPPORTED COLLUVIUM, MOIST. MATRIX OF 30% SILT, 60% SAND, 7% PEBBLES, 3% CLAY CLASTS IRREGULAR FRAGMENTS OF GRANODIORITE (10cm - 30cm)
- LIGHT BROWN MATRIX SUPPORTED COLLUVIUM
- CRUMBLY, BUFF WEATHERING GRANODIORITE

Scale 1:20

COMMENTS:

Soil S12382 13, 10, <1, 14

SAMPLE NUMBERS: PAN: 9044-DA-10, SOIL: S12382

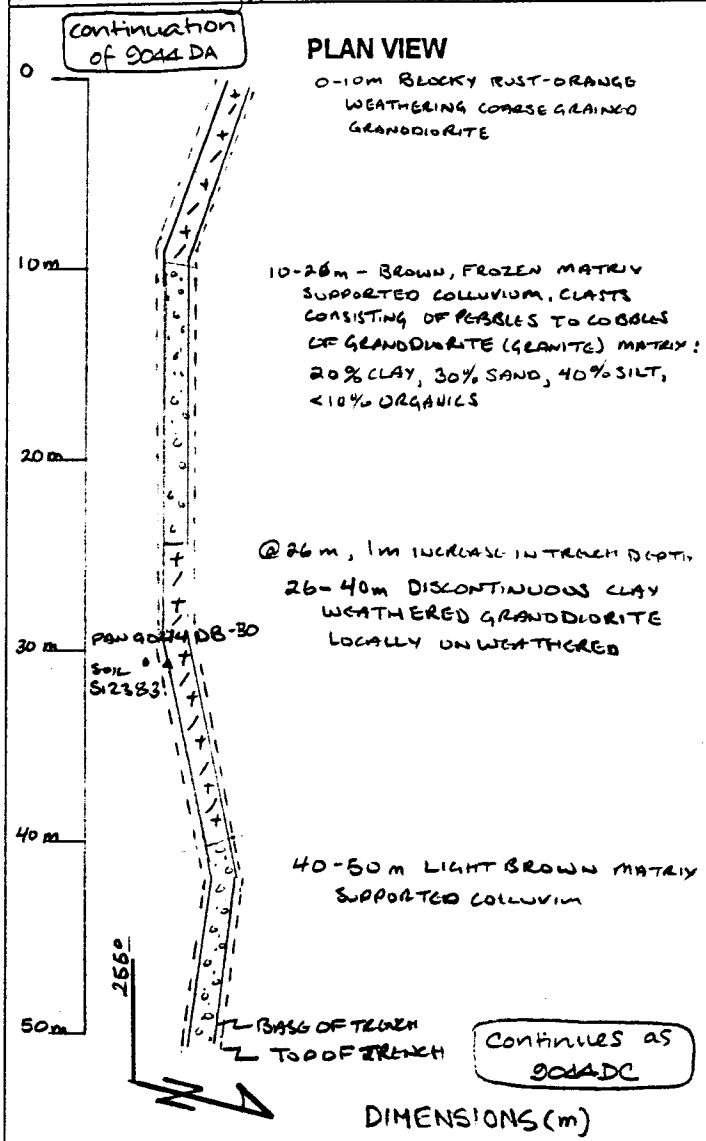
PANNING CONCENTRATE DESCRIPTION:

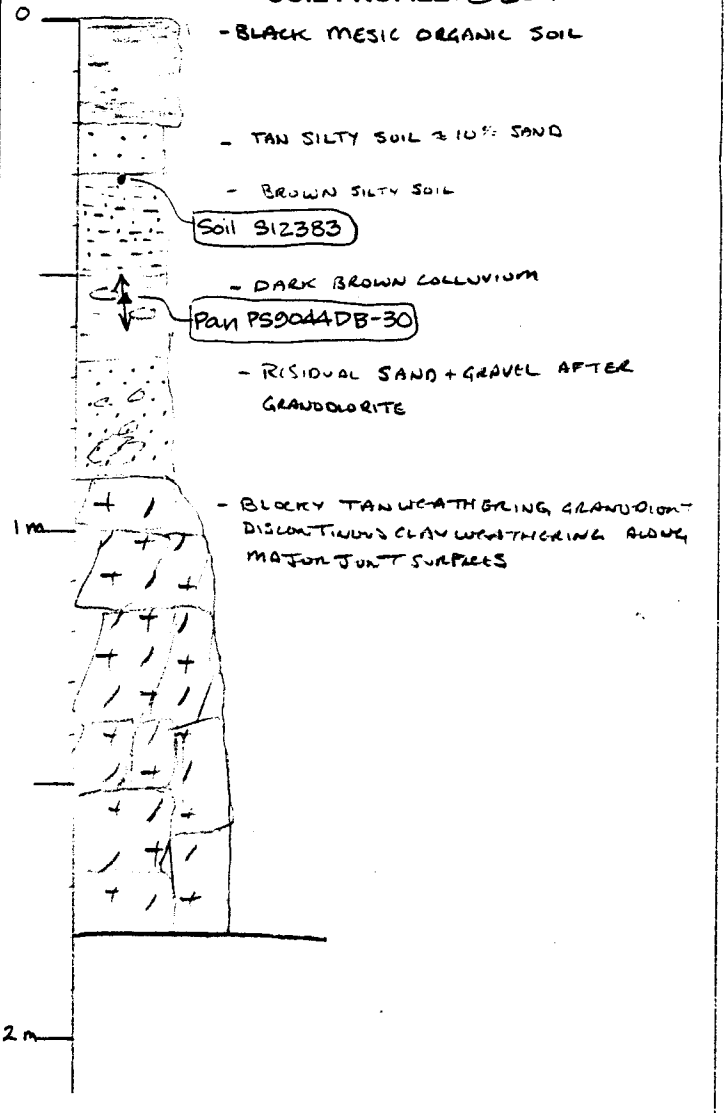
PS9044DA-10: Sample taken @ 10m in the light brown matrix supported colluvium layer; tan-grey colour; Mostly subangular grains of magnatite, quartz, feldspar; minor muscovite, hornblende and biotite. Average particle size: 10-15μm; minor blue and yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9044
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044 DB	EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.5 hr ; hoe: 1.0 hr
EASTING:	EQUIPMENT COST: 0.5 @ $100/hr ; 1.0 @ $130/hr
STARTED: July 30/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 11/93	TOTAL EXPENDITURE: $232.50





COMMENTS:

Soil S12383 11, <5, <1, 10

SAMPLE NUMBERS: PAN: 9044-DB-30 , SOIL: S12383

PANNING CONCENTRATE DESCRIPTION:

PS9044DB-30 – sample taken @ 30m in the dark brown colluvium layer; mostly magnetite, quartz, feldspar, hornblende. Average particle size: 20µm; particles are sub-rounded to sub-angular; tan-grey colour. Minor yellow and blue fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

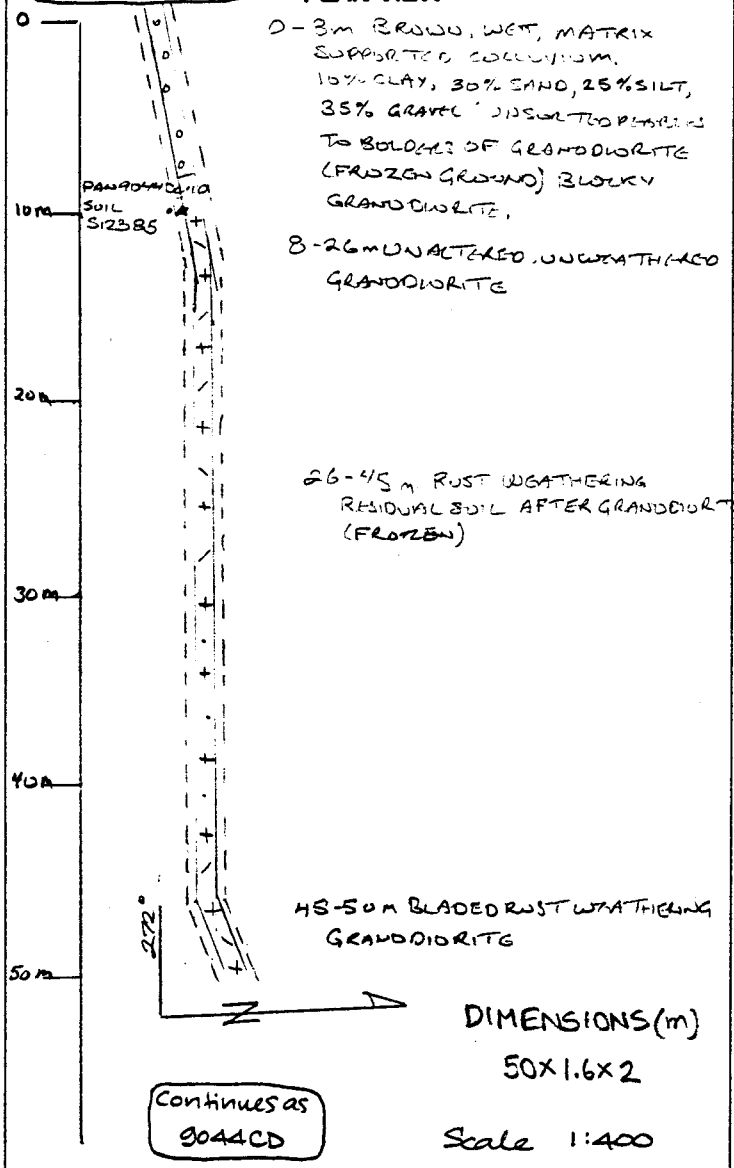
LEASE NO.: PL9044
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044-DC
NORTHING:
EASTING:
STARTED: July 30/93
FINISHED: August 11/93

EQUIPMENT TYPE: D6 Wide Track, Hitachi Hoe
EQUIPMENT HOURS: D6: 0.5hr ; hoe: 1.25 hr
EQUIPMENT COST: 0.5 @ $100/hr ; 1.25 @ $130/hr
LABOUR COST: 2 hrs @ $26.25/hr
TOTAL EXPENDITURE: $265.00

continuation of 9044DB

PLAN VIEW



0-3m BROWN, WET, MATRIX SUPPORTED COLLUVIUM, 10% CLAY, 30% SAND, 25% SILT, 35% GRAVEL UNSORTED ANGULAR TO BOULDERS OF GRANODIORITE (FROZEN GROUND) BLOCKY GRANODIORITE,

8-26m UNALTERED, UNWEATHERED GRANODIORITE

26-45m RUST WEATHERING RESIDUAL SOIL AFTER GRANODIORITE (FROZEN)

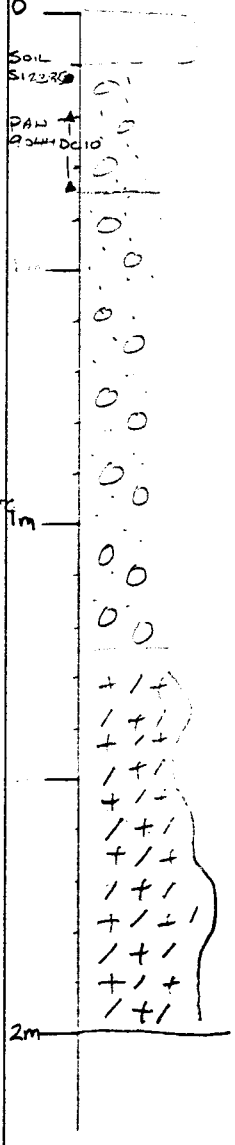
45-50m BLADED RUST WEATHERING GRANODIORITE

DIMENSIONS(m)
50 x 1.6 x 2

Continues as 9044CD

Scale 1:400

SOIL PROFILE @ 10m



- BLACK MESIC ORGANIC, MOIST SOIL
- LIGHT BROWN MATRIX SUPPORTED COLLUVIUM MATRIX 30% SAND 10% CLAY, 40% SILT, 20% PEBBLES
- UNALTERED, UNWEATHERED GRANODIORITE

Scale 1:15

COMMENTS:

Soil S12385 17.<5, 1.8

SAMPLE NUMBERS: PAN: 9044 DC-10, SOIL: S12385

PANNING CONCENTRATE DESCRIPTION:

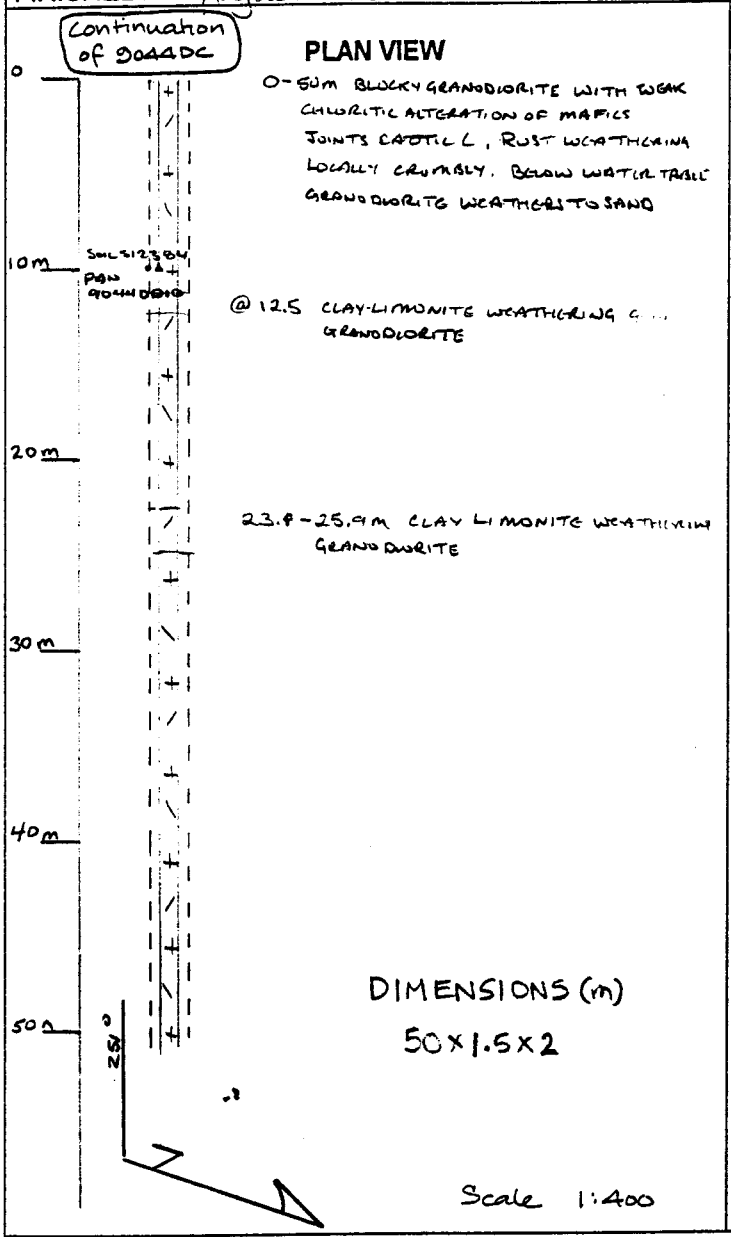
PS9044DC-10: sample taken @ 10m in the colluvium layer; tan-grey colour; mostly subangular grains of quartz, magnetite; Minor feldspar and biotite Average particle size: 30µm. Minor fluorescent yellow and blue grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

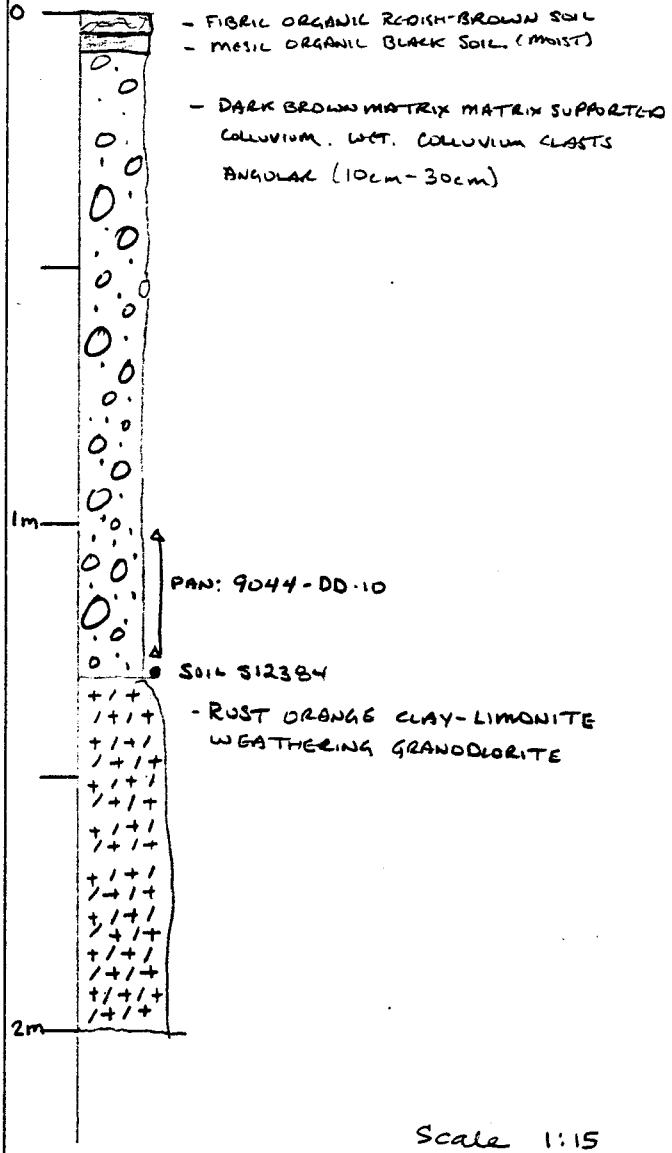
LEASE NO.: PL 9044
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9044-DD	EQUIPMENT TYPE: D6 Wide Track, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.5 hr ; hoe: 1.25 hr
EASTING:	EQUIPMENT COST: 0.5 @ $100/hr; 1.25 @ $130/hr
STARTED: July 30/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 11/93	TOTAL EXPENDITURE: $265.00

PLAN VIEW



SOIL PROFILE @ 10m



COMMENTS:

Soil S12384 11,55, 61,12

SAMPLE NUMBERS: PAN: 9044-DD-10 , SOIL S12384

PANNING CONCENTRATE DESCRIPTION:

PS9044DD-10- Sample taken @ 10m in the lower part of the colluvium layer; Mostly sub-angular to sub-rounded grains of magnetite, quartz, minor feldspar, biotite and hornblende. Average particle size 15-20mm; tan-grey colour; Minor amounts of fluorescent yellow and blue grains.

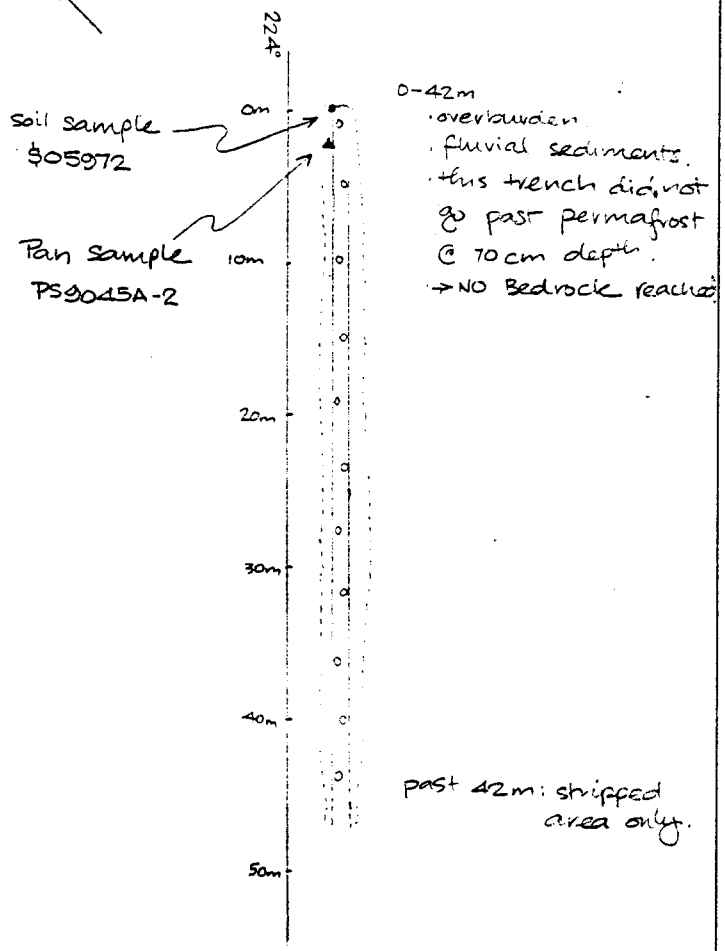
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9045
CREEK:	Brynelsen Creek
TYPE:	Bench.

PIT NUMBER: 9045A	EQUIPMENT TYPE: HITACHI HOE; D6 WIDE TRACK
NORTHING:	EQUIPMENT HOURS: Hoe: 6 hrs ; D6: 2 hrs.
EASTING:	EQUIPMENT COST: 6 hrs @ $130/hr; 2hrs @ $100/hr
STARTED: June 25/93	LABOUR COST: 1 hr @ $26.25
FINISHED: July 24/93	TOTAL EXPENDITURE: $1006.25

PLAN VIEW

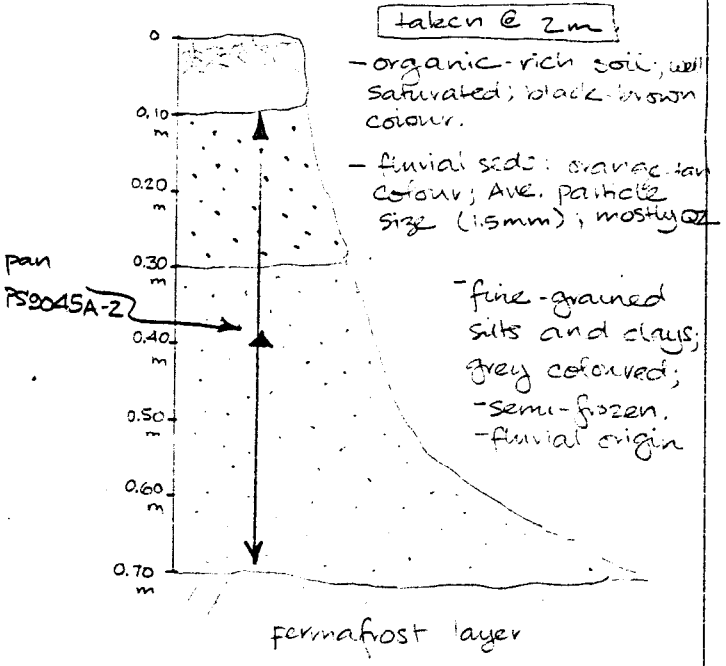
Scale: 1:500

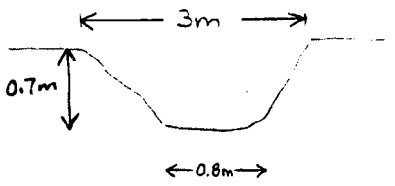


DIMENCION (m)

42 X 1.9 X 0.7

SOIL PROFILE





Scale: 1:25

COMMENTS: No Bedrock Exposed; Permafrost table @ 0.70 m.

Soil S05972 14,5, <1.6

SAMPLE NUMBERS: Pan: PS9045A-2; Soil: S05972

PANNING CONCENTRATE DESCRIPTION:

PS9045A-2 - Sample taken @ 2m in the fluvial sediment layers; pale orange-tan colour. Mostly angular to subangular Quartz, Minor biotite and magnetite; Average grain size: 50-55μm.

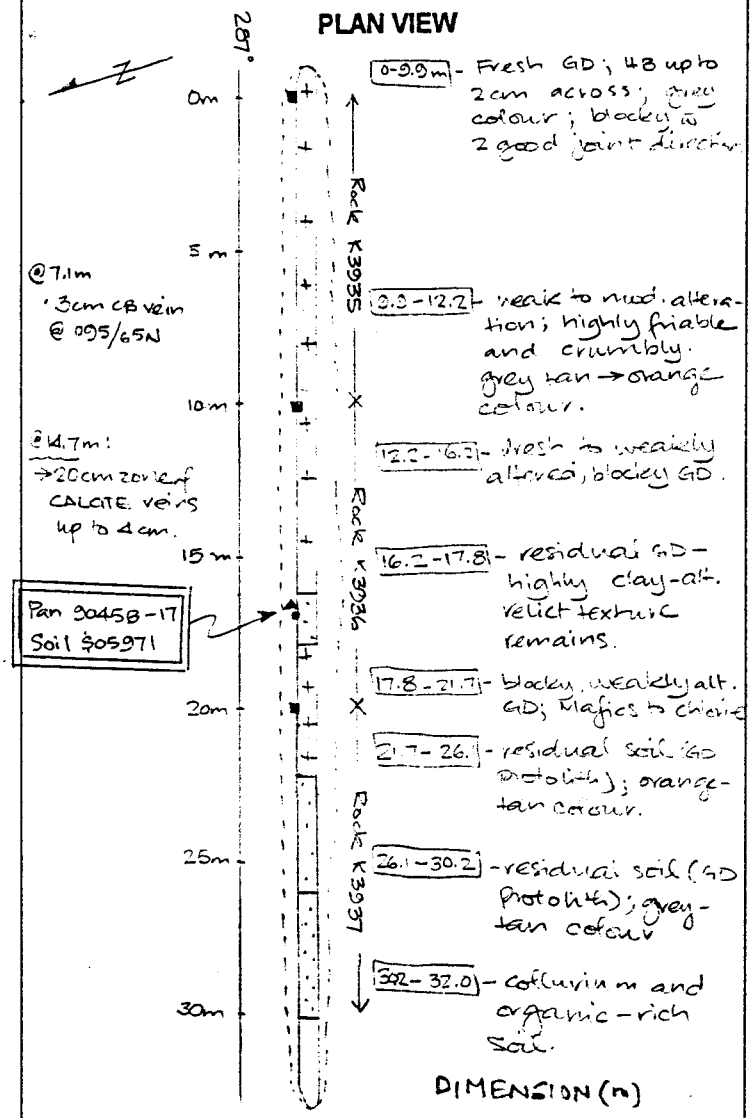
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	3045
CREEK:	Brunelsen
TYPE:	Bench

PIT NUMBER:	3045 B
NORTHING:	
EASTING:	
STARTED:	June 7/93
FINISHED:	July 24/93

EQUIPMENT TYPE:	HITACHI HOE; D7 RIPPER
EQUIPMENT HOURS:	Hoe: 4hrs ; D7 : 4.5 hrs.
EQUIPMENT COST:	4 hrs @ $130/hr ; 4.5 hrs @ $130/hr
LABOUR COST:	3 hrs @ $26.25/hr.
TOTAL EXPENDITURE:	$1183.75

PLAN VIEW



DIMENSION (m)

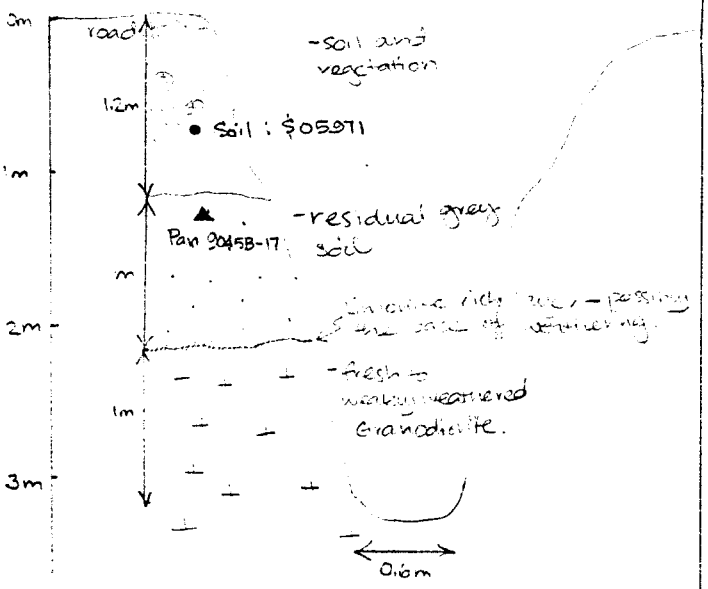
32X1.5X3.2

Scale: 1:250

SOIL PROFILE

Scale: 1:50

taken @ 17m.



COMMENTS:

			Rock	K3935	67, <5, 1, <2 / 10m
Soil	$05971	33, <5, <1.6		K3936	12, <5, <1, <2 / 10m
				K3937	9, <5, 1, <2 / 10m

SAMPLE NUMBERS: Pan 3045B-17; Soil $05971 ; Rock: K3935 - K3937 incl.

PANNING CONCENTRATE DESCRIPTION:

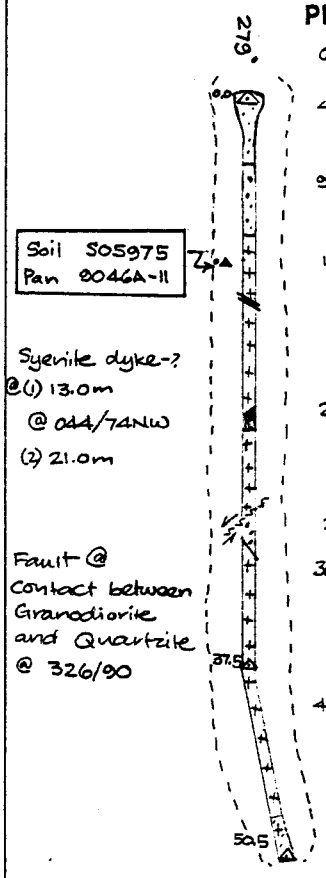
PS 3045B-17 - Sample taken @ 17m in the residual grey soil; pale tan-grey colour. Mostly subangular Quartz and biotite. Minor magnetite and remnant feldspar. Average particle size: 50-60 mm. Minor bluish-white fluorescent particles.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9046
CREEK:	Austin
TYPE:	Bench.

PIT NUMBER: 9046A	EQUIPMENT TYPE: HITACHI 40E; D7 RIPPER
NORTHING:	EQUIPMENT HOURS: HOE: 5hrs; D7 - 5hrs.
EASTING:	EQUIPMENT COST: 5 @ $130/hr; 5 @ $130/hr
STARTED: June 10/93	LABOUR COST: 4.5 hrs @ $26.25/hr
FINISHED: July 26/93	TOTAL EXPENDITURE: $1418.13

PLAN VIEW



0-4.6m - OVERBURDEN - soil and organics

4.6-9.4 - Residual soil of Granodiorite protolith; tan brown, friable

9.4-13.0 - Blocky Granodiorite - mixed with residual soil; friable.

13.0-24.8 - blocky, well jointed Granodiorite - some zones are mixed granodiorite and residual soil;

24.8-27.5 - rubbly Granodiorite; highly friable; textures preserved; chlorite along fractures.

27.5-30.4 - Quartzite

30.4-44.3 - blocky Granodiorite - soft and friable in places; relict texture is preserved

44.3-50.5 - residual soil; highly friable; Granodiorite protolith.

DIMENSIONS (m)
50.5 X 3.5 X 4

SURVEY DATA:

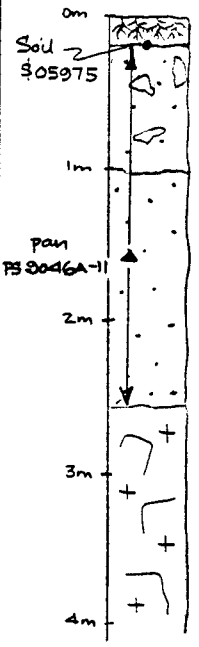
From	To	Orientation
0.0	37.5	279°
37.5	50.5	268°

From	To	Inclination
0.0	8.7	-29°
8.7	37.5	-7°
37.5	50.5	+12°

Scale: 1:500

SOIL PROFILE

* taken @ 11m *

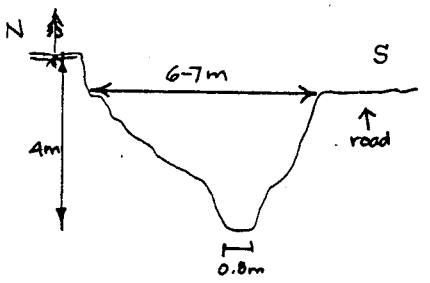


organic rich soil / colluvium. brown colour

← Light grey-tan-brown colluvium poorly sorted with fragments of granodiorite up to 30cm.

← residual soil of Granodiorite origin; orange-tan colour, extremely friable

← blocky Granodiorite mixed with up to 20% residual soil; Limonite on fractures; tan-brown colour.



Scale: 1:50

COMMENTS: No rock samples taken.

Soil S05975 37, <5, <1, 6

SAMPLE NUMBERS: Pan: PS9046A-11 ; Soil: S05975

PANNING CONCENTRATE DESCRIPTION:

PS9046A-11 - Sample taken @ 11m across the colluvium and residual soil layers; orange-tan colour; Decomposed Granodiorite - mostly sub-angular quartz, biotite. Minor remnant feldspar. Average particle size: 20μm

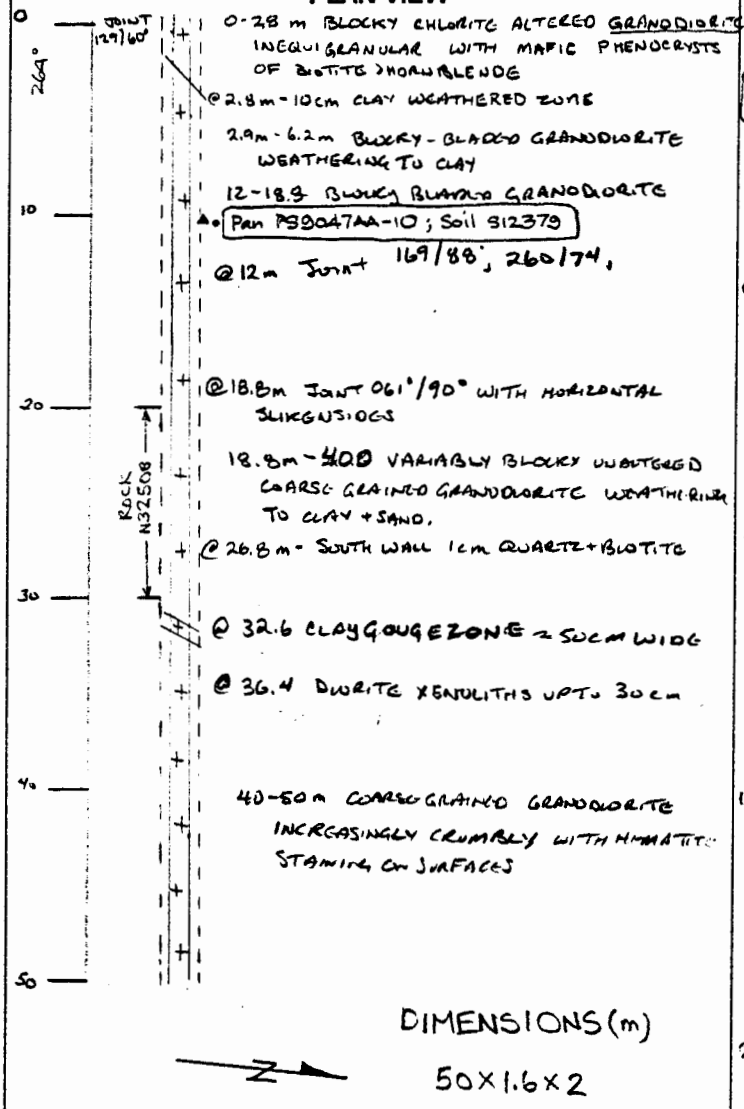
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9047
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9047AA	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 3.5 hrs
EASTING:	EQUIPMENT COST: 3.5 @ $130/hr
STARTED: June 13, 1993	LABOUR COST: 2.5 hrs @ $26.25/hr
FINISHED: August 8, 1993	TOTAL EXPENDITURE: $520.63

SCALE: 1:400

PLAN VIEW

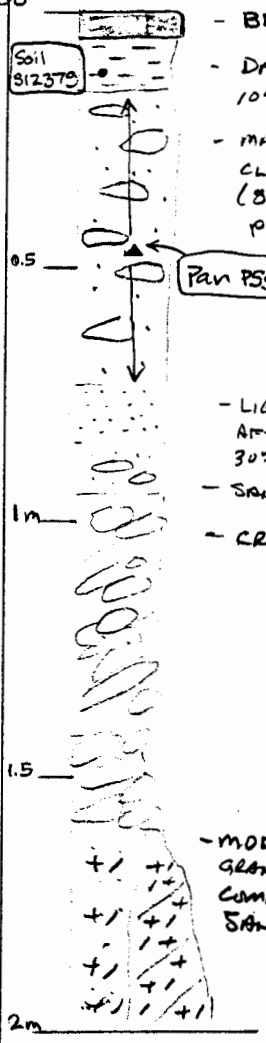


DIMENSIONS (m)

50 × 1.6 × 2

taken @ 10m

SOIL PROFILE



Scale 1:15

COMMENTS:

Soil S12379 20, 15, 1, 10 Rock N32508 11, <5, 6, 6, /10m

SAMPLE NUMBERS: Soil: S12379; Pan: PS9047AA-10 ROCK: N32508

PANNING CONCENTRATE DESCRIPTION:

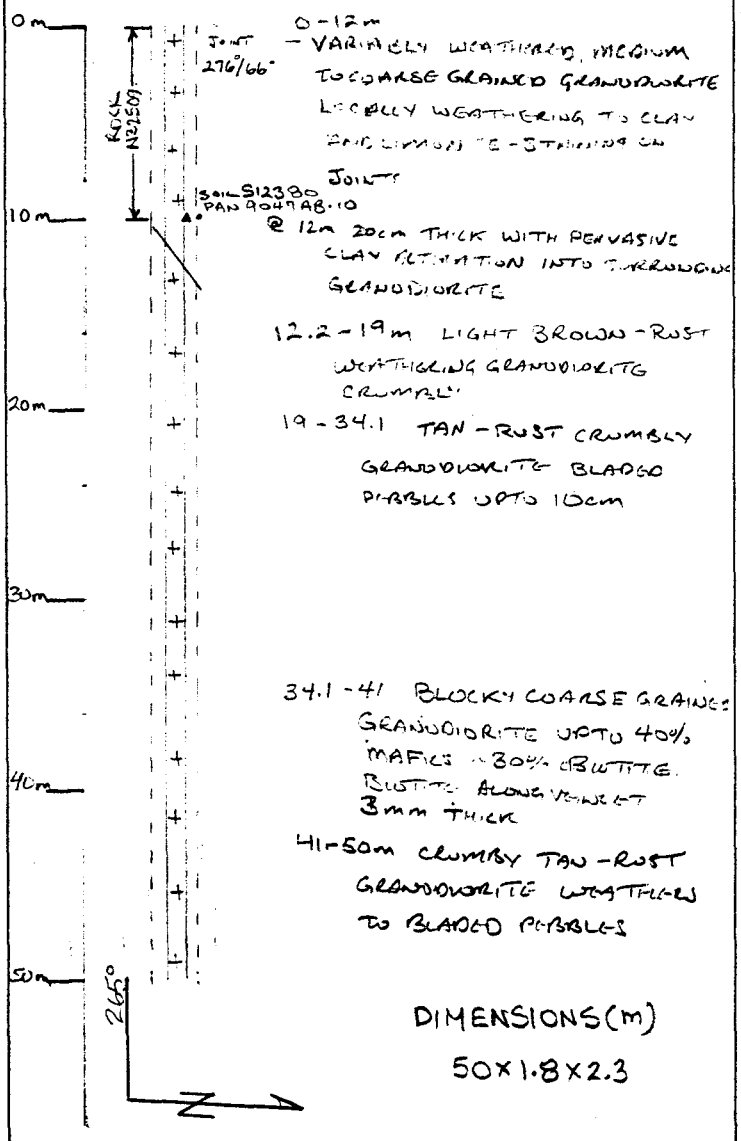
PS9047AA-10 - sample taken @ 0m in the matrix supported colluvium layer; orange-tan colour; moistm subangular quartz, remnant feldspar, biotite, Minor magnetite and hornblende. Average particle size: 20-25 mm. Miner yellow fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

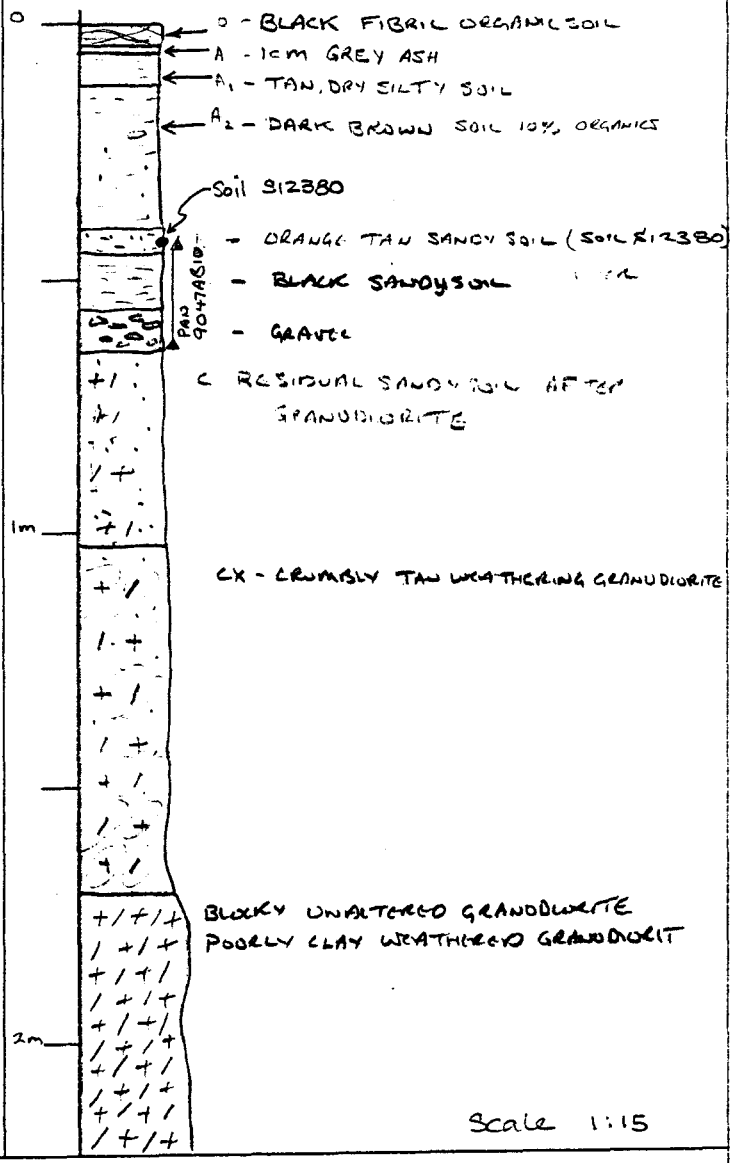
LEASE NO.: PL 9047
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9047-AB	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: hoe: 4 hrs
EASTING:	EQUIPMENT COST: 4 hrs @ $130/hr
STARTED: June 13/93	LABOUR COST: 2.5 hrs @ $26.25
FINISHED: August 8/93	TOTAL EXPENDITURE: $585.63

PLAN VIEW SCALE 1:400



SOIL PROFILE @ 10m



COMMENTS: LITTLE SUITABLE MATERIAL FOR PLACER

Soil S12380 29, <5, 8, 18 Rock N32509 8, <5, 2.6 / 10m

SAMPLE NUMBERS: SOIL S12380, PAN: 9047 AB-10 ROCK: N32509

PANNING CONCENTRATE DESCRIPTION:

PS9047AB-10: Sample taken @ 10m in the sandy soils and gravel layers. orange-grey colour; Mostly subangular to subrounded grains of quartz, feldspar, biotite, minor magnetite and muscovite. Average particle size: 30µm. Minor yellow fluorescent grains

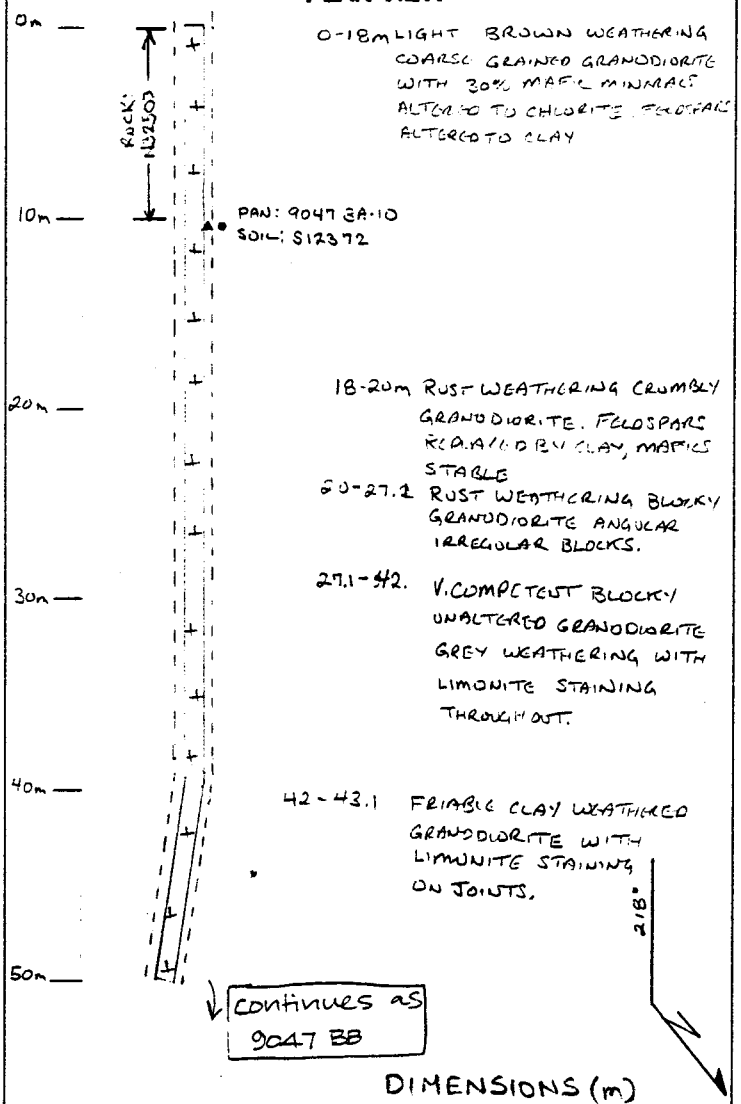
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9047
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9047 BA	EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 0.75 hrs; hoe: 2.50 hrs
EASTING:	EQUIPMENT COST: 0.75 @ $100/hr; 2.5 @ $130/hr
STARTED: July 30/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 3/93	TOTAL EXPENDITURE: $452.50

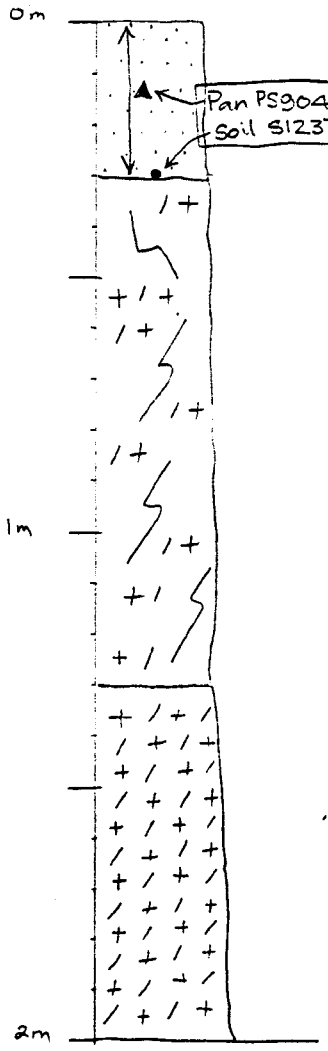
SCALE: 1:400

PLAN VIEW



DIMENSIONS (m)
50 x 1.5 x 2

SOIL PROFILE @ 10m



Scale: 1:15

COMMENTS:

Soil S12372 21, <5, 11, 8 Rock N32503 6, <5, 4, <2 / 10m

SAMPLE NUMBERS: SOIL: S12372 PAN: 9047BA-10 ROCK: N32503

PANNING CONCENTRATE DESCRIPTION:

9047-BA-10 COARSE FRACTION: ANGULAR GRANODIORITE PEBBLES
FINE FRACTION: FINE TO MEDIUM SAND 2% MAGNETITE, 1% BIOTITE
80% QUARTZ 7% GRANODIORITE FRAGMENTS, 1% FELDSPAR

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

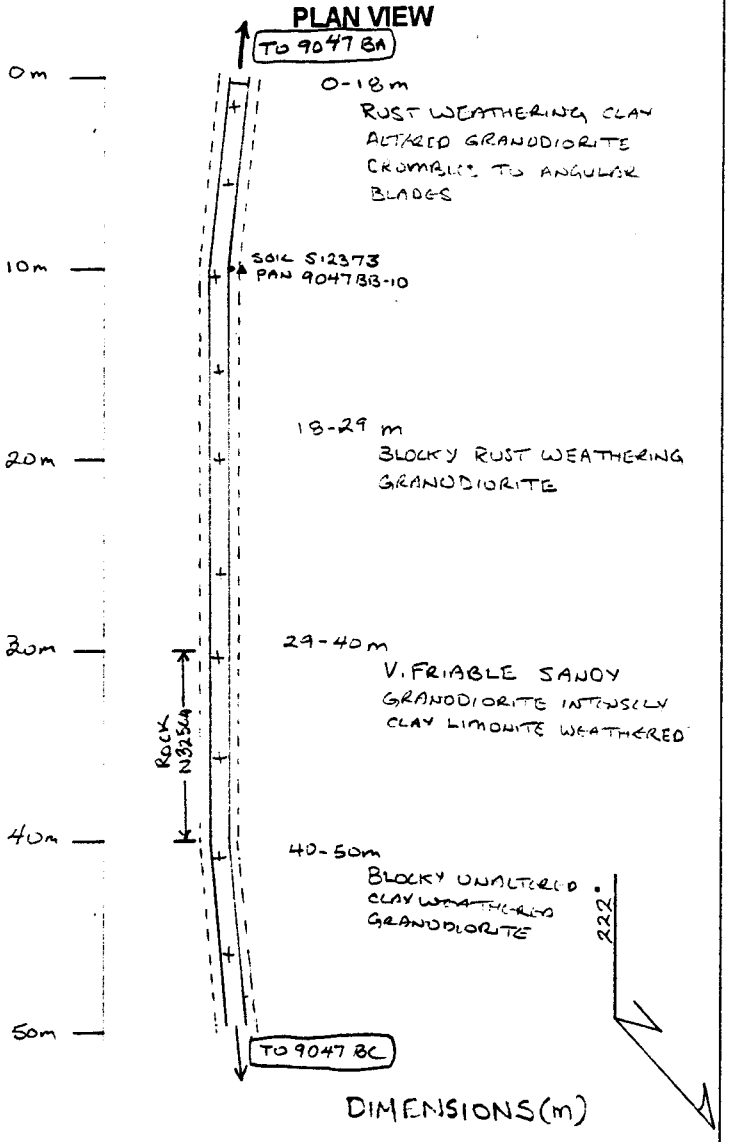
LEASE NO.: PL 9047
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9047 BB
NORTHING:
EASTING:
STARTED: July 30/93
FINISHED: August 3/93

EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
EQUIPMENT HOURS: D6 : 0.75 hr ; hoe : 2.5 hr
EQUIPMENT COST: 0.75 @ $100/hr ; 2.5 @ $130/hr
LABOUR COST: 2 hrs @ $26.25/hr
TOTAL EXPENDITURE: $452.50

SCALE: 1:400

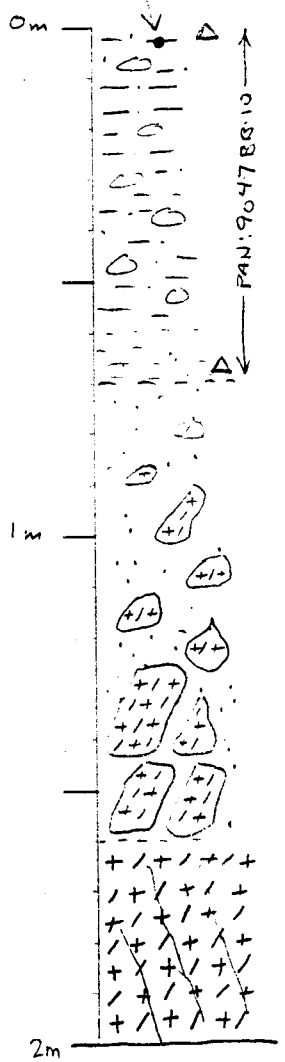
PLAN VIEW



DIMENSIONS(m)
50 x 1.5 x 2

Soil S12373

SOIL PROFILE @10m



DARK BROWN COLLUVIUM
70% SILT, 15% SAND, 10% GRAVEL
5% CLAY

COARSENING DOWNWARD RESIDUAL SOIL

BLOCKY - CRUMBLY RUST WEATHERING GRANODIORITE

Scale 1:5

COMMENTS:

Soil S12373 14, <5, 1.8 Rock N32504 24, <5, 2.4 /10m

SAMPLE NUMBERS: SOIL: S12373, PAN 9047 BB-10 ROCK: N32504

PANNING CONCENTRATE DESCRIPTION:

9047 BB-10 COARSE FRACTION: ANGULAR PEBBLES OF GRANODIORITE
FINE FRACTION: COARSE TO FINE SAND <0.5% MAGNETITE + HEMATITE
70% QUARTZ, 20% BIOTITE, 10% MICROFRAGMENTS (SAND) OF GRANODIORITE.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

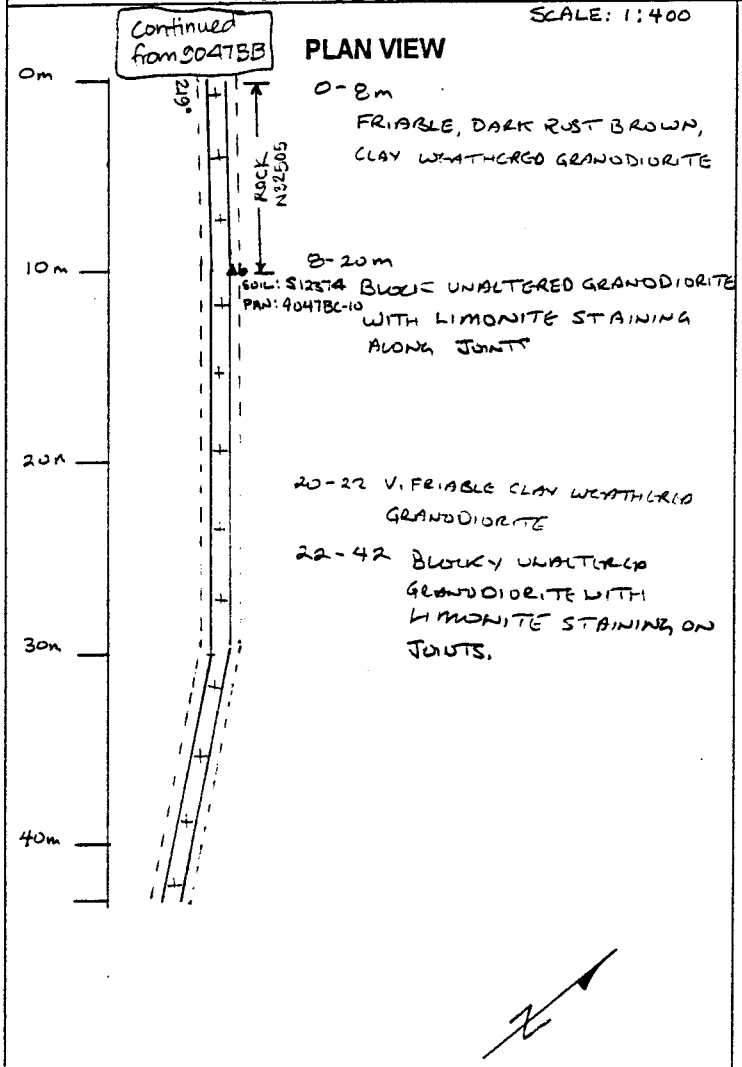
LEASE NO.: PL 9047
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9047 BC
NORTHING:
EASTING:
STARTED: July 30/93
FINISHED: August 3/93

EQUIPMENT TYPE: D6 Wide Track ; Hitachi Hoe
EQUIPMENT HOURS: D6: 0.5hr ; hoe: 3 hr
EQUIPMENT COST: 0.5 @ $100/hr ; 3 @ $130/hr
LABOUR COST: 2 hrs @ $26.25/hr
TOTAL EXPENDITURE: $492.50

SCALE: 1:400

PLAN VIEW



0-8m FRIABLE, DARK RUST BROWN, CLAY WEATHERED GRANODIORITE

8-20m BLOCKY UNALTERED GRANODIORITE WITH LIMONITE STAINING ALONG JOINTS

20-22 V. FRIABLE CLAY WEATHERED GRANODIORITE

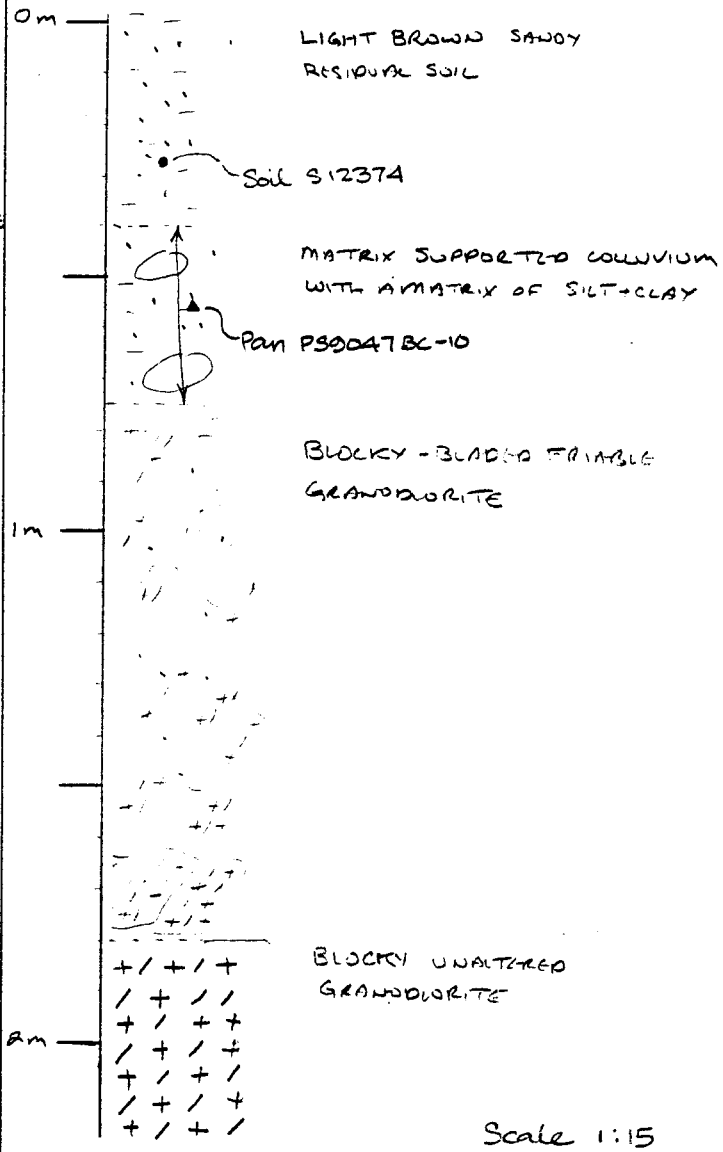
22-42 BLOCKY UNALTERED GRANODIORITE WITH LIMONITE STAINING ON JOINTS.

DIMENSIONS (m)

42 x 1.6 x 2.2

* taken @ 10m *

SOIL PROFILE



Scale 1:15

COMMENTS:

Soil S12374 34.<5 4.6 Rock N32505 15.<5.5 4 /10m

SAMPLE NUMBERS: Soil: S12374 ; Pan: PS9047BC-10 ROCK N32505

PANNING CONCENTRATE DESCRIPTION:

9047BC-10 COARSE FRACTION: ANGULAR GRANODIORITE FRAGMENTS.
FINE FRACTION: 85% QUARTZ SAND 10.5% ~~MAGS~~ MAGNETITE + ILMENITE
1½ BIOTITE, 12% SAND SIZED GRANODIORITE FRAGMENTS
(BIOTITE + QUARTZ) - PAN COARSE TO FINE SAND.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9048
CREEK: Trib of Brynelsen
TYPE: Creek

PIT NUMBER: 9048-A	EQUIPMENT TYPE: D6 WIDE TRACK
NORTHING:	EQUIPMENT HOURS: D6: 10 hrs.
EASTING:	EQUIPMENT COST: 1C @ $100/hr
STARTED: July 22/1993	LABOUR COST: 3 hrs @ $26.25/hr
FINISHED: July 22/1993	TOTAL EXPENDITURE: $1078.75

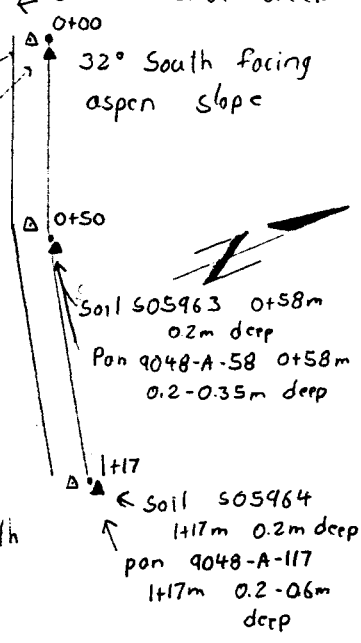
Survey Data

From	To	Stk	Dip
0	50	117°	-7°
50	117	103°	-4°

Soil S05962 0.25m deep
Pan 9048A-0 0.25-0.8m deep

- deep trench but poor exposure since most of trench appears to be colluvium / decomposed bedrock
- most fragments in colluvium appear to be granodiorite with very minor quartzite

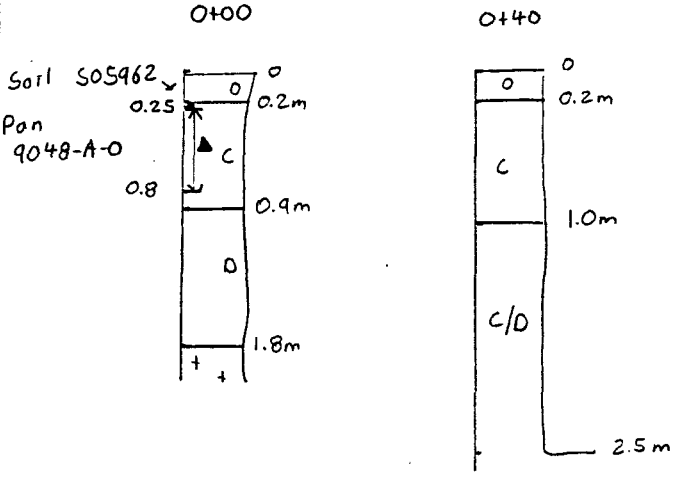
PLAN VIEW 1:2000



DIMENSION (m)

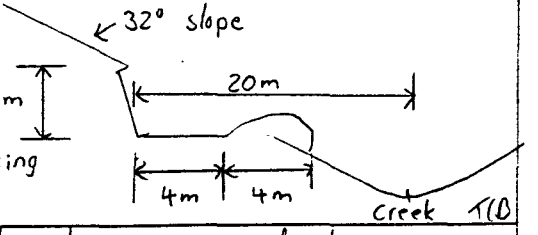
117 x 8 x 2

SOIL PROFILE 1:50



O - organics, 10-20cm of good brown / black organics, roots upto 2m into soil
C - colluvium, light grey. high mica content 40-60% weakly weathered angular rock
C/O - appears to be a mixture of colluvium and decomposed bedrock
O - decomposed bedrock, with clay and sand between rock fragments
+ + - bedrock.

Typical Cross-Section



- sections looking southeast

COMMENTS: no water or seeps, no glacial fluvial material, no permafrost

Soil	S05962	49	<5	41	12
	S05963	66	<5	6	18
	S05964	59	<5	1	18

SAMPLE NUMBERS: (S05962-64) - soil (9048-A-0; -58; -117) pan

PANNING CONCENTRATE DESCRIPTION:

PS9048A-0: taken from colluvium layer @ 0m; decomposed granodiorite: mostly Qz and mafics(BI>HB), remnant, semi-decomposed feldspar; tan-grey colour; Ave particle size: 10µm. minor MG

PS9048A-58 - sample taken @ 58m; orange-grey colour; Quartz, biotite, remnant feldspar, May be remnant granodiorite or Yukon Meta^m gneiss; Ave. particle size: 30µm. Minor magnetite Minor blue fluorescent minerals - possibly scheelite

PS9048A-117 - sample taken @ 117m; med-dark orange-grey colour; decomposed "young" granodiorite: Qz, BI, remnant Py, minor Magnetite. Ave. particle size: 30µm. Minor blue fluorescent grains - possibly scheelite.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

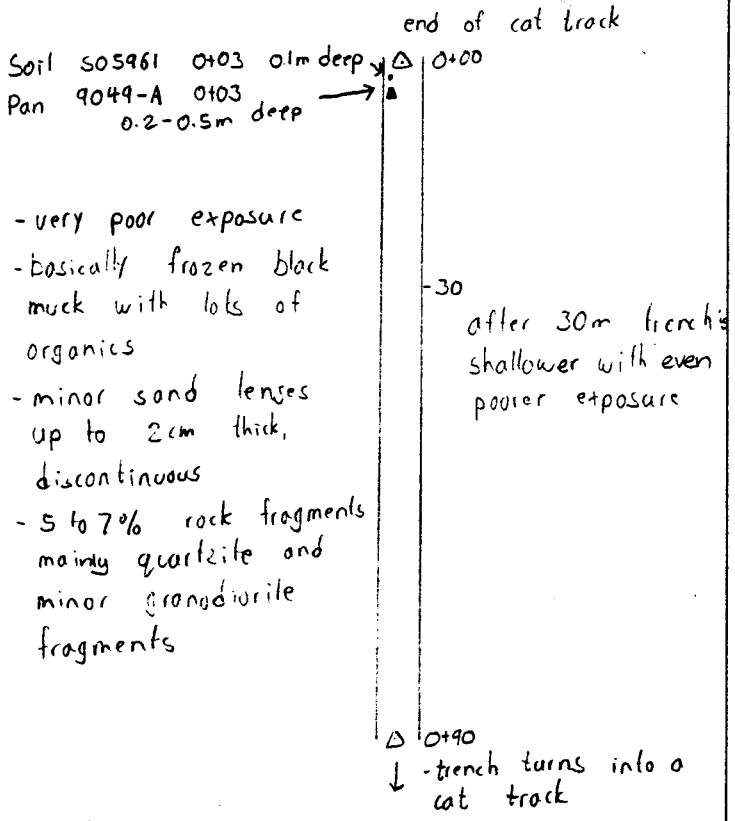
LEASE NO.: PL 9049
CREEK: Trib. of Brynelsen
TYPE: Creek

PIT NUMBER: 9049-A	EQUIPMENT TYPE: HITACHI HOE ; D6 WIDE TRACK
NORTHING:	EQUIPMENT HOURS: HOE: 6.5 hrs ; D6 : 2 hrs.
EASTING:	EQUIPMENT COST: 6.5 @ $130.00 ; 2 @ $100.00
STARTED: June 25, 1993	LABOUR COST: 1 hr @ $26.25/hr
FINISHED: July 22	TOTAL EXPENDITURE: $ 1071.25

Survey Data

From	To	Strk.	Dip
0.0	90.0	200°	-4°

PLAN VIEW 1:1000



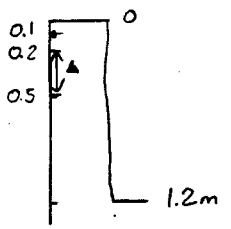
- very poor exposure
- basically frozen black muck with lots of organics
- minor sand lenses up to 2cm thick, discontinuous
- 5 to 7% rock fragments mainly quartzite and minor granodiorite fragments

DIMENSION (m)
90 x 7.7 x 0.6

Scale: 1:50

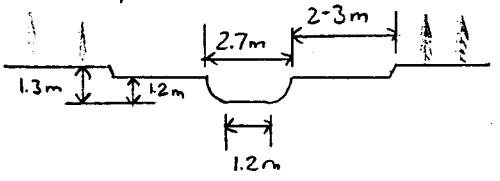
SOIL PROFILE
0+03

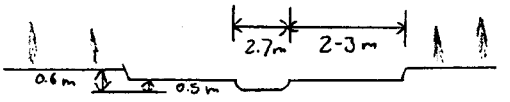
Soil S05961
Pan 9049-A



0 - organics, black muck, minor <1cm rock fragments, very rare 5cm rock fragments, minor discontinuous sand lenses, mainly black organics with roots and black muck
10-20% ice lenses

Typical Cross-section





TCB

COMMENTS: no glacial or fluvial material, pooling water in trench, common permafrost ~30%, very poor trench, basically black muck

Soil S05961 19, <5, 2, 8

SAMPLE NUMBERS: S05961 - soil 9049-A-3 -pan

PANNING CONCENTRATE DESCRIPTION:

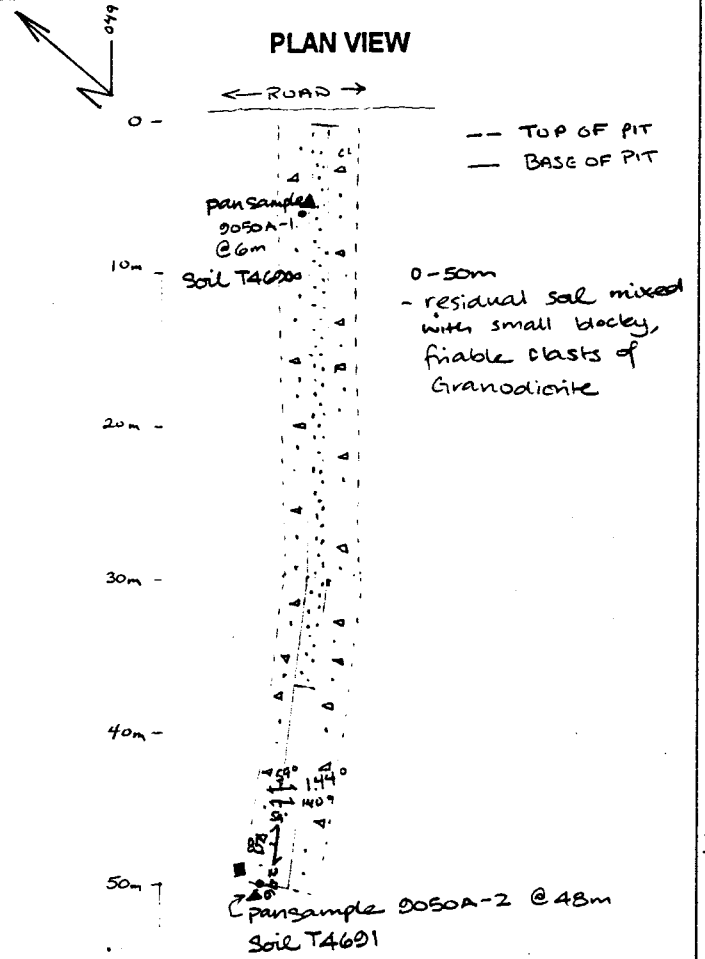
PS9049-A-3- tan-pink colour; mostly quartz and feldspar, rare mafics (BI); muscovite; very minor magnetite; taken @ 3m @ 20-50 cm depth; Ave. particle size: 50µm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9050
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: .9050 - A	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: Hoe: 4 hrs
EASTING:	EQUIPMENT COST: 4 hrs @ $130
STARTED: June 8, 1993	LABOUR COST: 7 hrs @ $26.25/hr
FINISHED: JUNE 17, 1993	TOTAL EXPENDITURE: $ 703.75

PLAN VIEW



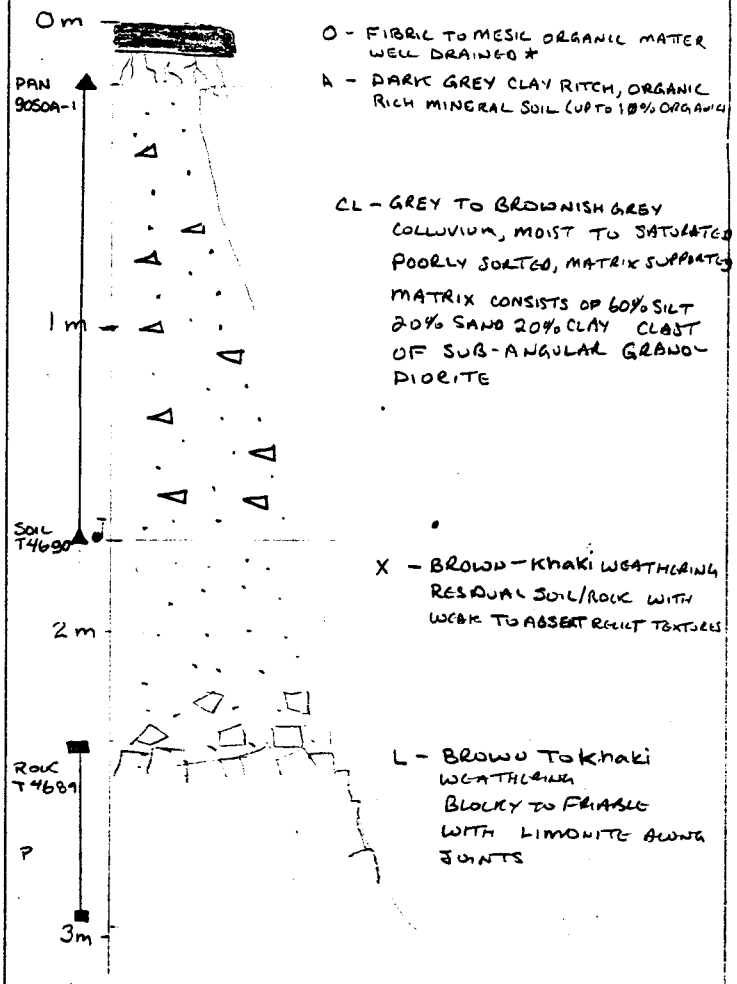
Rock Sample T4689 – taken @ 48m

DIMENSIONS (m)

50 X 2.5 X 3

Scale 1:500

SOIL PROFILE @ 48m



* TRENCH PLACED ALONG OLD CAT LINE. PERMAFROST DISTURBED

Scale 1:25

COMMENTS: - No WASHED GRAVELS
- trench placed on old cat line.

Soil T4690 109, 50, 3, 24 Rock T4689 16, 15, 1, 146 /0m
T4691 94, 35, 21, 22

SAMPLE NUMBERS: PAN: 9050-A-2, 9050-A-1; SOIL T4690, T4691; ROCK: T4689

PANNING CONCENTRATE DESCRIPTION:

PS9050A-2 - light tan brown colour; mostly quartz; some magnetite and feldspar; some mica, sample taken @ just above bedrock @ 0m. weak yellow fluorescent grains

PS9050A-1 - sample taken @ 48m just above colluvium layer; decomposed granodiorite; subangular, grains of QZ, MU, BI, HB, minor Magnetite; orange brown colour; remnant Pg.

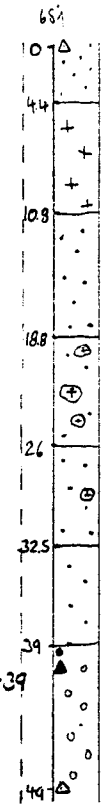
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9050
CREEK: Canadian
TYPE: Bench

PIT NUMBER: 9050-B	EQUIPMENT TYPE: D7 Ripper Cat
NORTHING:	EQUIPMENT HOURS: D7: 3hrs
EASTING:	EQUIPMENT COST: 3 @ $130/hr
STARTED: August 2/93	LABOUR COST: 3 hrs @ $26.25
FINISHED: August 15. 1993	TOTAL EXPENDITURE: $468.75

PLAN VIEW

1:500



0-4.4
- residual soil from supergene weathered granodiorite

4.4 - 10.8
- granodiorite

10.8 - 18.8
- residual soil

18.8 - 26
- residual soil with fragments of granodiorite

26-32.5
- residual soil with rare clasts of granodiorite

32.5 - 39.0
- residual soil

Soil S14343
Pan PS-9050-B-39

39.0 - 49.0
- colluvium and brown organic rich soil

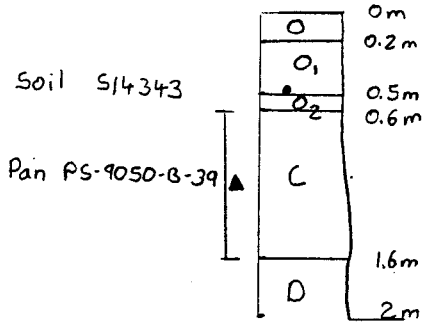
DIMENSIONS (m)

49 x 3 x 2

SOIL PROFILE

at 39m

1:50



O - organics, moss

O_1 - organics 1, dark brown, organic-rich soil

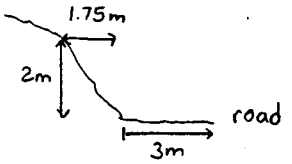
O_2 - organics 2, dark brown-grey soil?, silty layer, no clasts or fragments

C - colluvium, medium brown, small bands of clay, more rock fragments near bottom

D - decomposed bedrock, tan coloured, friable residual soil

Typical Cross Section

1:200



COMMENTS:

Soil S14343 62.360, 1.42

SAMPLE NUMBERS: Soil S14343 Pan PS-9050-B-39

PANNING CONCENTRATE DESCRIPTION:

PS9050B-39 - tan-grey colour; sample taken @ 39m in the colluvium layer; Mostly subangular grains of quartz; Minor remnant feldspar, biotite, hornblende; very minor magnetite; Average grain size: 2mm. Minor yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

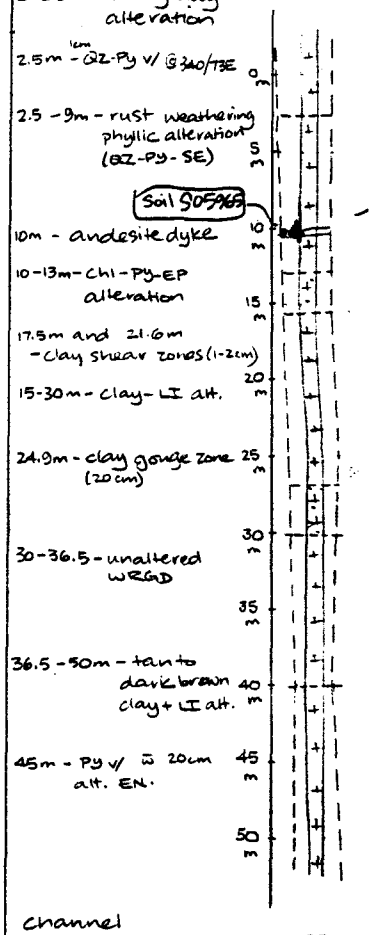
LEASE NO.:	PL 9050
CREEK:	Canadian Creek
TYPE:	Bench

PIT NUMBER: 9050 - CA	EQUIPMENT TYPE: D7 Winch ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7 : 0.25 hr ; hoe : 2.5 hr
EASTING:	EQUIPMENT COST: 0.25 @ $ 100/hr ; 2.5 @ $130/hr
STARTED: June 10, 1993	LABOUR COST: 5.25 @ $26.25/hr
FINISHED: June 21, 1993	TOTAL EXPENDITURE: $487.81

PLAN VIEW

246°

— — TOP OF TRENCH
—— BOTTOM OF TRENCH



DIMENSIONS (m)

50 x 2.8 x 2.1

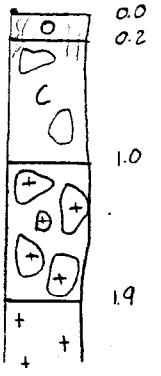
channel SAMPLES:
0-10m - K3851
10-20m - K3852
20-30m - K3853
30-40m - K3854
40-50m - K3855

SCALE : 1:500

SOIL PROFILE

1:50

0+00



O - organics, mainly brown clay + sand with very minor black organics

C - colluvium, well developed, brown sand and clay with granodiorite fragments up to 1m in size

D - decomposed bedrock, mainly large granodiorite fragments with clay and sand along fractures

+ + - bedrock, granodiorite

COMMENTS:

Rock K3851 210, 200, 3, 52 /10m K3854 174, 105, <1, 16 /10m
Soil S05965 188, 215, 1, 212 K3852 125, 140, <1, 18 /10m K3855 134, 240, <1, 64 /10m
K3853 120, 80, <1, 8 /10m

SAMPLE NUMBERS: PS 9050-CA rock samples K3851 - K3855 incl. ; soil : S05965

PANNING CONCENTRATE DESCRIPTION:

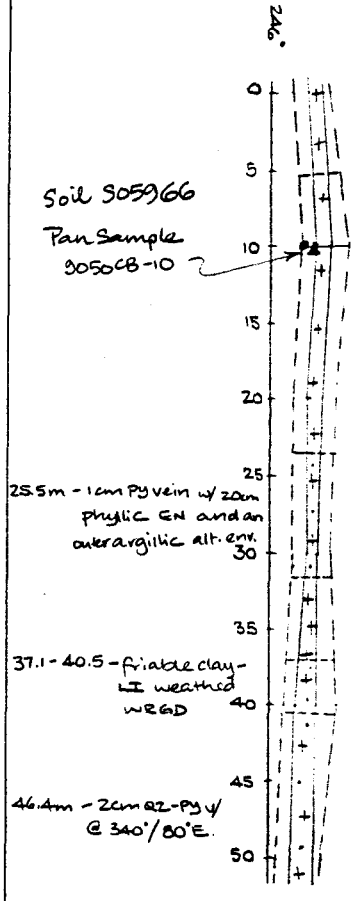
PS9050 CA - medium orange-brown colour; sample taken just above bedrock @ 10cm; mostly quartz, some magnetite ; average particle size : 10mm; subrounded; Limonite staining on the quartz. minor yellow fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9050
CREEK:	Canadian Creek
TYPE:	Bench

PIT NUMBER: 9050 - CB	EQUIPMENT TYPE: D7 Winch; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 0.25 hr; hoe: 2.5 hr
EASTING:	EQUIPMENT COST: 0.25 @ $100/hr; 2.5 @ $130/hr
STARTED: June 10, 1993	LABOUR COST: 4.25 @ $26.25/hr
FINISHED: June 23, 1993	TOTAL EXPENDITURE: $461.56

PLAN VIEW --- Top of Trench —— Bottom of Trench



0 - 5.1 - propylitic alteration; WRGD - blocky, LI on fractures

5.1 - 10.1 - strong weathering of WRGD; friable; crumbly; mafics destroyed.

10.1 - 23.7 - propylitic alt; c. grained WRGD; blocky w/ up to 10cm NRDE xenoliths.
- chl, EP - Py.

23.7 - 31.6m - less competant than above; patchy clay zones.
- alteration due to Py veins.

31.6 - 37.1 - propylitically altered med → coarse grained WRGD w/ blocky habit and LI along joints

40.5 - 50.0m - strong argillic (clay + LI) alt of WRGD.

DIMENSIONS (m)

50 × 2.8 × 2.2

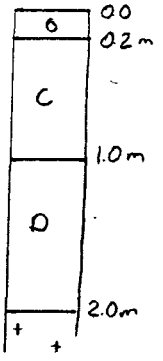
CHANNEL SAMPLES:

0 - 10m	K3856
10 - 20m	K3857
20 - 30m	K3858
30 - 40m	K3859
40 - 50m	K3860

SCALE: 1:500

SOIL PROFILE

0+00



O - organics, mainly brown clay + sand, with minor black organics

C - colluvium, well developed brown clay and sand with minor rock fragments

D - decomposed bedrock, ranges from blocky granodiorite (unconsolidated) to strongly oxidized clay + sand

+ + - bedrock, granodiorite

Scale: 1:50

COMMENTS:

	Rock K3856 131, 160, <1, 38/10m	K3859 142, 175, 1.28/10m	
Soil S05966 168, 225, 1.50	K3857 132, 135, <1, 24/10m	K3860 129, 135, <1, 34/10m	
	K3858 84, 160, 1.40/10m		

SAMPLE NUMBERS: PS9050CB-10 rock samples K3856 - K3860 incl.; Soil: 905966

PANNING CONCENTRATE DESCRIPTION:

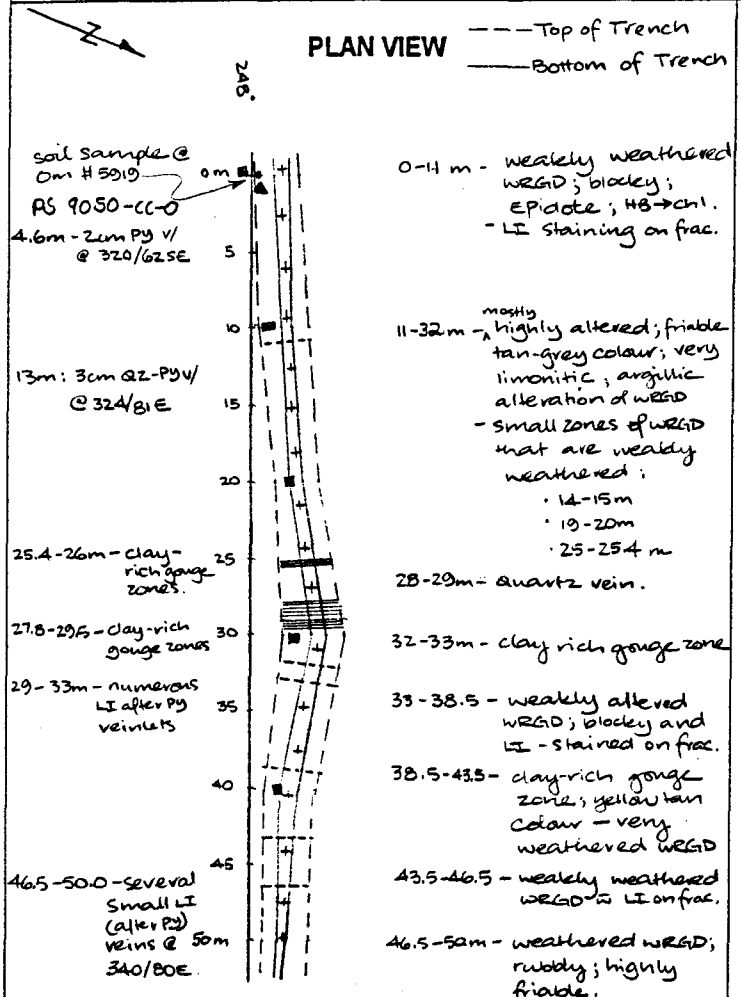
9050CB-10 - Sample taken just above bedrock @ 10m. light orange-brown colour; quartz, Pyrite, magnetite, feldspar. Average partical size: 150 µm. minor yellow and white fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9050
CREEK: Canadian Creek
TYPE: Bench

PIT NUMBER: 9050-CC	EQUIPMENT TYPE: D7 Winch; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 0.25hr; hoe: 2.5hr.
EASTING:	EQUIPMENT COST: 0.25 @ $100/hr; 2.5 @ $130/hr
STARTED: June 10, 1993	LABOUR COST: 5.25 @ $26.25/hr
FINISHED: June 26, 1993	TOTAL EXPENDITURE: $487.81

PLAN VIEW



0-11 m - weakly weathered WRGD; blocky; Epidote; HB→chl. - LI staining on frac.

11-32m - mostly highly altered; friable tan-grey colour; very limonitic; argillic alteration of WRGD
- small zones of WRGD that are weakly weathered:
  - 14-15m
  - 19-20m
  - 25-25.4 m

28-29m - quartz vein.

32-33m - clay rich gouge zone

33-38.5 - weakly altered WRGD; blocky and LI - stained on frac.

38.5-43.5 - clay-rich gouge zone; yellow tan colour - very weathered WRGD

43.5-46.5 - weakly weathered WRGD → LI on frac.

46.5-50m - weathered WRGD; rubbly; highly friable.

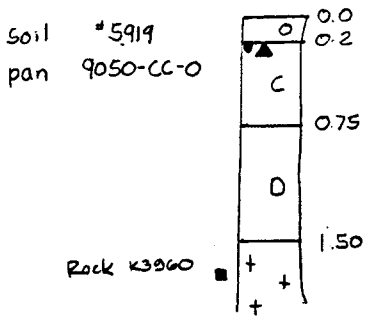
● Soil sample #5919
▲ pan sample 9050-CC-0

CHANNEL SAMPLES
- 0-10m - 3960
- 10-20m - 3961
- 20-30m - 3962
- 30-40m - 3963
- 40-50m - 3964

DIMENSIONS(m)
50 x 3 x 2.5

SCALE 1:500

SOIL PROFILE



O - organics, mainly brown clay + sand with very minor organics

C - colluvium, mainly brown clay + sand with very minor rock fragments

D - decomposed bedrock, due to strong weathering bedrock grades upwards into decomposed bedrock

+ + - bedrock, granodiorite

Scale 1:50

COMMENTS:

Soil S05919 261, 240, <1, 98

Rock K3960 64, 180, <1, 64/10m
K3961 58, 135, <1, 36/10m
K3962 118, 210, <1, 24/10m
K3963 157, 145, 1, 26/10m
K3964 102, 210, 1, 56/10m

SAMPLE NUMBERS: soil sample S05919, pan sample 9050-CC-0, rock sample K3960-3964 incl.

PANNING CONCENTRATE DESCRIPTION:

PS9050CC-0 - Sample taken @ 0m in the colluvium layer; orange-tan colour; Mostly quartz and feldspar, chlorite after biotite, minor muscovite and magnetite. Average particle size: 50um. Minor yellow fluorescent grains

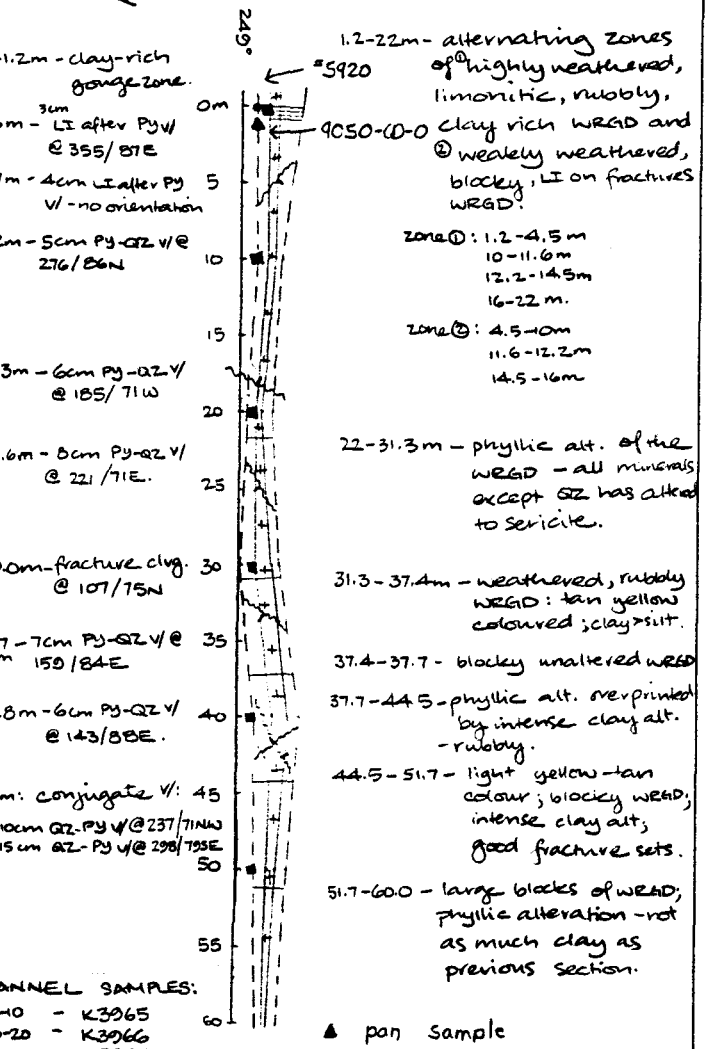
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9050
CREEK:	Canadian Creek
TYPE:	Bench

PIT NUMBER: 9050 - CD	EQUIPMENT TYPE: D7 Winch; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 0.25 hr; hoe: 2.5 hr
EASTING:	EQUIPMENT COST: 0.25 @ $100/hr; 2.5 @ $130/hr
STARTED: June 10, 1993	LABOUR COST: 4.25 hr @ $26.25/hr
FINISHED: June 27, 1993	TOTAL EXPENDITURE: $461.56

PLAN VIEW

--- Top of Trench
——— Bottom of Trench



■ CHANNEL SAMPLES:
0-10 - K3965
10-20 - K3966
20-30 - K3967
30-40 - K3968
40-50 - K3969
50-60 - K3970

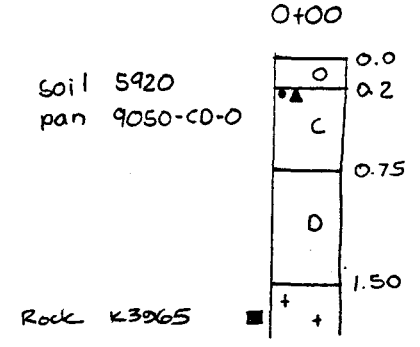
● Soil Sample @ 0m # 5920

▲ pan sample 9050-CD-0

DIMENSIONS (m)
50 x 3 x 2.7

SCALE: 1:500

SOIL PROFILE



O - organics, mainly brown clay and sand, minor black organics

C - colluvium, mainly brown clay and sand with minor rock frogments

D - decomposed bedrock, due to strong weathering bedrock grades upwords into decomposed bedrock

+ + - bedrock, granodiorite

Scale: 1:50

COMMENTS:

	Rock K3965 103, 115, 1, 46/10m	K3968 85, 250, <1, 56/10m	
Soil S05920 256, 225, <1, 58	K3966 46, 140, <1, 50/10m	K3969 25, 355, 2, 20/10m	
	K3967 51, 215, <1, 52/10m	K3970 33, 605, 1, 44/10m	

SAMPLE NUMBERS: soil sample 5920, pan sample 9050-CD-0, rock samples K3965-K3970

PANNING CONCENTRATE DESCRIPTION:

PS9050CD-0 - Sample taken @ 0m in the colluvium layer - orange tan colour; Mostly subangular quartz, remnant feldspar, hornblende, biotite, muscovite. Minor magnetite; average grain size 50-100μm. Minor yellow fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9051
CREEK: Canadian
TYPE: Bench

PIT NUMBER: 9051-A	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: Hoe 2 hrs
EASTING:	EQUIPMENT COST: 2hrs @ 130/hrs
STARTED: June 8, 1993	LABOUR COST: 5 hrs @ $26.25
FINISHED: June 29, 1993	TOTAL EXPENDITURE: $391.25

PLAN VIEW

1 : 500

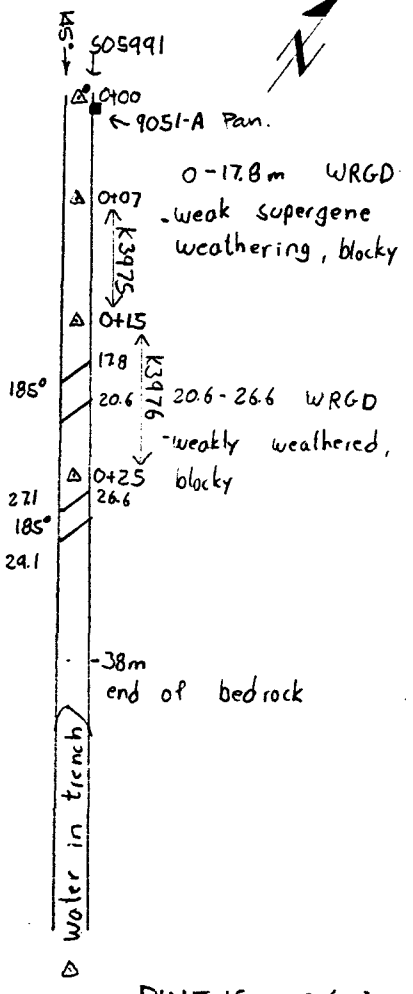
Survey Data

0 - 55m strike 145° angle -6°

17.8 - 20.6 m Strong Supergene weathering

27.1 - 29.1 m strong weathering along fractures

29.1 - 38.0m WRGD
- weak weathering
- weak hydrothermal alteration



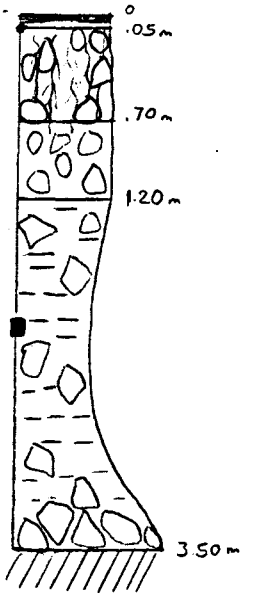
Rock Sample Data

7 to 15 m K3975
15 to 25m K3976
- poor quality samples

DIMENSIONS (m)
57.5 x 3.5 x 3.5

SOIL PROFILE

Scale: 1:50



0 - 0.05m black organics with light sandy brown "B" Horizon soil after 5cm

0.05 - 0.70m up to 1m boulders with plant roots

0.70 - 1.2 m smaller boulders, no plant roots, dark grey to grey soil

1.2 - 3.5m layered brown to grey clay with increasing boulders toward bottom

3.5m - bed rock

COMMENTS: no glacial or fluvial material, minor permafrost near surface, some water in trench and pools in trench

Soil S05991 100, 160, 4, 234 Rock K3975 208, 110, 2, 14 / 8m
K3976 400 85, 2 18 / 10m

SAMPLE NUMBERS: Soil Sample S05991, Pan: P9051A-0, Rock: K3975, K3976

PANNING CONCENTRATE DESCRIPTION:

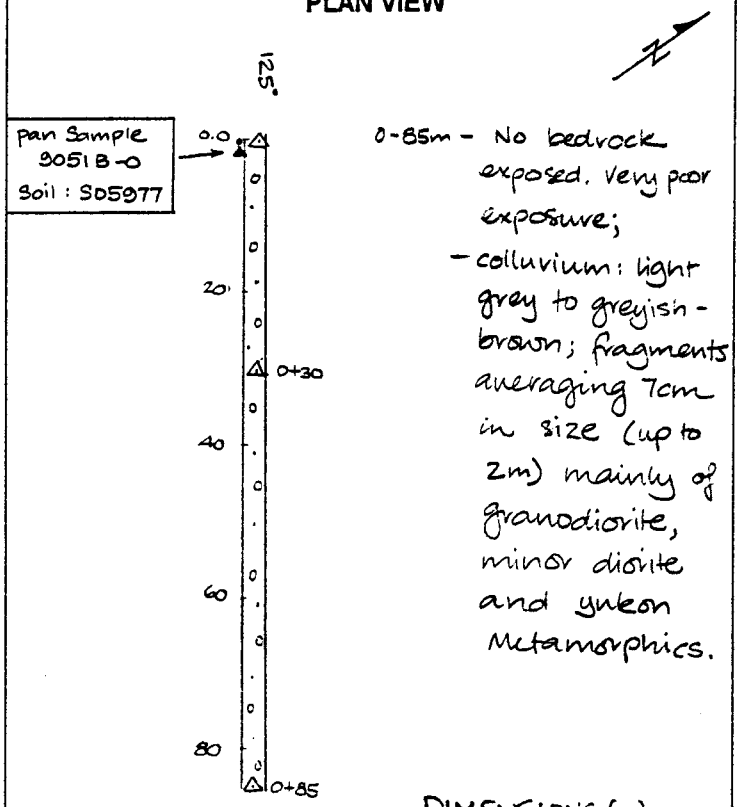
9051A-0 : Coarse Fraction: Dawson Range Granodiorite
Fine Fraction: 5% Magnetite, 5% Hornblende, 30% Quartz, 10% Biotite, Minor fluorescent blue grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL-9051
CREEK:	Canadian
TYPE:	Bench.

PIT NUMBER: 9051 B	EQUIPMENT TYPE: HITACHI HOE, D6 WIDE TRACK
NORTHING:	EQUIPMENT HOURS: hoe: 3hrs ; D6: 2hrs
EASTING:	EQUIPMENT COST: 3 @ $130/hr ; 2 @ $100/hr.
STARTED: June 23/93	LABOUR COST: 2 hrs @ $26.25 /hr
FINISHED: July 28/93	TOTAL EXPENDITURE: $642.50

PLAN VIEW



0-85m - No bedrock exposed. Very poor exposure;
- colluvium: light grey to greyish-brown; fragments averaging 7cm in size (up to 2m) mainly of granodiorite, minor diorite and yukon Metamorphics.

DIMENSIONS (m)
85 x 3 x 0.6

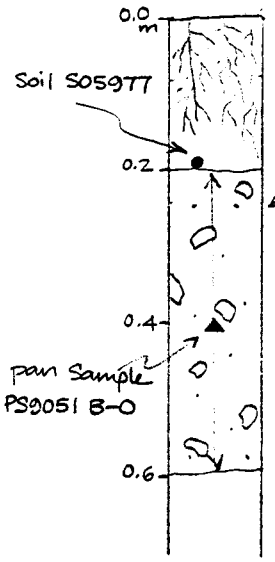
Survey Data.

From	To	Strike	Dip
0	85.0	125°	-4°

Scale: 1:1000

SOIL PROFILE

*taken @ 0.0m



organic-rich "muck" black colour; saturated.

Colluvium: light grey to greyish brown clay and sand with very minor rock fragments.

Scale: 1=10

COMMENTS: Poor exposure; does not reach bedrock

Soil S05977 64.40, 41.24

SAMPLE NUMBERS: Soil: S05977; Pan: PS9051B-0

PANNING CONCENTRATE DESCRIPTION:

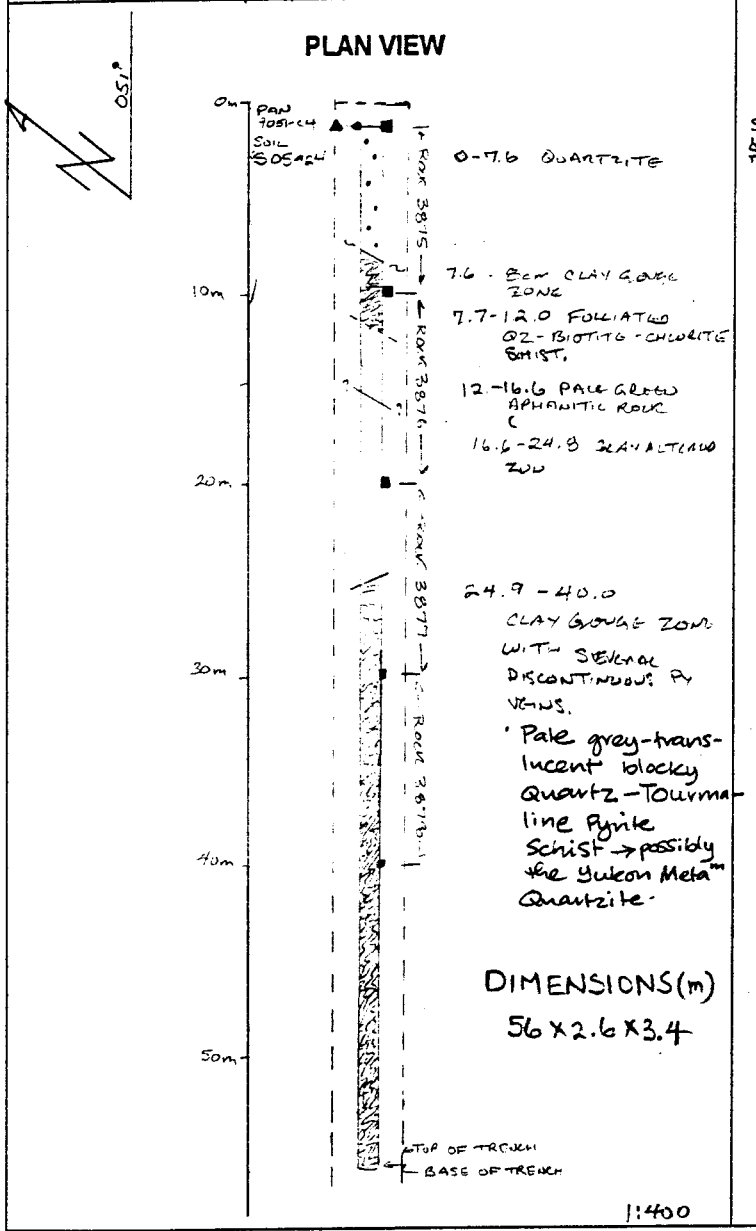
PS9051B-0- Sample taken @ 0m in the colluvium layer, orange gray colour; Mostly Quartz, remnant feldspar, biotite, muscovite, minor Hornblende and magnetite; Average particle size: 20-30µm; Minor yellow and blueish fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9051
CREEK:	Canadian
TYPE:	Bench.

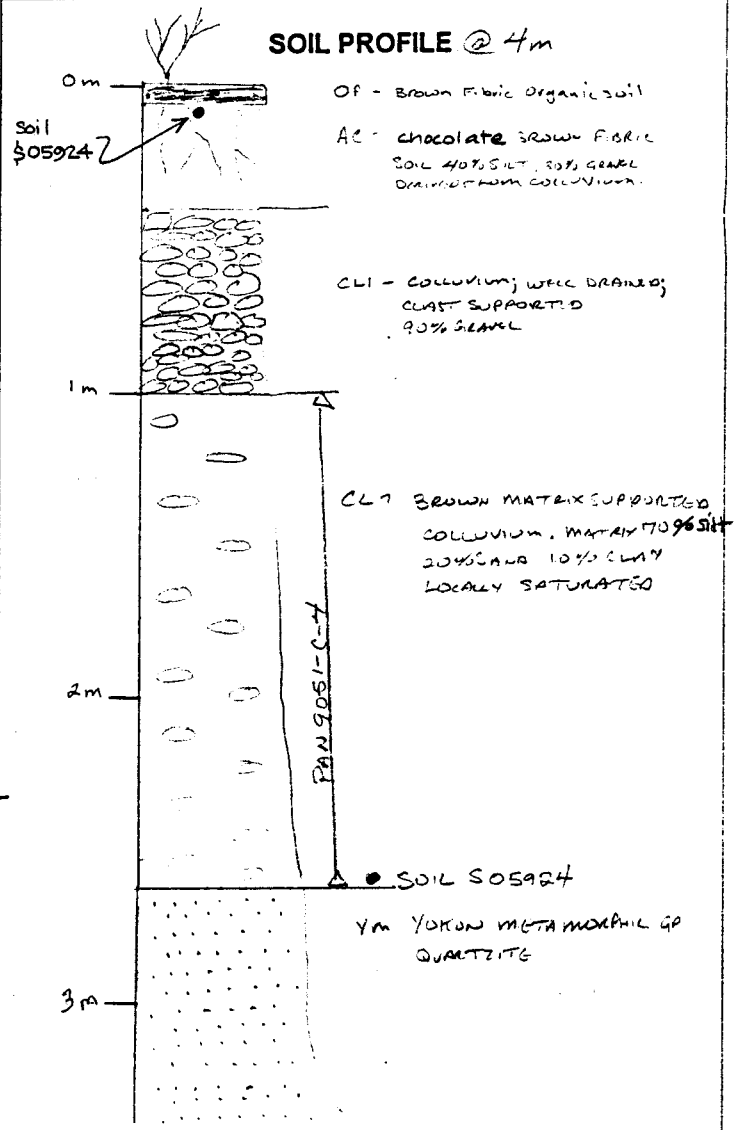
PIT NUMBER: 9051-C	EQUIPMENT TYPE: HITACHI 450E
NORTHING:	EQUIPMENT HOURS: Hoe 9hrs
EASTING:	EQUIPMENT COST: Hoe: 9 @ $130/hrs. = $1170.00
STARTED: July 5, 1993	LABOUR COST: 5 hrs @ $26.25 = $131.25
FINISHED: July 6, 1993	TOTAL EXPENDITURE: $1301.25

PLAN VIEW



1:400

SOIL PROFILE @ 4m



Scale = 1:25

COMMENTS:

Soil S05924 40.35.2.58 Rock K3875 39, 40, 41, 72 /10m K3877 21, 10, 1, 60 /10m
K3876 38, 20, 3, 34 /10m K3878 21, 15, 2, 70 / 10 m

SAMPLE NUMBERS: PAN: 9051-C4 . Soil: S05924 Rock K3875, K3876, K3877, K3878

PANNING CONCENTRATE DESCRIPTION:

9051 C-4 - sample taken @ 4m in the brown-matrix supported colluvium layer. Orange-brown colour; mostly quartz, some hornblende, and pyrite. Very minor magnetite. Minor fluoresent orange mineral (colourless in visible light) — possibly powellite?

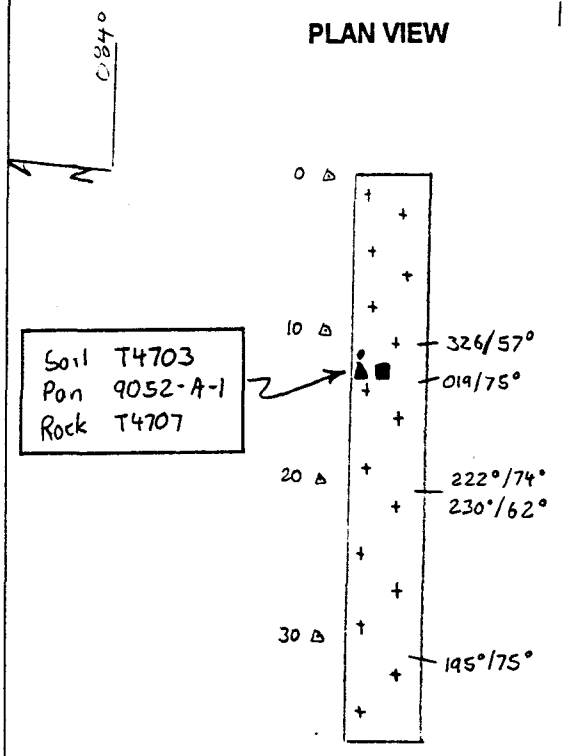
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9052
CREEK:	Austin Creek
TYPE:	Bench

PIT NUMBER: 9052-A	EQUIPMENT TYPE: D7 RIPPER CAT
NORTHING:	EQUIPMENT HOURS: D7: 4.5 hrs.
EASTING:	EQUIPMENT COST: 4.5 hrs @ $130/hr
STARTED: June 11/1993	LABOUR COST: 4 hrs @ $26.25/hr
FINISHED: June 13/1993	TOTAL EXPENDITURE: $690.00

PLAN VIEW

1:500



Granodiorite
- friable or bladed
- locally altered to clay

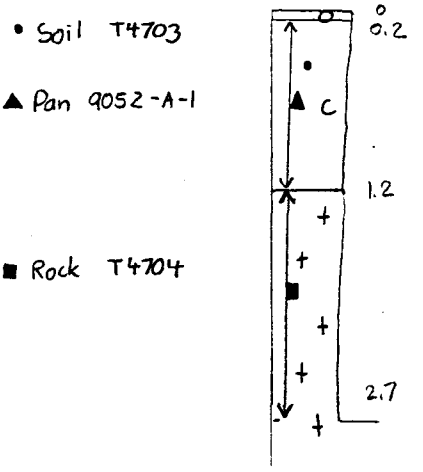
DIMENSIONS (m)

37 x 5 x 2.7

SOIL PROFILE

SCALE: 1:50

0+13



O - organics, 10-20 cm good block muck

C - colluvium, fine to medium sand derived from weathering granodiorite

+ + - bedrock, granodiorite

COMMENTS:

Soil T4703 35,<5, 2,104 Rock T4707 6,<5, 1,16 10m

SAMPLE NUMBERS: Soil: T4703; Pan: 9052A-1; Rock: T4707

PANNING CONCENTRATE DESCRIPTION:

PS9052-A-1: orange-tan colour; remnant decomposed granodiorite: Qz, HB>Bt; very minor: Py, Feldspar, magnetite. Average grain size: 15-20μm

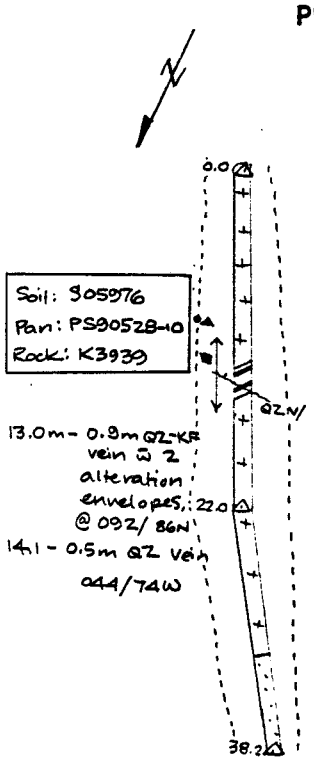
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9052
CREEK: Austin
TYPE: Bench.

PIT NUMBER: 9052B
NORTHING:
EASTING:
STARTED: June 11/93
FINISHED: July 28/93

EQUIPMENT TYPE: HITACHI HOE; D7 RIPPER
EQUIPMENT HOURS: Hoe: 1 hr; D7: 1.5 hrs.
EQUIPMENT COST: 1 @ $130/hr; 1.5 @ $130/hr
LABOUR COST: 3 hrs @ $26.25/hr
TOTAL EXPENDITURE: 403.75

PLAN VIEW



0-0.2 - OVERBURDEN.

0.2-3.3 - residual soil: granodiorite protolith; tan colour; friable

3.3-12.3 - blocky Granodiorite - well jointed, some zones are rubbly and friable.

12.3-15.4 - KF/QZ vein + 2 Alteration Envelopes.

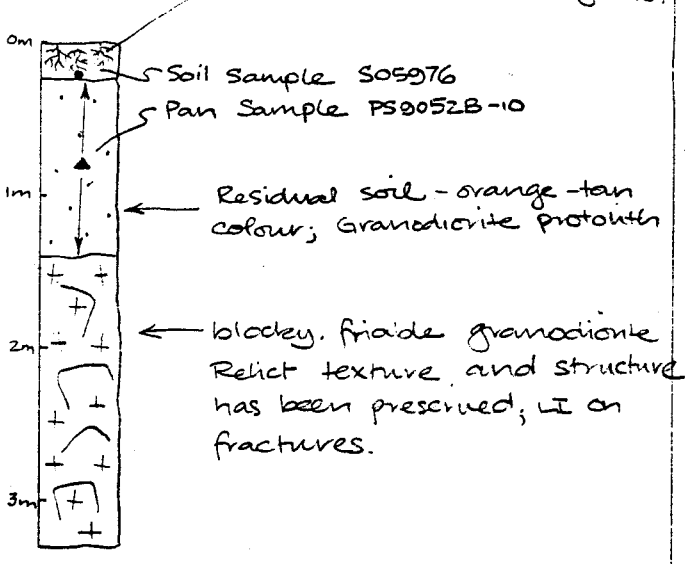
15.4-32.5 - Granodiorite - alternating zones of blocky, weakly altered Granodiorite and clay-altered, rubbly and friable Granodiorite.

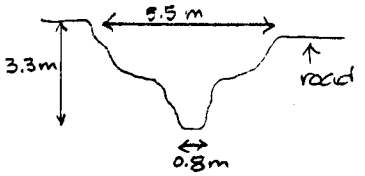
32.5-38.2 - Residual soil - granodiorite protolith; tan-coloured.

DIMENSIONS(m)
38.2 × 3.2 × 3.3

SOIL PROFILE

taken @ 10m





Scale: 1:50

SURVEY DATA

From	To	Orientation
0.0	22.0	335°
22.0	38.2	343°

From	To	Inclination
0.0	5.0	-31°
5.0	22.0	-4°
22.0	32.5	-10°
32.5	38.2	+13°

Scale: 1:500

COMMENTS:

Soil S05976 32.<5, 1.8 Rock K3939 25.<5, 23, 34 / 5m

SAMPLE NUMBERS: Soil: S05976; Pan: PS9052B-10; Rock: K3939

PANNING CONCENTRATE DESCRIPTION:

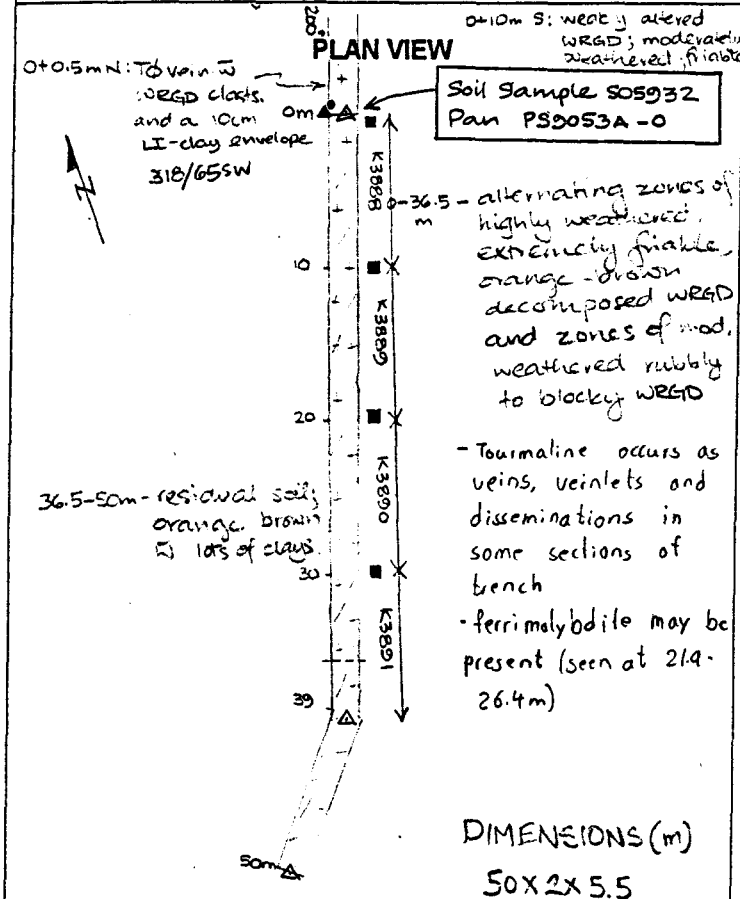
PS9052B-10 - Sample taken @ 10m in the residual soil layer - orange-tan colour; Mostly Limonite stained Quartz and Biotite. Minor remnant feldspar, and magnetite; average particle size: 30-40μm. Minor blue-fluorescent grains - possibly scheelite

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9053
CREEK:	Canadian Creek
TYPE:	Bench.

PIT NUMBER: 9053A	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: Hoe: 4.5 hrs
EASTING:	EQUIPMENT COST: 4.5 hrs @ $130/hr
STARTED: June 8/93	LABOUR COST: 4 hrs @ $26.25/hr
FINISHED: July 1/93	TOTAL EXPENDITURE: $690.00

PLAN VIEW



0-36.5 m - alternating zones of highly weathered, extremely friable, orange-brown decomposed WRGD and zones of mod. weathered rubbly to blocky WRGD

- Tourmaline occurs as veins, veinlets and disseminations in some sections of trench
- ferrimolybdite may be present (seen at 21.9-26.4m)

36.5-50m - residual soil; orange-brown; lots of clays

DIMENSIONS (m)
50 X 2 X 5.5

▲Pan sample - taken @ 0.00m

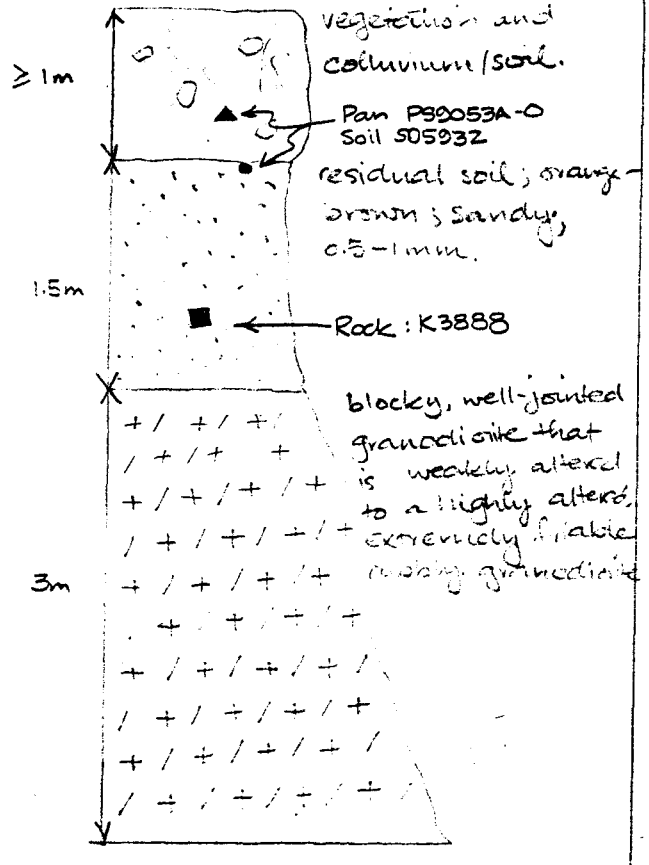
Trench channel samples:

0-10 m	K3888
10-20 m	K3889
20-30 m	K3890
30-40 m	K3891

•Soil Sample: S05932

SCALE: 1:500

SOIL PROFILE * profile taken @ 0m.



Scale: 1:50

COMMENTS: no glacial / fluvial material, minor water in trench

Soil S05932 197, 285.39, 118 Rock K3888 71, 230, 59, 20 / 10m K3890 58, 235, 70, 30 / 10m
K3889 67, 255, 89, 14 / 10m K3891 72, 240, 98, 22 / 10m

SAMPLE NUMBERS: Soil S05932; Pan: PS9053A-0; Rock: K3888 - K3891

PANNING CONCENTRATE DESCRIPTION:

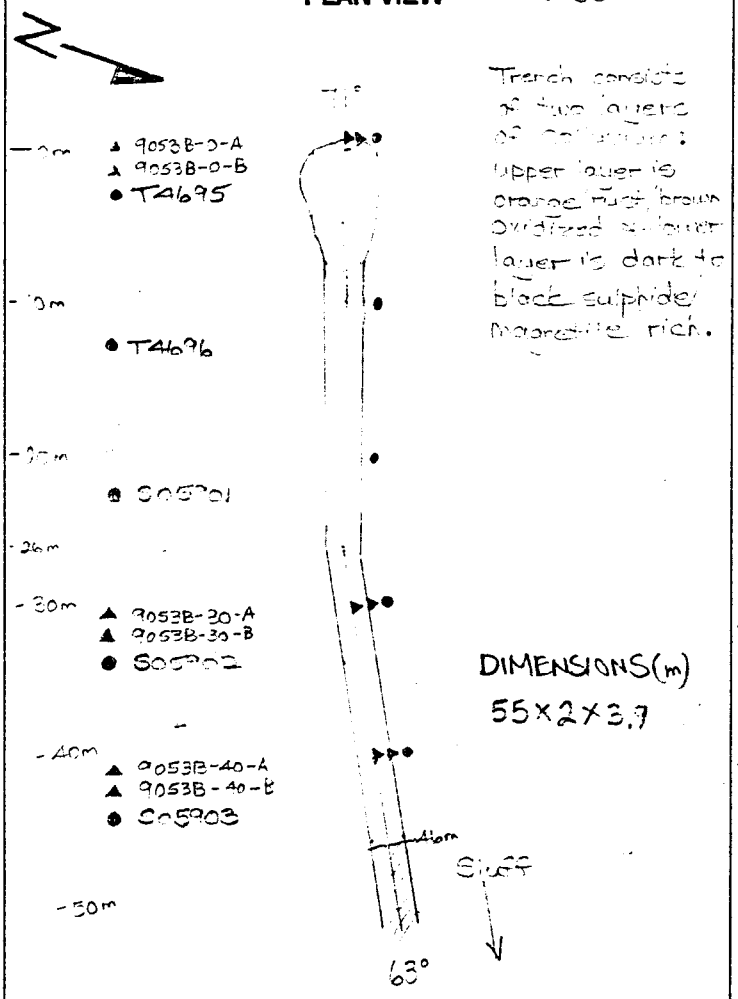
PS9053A-0: Sample taken in the residual soil layer @ 0.0m; orange brown colour; decomposed granodiorite; quartz, feldspar, minor mafics (HB > BI) and remnant pyrite; mod → weak magnetite; fine particle size: 20µm. Minor fluorescent (orange) minerals - powellite?

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

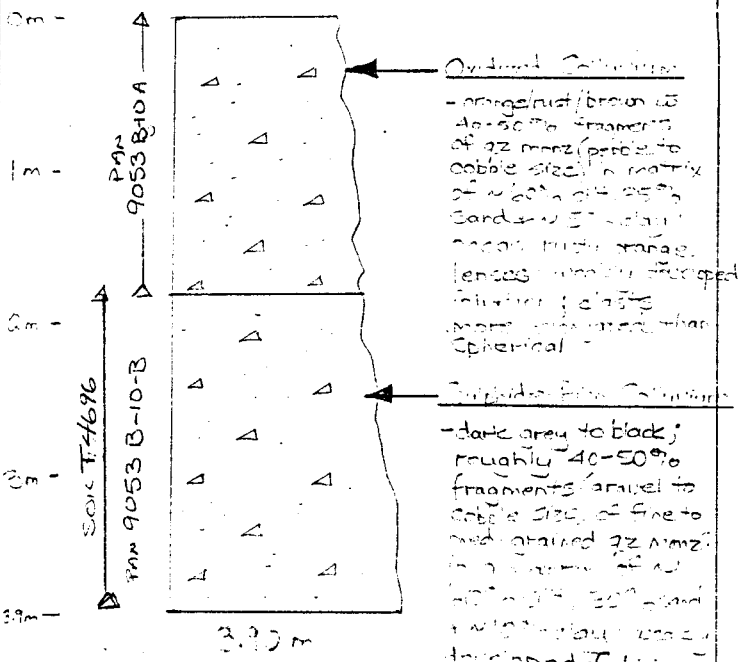
LEASE NO.:	PL 9053
CREEK:	CANADIAN
TYPE:	BENCH

PIT NUMBER: 9053-B	EQUIPMENT TYPE: D7 Winch; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 1 hr; hoe: 7 hr
EASTING:	EQUIPMENT COST: 1 hr @ $100/hr; 7 hr @ $130/hr
STARTED: June 3 1993	LABOUR COST: 9 hrs @ $26.25/hr
FINISHED: June 19, 1993	TOTAL EXPENDITURE: $1246.25

PLAN VIEW 1:500



SOIL PROFILE @ 10 m 1:50



COMMENTS: Pan Samples were taken @ 10 m intervals from each horizon (Oxidized Colluvium / Sulphide-Rich Colluvium) and Soil Samples were taken every 10m from the Sulphide-rich colluvium

Soil T4695 715, 480, 132, 14 S05901 473, 250, 75, 10 S05903 356, 260, 33, 16
T4696 529, 380, 93, 18 S05902 594, 460, 96, 14,

SAMPLE NUMBERS: Pan: 9053B-0-A, 9053B-0-B, 9053B-30-A, 9053B-30-B, 9053B-40-A, 9053B-40-B Soil: T4695, T4696, S05901, S05902, S05903

PANNING CONCENTRATE DESCRIPTION: PANS: 9053-0, 30, 40-B, - 1 AREA OF GREY-BLACK SAND PREDOMINANTLY MAGNETITE > QUARTZ > PYRITE WITH ONE CLAY CLAST SPECIMEN RETAINED IN PANS 9053-30-B 9053-0-B; PANS 9053-0, 30 40-A GREYISH BROWN SAND, AND MEDIUM GRAINS OF MAGNETITE > PYRITE. ONE SPECIMEN OF SOFT GREEN CLAY IN PAN 9053-0-A.

Panning Concentrates.

PS9053B40B	medium grey colour; sample taken from the lower layer (magnetite rich) of colluvium @ 40m. Mostly magnetite, quartz, pyrite. Average partical size: 5μm
PS9053B40A	greyish brown colour; sample taken from the upper, oxidized layer @ 40m of colluvium; subrounded grains averaging 20μm of quartz, fine-grained quartz monzonite, and slightly decomposed pyrite.
PS9053B-30A	sample taken from the upper, oxidized layer of colluvium @ 30m; brownish-grey colour; angular grains mostly of magnetite, quartz, HB; remnant feldspars and pyrite; minor yellow fluorescent grains
PS9053-B-30B	sample @ 30m taken from the lower, sulfide-magnetite rich colluvium layer; medium grey colour; mostly magnetite, quartz, hornblende, feldspars; minor yellow fluorescent grains
PS9053B-0-A	sample taken from the upper, oxidized layer of colluvium @ 0m; light brown colour; mostly quartz, magnetite, minor feldspar micas; minor yellow fluorescent grains
PS9053B-0-B	sample taken from the lower sulphide rich colluvium layer; medium grey colour; mostly magnetite, quartz, hornblende, grain size < 20 μm, fine grained, minor yellow fluorescent grains

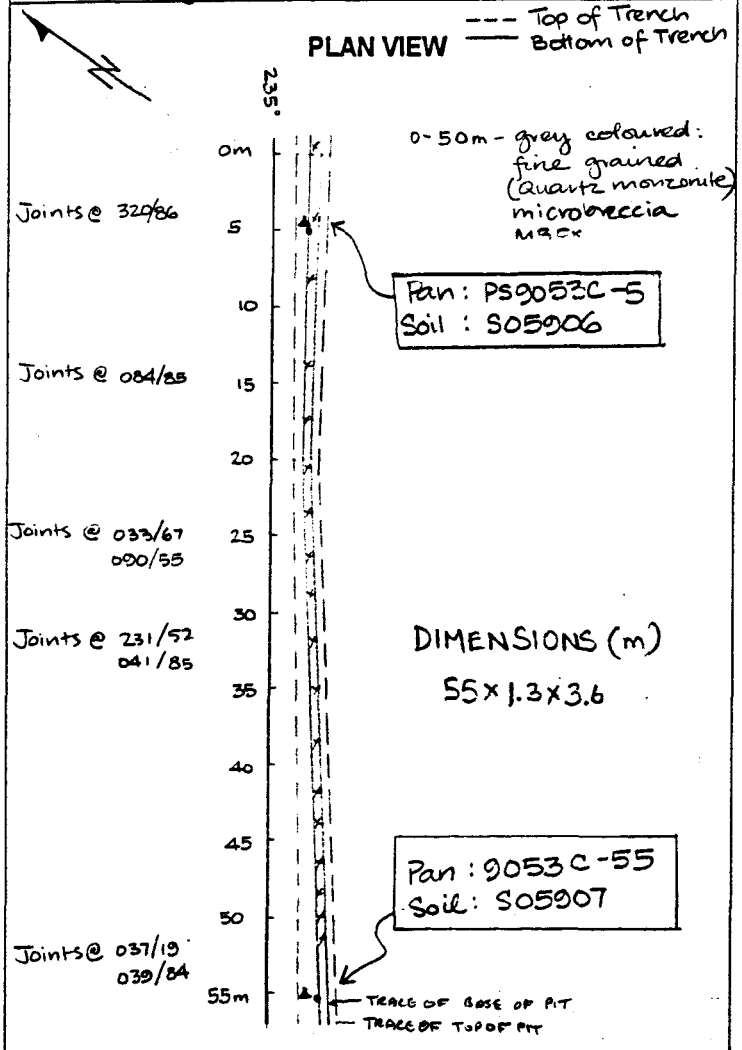
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9053
CREEK: CANADIAN
TYPE: BENCH

PIT NUMBER: 9053-C
NORTHING:
EASTING:
STARTED: JUNE 10, 1993
FINISHED: JUNE 12, 1993

EQUIPMENT TYPE: D7 Winch; Hitachi Hoe
EQUIPMENT HOURS: D7: 0.5hrs; Hoe: 6hrs
EQUIPMENT COST: 0.5hrs @ $100/hr; 6hrs @ $130/hr
LABOUR COST: 5 hrs @ $26.25/hr
TOTAL EXPENDITURE: $961.25

PLAN VIEW



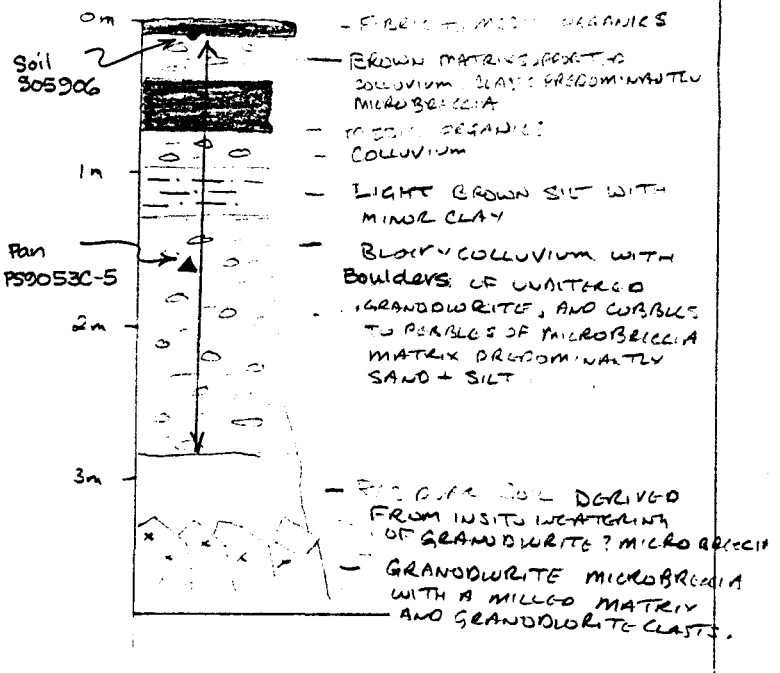
• Soil Samples @ 5m: 05906
@ 55m: 05907

▲ Pan Samples @ 5m and 55m.
9053-C-5, 9053-C-55

SCALE: 1:500

SOIL PROFILE

@ 5m



SCALE: 1:50

COMMENTS: -PAN SAMPLES TAKEN FROM Colluvium Layer

Soil S05906 58, 350, 4, 32
S05907 101, 255, 23, 108

SAMPLE NUMBERS: Soil: S05906 S05907 | Pan: 9053C-5, 9053-C-55

PANNING CONCENTRATE DESCRIPTION:

PS9053C-55 - orange brown colour; sample taken above bedrock @ 55m. looks like remnant weathered WRGD: QZ, Mafics: BI > HB, remnant feldspar, and pyrite; minor magnetite. Ave. particle size: 20/1cm.

PS9053C-5 - Sample taken the colluvium layer - just above bedrock @ 5m. Orange-tan colour; remnant granodiorite: mostly quartz, HB > HB, muscovite ± feldspar; remnant pyrite. Average particle size: 10-15/mm. minor magnetite

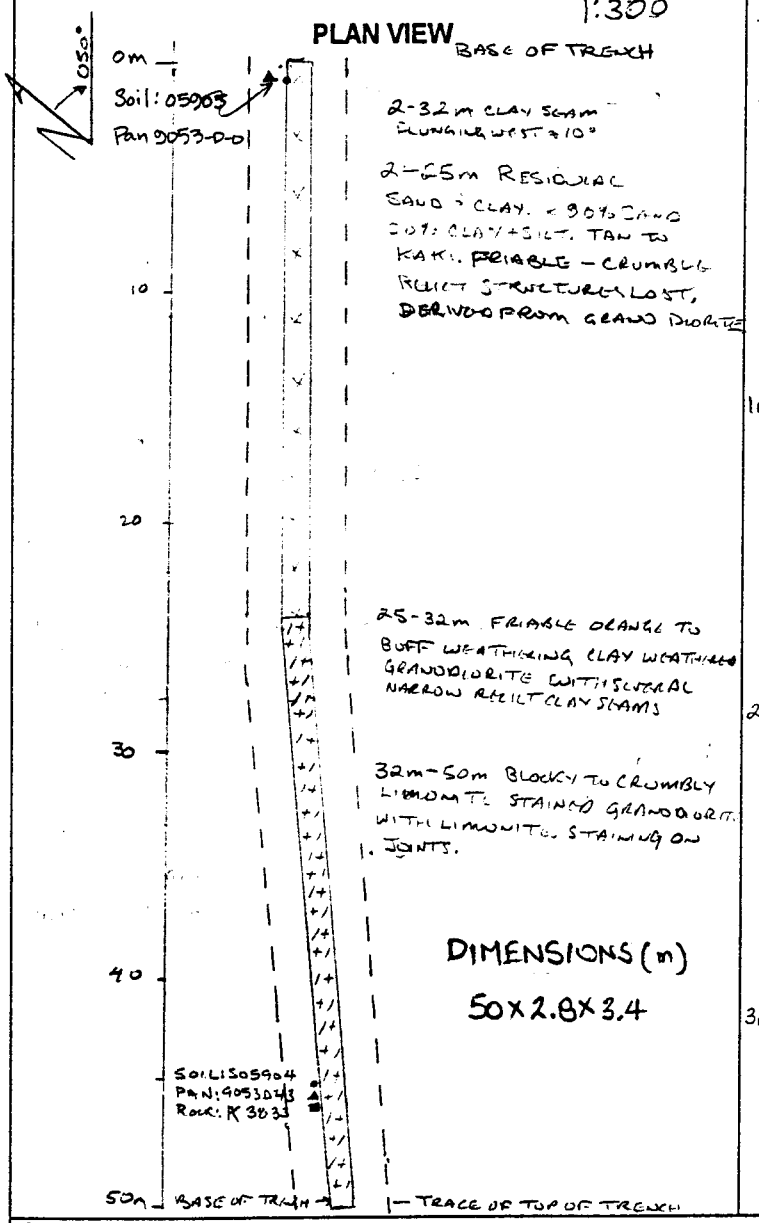
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9053
CREEK: CANADIAN
TYPE: BENCH

PIT NUMBER: 9053-D	EQUIPMENT TYPE: D7 Winch ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7 : 1 hr ; hoe : 7 hrs
EASTING:	EQUIPMENT COST: 1 @ $100/hr ; 7 hrs @ $130/hr
STARTED: JUNE 8 1993	LABOUR COST: 5 hrs @ $26.25/hr
FINISHED: JUNE 8 1993	TOTAL EXPENDITURE: $1141.25

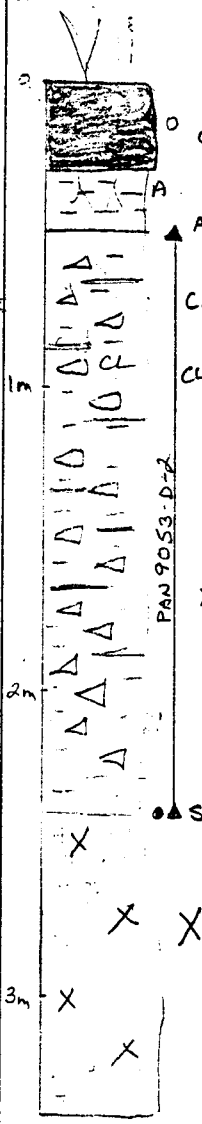
1:300

PLAN VIEW



1:25

SOIL PROFILE @ 2m



O - black humic organic layer with 20% silt, 10% clay

A - active layer with >10% organics

CL - dark grey to buff weathering colluvium, matrix supported with clasts of granodiorite
- stratified frost lenses comprise 40% of matrix, lenses average 3mm thick

X - insitu residual weathering of coarse granodiorite

COMMENTS:

Soil S05904 228, 135, 2, 26 Rock K3833 216, 60, <1, 8/0m
S05905 454, 155, <1, 132

SAMPLE NUMBERS: Soil Samples S05904 ; S05905 PAN 9053-D-43 , 9053D-0 ; Rock : K3833

PANNING CONCENTRATE DESCRIPTION:

PS 9053-D-0 : orange brown colour; sample from 0m in the colluvium layer; juvenile decomposed granodiorite ; subangular; QZ, FS, MU, HB, BI, minor MG; minor yellow fluorescent grains

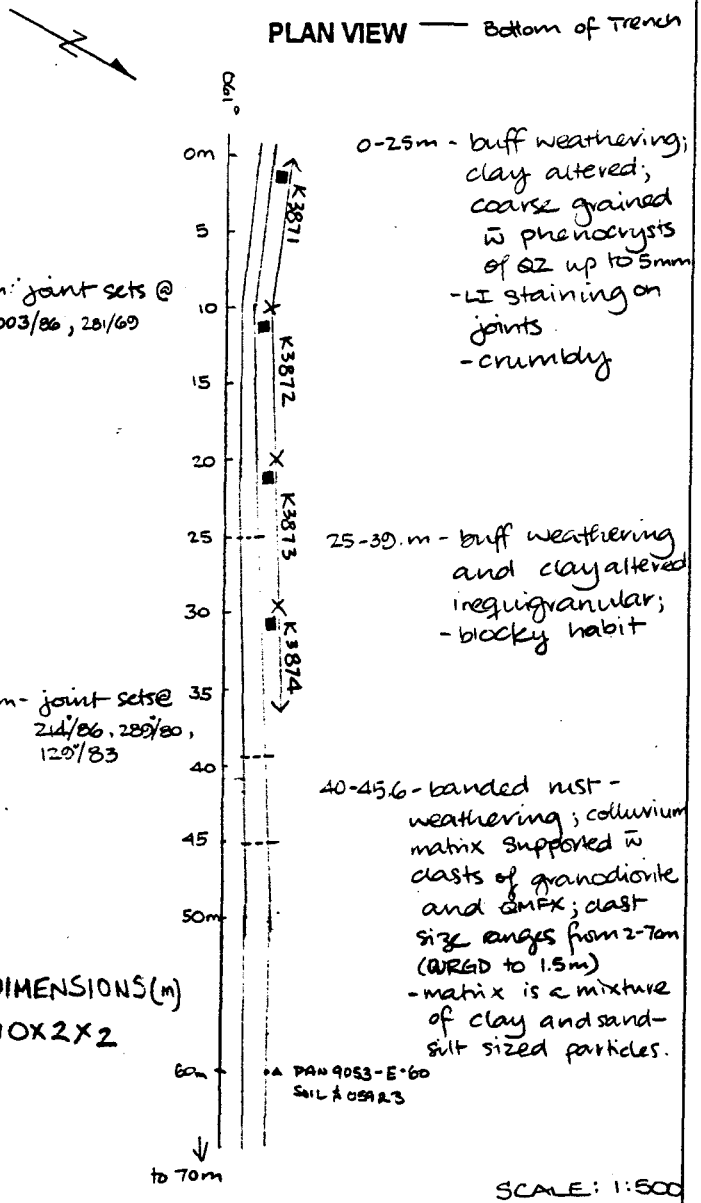
PC 9053-D-43 light brown, average grain size 25 µm, subrounded to angular Quartz, feldspar, biotite, hornblende, V. minor magnetite, V. minor yellow fluorescent grains

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL-9053
CREEK:	Canadian Creek
TYPE:	Bench

PIT NUMBER: 9053-E	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: 10 hrs
EASTING:	EQUIPMENT COST: 10 @ $130/hr
STARTED: June 26/93	LABOUR COST: 5 hrs @ $26.25/hr
FINISHED: June 26/93	TOTAL EXPENDITURE: $1431.25

PLAN VIEW — Bottom of Trench



0-25m - buff weathering; clay altered; coarse grained w phenocrysts of QZ up to 5mm
- LI staining on joints
- crumbly

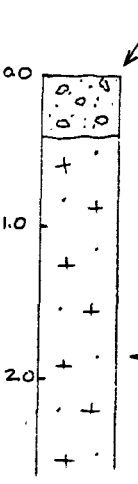
25-39.m - buff weathering and clay altered inequigranular;
- blocky habit

40-45.6 - banded rust-weathering; colluvium matrix supported w clasts of granodiorite and QMFX; clast size ranges from 2-7cm (QMFX to 1.5m)
- matrix is a mixture of clay and sand-silt sized particles.

SCALE: 1:500

* taken @ 50m

SOIL PROFILE



0.0-0.4m
- Fine grained colluvium and broken, weathered rock.
- Brownish green and light yellow
- trace organics; very poorly sorted → 50% silt-sand → 50% heavily weathered, weak, angular rock fragments.

0.4-2.3m
- strongly weathered/altered very friable rock (granodiorite); well-jointed, Limonite staining on fractures.

Scale: 1:50

COMMENTS:

Soil S05923 718, 45, 5.24 Rock K3871 67, 260, 77, 14 /10m K3873 24, 930, 45, 12 /10m
K3872 49, 330, 27, 14 /10m K3874 34, 270, 71, 18 /10m

SAMPLE NUMBERS: Rock: K3871, K3872, K3873, K3874; Soil: S05923; Pan: 9053E-60

PANNING CONCENTRATE DESCRIPTION:

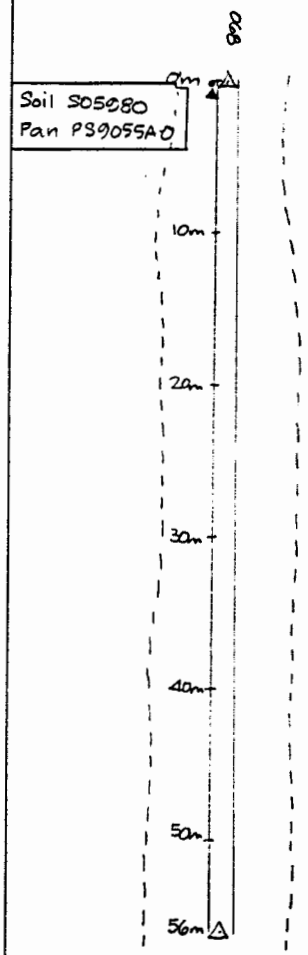
PS9053E-60 - Sample taken @ 30m in the colluvium layer; orange-tan colour; Mostly quartz; minor muscovite and magnetite. Some remnant feldspar; Average particle size: 10-20 μm. Minor bluish and yellow fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9055
CREEK:	Austin
TYPE:	Creek

PIT NUMBER: 9055A	EQUIPMENT TYPE: D7 Ripper ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 3hrs ; hoe: 7hrs
EASTING:	EQUIPMENT COST: 3 @ $130/hr ; 7hrs @ $130/hr
STARTED: June 11, 1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: July 29, 1993	TOTAL EXPENDITURE: $1352.50

PLAN VIEW



Permafrost @ 0.70m - no bedrock exposed.

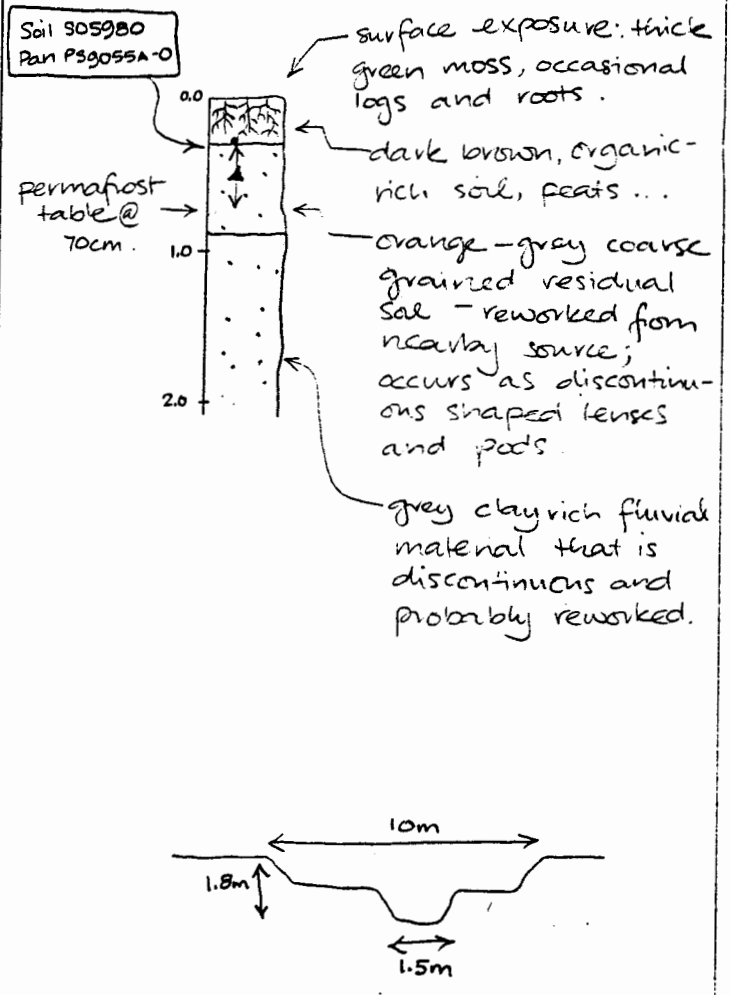
- trench is mostly frozen "black muck"; organics are roots, rotted trees, peat and moss with zones of grey, clay-rich fluvial material and orange-tan coarse-grained "residual" soil.

DIMENSIONS(m)
56 x 6.3 x 0.6

Scale 1:500

SOIL PROFILE

*taken @ 0m



1:50

COMMENTS: Very poor exposure; permafrost @ 0.70m; no bedrock exposed.

Soil S05980 19, <5, <1.6

SAMPLE NUMBERS: Soil S05980; Pan PS9055A-0

PANNING CONCENTRATE DESCRIPTION:

PS9055A-0 - sample taken @ 0m in the brown, organic rich peats and soils down to 70 cm depth; tan-grey colour; Subangular quartz, remnant feldspar, hornblende, minor remnant pyrite, and very minor magnetite; Average grain size: 50-60 µm; Minor yellow fluorescent grains.

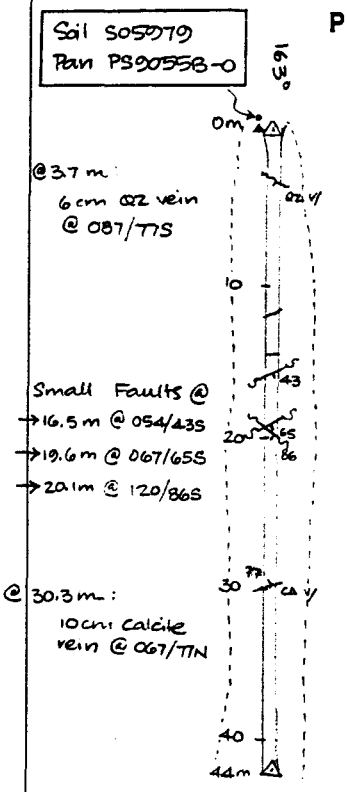
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9055
CREEK:	Austin
TYPE:	Creek

PIT NUMBER: 90558	EQUIPMENT TYPE: D6 wide Track, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 3 hrs ; Hoe: 4 hrs
EASTING:	EQUIPMENT COST: 3 @ $100/hr ; 4 @ $130/hr
STARTED: June 11, 1993	LABOUR COST: 3 hrs @ $26.25/hr
FINISHED: July 29, 1993	TOTAL EXPENDITURE: $898.75

Soil S05979
Pan PS90558-0

PLAN VIEW



0-1.2 m - residual soil of Granodiorite protolith; extremely friable with no relict textures. Minor fragments averaging 4-7 cm.

1.2-13.0 m - blocky, well jointed Granodiorite with zones of more friable, residual soil.

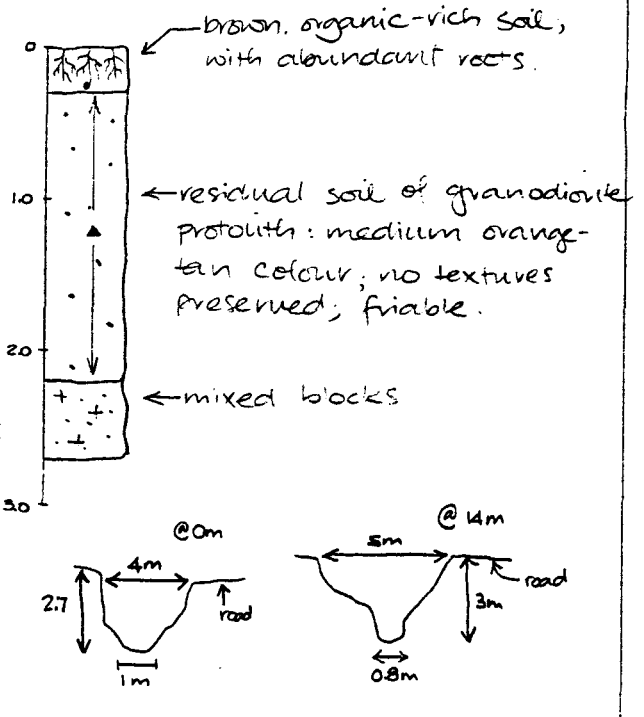
13.0-15.0 - Quartzite or a leucocratic, quartz-rich Quartz monzonite or Granodiorite.

15.0-37.3 - Blocky, well-jointed Granodiorite - weakly altered. Zones of friable, altered residual soil: due to small scale faulting.

37.3-44.0 - residual soil of granodiorite protolith; large blocks of granodiorite up to 0.7m wide.

SOIL PROFILE

taken @ 0m



Scale: 1:50

Survey Data

From	To	Orientation
0.0	44.0	163°

From	To	Inclination
0.0	5.0	-24
5.0	31.7	-02
31.7	44.0	+09

DIMENSIONS (m)
44 x 2.9 x 2.9

Scale 1:500

COMMENTS:

Soil S05979 21, 10, 1, 6

SAMPLE NUMBERS: Pan: PS90558-0; Soil: S05979

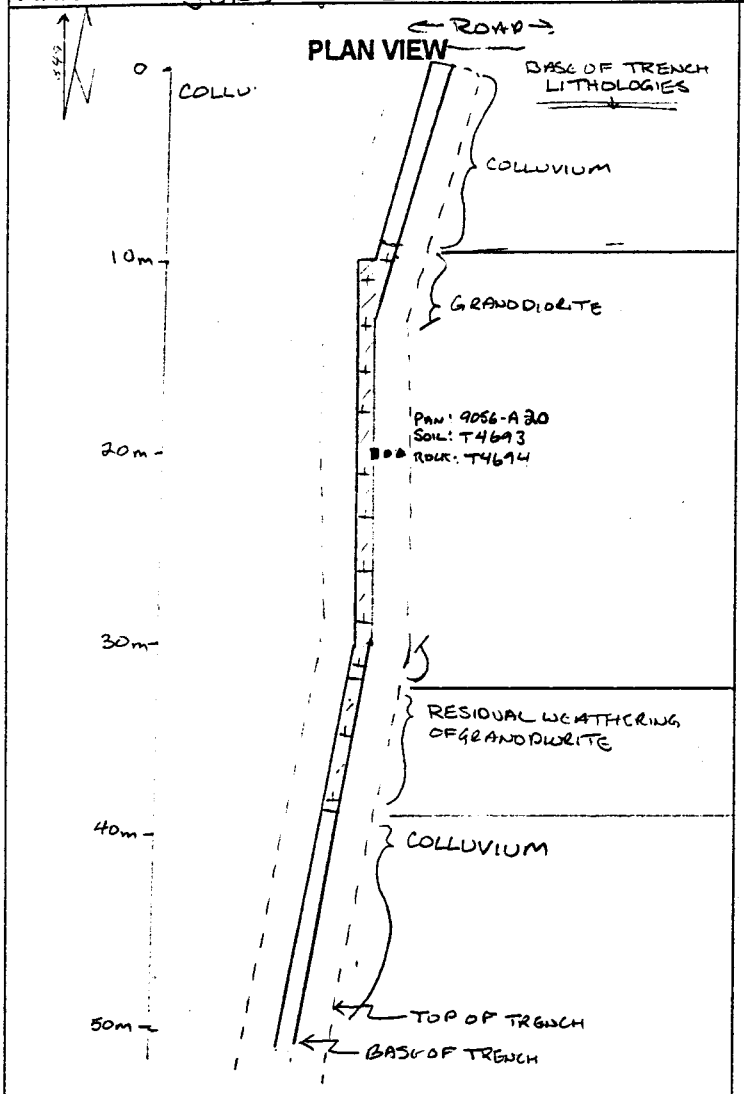
PANNING CONCENTRATE DESCRIPTION:

PS90558-0 - Sample taken @ 0m in the residual soil layer; tan colour; Mostly angular to subangular quartz, remnant feldspar, biotite. Minor Magnetite. Average particle size: 20-30 µm; Moderate amounts of fluorescent grains: blue, white and yellow.

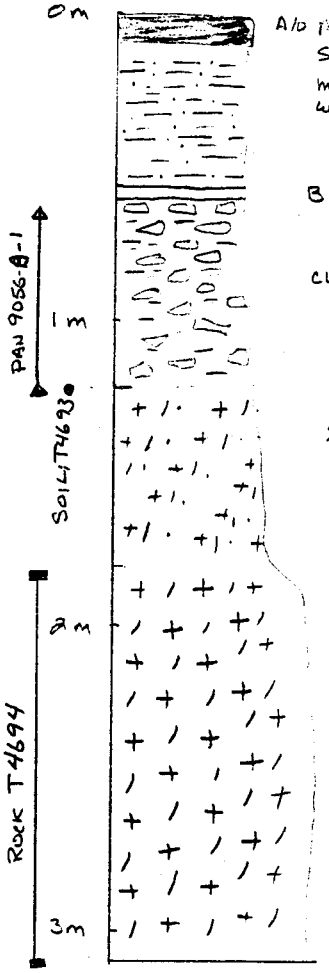
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9056
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9056-A	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: HOE: 5 HRS
EASTING:	EQUIPMENT COST: HOE @ 130/HR = $650
STARTED: JUNE 3, 1993	LABOUR COST: 6 hrs @ $26.25/hr
FINISHED: JUNE 17, 1993	TOTAL EXPENDITURE: $807.50



SOIL PROFILE @ 20m



A/O MOIST-SATURATED FROZEN SOIL ~ 10cm HUMIC ORGANIC MATTER UNDERLAIN BY BROWN SOIL WITH 60% SILT, 30% CLAY, 10% SAND

B UPTO 30cm THICK 40% SAND, 30% SILT, 20% CLAY, 10% GRAVEL

CL - KHAKI TO BROWN MATRIX SUPPORTED COLLUVIUM WITH CLASTS ± 5-15cm (MAX 50cm) MATRIX CONSIST OF 30% SAND 40% SILT, 30% CLAY

X RESIDUAL WEATHERING OF GRANODIORITE - CREAM TO RUST ORANGE - 70% SAND WITH LESSOR CLAY + SILT

GD TAN TO CREAM COLOURED ARGILLIC WEATHERED, SOFT, FRIABLE GRANODIORITE

COMMENTS: NO FLUVIAL MATERIAL.

Soil T4693 108, 110, 1, 28 Rock T4694 196, 15, 1, 14 /0m

SAMPLE NUMBERS: PAN: 9056-A-20, SOIL: T4693, ROCK: T4694

PANNING CONCENTRATE DESCRIPTION:

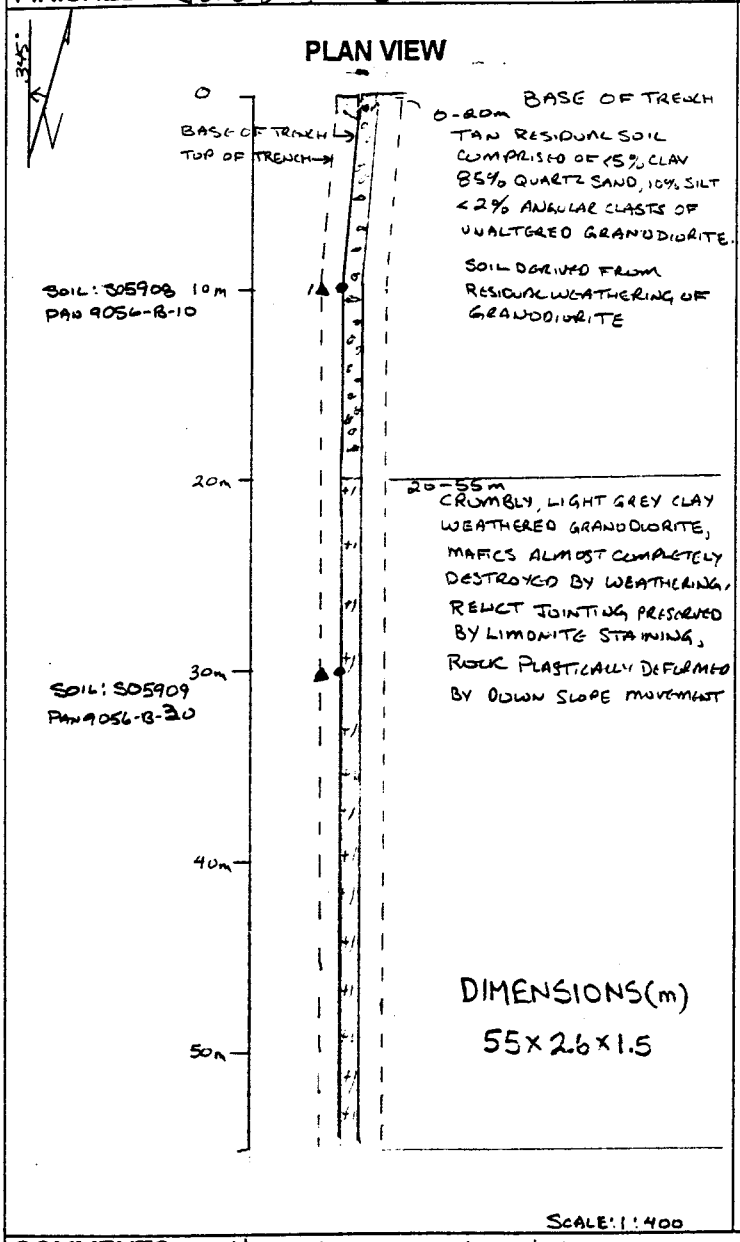
PS9056A-20- sample taken @ 20m in the colluvium layer. light tan colour; mostly Quartz, magnetite, remnant feldspar, hornblende, minor Biotite Average particle size: 10-20μm; Minor yellow, blue and white fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9056-
CREEK: CASINO
TYPE: BENCH

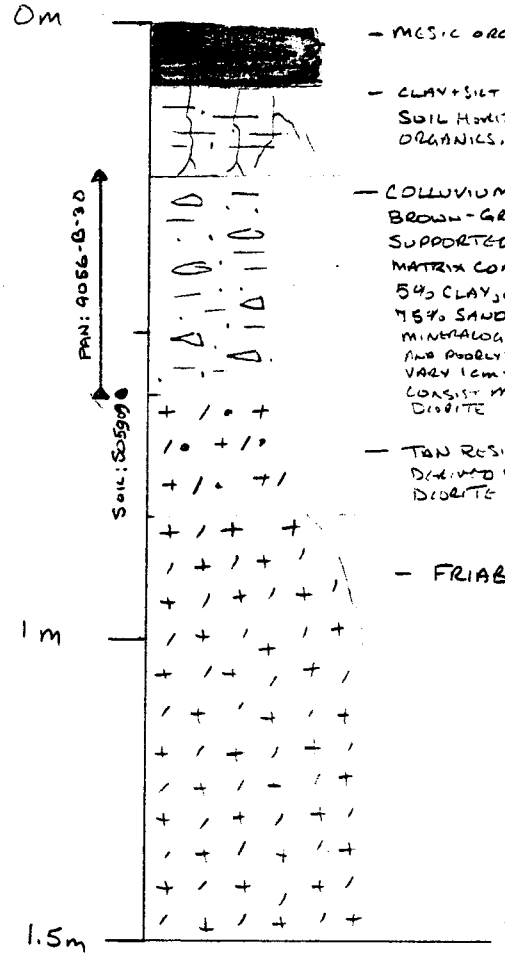
PIT NUMBER: 9056-B	EQUIPMENT TYPE: HITACHI HUE
NORTHING:	EQUIPMENT HOURS: 4 HRS
EASTING:	EQUIPMENT COST: @ 130/HR = 520
STARTED: JUNE 17, 1993	LABOUR COST: 3 hrs @ $26.25/hr
FINISHED: JUNE 24, 1993	TOTAL EXPENDITURE: $598.75

PLAN VIEW



SCALE: 1:400

SOIL PROFILE @ 30m



COMMENTS: No rock samples taken.

Soil S05908 59, 35, 1, 24
S05909 49, 35, <1, 28

SAMPLE NUMBERS: SOIL: S05908, S05909 Pan: 9056B-10, 9056B-30

PANNING CONCENTRATE DESCRIPTION:

PAN: 9056-B10 LIGHT ORANGE-BROWN WITH GRAINS OF DECOMPOSED GRANODIORITE: QUARTZ, HORNBLENDE, BIOTITE/MUSCOVITE ± FELDSPARS, MAGNETITE. AVE PARTICLE ≈ 40mm

PAN: 9056-B30 LIGHT BROWN. AVE SIZE 30mm ~ DECOMPOSED GRANODIORITE, QUARTZ, FELDSPAR, MAFICS MINOR MAGNETITE AND CELESTITE

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

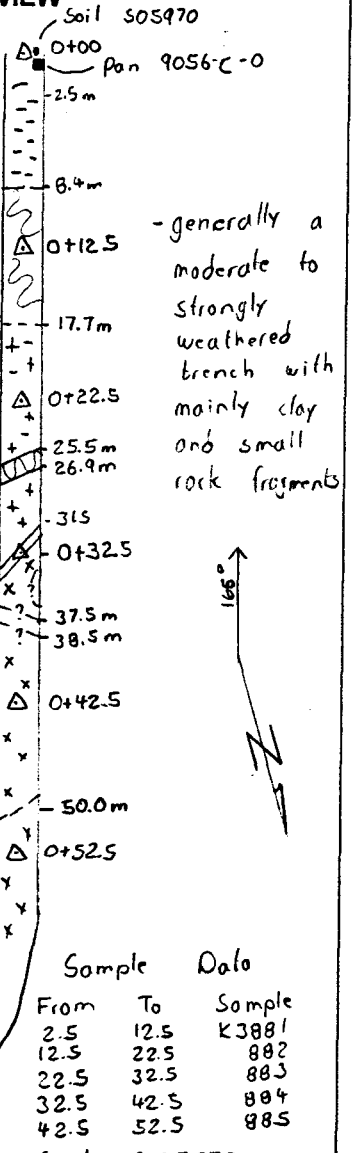
LEASE NO.:	PL9056
CREEK:	Casino
TYPE:	Bench

PIT NUMBER: 9056C	EQUIPMENT TYPE: D6 WIDETRACK CAT; HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D6: 2 HRS ; HOE 4 HRS
EASTING:	EQUIPMENT COST: D6 @ 100/HR = 200, HOE @ 130 = 520
STARTED: JUNE 23, 1993	LABOUR COST: 5 hrs @ $26.25/hr
FINISHED: June 30, 1993	TOTAL EXPENDITURE: $851.25

Survey Data

From	To	Strike	Dip
0	42.5	354°	-12°
42.5	62.5	10°	-8°
62.5	82.0	15°	-6°

PLAN VIEW 1:500



0-8.4m YMXX

8.4 - 17.7 poor exposure but appears to be a gouge zone

17.7 - 25.5 WRGD with zones of YMXX

25.5 - 26.9 clay gouge

26.9 - 31.5 WRGD

31.5 - 32.0 clay gouge

32.0 - 37.5 QMFX

37.5 - 38.5 clay gouge with pyrite

38.5 - 50.0 QMFX with minor gouge zones

50.0 - 55.5 less weathered QMFX

- generally a moderate to strongly weathered trench with mainly clay and small rock fragments

- Yukon Metamorphic Complex (YMXX)
- Dawson Range Granodiorite (WRGD)
- Fine Grained Quartz Monzonite

DIMENSIONS(m)

60 X 3.5 X 1.8

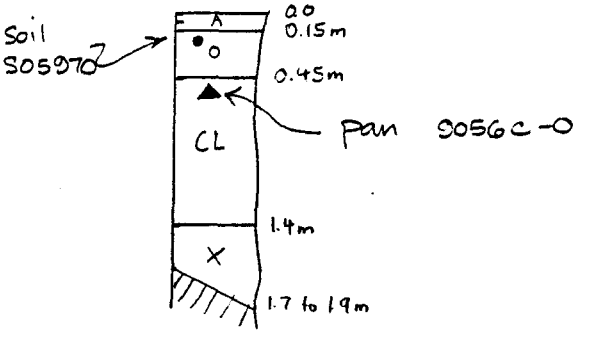
Sample Data

From	To	Sample
2.5	12.5	K3881
12.5	22.5	882
22.5	32.5	883
32.5	42.5	884
42.5	52.5	885

• Soil S05970

SOIL PROFILE 1:50

taken @ 0m:



A - organics plus black muck

O - grey organics with roots and rock

CL - colluvium, grey to black, rock fragments some ice

X - residual bedrock, some rock, mainly clay. good ice

/// - bedrock with ice

COMMENTS: No glacial or fluvial material, common ice lenses in colluvium and along fractures in bedrock. some water + seeps in trench

Soil S05970 74, <5, <1, 24 Rock K3881 104, 225, 1, 26 /10m K3884 98, 155, 2, 410 /10m
K3882 279, 185, <1, 20 /10m K3885 210, 60, 12, 38 / 10m
K3883 231, 190, 1, 104 /10m

SAMPLE NUMBERS: Soil Sample S05970 pan 9056-C-0 ; Rock Samples: K3881-K3885

PANNING CONCENTRATE DESCRIPTION:

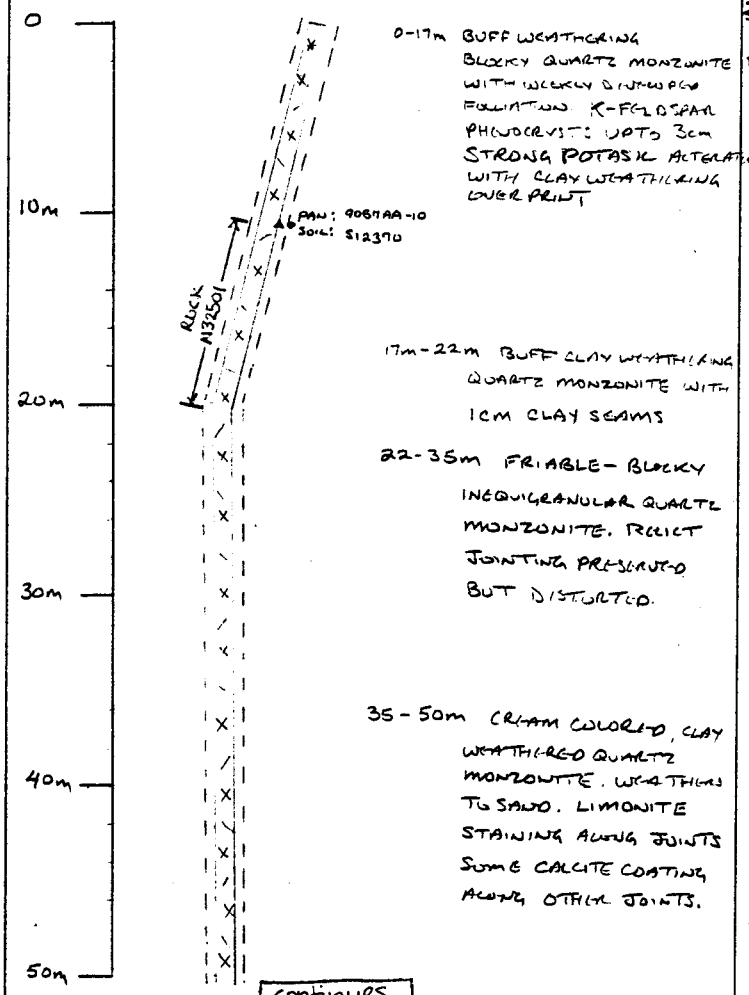
9056C-0: orange tan colour; Sample taken @ 0m in the grey to black colluvium layer. decomposed granodiorite: subangular pieces of quartz, feldspar, HBL, magnetite, muscovite? Fine particle size: 20µm. Minor yellow and blue fluorescent grains.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

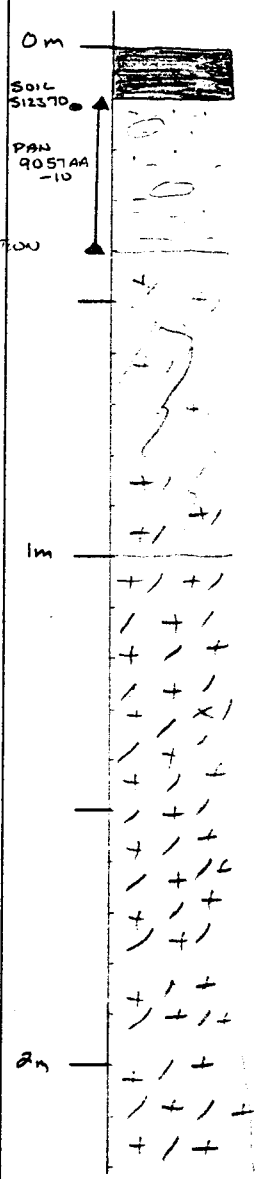
LEASE NO.: PL 9057
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9057AA	EQUIPMENT TYPE: D6 Wide Track; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.5 hrs; hoe: 4 hrs
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr; 4 @ $130/hr
STARTED: June 13/93	LABOUR COST: 2.0 hrs @ $26.25/hr
FINISHED: August 3/93	TOTAL EXPENDITURE: $722.50

PLAN VIEW Scale 1:400



SOIL PROFILE @10m



- BLACK MOIST HUMIC ORGANIC SOIL
- ORANGE BROWN MINERAL SOIL, MOIST, SILT 70%, 20% SAND, 10% GRAVEL
- CRUMBLY - BLOCKY RUST WEATHERING INEQUIGRANULAR QUARTZ MONZONITE
- CLAY WEATHERED QUARTZ MONZONITE

Scale 1:15

COMMENTS:

Soil S12370 21, <5, <1, 16 Rock N32501 4, <5, <1, 8

SAMPLE NUMBERS: PAN: 9057AA-10, Soil S12370 ROCK: N32501

PANNING CONCENTRATE DESCRIPTION:

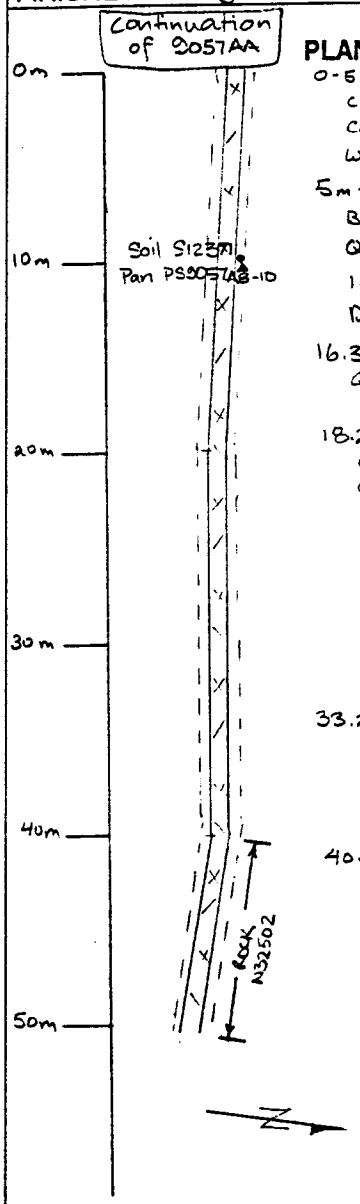
PS 9057AA: COARSE FRACTION: FINE PEBBLES TO IRREGULAR ANGULAR COBBLES.
FINE FRACTION: FILL - V. FINE SAND <1% Magnetite, 20% MAFICS DOMINANTLY BIOTITE WITH LESSER HORNBLENDE (STABLE) 40% QUARTZ SAND 35% FELDSPAR SAND (UNSTABLE - CLAY WEATHERING)

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9057
CREEK: AUSTIN
TYPE: BENCH

PIT NUMBER: 9057 AB	EQUIPMENT TYPE: D6 Wide Track, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 1.5hrs ; hoe: 4hrs
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr ; 4 @ $130/hr
STARTED: June 13/93	LABOUR COST: 2.0 hrs @ $26.25/hr
FINISHED: August 3/93	TOTAL EXPENDITURE: $722.50

PLAN VIEW



0-5 m
CREAM-WHITE WEATHERING CLAY ALTERED QUARTZ MONZONITE WEATHERING TO SAND

5m - 16.3m
BUFF WEATHERING CRUMBLY QUARTZ MONZONITE WITH INCREASING CLAST SIZE WITH DEPTH.

16.3m - 18.20m CLAY ALTERED QUARTZ MONZONITE

18.20 - 33.20 m LIGHT BROWN WEATHERING GRAVEL + SILT QUARTZ MONZONITE CRUMBLY BREAKS INTO COARSE PEBBLE SIZE CLASTS.

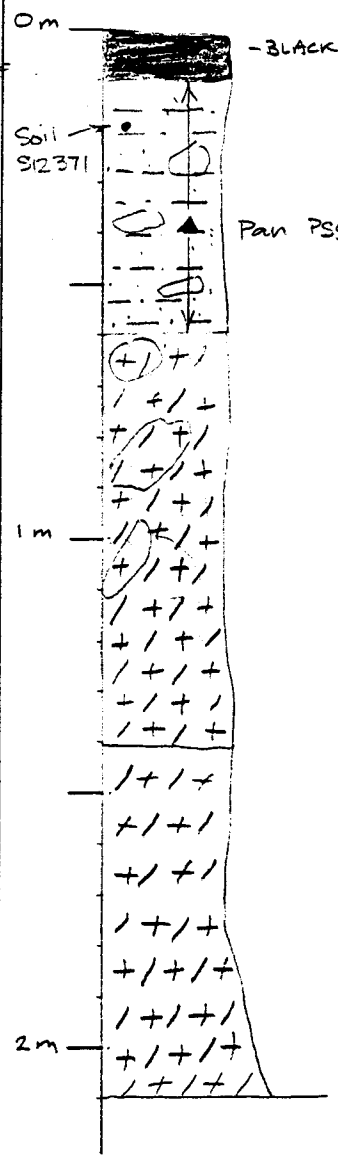
33.20 - 40m
BROWN WEATHERING FRIABLE QUARTZ MONZONITE.

40 - 50m RESIDUAL SAND/SILT AFTER QUARTZ MONZONITE CREAM-GREY SOFT CRUMBLY PLIABLE

DIMENSIONS (m)
50 X 1.5 X 2.1

Scale 1:400

SOIL PROFILE



- BLACK MOIST HUMIC ORGANIC SOIL
- MEDIUM-DARK BROWN SOIL. 10% GRAVEL, 20% SAND 68% SILT, 2% CLAY
- CREAM WEATHERING QUARTZ MONZONITE WEATHERING TO GRAVEL
- BLOCKY QUARTZ MONZONITE

Scale 1:15

COMMENTS:

Soil S12371 23 <5 <1 18 Rock N32502 7 <5 2 8 /10m

SAMPLE NUMBERS: Soil : S12371 ; Pan PS9057AB-10 ROCK N32502

PANNING CONCENTRATE DESCRIPTION:

PS 9057-AB-10 COARSE FRACTION: IRREGULAR ANGULAR PEBBLES OF CLAY WEATHERING GRANODIORITE

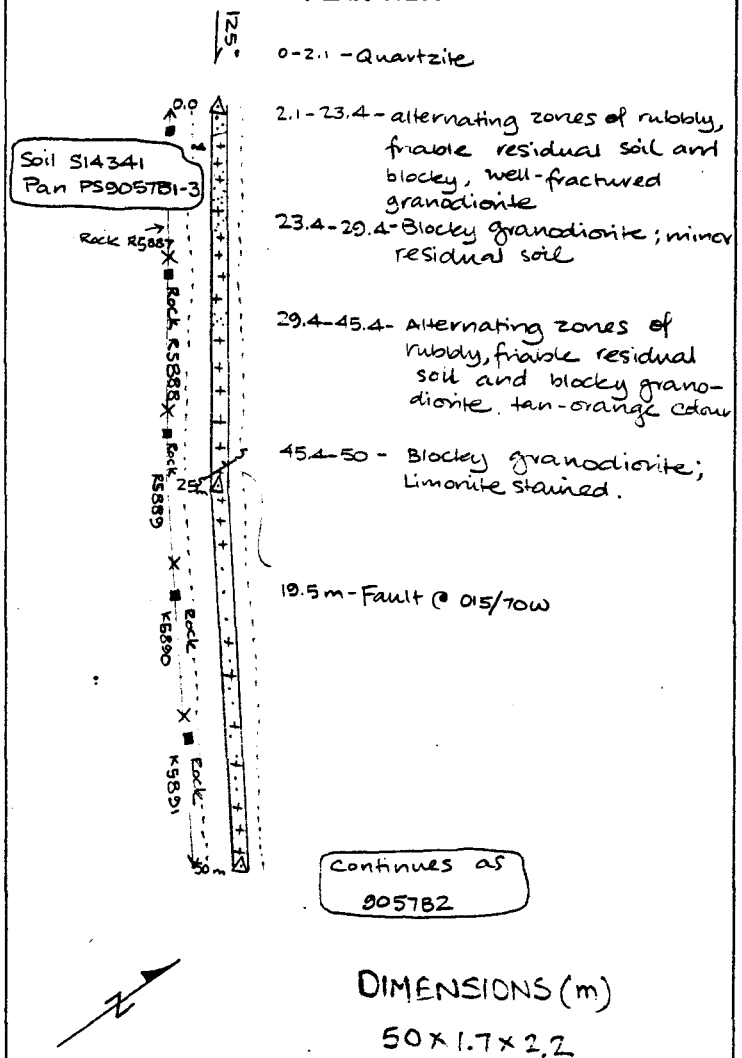
FINE FRACTION: FINE-SAND <0.5% MAGNETITE, 90% QUARTZ, <3% BIOTITE <5% FELDSPAR (MAY WEATHER)

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9057
CREEK:	Austin
TYPE:	Bench

PIT NUMBER: 9057B1	EQUIPMENT TYPE: D6 wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 3.5 hrs; hoe: 1 hr
EASTING:	EQUIPMENT COST: 3.5 @ $100/hr; 1 @ $130/hr
STARTED: August 11/93	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: August 13/93	TOTAL EXPENDITURE: $532.50

PLAN VIEW



0-2.1 - Quartzite

2.1-23.4 - alternating zones of rubbly, friable residual soil and blocky, well-fractured granodiorite

23.4-29.4 - Blocky granodiorite; minor residual soil

29.4-45.4 - Alternating zones of rubbly, friable residual soil and blocky granodiorite. tan-orange colour

45.4-50 - Blocky granodiorite; Limonite stained.

19.5 m - Fault @ 015/70W

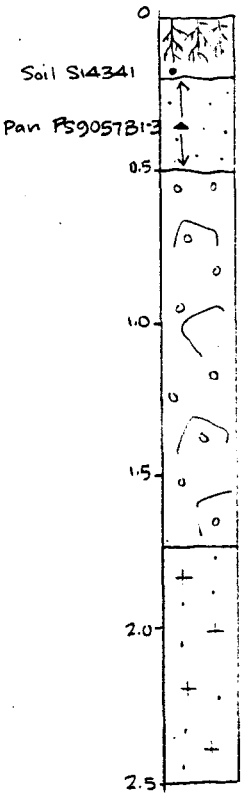
Continues as 9057B2

DIMENSIONS (m)
50 × 1.7 × 2.2

Scale 1:500

SOIL PROFILE

taken @ 0m.



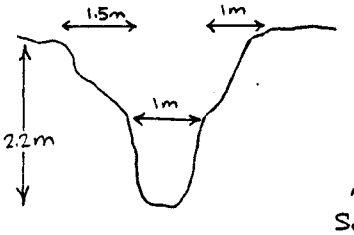
← organic-rich brown soil

← residual soil; tan-grey colour; friable

← blocky quartzite unit; hard; dendritic Mn staining on fracture surfaces; grey-tan colour; minor residual soil

← blocky granodiorite

Typical cross section:



Scale 1:25

COMMENTS:

Soil S14341 18, <5, <1, 16 Rock R5887 4, <5, 1, 16/10m R5890 1, <5, 12, <1 /10m
R5888 1, <5 <1, 14 /10m R5891 3 <5, 16, <1 /10m
R5889 3 <5 <1, 14 /10m

SAMPLE NUMBERS: Soil: S14341; Pan-PS9057B1-3; Rock: R5887-R5891

PANNING CONCENTRATE DESCRIPTION:

PS9057B1-3 - sample taken @ 3m in the residual soil layer; orange to tan colour; mostly Quartz, remnant feldspar and biotite; some biotite has altered to chlorite; sub-angular fragments; Average particle size: 20-25 µm. Minor magnetite; Minor fluorescent orange grains

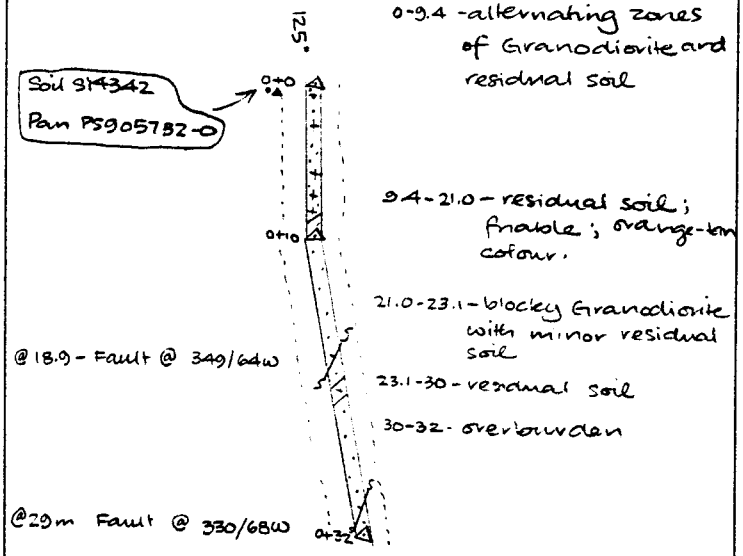
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9057
CREEK:	Austin
TYPE:	Bench

PIT NUMBER: 9057B2	EQUIPMENT TYPE: D6 Wide Track; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D6: 2 hrs; hoe: 1 hr
EASTING:	EQUIPMENT COST: 2 @ $100/hr; 1 @ $130/hr
STARTED: August 11/93	LABOUR COST: 2 hrs @ $26.25
FINISHED: August 13/93	TOTAL EXPENDITURE: $382.50

1:500

PLAN VIEW



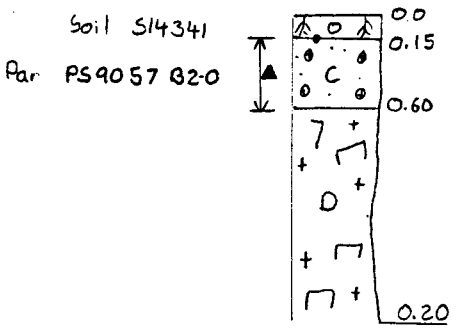
DIMENSIONS (m)

32 x 2 x 2

1:50

SOIL PROFILE

at 0.0m



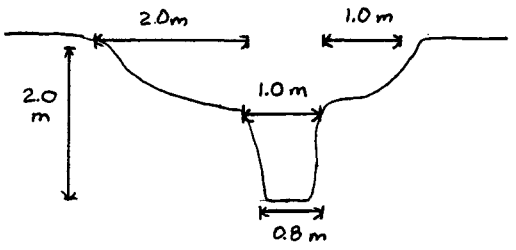
O - organics, organic rich brown soil

C - colluvium, mixed residual soil and granodiorite clasts/blocks

D - decomposed bedrock, blocky granodiorite with minor residual soil

Typical Cross Section

1:100



COMMENTS:

Soil S14342 24, 25, 21, 12

SAMPLE NUMBERS: Soil S14342; Pan PS9057B2-0

PANNING CONCENTRATE DESCRIPTION:

PS9057B-0 - sample taken @ 0m in the colluvium layer; orange-tan colour; mostly subangular grains of quartz, remnant feldspar, biotite, very minor magnetite; Average particle size: 30-40μm. Minor fluorescent orange grains.

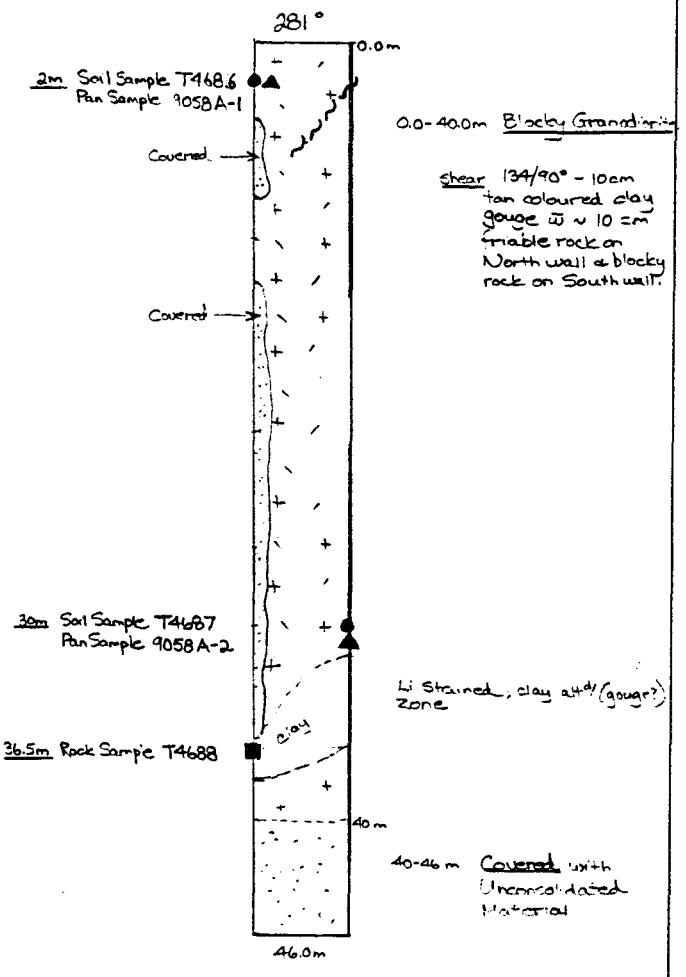
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	P.L. 9058
CREEK:	CASINO
TYPE:	BENCH

PIT NUMBER:	9058 - A
NORTHING:	
EASTING:	
STARTED:	JUNE 10, 1993
FINISHED:	June 16, 1993
EQUIPMENT TYPE:	D7 - WINCH CAT, HITACHI HOE
EQUIPMENT HOURS:	D7 - 1 hr Hoe - 3 hr
EQUIPMENT COST:	D7 @ 100/hr = 100 Hoe @ 130/hr = 390
LABOUR COST:	6 hrs @ 26.25 = 157.50
TOTAL EXPENDITURE:	$ 647.50

PLAN VIEW

Scale: 1:400

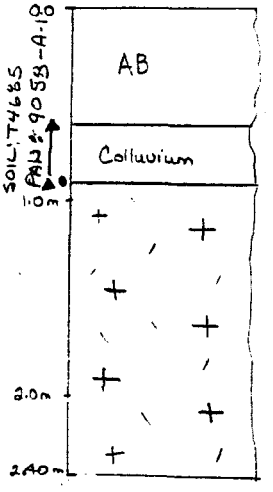


DIMENSIONS (m)

46 × 1.5 × 2

SOIL PROFILE

@ 2m



- WELL DRAINED SANDY SOIL WITH ORGANICS; CHOCOLATE BROWN, ~60% SAND - 35% SILT & CLAY, TOP 10-15
- MATRIX SUPPORTED COLLUVIUM WITH ANGULAR CLASTS OF GRANODIORITE
- BLOCKY, WELL JOINTED UNALTERED GRANODIORITE WITH DARK BROWN LIMONITE STAINING ON JOINTS.

COMMENTS:

Soil T4686 28, <5, <1, 92 Rock T4688 46, 65, 1, 154 / 0m
T4687 40, 20, 1, 318

SAMPLE NUMBERS: Soil: T4686 T4687 ; Rock: T4688 Pan: 9058A-1, 9058A-2

PANNING CONCENTRATE DESCRIPTION:

9058A-1: medium orange - brown colour; sample taken just above bedrock @ 2m. "young soil" of decomposed Granodiorite: quartz, BI, HB, some Feldspars. minor magnetite. Average particle size - 20-25μm

9058A-2 - sample taken @ 30m just above bedrock; young soil composed of angular grains of Q2, HB, minor feldspar, orange - tan colour. Average particle size - 10μm.

- both samples A-1 + A2 have minor yellow and white fluorescent grains

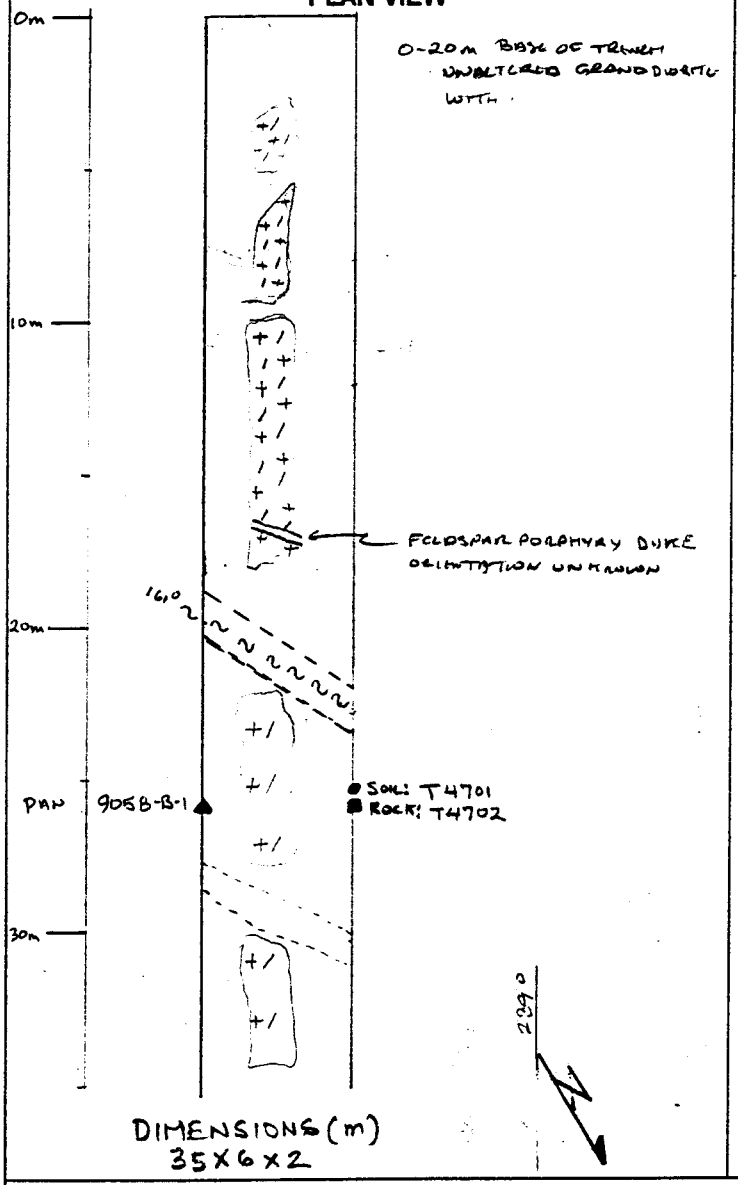
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9058
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9058-B	EQUIPMENT TYPE: CAT D-7 - WINCH
NORTHING:	EQUIPMENT HOURS: 4
EASTING:	EQUIPMENT COST: @ 100/HR = 400
STARTED: JUNE 11, 1993	LABOUR COST: 7 @ 26.25 = $ 183.75
FINISHED: JUNE 13, 1993	TOTAL EXPENDITURE: 583.75

PLAN VIEW

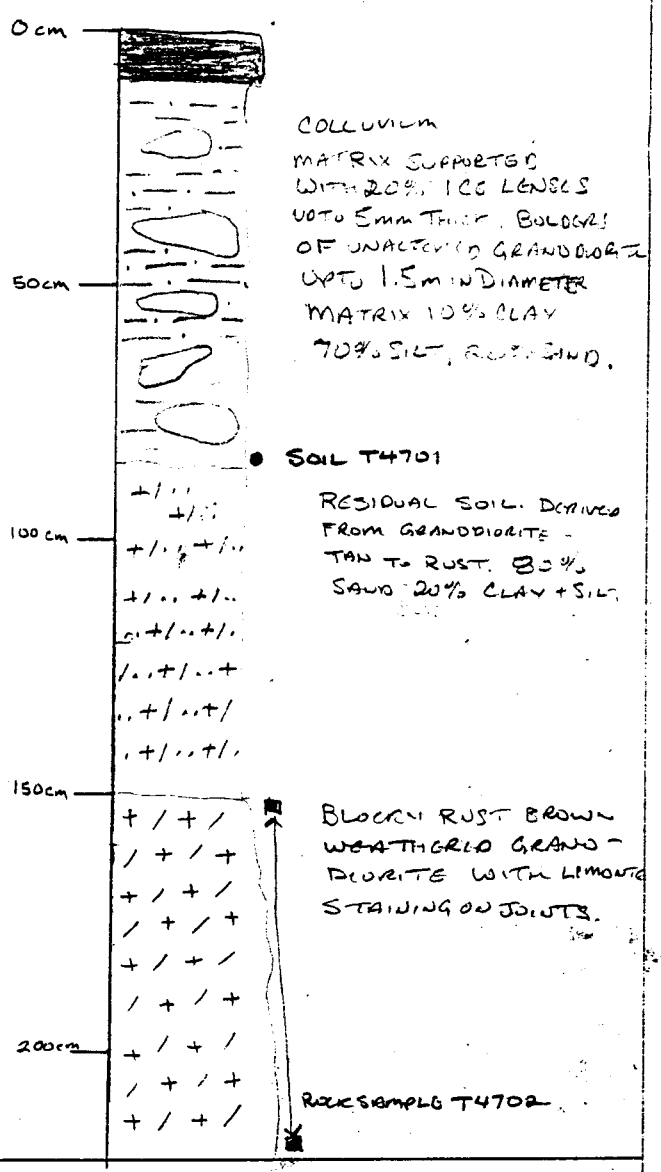
SCALE 1:250



DIMENSIONS (m)
35 X 6 X 2

SOIL PROFILE @ 25m

SCALE 1:15



COMMENTS: POOR PLACER MATERIAL.

Soil T4701 168, 140, 3.62 Rock T4702 269, 30, 2, 74 /0m

SAMPLE NUMBERS: Soil T4701 Rock T4702

PANNING CONCENTRATE DESCRIPTION:

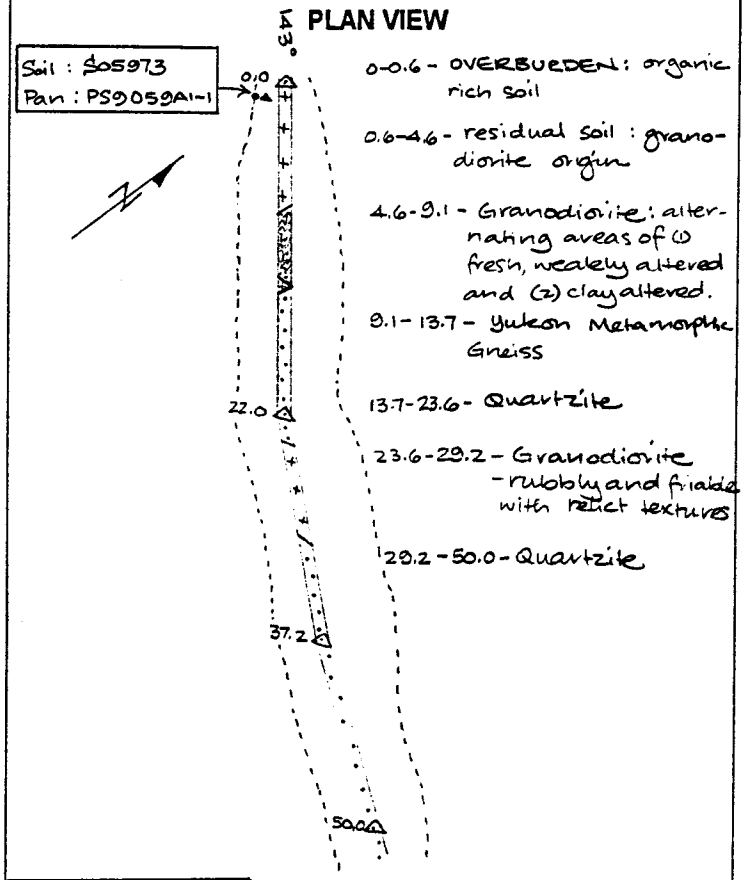
PS9058B-1: medium orange brown colour; sample taken above bedrock @ 0m mostly quartz, some magnetite and hornblende. Limonite staining on grains. some small grains with yellow fluorescence

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9059
CREEK:	Brynelsen
TYPE:	Bench.

PIT NUMBER: 9059A1	EQUIPMENT TYPE: HITACHI HOE, D6 WIDE TRACK, D7
NORTHING:	EQUIPMENT HOURS: HOE: 7hr; D6: 0.5hr; D7: 2 hrs
EASTING:	EQUIPMENT COST: 7@ $130/hr; 0.5 @ $100/hr; 2@130/hr
STARTED: June 7/93	LABOUR COST: 4 hrs @ $26.25 hr
FINISHED: July 25/93	TOTAL EXPENDITURE: $1325.00

PLAN VIEW



0-0.6 - OVERBUEDEN: organic rich soil

0.6-4.6 - residual soil: granodiorite origin

4.6-9.1 - Granodiorite: alternating areas of (1) fresh, weakely altered and (2) clay altered.

9.1-13.7 - Yukon Metamorphic Gneiss

13.7-23.6 - Quartzite

23.6-29.2 - Granodiorite - rubbly and friable with relict textures

29.2-50.0 - Quartzite

↓ continues as trench 9059A2.

SURVEY DATA.

From	To	Orientation
0.0	22.0	143°
22.0	37.2	133°
37.2	50.0	127°

From	To	Inclination
0.0	4.4	-40°
4.4	14.0	+09°
14.0	32.8	+11°
32.8	50.0	-04°

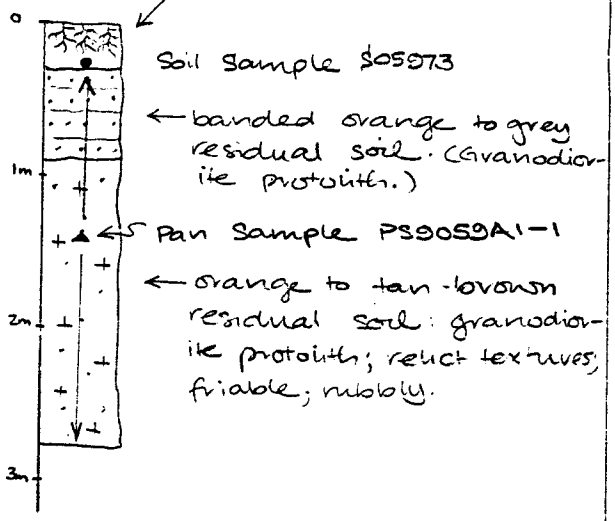
DIMENSIONS(m)

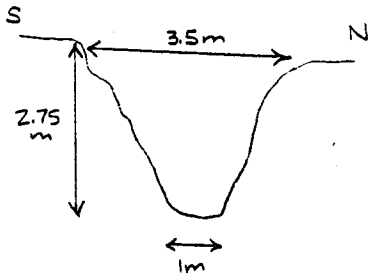
50 X 2.3 X 2.8

Scale: 1:500

SOIL PROFILE

* taken @ 1m





Scale: 1:50

COMMENTS: No rock samples taken.

Soil S05973 24, <5, 2.8

SAMPLE NUMBERS: Pan: PS9059A1-1; Soil: S05973;

PANNING CONCENTRATE DESCRIPTION:

9059A1-1: Sample taken @ 1m in the residual soil layer; orange-grey colour; decomposed Granodiorite: sub-rounded quartz, biotite, remnant feldspar, magnetite. Ave. particle size: 40μm

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

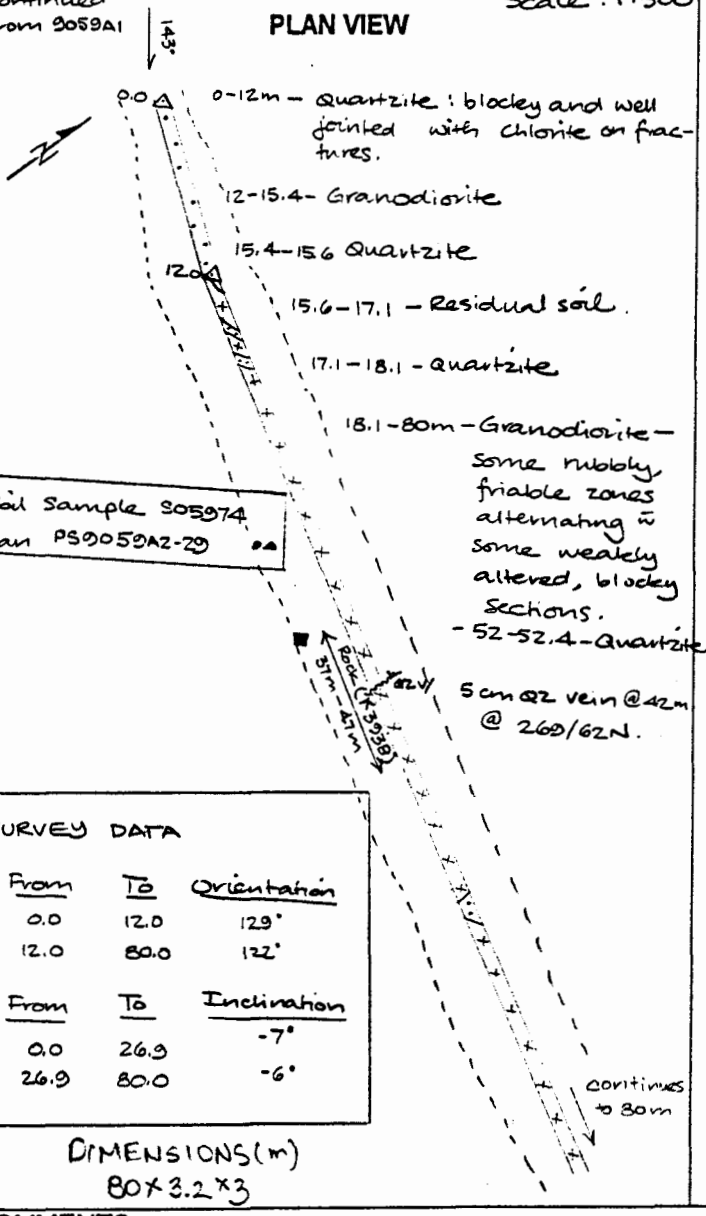
LEASE NO.:	9059
CREEK:	Brynelsen
TYPE:	Bench

PIT NUMBER: 9059A2	EQUIPMENT TYPE: HITACHI HOE; D6 WIDE TRACK, D7
NORTHING:	EQUIPMENT HOURS: HOE: 7hr; D6: 0.5hr; D7: 2.5hr
EASTING:	EQUIPMENT COST: 7 @ $130/hr; 0.5 @ $100.; 2.5 @ $130/hr
STARTED: June 7/93	LABOUR COST: 4.5 hrs @ $26.25/hr
FINISHED: July 25/93	TOTAL EXPENDITURE: $1403.13

continued from 9059A1

PLAN VIEW

Scale: 1:500



SURVEY DATA

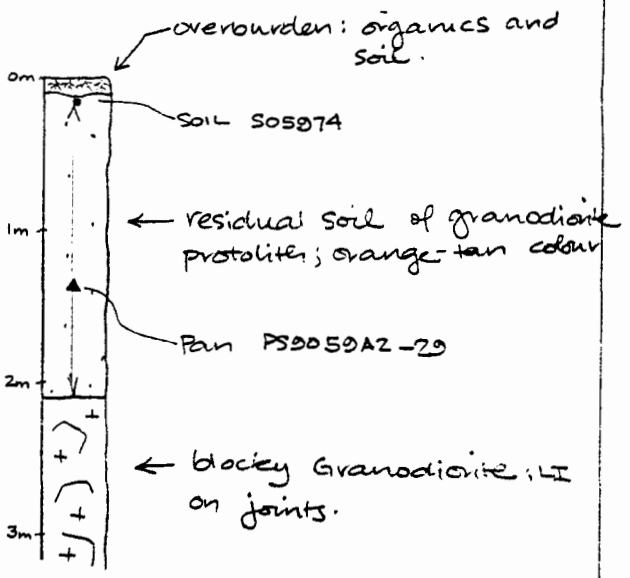
From	To	Orientation
0.0	12.0	129°
12.0	80.0	122°

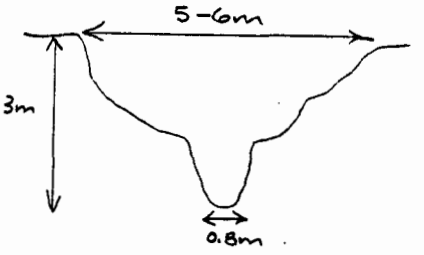
From	To	Inclination
0.0	26.9	-7°
26.9	80.0	-6°

DIMENSIONS(m)
80 × 3.2 × 3

SOIL PROFILE

* Taken @ 29m





Scale: 1:50

COMMENTS:

Soil S05974 27.<5.2.10 Rock K3938 28.<5.2.6 /10m

SAMPLE NUMBERS: Pan: PS9059A2-29; Soil: S05974; Rock: K3938

PANNING CONCENTRATE DESCRIPTION:

PS9059A2-29: Sample taken @ 29m in the residual soil layer; orange-green colour; very "young", weathered insitu granodiorite. Angular particles; Mostly quartz, biotite > hornblende, remnant hornblende, minor magnetite. Average grain size: 100μm. Minor fluorescent yellow grains - possibly powellite.

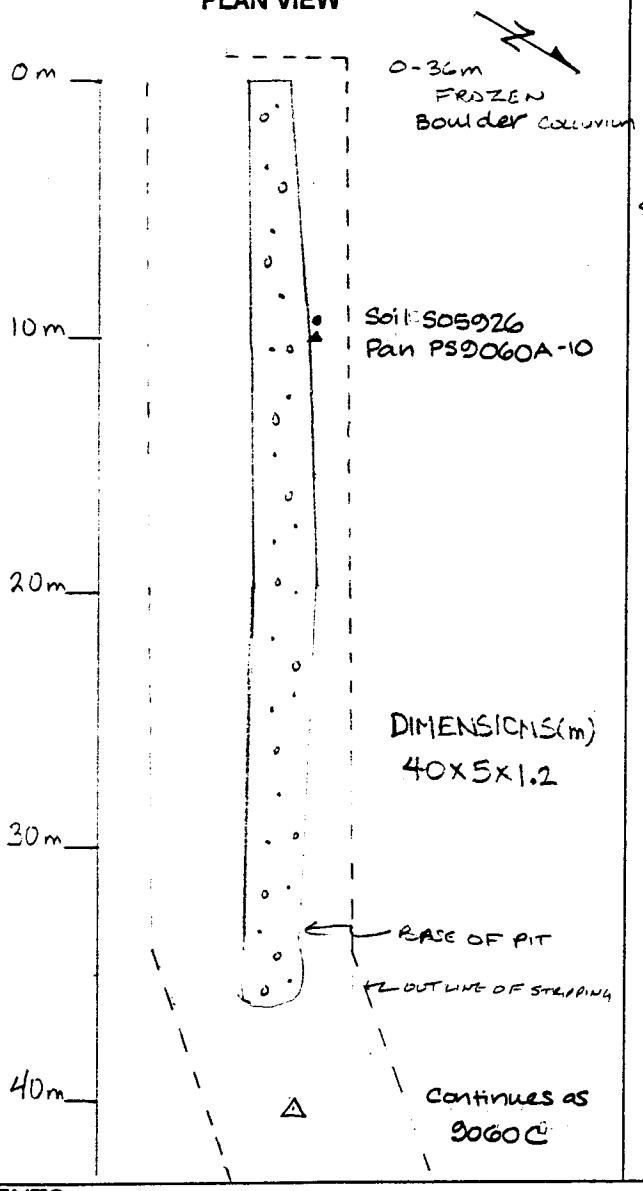
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9060
CREEK: CASINO
TYPE: BENCH

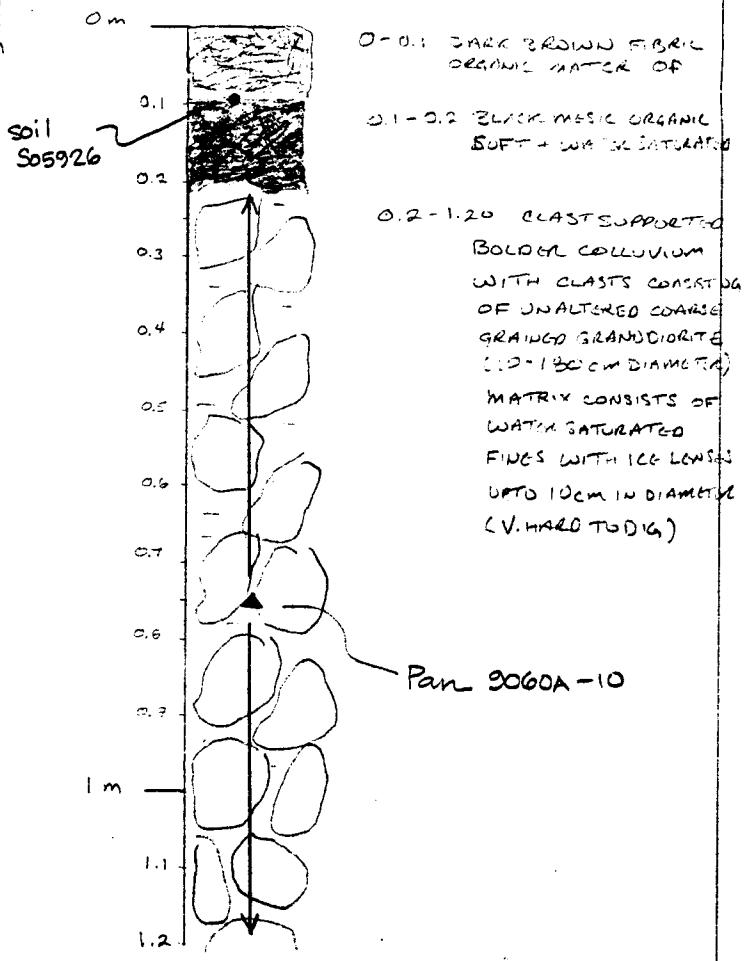
PIT NUMBER: 9060-A	EQUIPMENT TYPE: D7 Winch; Hitachi hoe
NORTHING:	EQUIPMENT HOURS: D7: 1.5 hrs; hoe: 3 hrs
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr; 3 @ $130/hr
STARTED: June 6/93	LABOUR COST: 5 hrs @ $26.25/hr
FINISHED: July 8/93	TOTAL EXPENDITURE: $671.25

Scale: 1:300

PLAN VIEW



SOIL PROFILE @ 10m



Scale: 1:10

COMMENTS: DUE TO PERMAFROST, DIGGING WAS RESTRICTED TO UPPER 1.2m. FURTHER TEST PIT DIGGING PROGRAM NEXT YEAR AFTER PERMAFROST MELT.

Soil S05926 51,200 1.78

SAMPLE NUMBERS: PAN: 9060-A10 . SOIL: S05926

PANNING CONCENTRATE DESCRIPTION:

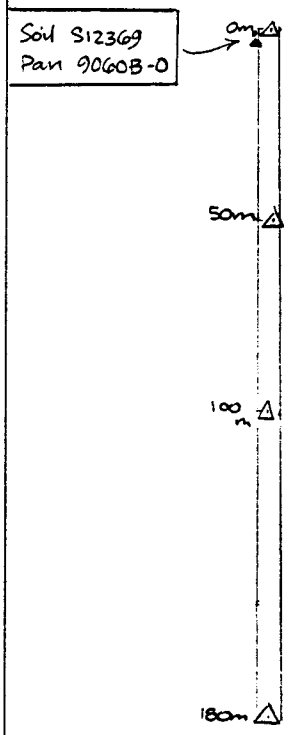
9060A-10: pan sample taken @ 10m in clast supported colluvium layer; med. tan brown colour; Mostly quartz, minor hornblende and pyrite; Minor Magnetite. Ave. particle size ~ 25 mm. Minor Orange fluorescing mineral (usually colourless in plain light) — possibly powellite?

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9060
CREEK:	Canadian
TYPE:	Bench.

PIT NUMBER: 9060B	EQUIPMENT TYPE: D6 Wide Track.
NORTHING:	EQUIPMENT HOURS: D6 : 2 hrs
EASTING:	EQUIPMENT COST: 2 @ $100/hr
STARTED: June 8/1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: July 31/1993	TOTAL EXPENDITURE: $252.50

PLAN VIEW



basically a cat trench with poor exposure - some areas may expose bedrock.

0-13m - colluvium and organic-rich soil

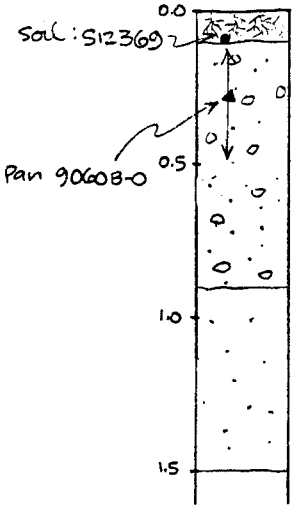
13-25 - decomposed soil or bedrock - granodiorite with argillic overprint

25-180m - very poor exposure - colluvium; rocks in the float are granodiorite.

DIMENSIONS (m)
180 x 4.5 x 1.5

SOIL PROFILE

taken @ 0m.

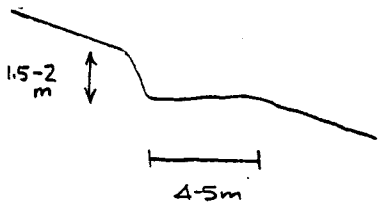


10cm black organics with some brown clay and sand.

colluvium, light yellow to brown; clay, sand and small rock fragments of granodiorite

well developed decomposed bedrock of granodiorite; residual soil.
*possible exposure of bedrock in some sections.

typical cross section



Scale: 1:25

Survey Data

From	To	Strike	Dip
0	50	45°	-8°
50	100	45°	-17°
100	180	45°	-17°

Scale: 1:2000

COMMENTS:

Soil S12369 86 315 8 42

SAMPLE NUMBERS: Soil : S12369 ; Pan : 9060B-0

PANNING CONCENTRATE DESCRIPTION:

PS9060B-0 : Sample taken @ 0m in the colluvium layer to a depth of 0.5m. Pale tan colour; Mostly subrounded grains of Quartz. Minor remnant feldspar, pyrite, Average grain size: 75-90µm. Minor yellow fluorescent grains.

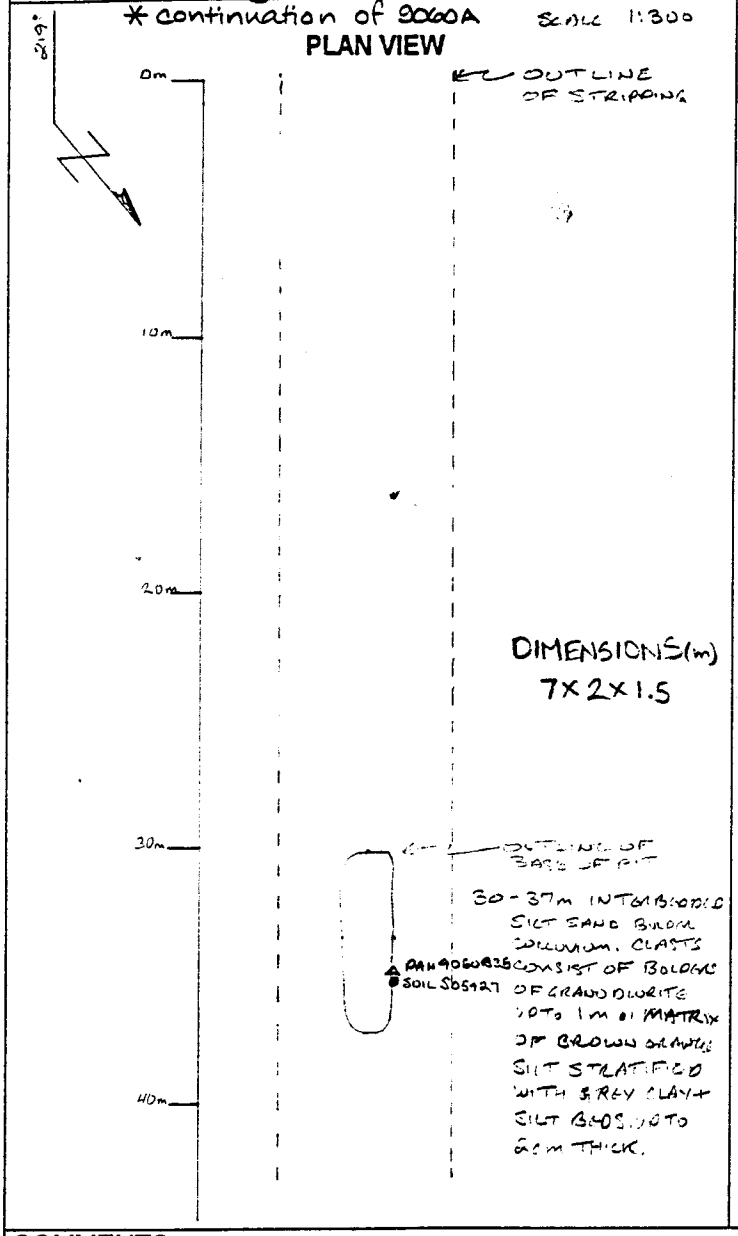
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9060
CREEK: CASINO
TYPE: BENCH

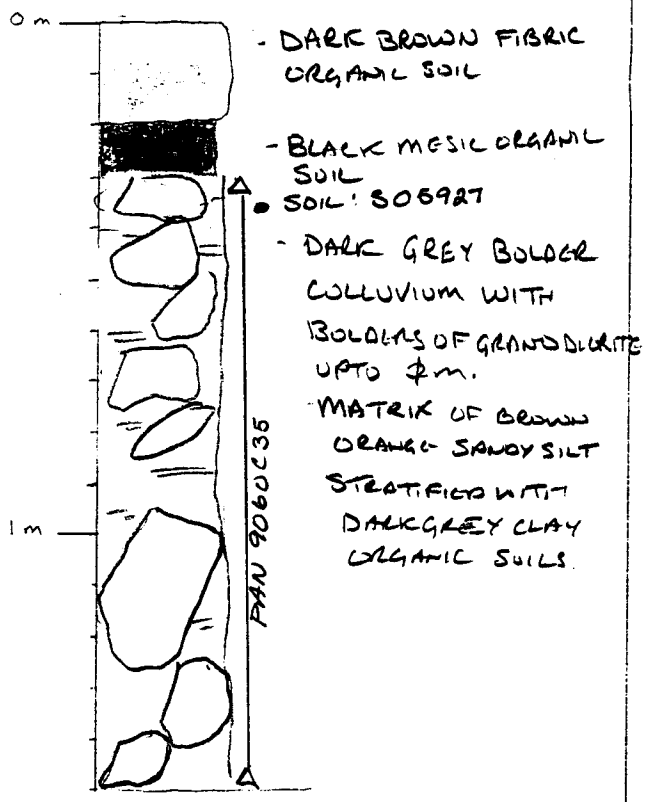
PIT NUMBER: 9060-C	EQUIPMENT TYPE: D7 Winch; Hitachi Hoe.
NORTHING:	EQUIPMENT HOURS: D7: 1.5hrs; hoe: 1hr.
EASTING:	EQUIPMENT COST: 1.5 @ $100/hr; 1 hr @ $130/hr
STARTED: June 8, 1993	LABOUR COST: 1.5hrs @ $26.25/hr
FINISHED: July 8, 1993	TOTAL EXPENDITURE: $319.38

* continuation of 9060A SCALE 1:300

PLAN VIEW



SOIL PROFILE @ 35m



COMMENTS:

Soil S05927 50.55, 1.70

SAMPLE NUMBERS: SOIL: S05927, PAN: 9060-C35

PANNING CONCENTRATE DESCRIPTION:

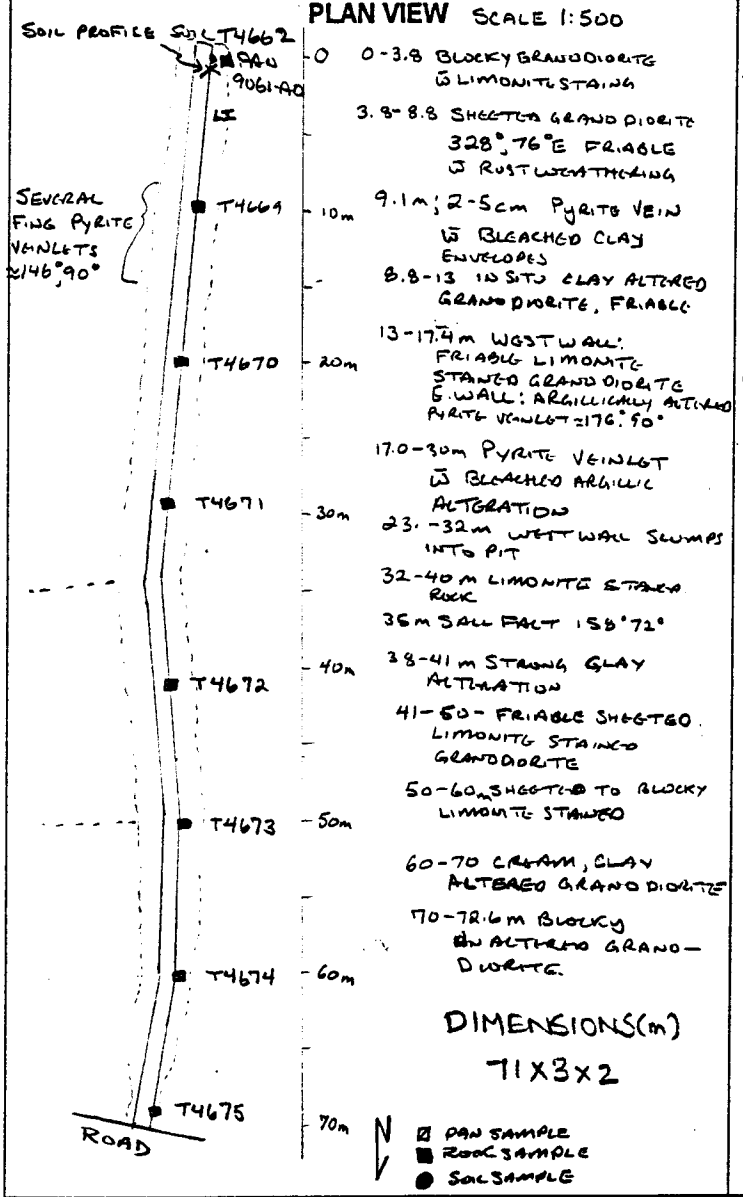
PS9060C-35- Sample taken @ 35m in the dark-grey boulder colluvium layer; Mostly sub-rounded quartz grains (ave. particle size: 20μm) with minor Magnetite, feldspar, muscovite, biotite.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

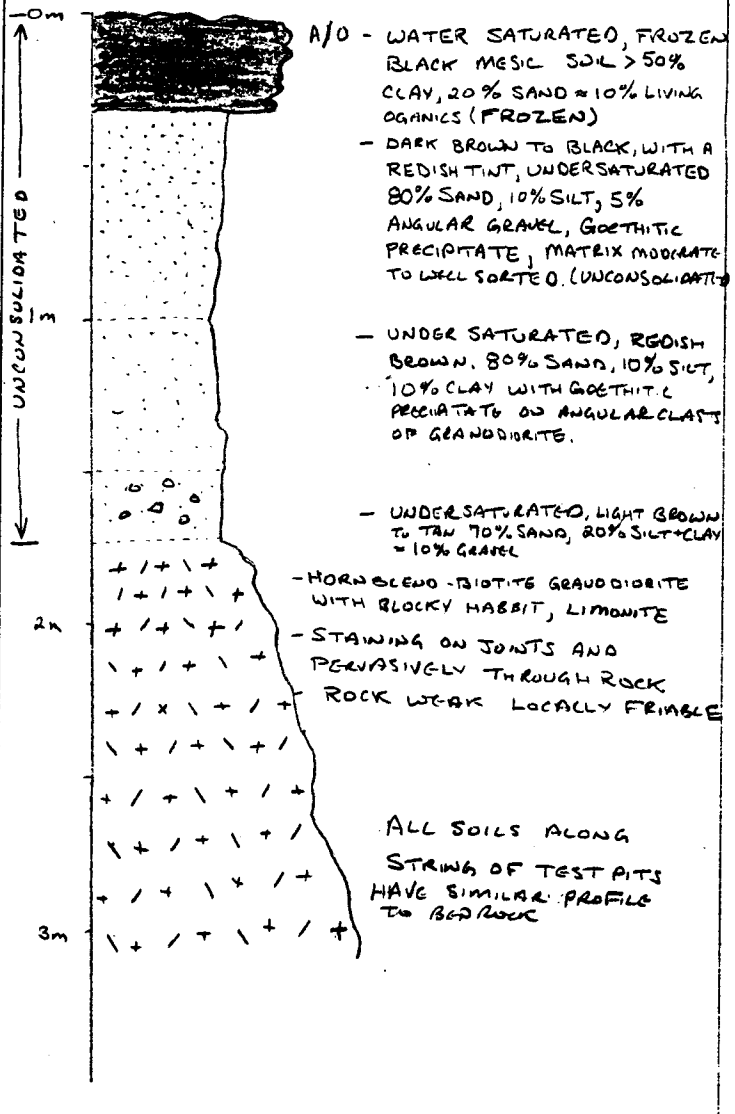
LEASE NO.: PL 9061
CREEK: CASINO
TYPE: BENCH, 2ND TIER

PIT NUMBER: 9061-A	EQUIPMENT TYPE: HITACHI HOE
NORTHING: 254409, → 254,336	EQUIPMENT HOURS: 8
EASTING: 111663 111662	EQUIPMENT COST: @$130/HR = $1040
STARTED: JUNE 4, 1993	LABOUR COST: 11 HRS @ $26.25/HR = $288.75
FINISHED: JUNE 5, 1993	TOTAL EXPENDITURE: $1328.75

PLAN VIEW SCALE 1:500



SOIL PROFILE



COMMENTS:

Soil	T4662	2200,	1680,	2.64			
Rock	T4669	76,	790,	<1,	160/0m		
	T4670	131,	800,	<1,	170/0m		
	T4671	55,	470,	<1,	328/0m		
	T4672	40,	320,	<1,	50/0m		
	T4673	202,	390,	1.	12/0m		
	T4674	231,	45,	3.	10/0m		
	T4675	82,	200,	<1,	4/0m		

SAMPLE NUMBERS: Soil Sample: T4662 TAKEN FROM HEAD OF TRENCH Rock Samples: T4669 TO T4675

PANNING CONCENTRATE DESCRIPTION:

PAN 9061-A-0 COARSE FRACTION (+No. 4 MESH) PEBBLES OF DARK RUSTY BROWN MANGANESE STAINED GRANODIORITE. FINE FRACTION:

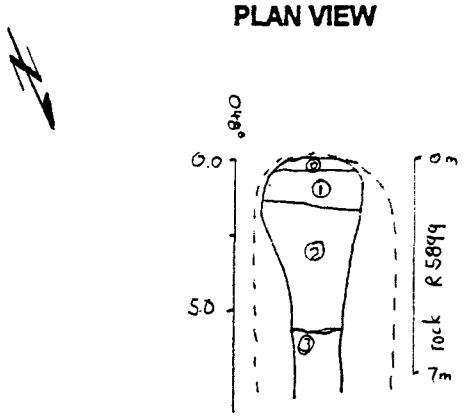
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9061
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9061-B	EQUIPMENT TYPE:
NORTHING:	EQUIPMENT HOURS:
EASTING:	EQUIPMENT COST:
STARTED: September 5, 1993	LABOUR COST:
FINISHED:	TOTAL EXPENDITURE:

PLAN VIEW

1:250



⑥ quartz monzonite, blocky and well fractured, 0-0.5m fine grained, small zone of silicification

① 0.5-1.4m quartz monzonite, clay rich and soft

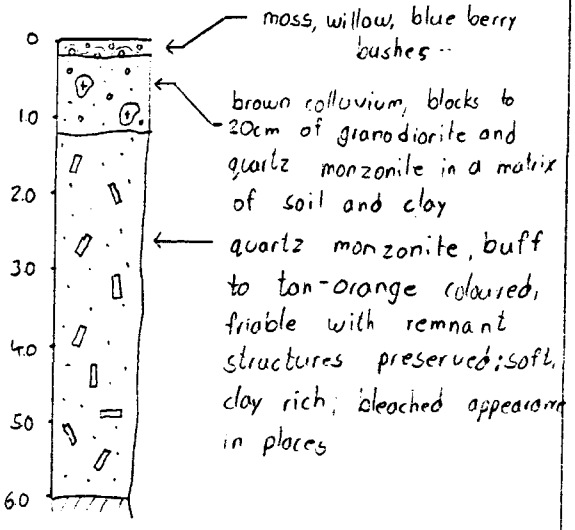
② 1.4-6.0m diorite, very fine grained, soft - clay altered, Limonite on fracture surfaces

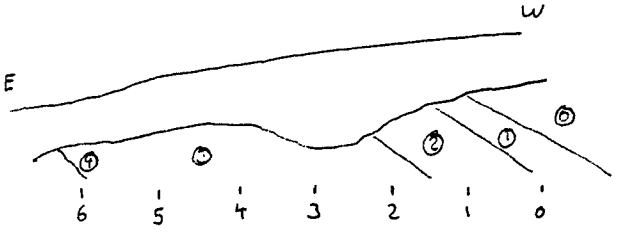
③ 6.0m start of quartz monzonite with quartz vein

Dimentions (m)
6 x 3 x 5

SOIL PROFILE

at 0.0m 1:100





⑥ Blocky well fractured Quartz Monzonite
① Bleached clay rich Quartz Monzonite
② "Blocky" quartz monzonite, buff coloured, clay rich + soft
③ Diorite - soft, khaki to tan, very fine grained
④ quartz vein with quartz monzonite

COMMENTS:

Rock R5899 217.205 15.18/7m

SAMPLE NUMBERS: rock sample R5899
PANNING CONCENTRATE DESCRIPTION:

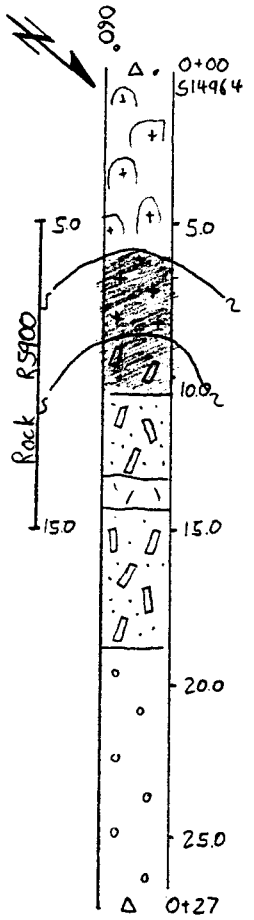
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9061
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9061-C	EQUIPMENT TYPE:
NORTHING:	EQUIPMENT HOURS:
EASTING:	EQUIPMENT COST:
STARTED: September 11 1993	LABOUR COST:
FINISHED:	TOTAL EXPENDITURE:

1:250

PLAN VIEW



0-6 m granodiorite, hard and blocky, ice is 30-40% by volume, occurs as lenses and wedges

6-8.7m Fault Zone, probably granodiorite protolith, clay-rich gouge, extremely limonitic

8.7-10.7m Fault Zone probably quartz monzonite protolith, clay-rich gouge, pale yellow to buff colored, ice lenses

10.7-13.3 m quartz monzonite, not as clay altered as above

13.3-14.3m diorite, soft and friable. LI on fracture surfaces

14.3-18.9m quartz monzonite, blocky texture preserved. Limonite on fractures

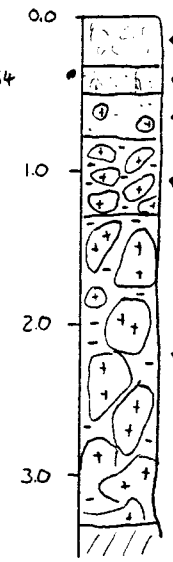
18.9-27m overburden

13.2 m quartz vein in quartz monzonite -same as at 6m in trench 9061-B at 164/23W

Dimentions
27 x 5.0 x 2.5

1:50

SOIL PROFILE at 20m



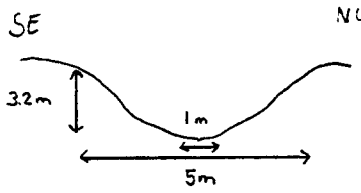
thick moss covering. willows, blue berry bushes...

organic rich brown soil

brown colluvium layer, sand + silt ± fragments of granodiorite

small blocks of silicified granodiorite, 10-20% small ice lenses and sand/silt

blocky granodiorite, siliceous, pale tan to grey, average size ~30cm. - ice wedges up to 20cm in size make up 30-40% by volume



Typical Cross Section

COMMENTS:

Soil S14964 54, 110, 9.28 Rock R5900 130, 95, 15, 8 /10m

SAMPLE NUMBERS: Soil S14964 Rock R5900

PANNING CONCENTRATE DESCRIPTION:

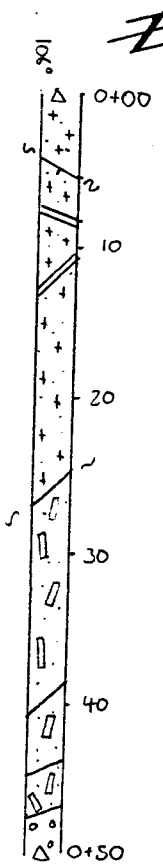
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9061
CREEK:	Casino
TYPE:	Bench

PIT NUMBER: 9061 - D	EQUIPMENT TYPE:
NORTHING:	EQUIPMENT HOURS:
EASTING:	EQUIPMENT COST:
STARTED: September 11, 1993	LABOUR COST:
FINISHED:	TOTAL EXPENDITURE:

PLAN VIEW

1:500



0.0-0.6 blocky granodiorite

0.6-5.5 friable, rubbly granodiorite

5.5-5.8 Fault Zone, clay + Qz

(8.3-8.5, 10.7-10.9) Possible quartz monzonite dykes in granodiorite

5.8-25.5 rubbly moist granodiorite/ residual soil, patchy high clay altered zones

25.5 Fault Zone, 40cm wide clay only 146/76E

25.5-40.3 quartz monzonite "chippy" and friable. LI on fracture surfaces

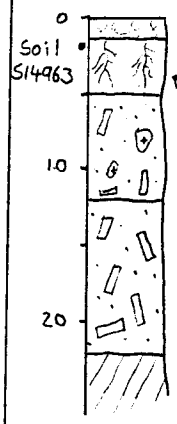
40.3-44.4 quartz-monzonite more blocky than above

44.4-47.4 quartz monzonite, rubbly, friable with no structures preserved

47.4-50.0 overburden

SOIL PROFILE at 50m

1:50

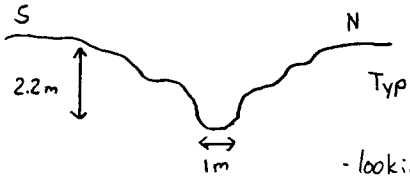


← moss, willows, grass

← organic rich brown soil

← brown colluvium layer, clasts of granodiorite + quartz monzonite up to 10m, clay + silt ± sand

← highly friable quartz-monzonite. orange-tan to buff colored



Typical Cross Section - looking west

Dimentions (m)

50 x 3.0 x 2.0

COMMENTS:

				Rock	R5895	52.55	2.4	/10m	R5897	21.65	1.6 /10m
Soil	S14963	41.40	2.24		R5896	37.165	1.6	/10m	R5898	6.35	7.4 /10m

SAMPLE NUMBERS: Soil S14963 Rock R5895-98

PANNING CONCENTRATE DESCRIPTION:

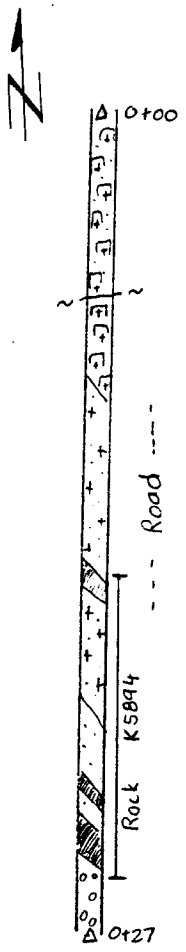
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9061
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9061-E	EQUIPMENT TYPE:
NORTHING:	EQUIPMENT HOURS:
EASTING:	EQUIPMENT COST:
STARTED: September 8 1993	LABOUR COST:
FINISHED:	TOTAL EXPENDITURE:

1:250

PLAN VIEW



0.0-6.1 weakly altered granodiorite, hard, well jointed, limonite on fractures

6.1 10cm fault, clay and limonite 238/54S

6.1-9.6 granodiorite, as above with stronger weathering/alteration

9.6-15.7 granodiorite, rubbly, friable limonite on fractures and pervassive, some textures

15.7-16.2 Clay rich "gungy" granodiorite no structures preserved

16.2-20.4 mixed residual soil and blocky granodiorite. limonite pervassive and along fracture

20.4-21.6 residual soil from granodiorite

21.6-23.0 clay rich zone. pale yellow-brown color

23.0-23.3 same as 20.4-21.6

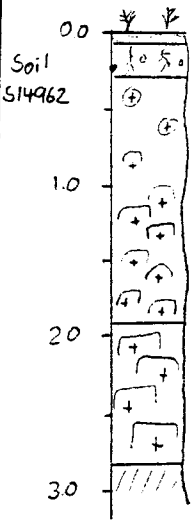
23.3-25.2 clay rich zone

25.2-27.0 Overburden. pale brown residual soil mixed with soil

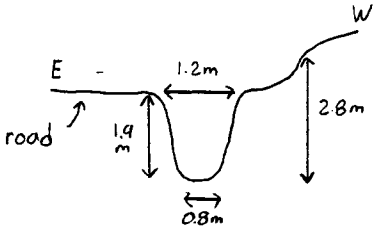
Dimentions (m)
27 x 1.2 x 1.9

1:50

SOIL PROFILE at 0m



← thin moss cover, willows, blue berry bushes...
← organic rich brown soil, minor blocks of weakly weathered granodiorite
← granodiorite - well fractured + friable, bleached, more blocks at depth + size and abundance increases with depth
← blocky granodiorite, well jointed, bleached appearance, pale yellow-tan-buff colour, limonite on fracture surface



Typical Cross Section - looking south

COMMENTS:

Soil S14962 51,110,6 34 Rock K5894 47,100,3,8/10m

SAMPLE NUMBERS: Soil S14962 Rock K5894

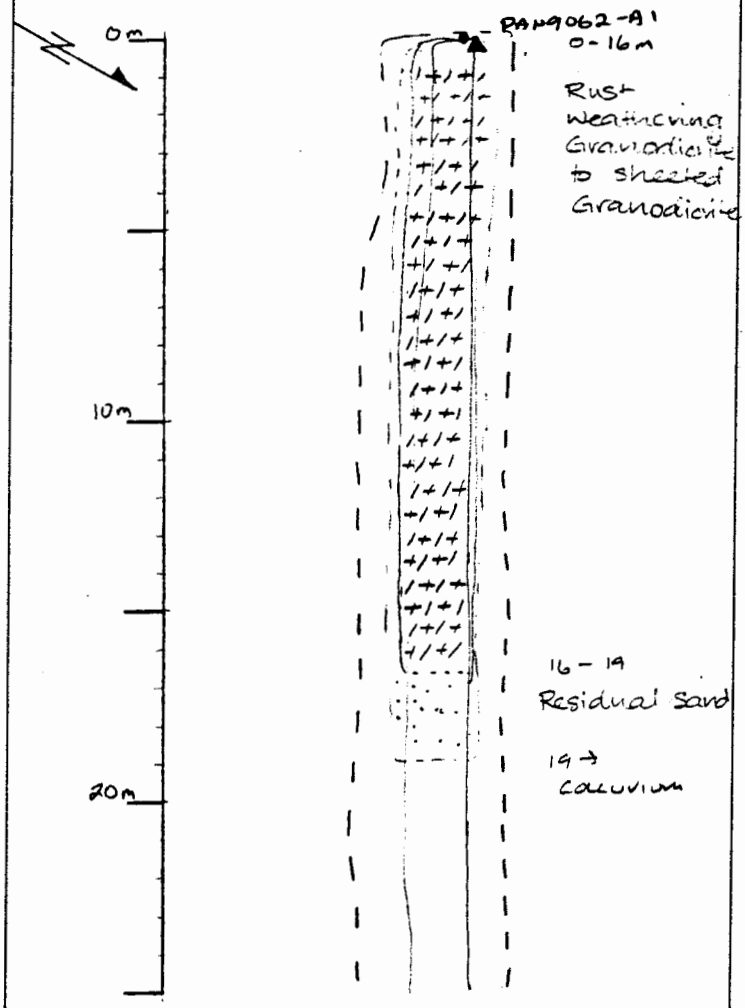
PANNING CONCENTRATE DESCRIPTION:

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9062
CREEK:	CASINO
TYPE:	BENCH

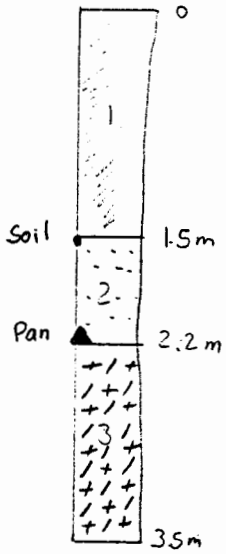
PIT NUMBER: 9062-A	EQUIPMENT TYPE: D7 WINCH CAT, HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D7: 1 HR HOE: 3 HR
EASTING:	EQUIPMENT COST: D7 @ 100/HR = 100 HOE @ 130/HR = 390
STARTED: JUNE 10, 1993	LABOUR COST: 6 HRS @ 26.25 = 157.50
FINISHED: JUNE 15, 1993	TOTAL EXPENDITURE: $ 647.50

PLAN VIEW 1:200



DIMENSIONS (m)
18 × 4 × 3.5

SOIL PROFILE 1:500



1 - organic, humic soils

2 - residual soil from insitu weathering of granodiorite / colluvium

3 - friable to sheeted granodiorite, variably light brown, clay altered, blocky at depth

COMMENTS: No glacial or fluvial material

SAMPLE NUMBERS: 9062-A-1 - pan

PANNING CONCENTRATE DESCRIPTION:

PS9062-A-1: sample taken just above bedrock @ 0m. light grey-tan colour. quartz, magnetite, some semi-decomposed pyrite and feldspar, minor yellow and white fluorescent grains

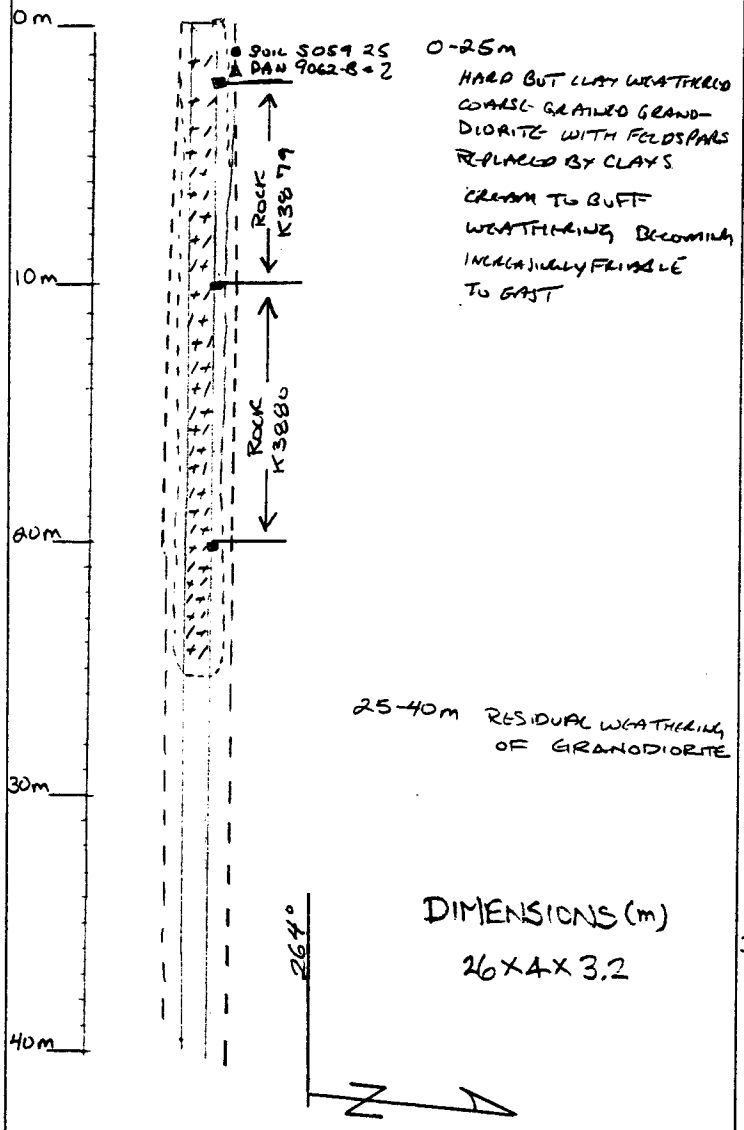
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9062
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9062-B	EQUIPMENT TYPE: D7 WINCH CAT, HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D7: 2HR, HOE: 2
EASTING:	EQUIPMENT COST: D7 @ 100/HR = 200 HOE @ 130/HR = 260
STARTED: June 8, 1993	LABOUR COST: 5 @ 26.25 = 131.25
FINISHED: JULY 8, 1993	TOTAL EXPENDITURE: $ 591.25

1:300

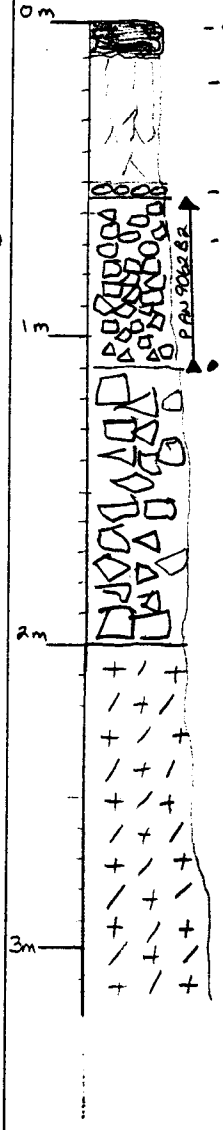
PLAN VIEW



0-25m HARD BUT CLAY WEATHERED COARSE GRAINED GRANODIORITE WITH FELDSPARS REPLACED BY CLAYS. CREAM TO BUFF WEATHERING BECOMING INCREASINGLY FRIABLE TO EAST

25-40m RESIDUAL WEATHERING OF GRANODIORITE

SOIL PROFILE @ 2m



- 0.-0.1 FIBRIC ORGANIC SOIL BLACK
- 0.1-0.5 DARK BROWN SOIL 60% SILT 10% SAND, 10% GRAVEL, 10% CLAY >10% ORGANIC - WELL DRAINED
- 0.50-0.53 RUST BROWN MODERATELY SORTED SANDY GRAVEL
- 0.53-1.1 DARK BROWN CLAST SUPPORTED COLLUVIUM. 50% ANGULAR CLASTS OF GRANODIORITE, 20% SAND, 20% SILT, <10% CLAY.
- 1.1-2.0 BLOCKY COBBLE-TALUS 90% ANGULAR GRANODIORITE COBBLES + PEBBLES WITH LIMONITE STAINS.
- 2.0-3.04 CLAY + LIMONITE WEATHERED COARSE-GRAINED GRANODIORITE

Scale 1:25

COMMENTS: No glacial or fluvial material

Soil 505925 24, 335, 7, 16 Rock K3879 48, 85, 4, 32 /8m
K3880 25, 240, 7, 12 /10m

SAMPLE NUMBERS: 505925 - soil 9062-B-2 - pan K3879 - K3880 - rock

PANNING CONCENTRATE DESCRIPTION:

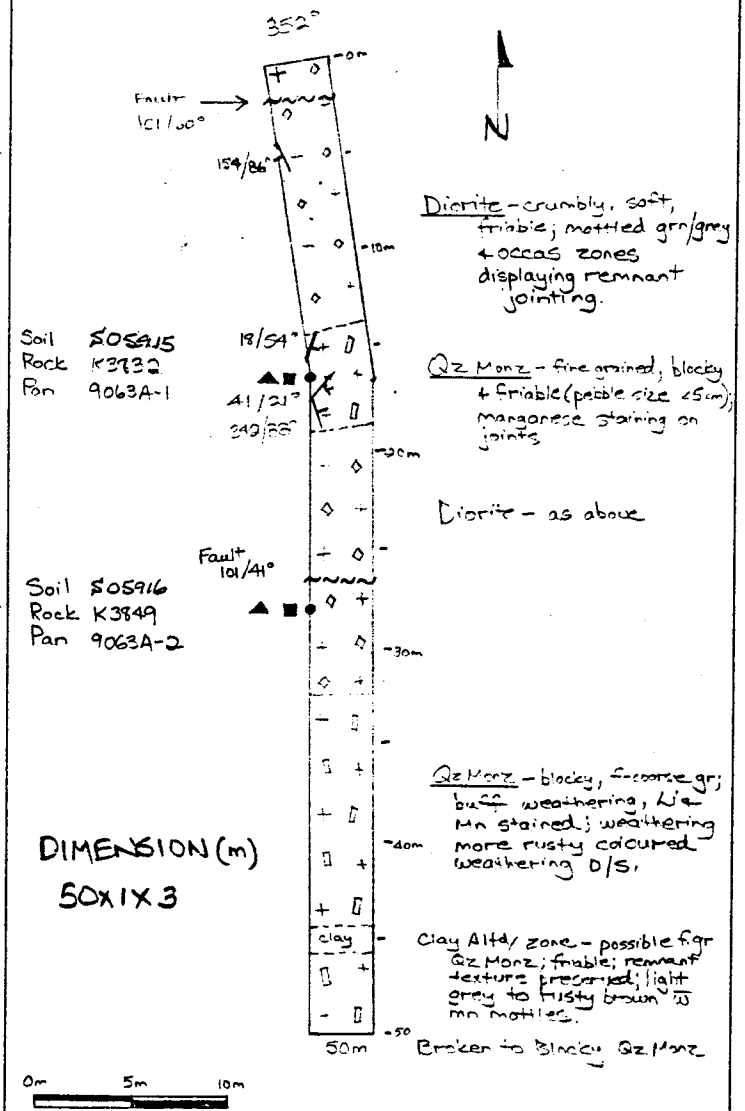
9062-B-2 - Sample taken @ 2m in the clast supported colluvium layer; light tan colour. Ave. particle size: 15 mm; mostly quartz, minor feldspar, hornblende and magnetite; rare pyrite. Minor fluorescent orange grains - possibly powellite?

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9063
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9063-A	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: 7 HRS
EASTING:	EQUIPMENT COST: @ 130 /HR = 910
STARTED: JUNE 8, 1993	LABOUR COST: 9 HRS @ 26.25/HR = 236.25
FINISHED: Friday June 18, 1993	TOTAL EXPENDITURE: $1146.25

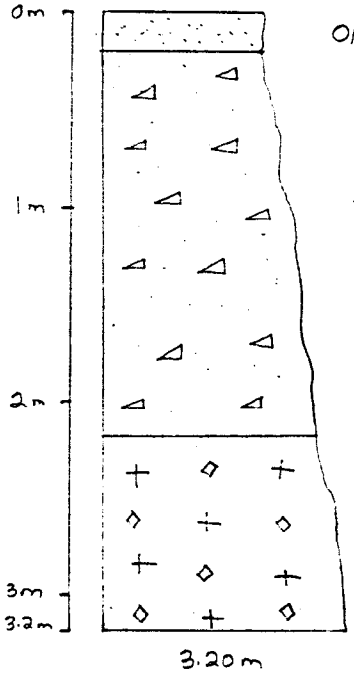
PLAN VIEW



mRD

SOIL PROFILE

at 29 m



O/A - charcoal grey to black mesic organic soil w/ lenses of grey alluvial silt/clay (40%); relict foliation from lenses.

2L - Colluvium - clast supported w/ clasts principally of granodiorite + qz monz; angular + elongate; grey to brownish grey; poorly sorted matrix w/ 10% clay, 60% silt, ~2% organics, + 20% sand.

Diorite - crumbly, soft, + friable w/ remnant jointing → mottled green/grey.

mRD

COMMENTS:

Soil	S05915	412,	15,	3,	2	Rock	K3832	229,	5, 7, 8,	10m
	S05916	616,	20,	2,	<2		K3849	650,	90, 4, 12,	10m

SAMPLE NUMBERS: Soil: S05915, S05916 : Rock: K3832, K3849 : Pan: 9063A-1, 9063A-2

PANNING CONCENTRATE DESCRIPTION:

PS9063A-2 - brown-grey colour; 40% HB; 40% QZ; 5% Magnetite; rest consists of remnant feldspar, muscovite, pyrite. Ave. particle size: 10-15μm. Some grains are fluorescent orange (powellite?); sampled @ 28m from head of trench

PS9063A-1 - sample from colluvium layer @ 17m; orange brown colour; decomposed granodiorite: QZ, Feldspar, HB > BI, remnant pyrite; sub-angular; ave. particle size: 20μm: Minor orange fluoresent grains - poss. scheelite.

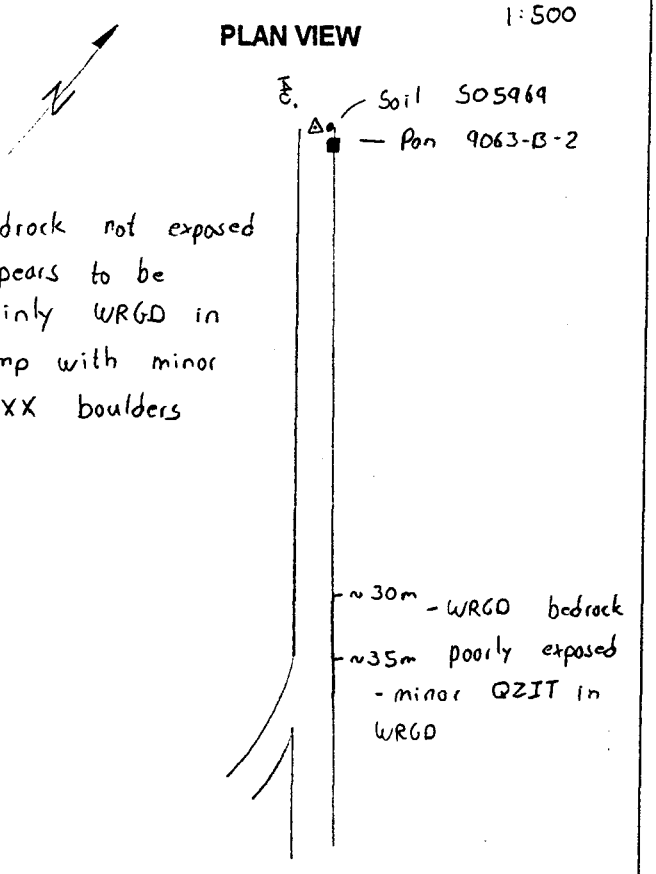
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9063
CREEK: Casino
TYPE: Bench

PIT NUMBER: 9063-B	EQUIPMENT TYPE: D6 WIDETRACK, HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D6: 2, HOE: 5
EASTING:	EQUIPMENT COST: D6 @ $100/HR = 200, HOE @ 130/HR = 650
STARTED: JUNE 23, 1993	LABOUR COST: 5 HRS @ 26.25/HR = $131.25
FINISHED: June 30, 1993	TOTAL EXPENDITURE: $981.25

PLAN VIEW

1:500

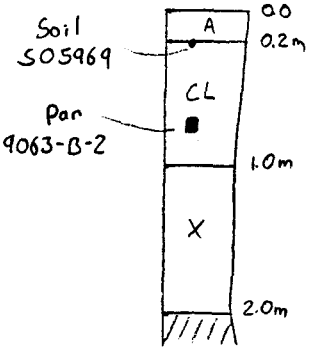


- bedrock not exposed
- appears to be mainly WRGD in dump with minor YMXX boulders

DIMENSIONS (m)
40 × 2 × 2

SOIL PROFILE

1:500



A - organics, black muck

CL - colluvium - light grey clay with minor boulders, roots to 40cm - up to 50% ice lenses

X - decomposed bedrock, light tan to brown, high clay content

/// bedrock, 1 to 2.5 m deep, with ice along fractures

COMMENTS: No glacial or fluvial material, common ice lenses in colluvium and along fractures in bedrock. Very poor exposure, only one minor section of bedrock

Soil S05969 27, <5, <1, 18

SAMPLE NUMBERS: Soil sample S05969 Pan sample PS-9063-B-2

PANNING CONCENTRATE DESCRIPTION:

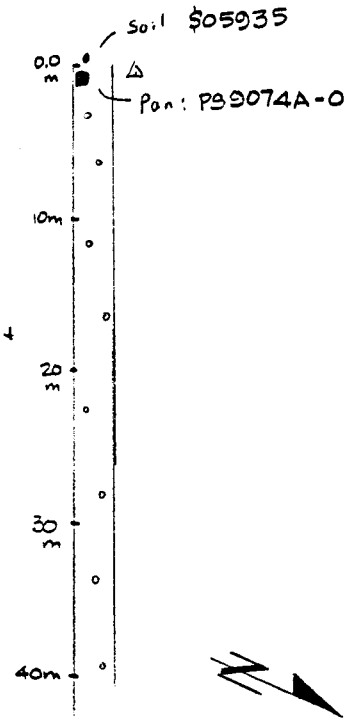
PS9063B-2: orange-grey colour; sample taken from the colluvium layer @ 2m: subangular; mostly HB(50%), QZ(40%), MG(5%) + feldspars, remnant MU, PY. Average particle size: 1.5mm. Minor fluorescent grains - orange - possibly powellite

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9074
CREEK: Canadian
TYPE: Bench

PIT NUMBER: 9074-A	EQUIPMENT TYPE: HITACHI HOE; D7 WINCH CAT
NORTHING:	EQUIPMENT HOURS: HOE: 15 hrs ; D7: 1 hr.
EASTING:	EQUIPMENT COST: 5 @ $130/hr ; 1 @ $100/hr
STARTED: June 8, 1993	LABOUR COST: 3hrs @ $26.25/hr
FINISHED: July 2, 1993	TOTAL EXPENDITURE: $828.75

PLAN VIEW



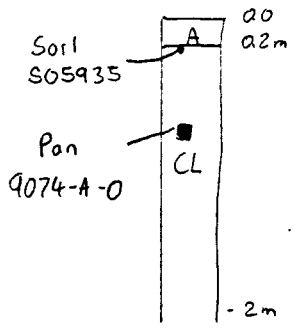
- poor exposure, ie no bed rock
- only colluvium with fragments of granodiorite + diorite
- no magnetite in rock fragments

DIMENSIONS (m)
40 X 1 X 2

Scale: 1:500

SOIL PROFILE

Scale = 1:50



A - 20cm black organics and black muck, good brown sandy soil at base

CL - colluvium, light grey to brown clay with numerous rock fragments upto 1m in size
- good ice up to 30% of rock

COMMENTS: No glacial or fluvial material trench stripped for the 1st time this year, due to permafrost bed rock not exposed.

Soil S05935 52 40. 1 26

SAMPLE NUMBERS: Soil S05935 Pan 9074-A-0

PANNING CONCENTRATE DESCRIPTION:

PS9074A-0 - Sample taken @ 0m in the colluvium layer. orange-tan colours. Mostly quartz, hornblende and magnetite; minor remnant feldspar. Minor yellow fluorescent grains; Average particle size - 10-15mm

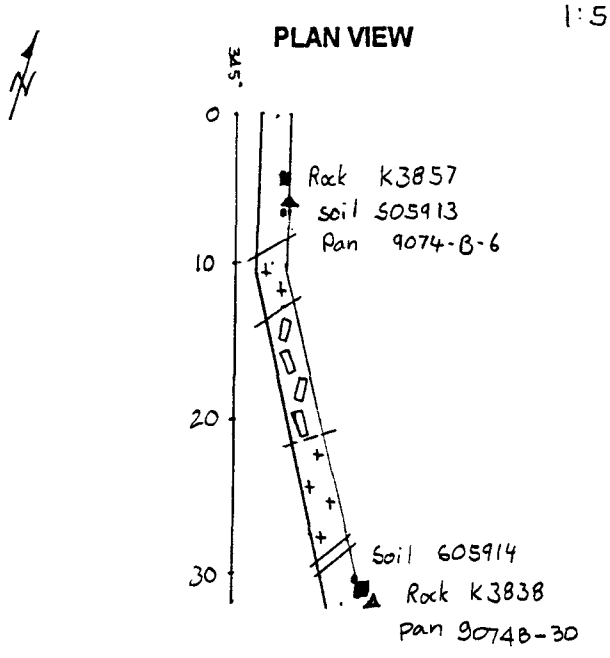
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9074
CREEK: CANADIAN
TYPE: BENCH

PIT NUMBER: 9074-B	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: 5HRS
EASTING:	EQUIPMENT COST: 5hrs @ $130/hr
STARTED: JUNE 5, 1993	LABOUR COST: 4HRS @ $26.25/hr
FINISHED: JUNE 24, 1993	TOTAL EXPENDITURE: $755.00

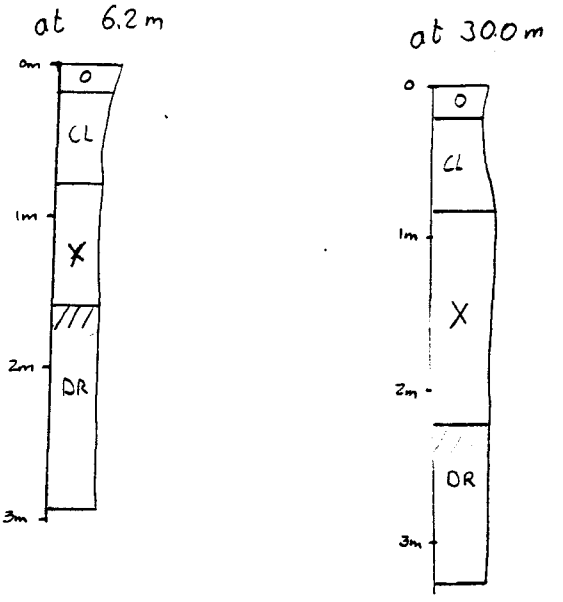
1:500

PLAN VIEW



Scale: 1:50

SOIL PROFILE



9-13m dark grey to black fine grained diorite

13-21.7m plagioclase-biotite porphyry

21.7-28.0m dark grey to black fine grained diorite

O- organics

CL- colluvium

X- residual bedrock

OR- bedrock - diorite

DIMENSIONS(m)

32.5x2x3

Rock Samples

From	To	Sample
4m	9m	K3837
27m	32m	k3838

COMMENTS:

Soil	S05913	208,	45,	20,	<2	Rock	K3837	1525,	145, 78 10 / 5m
	S05914	196,	55,	56,	6		K3838	443,	190, 82 8 / 5m

SAMPLE NUMBERS: Soil: S05913, S05914; Rock: K3837, K3838; Pan: PS 9074B-6, PS9074B-30

PANNING CONCENTRATE DESCRIPTION:

9074B-6- brown-grey colour; ave size of grains: 25um; rounded to semi angular; quartz, sulfides are pyrite grains; magnetite. This sample was taken @ the top of bedrock @ 6m. Fluorescent grains: yellow (in white light: colourless; very lustrous; rounded) → poss. Powellite ($CaWHoO_4$) blue → possibly scheelite!

9074B-30- tan brown colour; sample taken just above residual bedrock; decomposed granodiorite: mostly Qz, some feldspar, BI, remnant Py, magnetite. Ave. grain size: 20-25um, sample from 30m from beginning of trench.

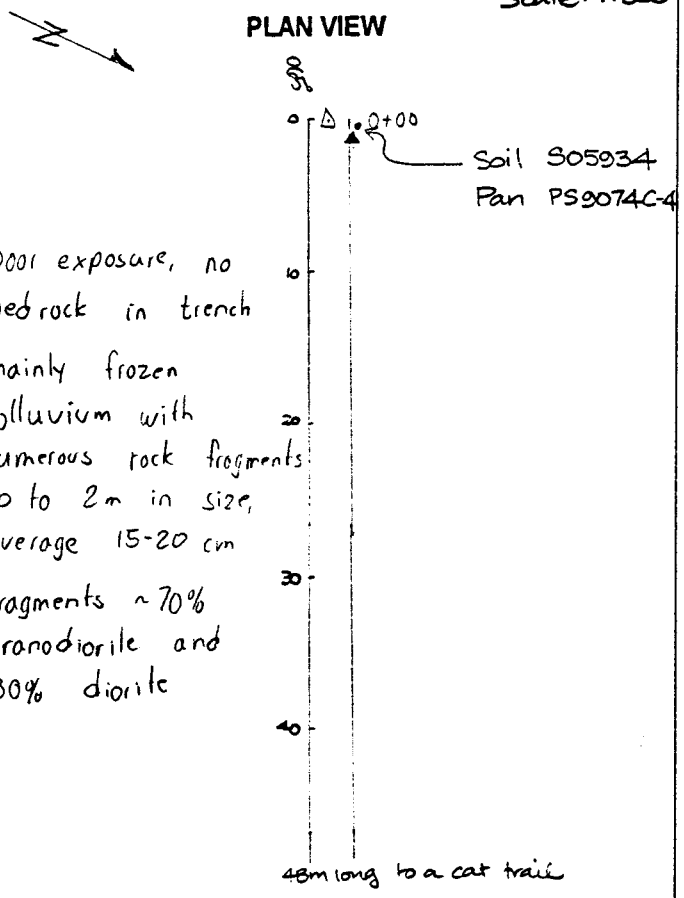
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9074
CREEK: CANADIAN
TYPE: BENCH

PIT NUMBER: 9074-C	EQUIPMENT TYPE: D6-WIDETRACK CAT, HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D6: 2HRS HOE: 4.5HRS
EASTING:	EQUIPMENT COST: 2@ $100/hr; 4.5 hrs @ $130/hr
STARTED: June 23/1993	LABOUR COST: 3hr @ 26.25/hr
FINISHED: July 2. 1993	TOTAL EXPENDITURE: $863.75

Scale: 1:500

PLAN VIEW



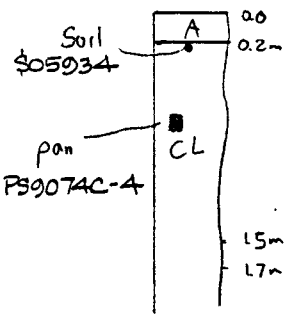
- poor exposure, no bedrock in trench
- mainly frozen colluvium with numerous rock fragments up to 2m in size, average 15-20 cm
- fragments ~70% granodiorite and 30% diorite

DIMENSIONS (m)
48 × 2 × 1.7

Scale: 1:50

SOIL PROFILE

* taken @ 4m



A - 20 cm organics and black muck

CL - colluvium, frozen grey to brown clay with numerous rock fragments

COMMENTS: no glacial or fluvial material encountered, only colluvium common permafrost and water in trench

Soil S05934 18, <5, 1, 16

SAMPLE NUMBERS: SOIL: S05934, PAN 9074C-4

PANNING CONCENTRATE DESCRIPTION:

PS9074C-4 - Sample taken from the colluvium layer @ 0.8m from the top of the trench @ 4m; orange brown colour; mostly QZ, some HB, remnant feldspar and magnetite. subangular grains; Ave. particle size: 25um
Fluorescent minerals: orange - powellite?
white - yellow - scheelite?

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

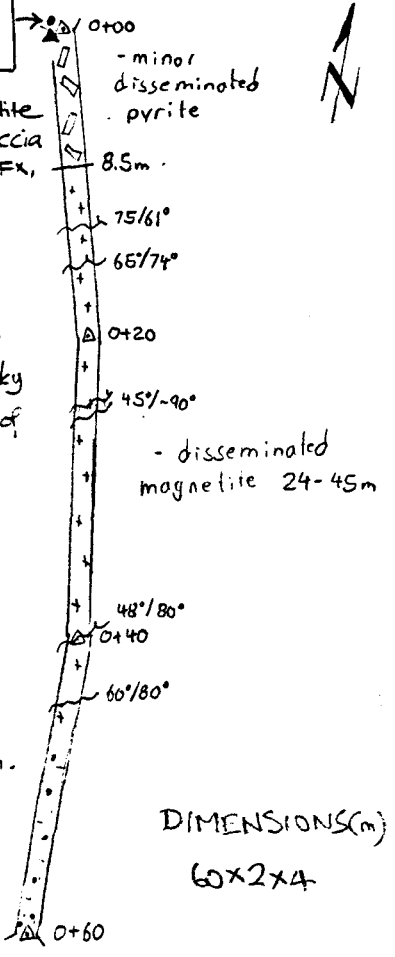
LEASE NO.: PL 9076
CREEK: Canadian
TYPE: Bench

PIT NUMBER: 9076-A	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: 1.5
EASTING:	EQUIPMENT COST: 1.5 @ $130/hr
STARTED: JUNE 6, 1993	LABOUR COST: 6 Hrs @ $26.25/hr
FINISHED: June 28, 1993	TOTAL EXPENDITURE: $352.50

SCALE: 1:500

PLAN VIEW

Soil Sample S05990
Pan Sample 9076-A



0.0-8.5 - Porphyritic Latite or a microbreccia - mixture of QZ, FX, and clay

8.5-47.0 - alternating zones of weak to moderate supergene altered, blocky Granodiorite and zones of strong to intense supergene alteration with sticky clay gouge and minor quartz veinlets

47.0-6.0 - residual soil and colluvium.

DIMENSIONS(m)
60×2×4

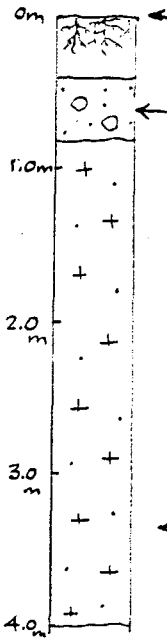
Bedrock Geology

- Clay gouge / QZ vein
- Latite Porphyry
- Dawson Range Diorite

Rock Samples	
5-15m	K3971
15-25m	972
25-35m	973
35-45m	974

SOIL PROFILE

* taken @ 30m.



0.0-0.4m → colluvium and blocky talus

colluvium and blocky talus · brown, gravelly sand with some silt and small boulders - poorly sorted. · talus of granodiorite

0.4-0.8m
· Residual soil of Granodiorite protolith; orange to light brown colour; clasts of blocky granodiorite up to 3 cm.

← Heavily weathered, weak granodiorite; pervasive clay alteration, LI staining on fracture surfaces; soft but textures are preserved.

Scale: 1:50.

COMMENTS: no glacial / fluvial material, no permafrost, reworking of old trench

Soil S05990 170, 175, 12, 64 Rock K3971 242, 90, 32, 28 /10m K3973 225, 60, 15, 18 / 10m
K3972 232, 85, 45, 6 /10m K3974 211, 65, 9, 20 / 10m

SAMPLE NUMBERS: Soil: S05990; Pan: 9076A0, Rock: K3971 - K3974

PANNING CONCENTRATE DESCRIPTION:

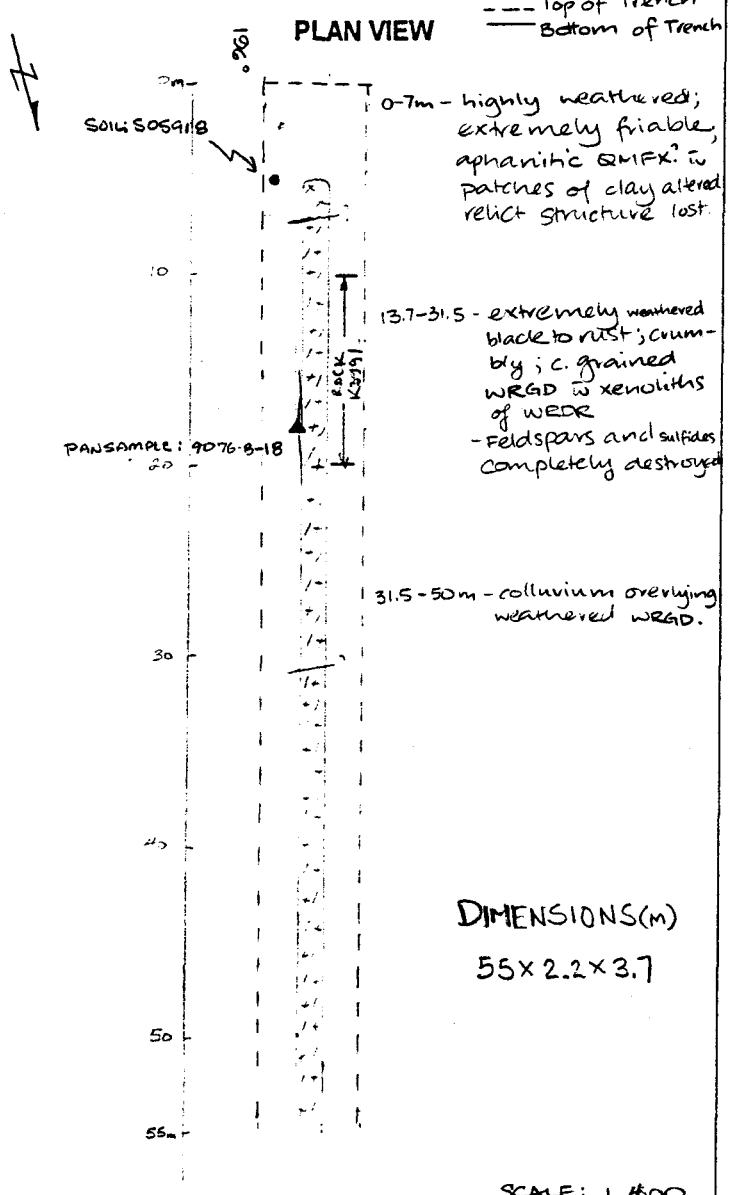
PS9076A-0 - orange-brown colour; Sample taken from om just above bedrock. % QZ° = % HB (~40%); remnant feldspar, muscovite, pyrite Average particle size: 10 µm; mod → high amount of magnetite

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9076
CREEK: Canadian Creek
TYPE: Bench.

PIT NUMBER: 9076-B	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: 1.5 hrs
EASTING:	EQUIPMENT COST: 1.5 @ $130/hr
STARTED: JUNE 6, 1993	LABOUR COST: 4 hrs @ $26.25/hr
FINISHED: JUNE 27, 1993	TOTAL EXPENDITURE: $300.00

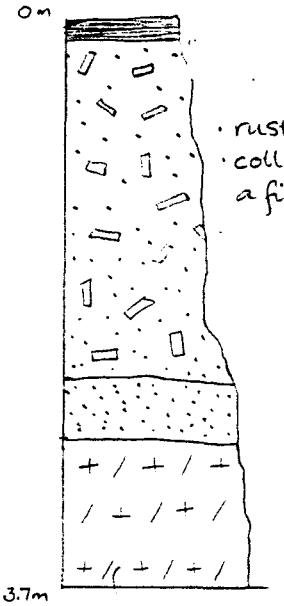
PLAN VIEW



DIMENSIONS(m)
55 x 2.2 x 3.7

SCALE: 1:400

SOIL PROFILE @ 20m



- rust → buff weathering
- colluvium supported w a fine grained matrix

base of trench (up to 70cm) - black weathered rock/ sediment - possibly manganese.

SCALE: 1:50

COMMENTS: No lithochem samples because exposure was not continuous enough to ensure sample integrity.

Soil S05918 926 735, 29, 22 Rock K3991 731 200, 55, 8 /10m

SAMPLE NUMBERS: Soil: S05918; Pan: 9076-B-18; ROCK: K3991

PANNING CONCENTRATE DESCRIPTION:

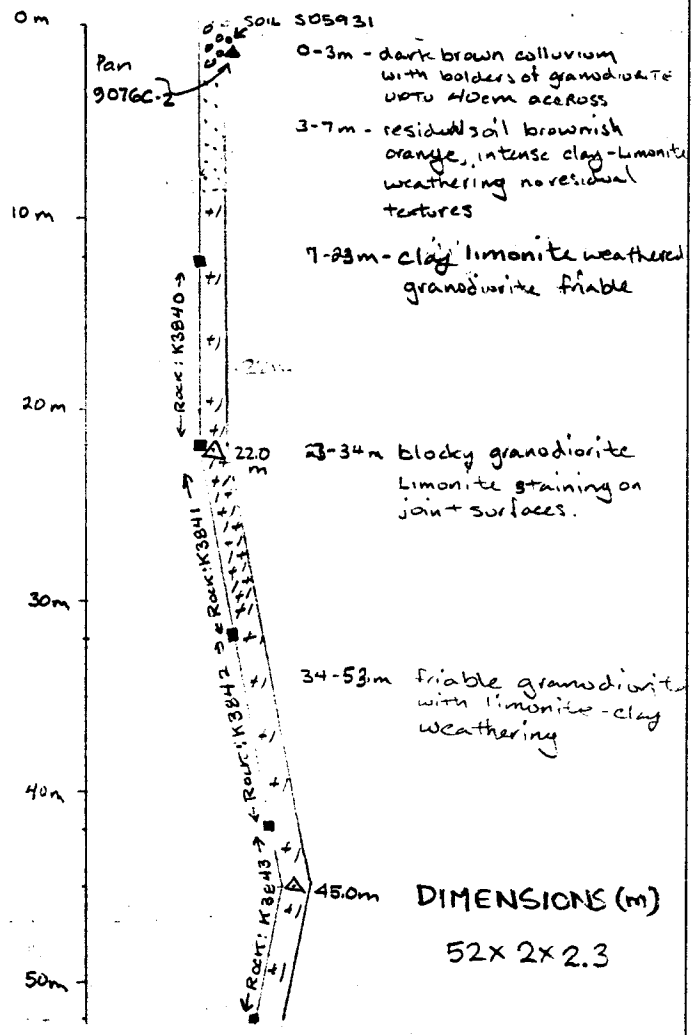
PS9076B-18 - orang brown colour; pan sample taken just above bedrock @ 18m. Mostly QZ, HB, MG. Minor muscovite, pyrite, feldspars. Subangular; poorly sorted, fine. particle size: 10um
- Fluorescent minerals - orange (powellite?)
- white - yellow (bluish) - Scheelite?

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9076
CREEK: Canadian Creek
TYPE: Bench.

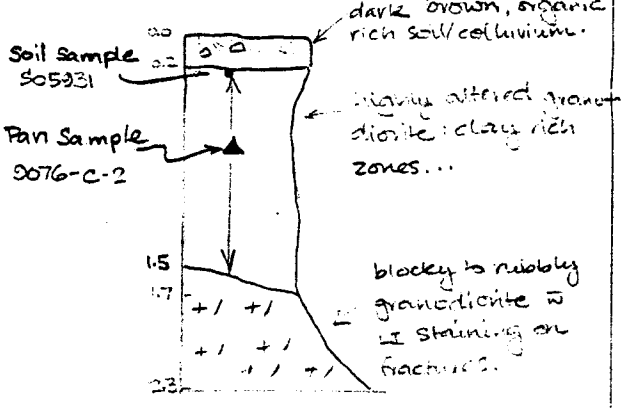
PIT NUMBER: 9076-C	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: Hoe: 2.5 hrs.
EASTING:	EQUIPMENT COST: 2.5 hrs @ $130/hr
STARTED: June 6/93	LABOUR COST: 4hrs @$26.25/hr
FINISHED: July 1/93	TOTAL EXPENDITURE: $430.00

PLAN VIEW



Scale: 1:400

SOIL PROFILE @ 2m



Scale: 1:50

COMMENTS: → old trench; no ice encountered.

Soil S05931 161.65, 16.52 Rock K3840 77.100, 66.12 /10m K3842 77.305, 125.38 /10m
K3841 86.1690, 192.86 /10m K3843 90.175, 102.60 /10m

SAMPLE NUMBERS: Soil S05931, Rock: K3840 – K3843; Pan: PS9076C-2

PANNING CONCENTRATE DESCRIPTION:

PS9076C-2: Sample taken @ 2m in the highly altered granodiorite-rich zones; orange tan coloured. Fluoresces orange and white-yellow. Decomposed granodiorite – mostly Qz, some Feldspar, fine grains of Hornblende. Average particle size: 10-15mm; weak to moderate amounts of magnetite. orange ← powellite?
white ← scheelite?

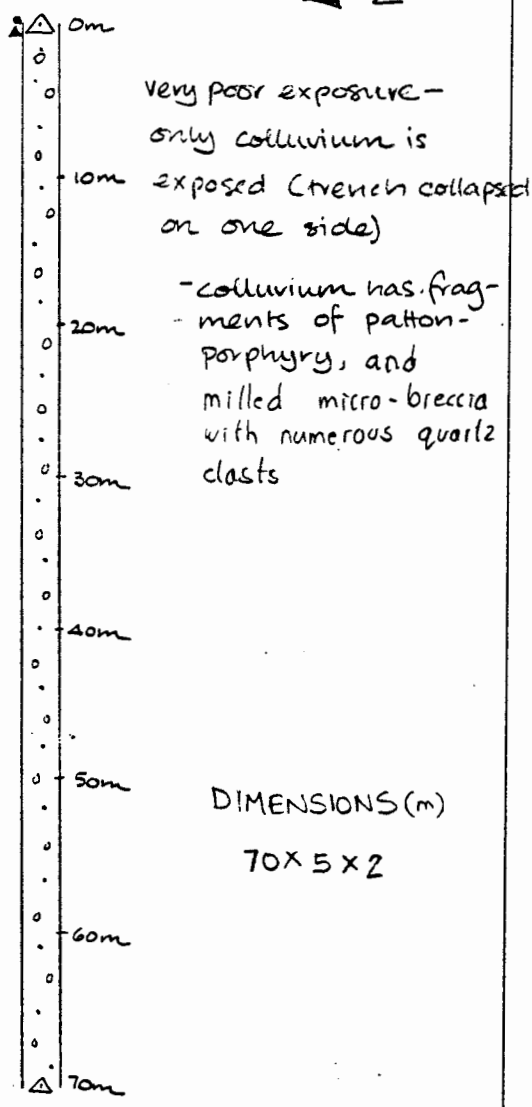
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	PL 9076
CREEK:	Canadian
TYPE:	Bench

PIT NUMBER: 9076 D	EQUIPMENT TYPE: D7 Winch, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 0.5hr ; hoe: 7 hr
EASTING:	EQUIPMENT COST: 0.5 hr @ $100/hr ; 7hr @ $130/hr
STARTED: June 9, 1993	LABOUR COST: 3hrs @ $26.25/hr
FINISHED: July 28, 1993	TOTAL EXPENDITURE: $ 1038.75

PLAN VIEW

Soil S05978
Pan PS9076D-0



Very poor exposure - only colluvium is exposed (trench collapsed on one side)

- colluvium has fragments of patton-porphyry, and milled micro-breccia with numerous quartz clasts

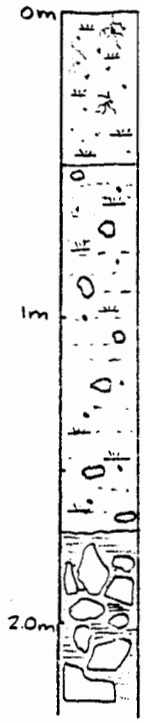
DIMENSIONS (m)

70 x 5 x 2

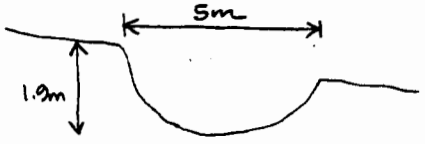
Scale: 1:500

SOIL PROFILE

taken @ 30m



Typical Cross Section



Scale: 1:25

COMMENTS: Poor Exposure; up to 70% ice in the colluvium and highly weathered bedrock.

Soil S05978 38, 405, 121, 18

SAMPLE NUMBERS: Soil: S05978 ; Pan: PS9076D-0

PANNING CONCENTRATE DESCRIPTION:

PS9076D-0 - Sample taken @ 0m in the top part of the colluvium layer; orange-tan colour; Mostly quartz and remnant feldspar; very minor biotite and magnetite ; Average particle size: 2.0 mm. Minor yellow and blue fluorescent grains.

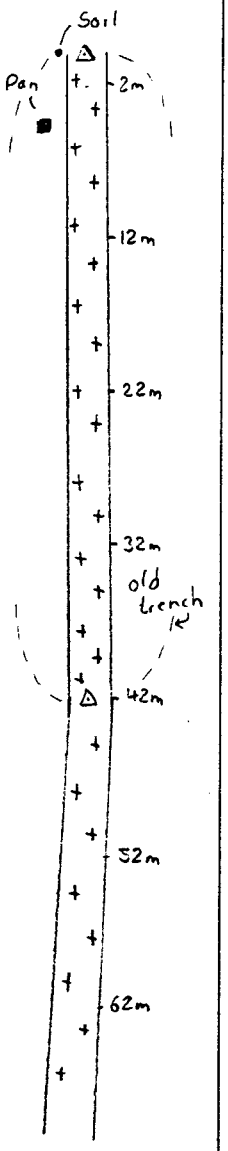
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL9076
CREEK: Canadian
TYPE: Bench

PIT NUMBER: 9076-E	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: 2.5HRS
EASTING:	EQUIPMENT COST: @$130/HR = $325.-
STARTED: July 1, 1993	LABOUR COST: 3hrs @ $26.25/hr
FINISHED: July 1, 1993	TOTAL EXPENDITURE: $403.75

PLAN VIEW

1:500



Dawson Range Granodiorite
- moderate to strong supergene weathering
- alternating zones of strong clay and less altered rocks
no major structures just joints and fractures

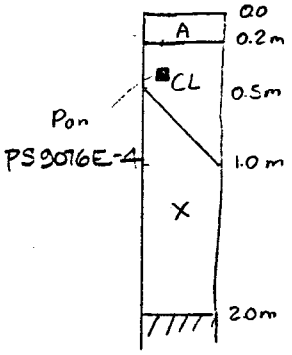
DIMENSIONS (m)
70 X 3.5 X 2

Sample Data

From	To	Sample
2	12	K3844
12	22	845
22	32	846
32	42	847
42	52	K3892
52	62	893
Soil	S05933	
Pan	9063-E-4	

SOIL PROFILE

profile taken @ 4m



- no ice, old trench

A - 20cm black organics, good brown soil beneath

CL - as to 1.0m deep, grey to brown clay with rock fragments - very minor rounded boulders

X - decomposed bedrock with some downhill movement

/// - bedrock

Scale: 1:50

COMMENTS: no permafrost, no glacial / fluvial material, reworking of old trench

Soil S05933 166, 215, 12, 128 Rock K3844 217, 130, 11, 232 /10m K3847 228, 125, 24, 76 /10m
K3845 245, 50, 12, 90 /10m K3892 148, 80, 11, 16 /10m
K3846 244, 80, 16, 78 /10m K3893 188, 115, 17, 20 /10m

SAMPLE NUMBERS: Soil S05933 ; Pan 9076E-4 ; Rock: K3844 - K3847, K3892 - K3893

PANNING CONCENTRATE DESCRIPTION:

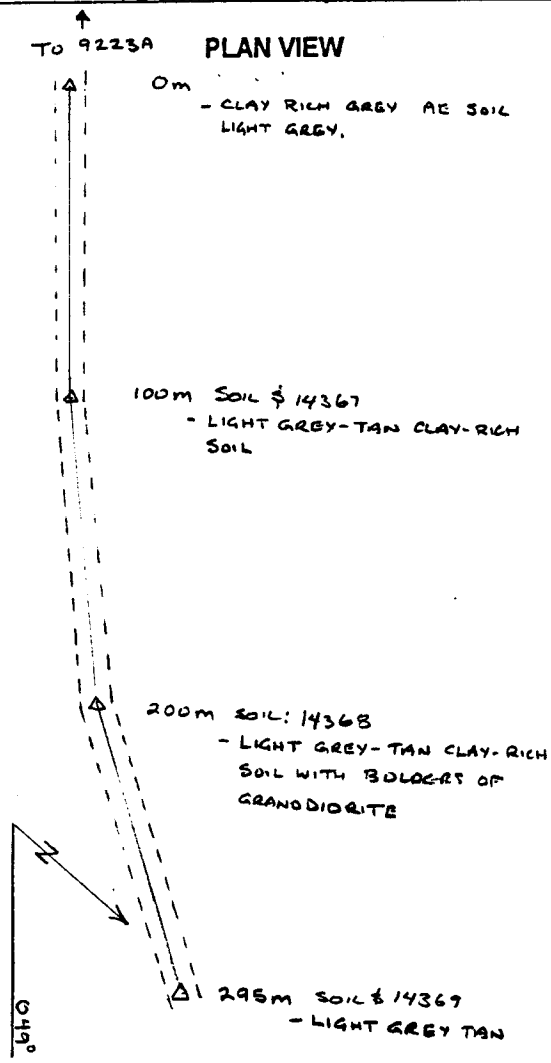
9076 E-4: Sample taken @ 4m in the deep gray to brown colluvium layer; orange-tan colour; decomposed granodiorite: Quartz, feldspar, magnetite, hornblende > biotite, Minor yellow and blue grains; fine particle size: 30µm

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9219
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9219 A	EQUIPMENT TYPE: D7-RIPPER CAT
NORTHING:	EQUIPMENT HOURS: 3 HRS
EASTING:	EQUIPMENT COST: @ 130 / HR = $390
STARTED: OCTOBER 30, 1993	LABOUR COST: 2 HRS @ $26.25 / HR = $52.50
FINISHED: NOVEMBER 6, 1993	TOTAL EXPENDITURE: $442.50

PLAN VIEW



Dimentions (m)
288 x 8 x 0.3

SOIL PROFILE

- SURFACE STRIPPED TO A DEPTH OF 30 CM TO FACILITATE THAWING.

COMMENTS: DISCONTINUOUS PERMAFROST AREA STRIPPED TO FACILITATE THAWING.

(samples not assayed ?

SAMPLE NUMBERS: SOILS: 514367, 514368, 514369
PANNING CONCENTRATE DESCRIPTION: NONE TAKEN.

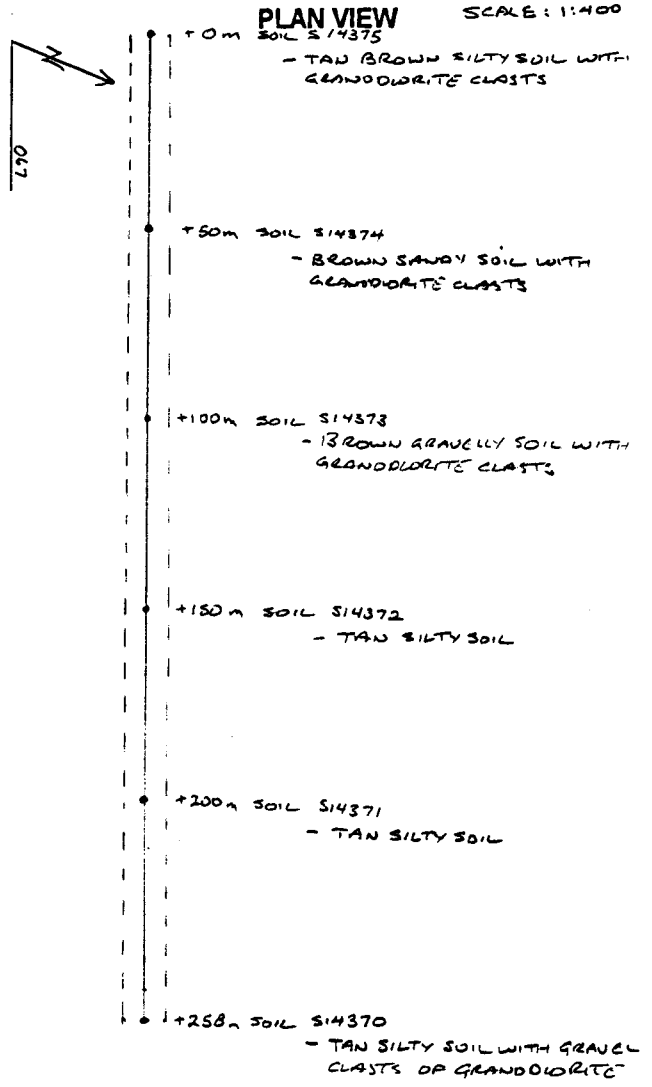
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9219
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 92198	EQUIPMENT TYPE: D7-RIPPER CAT
NORTHING:	EQUIPMENT HOURS: 4 HRS
EASTING:	EQUIPMENT COST: @ $130/HR = $520
STARTED: OCTOBER 31, 1993	LABOUR COST: 2 HRS @ $26.25/HR = $52.50
FINISHED: NOVEMBER 6, 1993	TOTAL EXPENDITURE: $572.50

PLAN VIEW

SCALE: 1:400



Dimentions (m)
295 x 10 x 0.3

SOIL PROFILE

TRENCH STRIPPED TO 30cm DEPTH

COMMENTS:

↓ samples not assayed?

SAMPLE NUMBERS: SOILS: S14370, S14371, S14372, S14373, S14374, S14375

PANNING CONCENTRATE DESCRIPTION: NONE TAKEN.

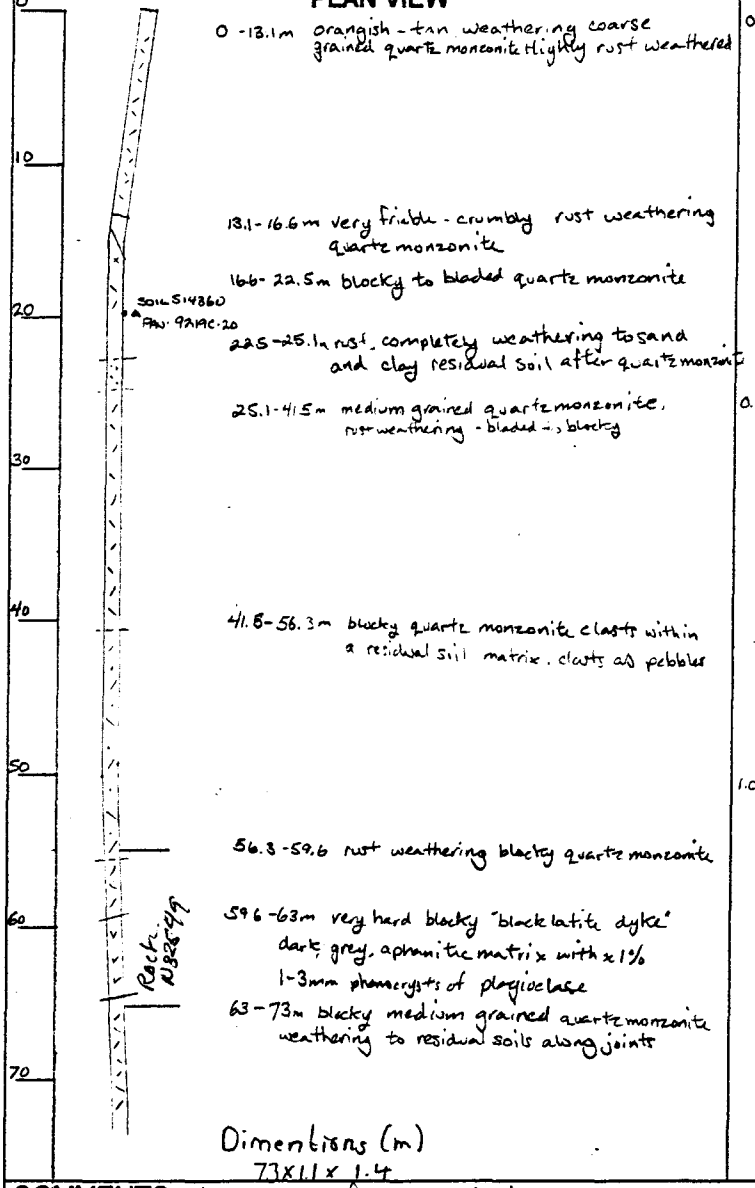
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9219
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9219C	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: 3
EASTING:	EQUIPMENT COST: @ $130/hr = $390
STARTED: September 15, 1993	LABOUR COST: 2 hrs @ $26.25/hr = $52.50
FINISHED: September 29, 1993	TOTAL EXPENDITURE: $ 442.50

SCALE 1:500

PLAN VIEW



0 - 13.1m orangish - tan weathering coarse grained quartz monzonite highly rust weathered

13.1 - 16.6m very friable - crumbly rust weathering quartz monzonite

16.6 - 22.5m blocky to bladed quartz monzonite

22.5 - 25.1m rust. completely weathering to sand and clay residual soil after quartz monzonite

25.1 - 41.5m medium grained quartz monzonite. rust weathering - bladed -, blocky

41.8 - 56.3m blocky quartz monzonite clasts within a residual soil matrix. clasts as pebbles

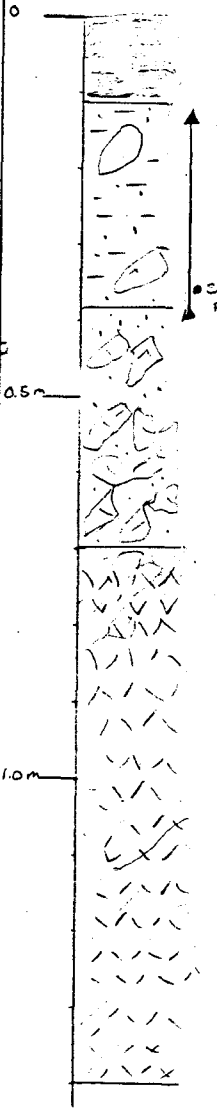
56.3 - 59.6 rust weathering blocky quartz monzonite

59.6 - 63m very hard blocky "black latite dyke" dark grey, aphanitic matrix with ≈ 1% 1-3mm phenocrysts of plagioclase

63 - 73m blocky medium grained quartz monzonite weathering to residual soils along joints

Dimentions (m)
73 x 1.1 x 1.4

SOIL PROFILE @ 20 m



- dark grey frozen silty organic soil
- sandy - silty dark brown colluvium with 10% clasts, 90% coarse sand and silt
- clast supported coarse pebble colluvium. dark brown with 30% matrix of sand
- dark brown bladed quartz monzonite

COMMENTS: No glacial or fluvial material

Soil S14360 26.15.3.58 ? missing?

SAMPLE NUMBERS: PAN 9219C1-20, ROCK N32549, SOIL S14360

PANNING CONCENTRATE DESCRIPTION:

PAN9219CA-20 Pan sample was taken from the base of silty matrix colluvium overlying residual soils and decomposed rock. One pan did not yield any gold ~ yielded ~ minor magnetite, hematite. No fluorescent minerals present.

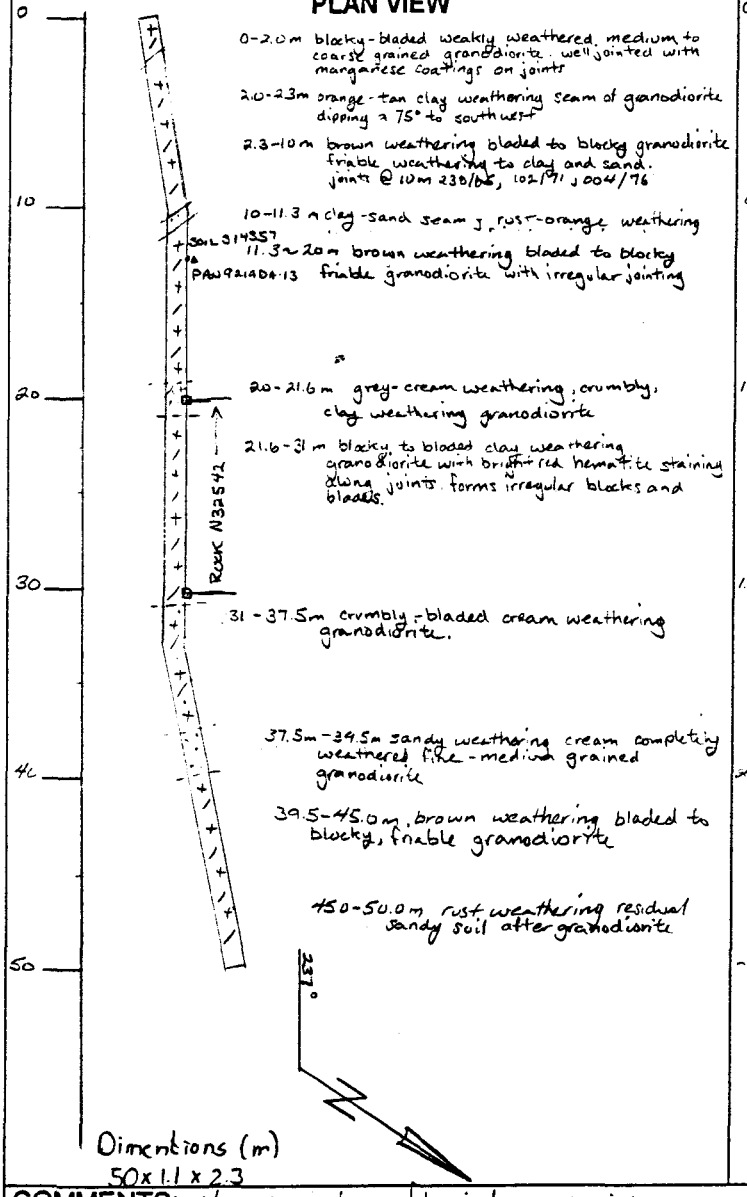
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9219
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9219 DA	EQUIPMENT TYPE: HITACHI Hoe
NORTHING:	EQUIPMENT HOURS: 2
EASTING:	EQUIPMENT COST: @ $130/HR = $ 390
STARTED: September 15 1993	LABOUR COST: 2 HRS @ $26.25/HR = $52.50
FINISHED: September 29, 1993	TOTAL EXPENDITURE: $ 442.50

Scale: 1:400

PLAN VIEW



0-2.0 m blocky-bladed weakly weathered medium to coarse grained granodiorite, well jointed with manganese coatings on joints

2.0-2.3m orange-tan clay weathering seam of granodiorite dipping ± 75° to south west

2.3-10 m brown weathering bladed to blocky granodiorite friable weathering to clay and sand. joints @ 10m 230/66, 102/71, 004/76

10-11.3 m clay-sand seam, rust-orange weathering

11.3-20 m brown weathering bladed to blocky friable granodiorite with irregular jointing

20-21.6 m grey-cream weathering, crumbly, clay weathering granodiorite

21.6-31 m blocky to bladed clay weathering granodiorite with bright red hematite staining along joints forms irregular blocks and bladels.

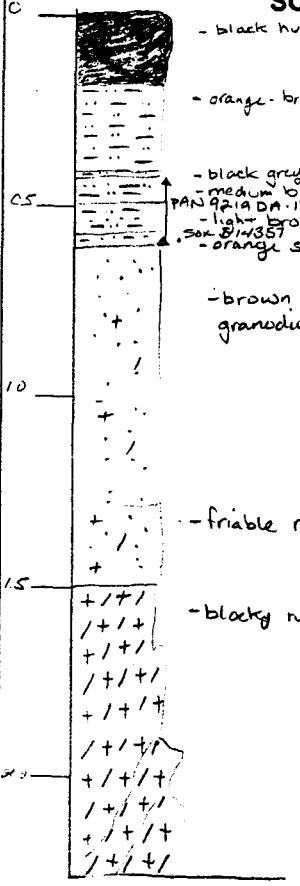
31-37.5m crumbly-bladed cream weathering granodiorite.

37.5m-39.5m sandy weathering cream completely weathered fine-medium grained granodiorite

39.5-45.0 m, brown weathering bladed to blocky, friable granodiorite

45.0-50.0 m rust weathering residual sandy soil after granodiorite

SOIL PROFILE @ 13m



- black humic soil 20% living organics
- orange-brown silty soil B, horizon, moist
- black grey silty soil, moist
- medium brown sandy soil, well drained
- light brown sandy soil, well drained
- orange sandy soil SOIL: S14357
- brown-orange residual sands after granodiorite
- friable residual soils after granodiorite
- blocky rust-to brown weathering granodiorit

COMMENTS: No glacial or fluvial material

(missing ? N32542 7, <5, <1, 2

SAMPLE NUMBERS: SOIL S14357, ROCK N32542, PAN 9219 DA-13

PANNING CONCENTRATE DESCRIPTION: PAN 9219 DA-13 was collected from sandy soil overlying residual soils after granodirite. Pan yielded no gold but did yield black sand (magnetite) and hematite

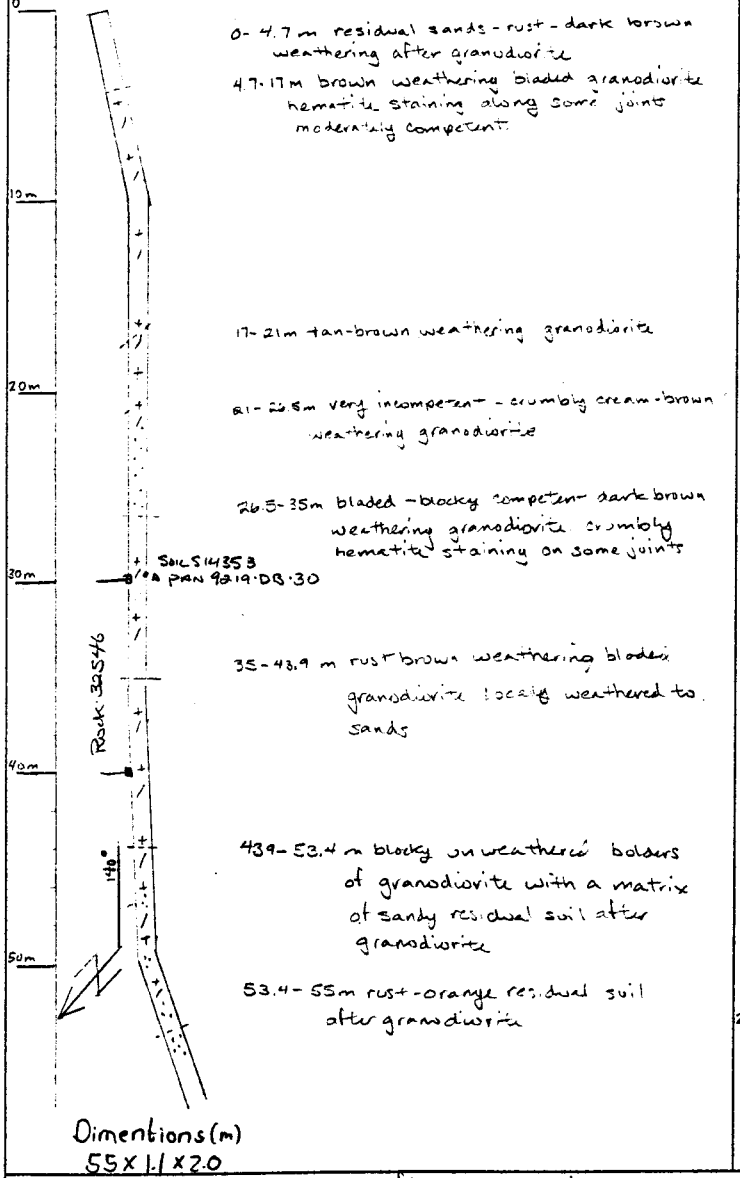
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9219
CREEK: CASINO
TYPE: BEACH

PIT NUMBER: 9219 DB	EQUIPMENT TYPE: Hitachi Hoe
NORTHING: -	EQUIPMENT HOURS: 3 HRS
EASTING:	EQUIPMENT COST: @ $130/HR = $390
STARTED: September 15, 1993	LABOUR COST: 2 HRS @ $26.25/HR = $ 52.50
FINISHED: September 27 1993	TOTAL EXPENDITURE: $ 442.50

1:400

PLAN VIEW



0- 4.7 m residual sands - rust - dark brown weathering after granodiorite

4.7-17m brown weathering bladed granodiorite hematite staining along some joints moderately competent

17- 21m tan-brown weathering granodiorite

21- 26.5m very incompetent - crumbly cream-brown weathering granodiorite

26.5-35m bladed - blocky competent dark brown weathering granodiorite crumbly hematite staining on some joints

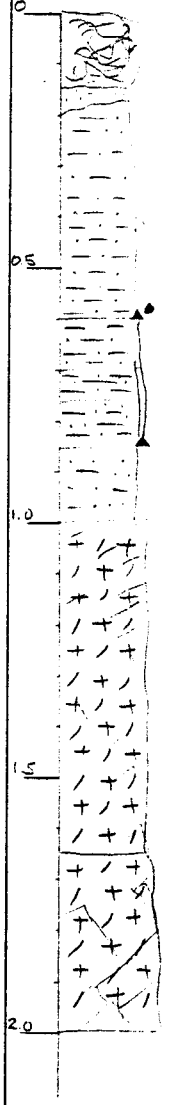
35- 43.9 m rust brown weathering bladed granodiorite locally weathered to sands

43.9- 53.4 m blocky unweathered boulders of granodiorite with a matrix of sandy residual soil after granodiorite

53.4- 55m rust-orange residual soil after granodiorite

Dimentions (m)
55 x 1.1 x 2.0

SOIL PROFILE @ 30m



- dark grey fibric organic soil
- grey volcanic ash
- rust-orange silty soil with 10% organics

Soil S14358
- grey brown silty soil
- grey brown sandy soil
- brown sandy - silty soil
- sandy dark brown residual soil after granodiorite
- bladed - blocky brown granodiorite with residual sand
- blocky unweathered granodiorite

COMMENTS: No glacial or fluvial material observed.

Soil S14358 15.45, 1.12 (missing?)

SAMPLE NUMBERS: Soil S14358 Rock N32546 PAN: 9819 DB 30

PANNING CONCENTRATE DESCRIPTION: PAN 9222 DB 30 WAS TAKEN FROM ~~THE~~ JUST ABOVE OF A SANDY RESIDUAL SOIL AFTER GRANODIORITE. PAN DIDN'T YIELD ANY GOLD but did yield ≈5% magnetic IN THE HEAVY ~~ONES~~. SOME YELLOW (FINE) MINERALS ~~THAT FLOUR~~ UNDER U.V. LIGHT

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

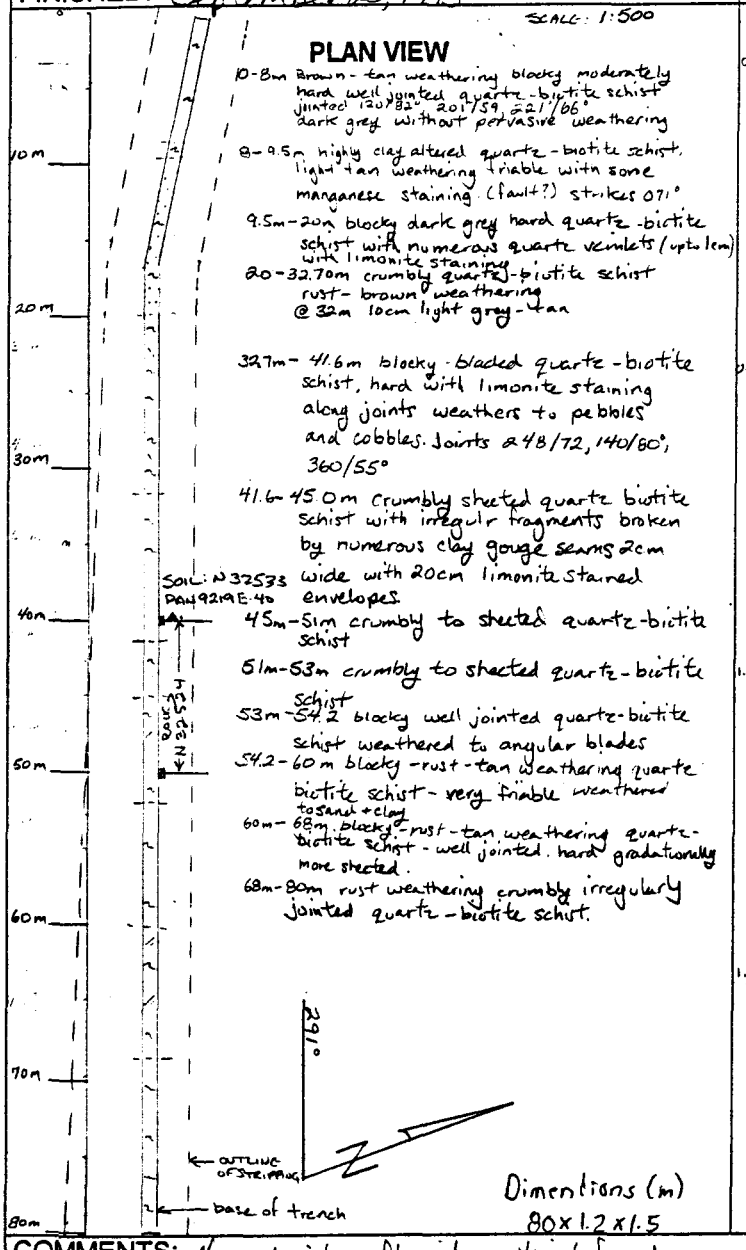
LEASE NO.: 9219
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9219 E
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 25, 1993

EQUIPMENT TYPE: D6-Widetrack CAT, Hitachi Hoe
EQUIPMENT HOURS: D6 2.5 Hoe 3.5
EQUIPMENT COST: D6@ $100/HR $250, Hoe@ $130/HR $455
LABOUR COST: 3 HRS@ $26.25/HR = $78.75
TOTAL EXPENDITURE: $ 783.75

PLAN VIEW

SCALE: 1:500



0-8m brown-tan weathering blocky moderately hard well jointed quartz-biotite schist jointed 120/82°, 201/59, 221/86° dark grey without pervasive weathering

8-9.5m highly clay altered quartz-biotite schist, light tan weathering friable with some manganese staining (fault?) strikes 071°

9.5m-20m blocky dark grey hard quartz-biotite schist with numerous quartz veinlets (up to 1cm) with limonite staining

20-32.7m crumbly quartz-biotite schist rust-brown weathering @ 32m 10cm light grey-tan

32.7m-41.6m blocky-bladed quartz-biotite schist, hard with limonite staining along joints weathers to pebbles and cobbles. Joints @ 48/72, 140/80°, 360/55°

41.6-45.0m crumbly sheeted quartz biotite schist with irregular fragments broken by numerous clay gouge seams 2cm wide with 20cm limonite stained envelopes

45m-51m crumbly to sheeted quartz-biotite schist

51m-53m crumbly to sheeted quartz-biotite schist

53m-54.2 blocky well jointed quartz-biotite schist weathered to angular blades

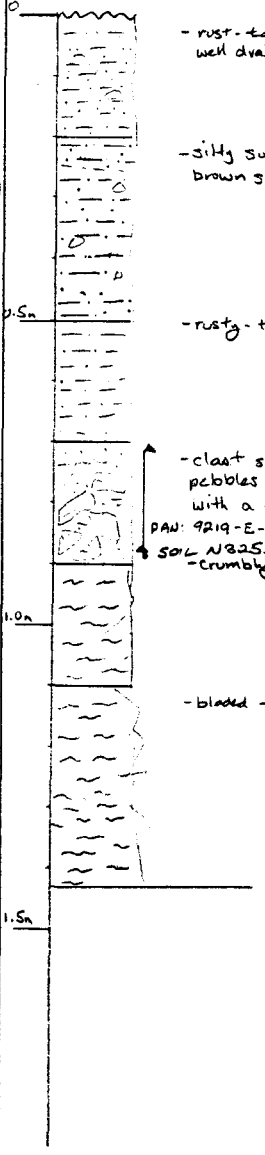
54.2-60m blocky-rust-tan weathering quartz biotite schist - very friable weathered to sand + clay

60m-68m blocky-rust-tan weathering quartz-biotite schist - well jointed, hard gradationally more sheeted.

68m-80m rust weathering crumbly irregularly jointed quartz-biotite schist.

Dimentions (m)
80 x 1.2 x 1.5

SOIL PROFILE @ 40m



- rust-tan soil 80% silt, 10% sand, 5% gravel <5% organics well drained

- silty soil, 15% sand, 2% organics, 5% gravel brown soil.

- rusty-tan residual soil 15% sand, 85% silt

- clast supported colluvium with angular coarse pebbles - fine cobbles of quartz-biotite schist with a matrix of coarse sand + silt

- crumbly bladed quartz-biotite schist

- bladed to blocky quartz biotite schist well jointed

COMMENTS: No glacial or fluvial material found

Soil N32533 19, <5, <1, 22 Rock N32534 8, 10, <1, 18
N32535 8, <5, <1 18

SAMPLE NUMBERS: SOIL: N 32533 ROCK: N32534, N32535 PAN: 9219-E-40

PANNING CONCENTRATE DESCRIPTION: PAN 9219 E 40 was taken from clast supported colluvium that overlies quartz biotite schist (bedrock). no gold was found and only trace magnetite black sand

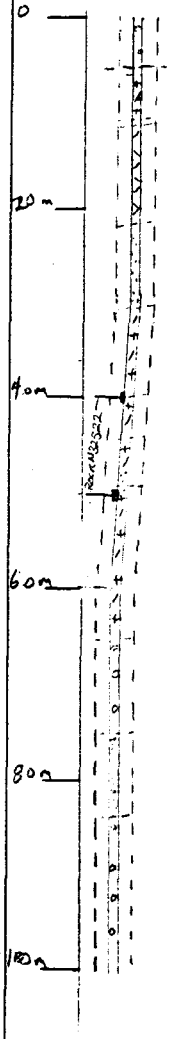
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9220
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9220A	EQUIPMENT TYPE: HITACHI HOE
NORTHING:	EQUIPMENT HOURS: HOE: 5HR
EASTING:	EQUIPMENT COST: HOE @ $130/HR = 650
STARTED: September 15, 1993	LABOUR COST: 3 HRS @ $26.25/HR = $78.75
FINISHED: September 19, 1993	TOTAL EXPENDITURE: $ 728.75

1:800

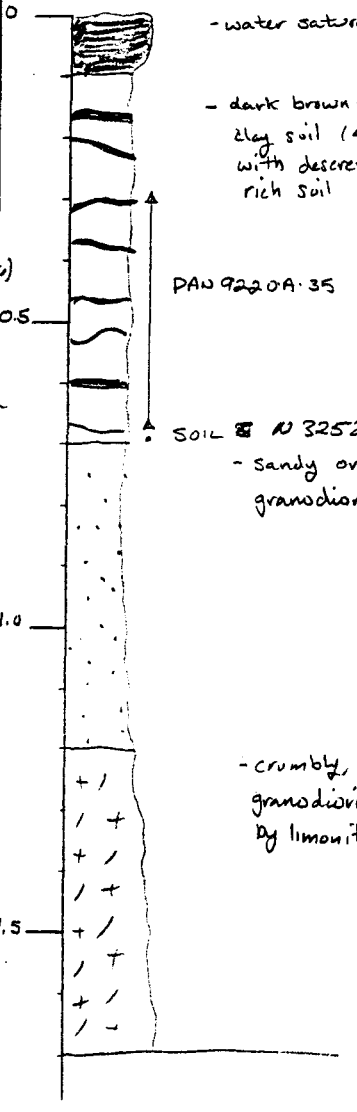
PLAN VIEW



0-5m Brown tan colluvium matrix supported with cobbles to boulders of granodiorite cobbles with pervasive limonite staining
5-6.3m Blocky medium grained granodiorite
6.3-10m Rust weathering orange residual soil
10m-12.8m Dark brown residual soil
12.8-23.3m Bleached brown weathering medium grained quartz monzonite with moderate clay alteration of feldspars.
23.3-31.3m Rust orange sandy residual soil with 20% gravel clasts (after granodiorite) water saturated - Frozen.
31.3-39.8 Highly weathered crumbly limonite stained granodiorite
39.8-43.2m Blocky moderately chlorite altered medium-coarse grained granodiorite
43.2-48.0m Highly weathered crumbly sandy granodiorite. weathers to rust-orange
48-65.0m moderately weathered crumbly granodiorite mafics lost: limonite staining on fractures
(55-57m) unaltered "FRESH" granodiorite
65.0m-75m GRANODIORITE bolder supported colluvium. dark brown clay-silt matrix.
75m-84m Frozen saturated "black muck"
84m-100m Rust-tan matrix supported colluvium. matrix 60% sand, 25% silt 5% clay, 10% Fine Pebbles. CLASTS PRINCIPALLY PEBBLES TO LARGE COBBLES OF GRANODIORITE.

Dimentions (m)
100 x 1.2 x 1.7

SOIL PROFILE @ 3.5m



- water saturated humic organic soil
- dark brown-olive water saturated frozen clay soil (40% CLAY, 30% SILT, 5% SAND with discrete black beds of humic rich soil
- SOIL N32523 - sandy orange residual soil after granodiorite
- crumbly, bleached, highly weathered granodiorite relict structures preserved by limonite staining

COMMENTS:

Soil N32523 9.45, 1.74 Rock N32522 7.45, 1.52 /10m

SAMPLE NUMBERS: PAN: 9220A-35 SOIL: N32523 ROCK: N32522

PANNING CONCENTRATE DESCRIPTION: PAN 9220A-35 was collected from just above residual soil after granodiorite. less than ½ gram of heavy sand ~~was recovered~~ and no gold was recovered. Some (trace) yellow flouresing mineral(

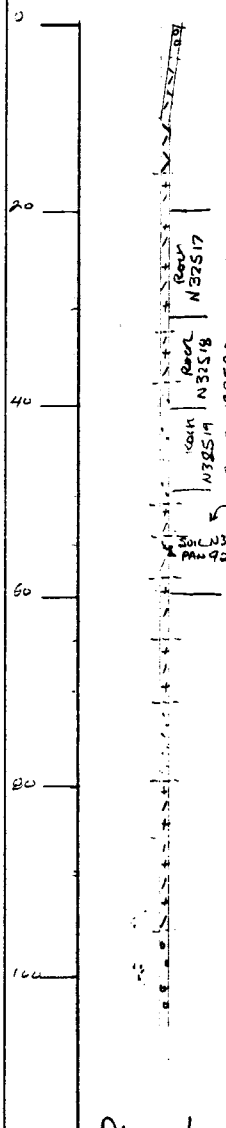
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9220
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9220 B	EQUIPMENT TYPE: D7-Winch CAT ; Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7 1 ; Hoe 4
EASTING:	EQUIPMENT COST: D7 @ $100/HR = 100 ; Hoe @ $130/HR = $ 520
STARTED: September 15, 1993	LABOUR COST: 3 HRS @ $26.25/HR = $ 78.75
FINISHED: September 18, 1993	TOTAL EXPENDITURE: $ 698.75

1:800

PLAN VIEW



0.1m-3.4m Chocolate-brown matrix supported colluvium with clasts (coarse pebbles of quartz monzonite (no mafics)

3.4m-17.7m coarse grained pinkish-buff weathering quartz monzonite with <1% mafics minor limonite staining Joints 210°/16, 252°/75, 019°/21

@ 17.7m 20cm Rust orange weathering clay seam

17.9-33.8m blocky unaltered coarse grained granodiorite with residual weathering to rusty sand * Right ½ of trench blocky left half crumbly rust weathering

@ 29.2m Fine grained andesite dyke on east wall.

33.8-38.0m Blocky unweathered coarse grained granodiorite

38.0-50m Highly weathered rust-orange weathering crumbly clay and sand after granodiorite with manganese staining on joints @ 47.5m Qz-Gn vein with manganese coatings striking 155°

50-53m crumbly rust clay weathering granodiorite with irregular quartz veins with manganese coatings and trace galena

53-57m medium-fine grained quartz monzonite

57-64m blocky granodiorite with residual soil between blocks.

64-70.5m blocky granodiorite

70.5-79.0 Rust-tan residual soil after granodiorite some relict structures preserved

79.0-84.8 Blocky unaltered granodiorite very hard

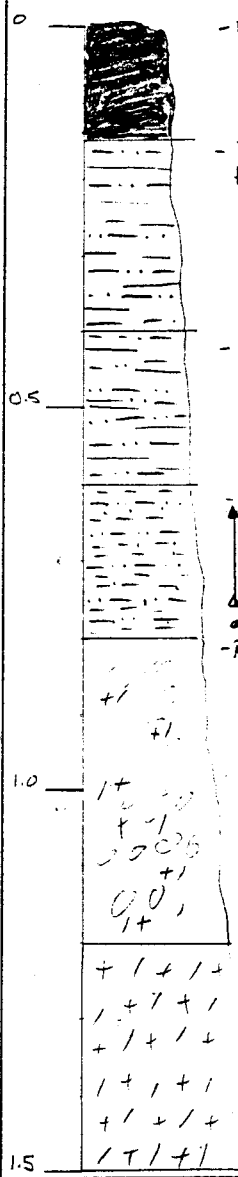
84.8-86.5 clay seam

86.5-98m blocky granodiorite unaltered rust weathering

98-105.0m rust brown weathering matrix supported colluvium with irregular-angular clasts (pebbles to cobbles of granodiorite within a sandy matrix of residual soil after granodiorite

Dimentions (m)
105 x 1.2 x 1.5

SOIL PROFILE @ 54m



- Black humic saturated organic soil
- Dark kahki-brown water saturated frozen soil with ice lenses 40% ice, 30% silt, 10% organics, 5% gravel, 10% sand
- Dark brown-kahki water saturated soil - not frozen.
- Tan-rust clay weathered soil with 40% silt, 20% Sand, 40% clay
  PAN 9220-B.54
  Soil N32521
- Residual pebbles and sand after granodiorite
- Bladed buff weathering granodiorite

COMMENTS: No glacial or fluvial material

Soil N32521 16, 15.2, 668 Rock N32517 3, <5, 1, 26 /10m N32519 42, <5, 3 2840 /10m
N32518 3, <5, 1, 42 /10m N32520 9, <5, 2, 138 /10m

SAMPLE NUMBERS: Rock N32517-N32520 , Soil N32521 , PAN 9220 B.54

PANNING CONCENTRATE DESCRIPTION: PAN 9220 B54 was taken at the top of residual soil and decomposed bedrock. The pan yields predominantly black sand (hematite + maggnetite) No gold was observed No fluorescent minerals

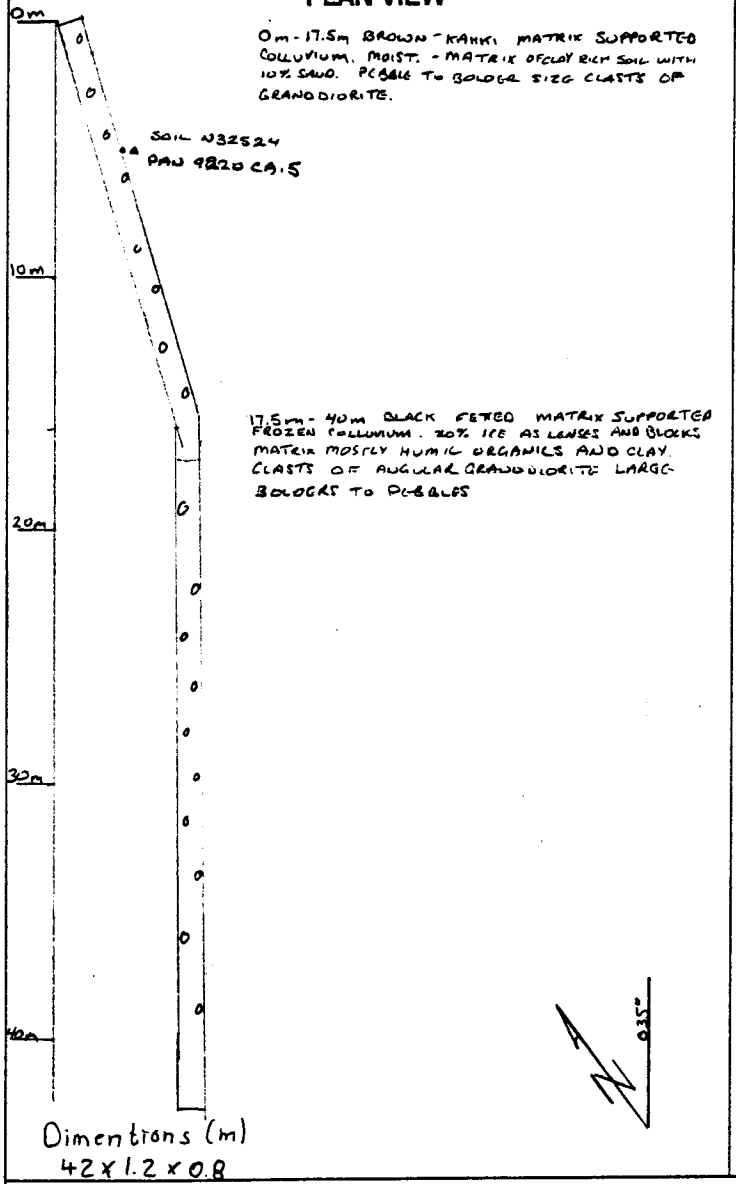
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9220
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9220CA	EQUIPMENT TYPE: D7 WINCH CAT ; HITACHI HOE
NORTHING:	EQUIPMENT HOURS: D7: 0.5 HOE: 1.5
EASTING:	EQUIPMENT COST: D7@$100/HR = $50 HOE@$130/HR = $195
STARTED: SEPTEMBER 16, 1993	LABOUR COST: 2HRS @ $26.25/HR = $52.50
FINISHED: SEPTEMBER 20, 1993	TOTAL EXPENDITURE: $297.50

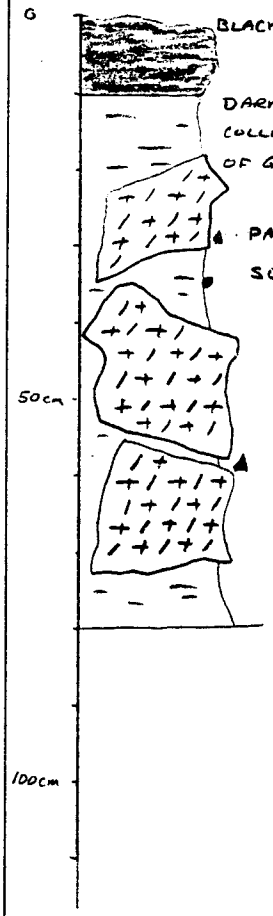
1:300

PLAN VIEW



Dimentions (m)
42 x 1.2 x 0.8

SOIL PROFILE @ 5m



COMMENTS: CONTINUOUS PERMAFROST ENCOUNTERED. NO GLACIAL OR FLUVIAL MATERIAL EXPOSED.

Soil N32524 16.<5. <1.22

SAMPLE NUMBERS: SOIL: N32524 , PAN 9220CA.5

PANNING CONCENTRATE DESCRIPTION: PAN 9220.CA.5 WAS COLLECTED FROM COLLUVIUM.

THE PAN YIELDED ~~PLACER~~ UP MAGNETITE SAND

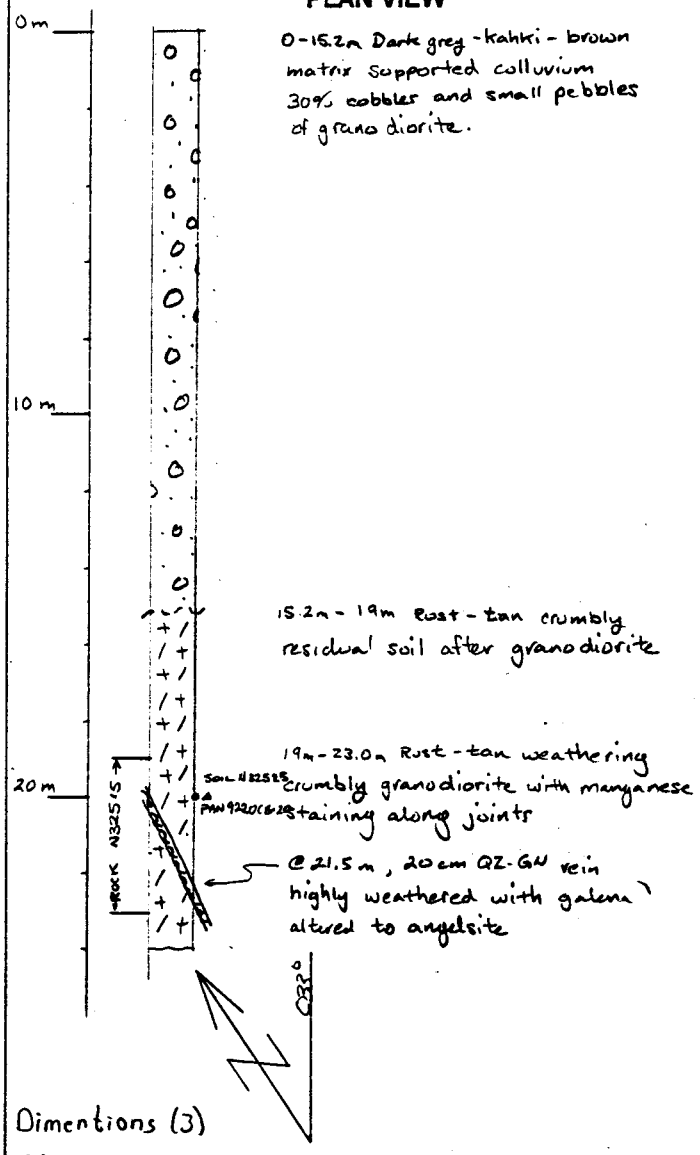
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9220
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9220CB	EQUIPMENT TYPE: D7 W/INCH CAT, Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 0.5 hrs, HOE: 1.5 hrs
EASTING:	EQUIPMENT COST: D7 @ $100/hr = $50, HOE @ $130/HR = $195
STARTED: September 15, 1993	LABOUR COST: 2 hrs @ $26.25/hr = $52.50
FINISHED: September 21, 1993	TOTAL EXPENDITURE: $297.50

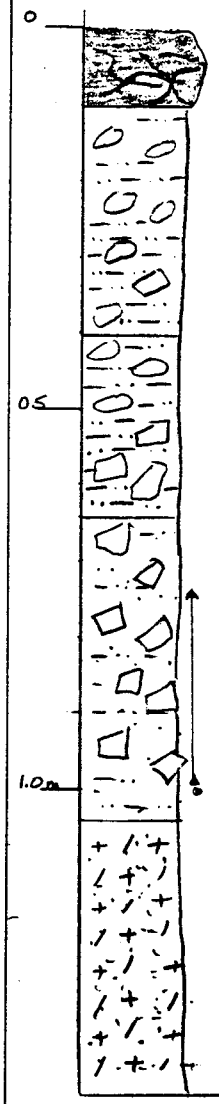
1:200

PLAN VIEW



Dimentions (3)
24 x 1.1 x 1.4

SOIL PROFILE @ 20 m



- BLACK FIBRIC ORGANIC SOIL WELL DRAINED
- DARK GREYISH BROWN SILTY MATRIX SUPPORTED COLLUVIUM WITH 30% COARSE PEBBLES OF GRANODIORITE
- MEDIUM BROWN MATRIX SUPPORTED COLLUVIUM. 40% COARSE PEBBLES OF GRANODIORITE MATRIX OF SILT > CLAY > SAND
- LIGHT BROWN-TAN MATRIX SUPPORTED COLLUVIUM WITH COARSE PEBBLE SIZED CLASTS OF GRANODIORITE MATRIX 40%

PAN 9220-CB-20

SOIL N32525

- RUST ORANGE WEATHERING RESIDUAL SOIL AFTER GRANODIORITE. RELICT STRUCTURES PRESERVED MANGANESE COATINGS ALONG RELICT JOINTS

COMMENTS: Small galena vein found at base of pit. No glacial or fluvial material exposed

Soil N32525 33,380, 3,566 Rock N32515 9,<5, 13,2180 /4m

SAMPLE NUMBERS: Pan 9220CB-20, SOIL: N32525 ROCK N32515

PANNING CONCENTRATE DESCRIPTION: 9220CB-20 was collected at the base of colluvium overlying residual soils after granodiorite. Only minor black sand was recovered and no gold.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

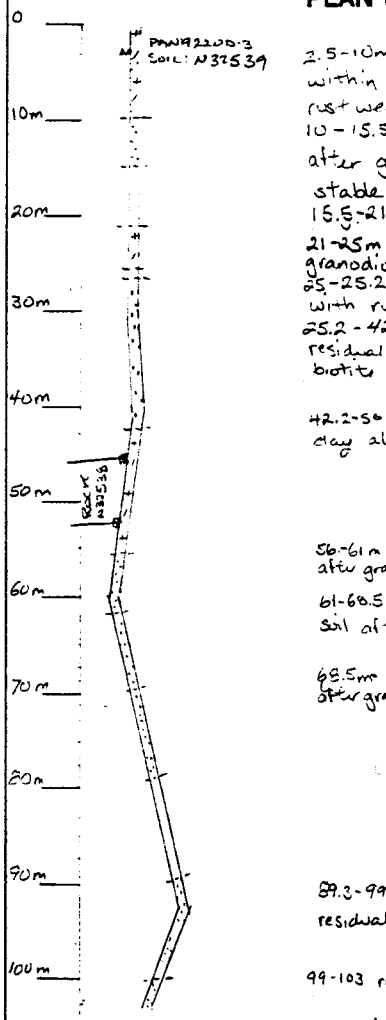
LEASE NO.: 9220
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9220D
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 29, 1993

EQUIPMENT TYPE: D6-Wide track CAT, Hitachi Hoe
EQUIPMENT HOURS: D6: 1, HOE: 2
EQUIPMENT COST: D6 @ $100/HR = 100 Hoe @ $130/HR = 260
LABOUR COST: 3 HRS @ 26.25/HR = $78.75
TOTAL EXPENDITURE: $438.75

PLAN VIEW

SCALE: 1:800



2.5-10m blocky granodiorite clasts within a residual sand matrix. rust weathering
10-15.5m rust orange residual sands after granodiorite. very friable biotite stable but feldspars altered to clays
15.5-21
21-25m cream-tan weathering blocky granodiorite
25-25.2m cream weathering clay seams with rusty envelopes
25.2-42.2m rust weathering sandy residual soil after granodiorite with biotite preserved

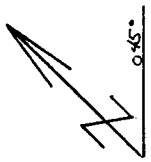
42.2-56 Rust orange weathering clay altered granodiorite. very friable

56-61m rust-brown weathering sands after granodiorite
61-68.5m tan-brown frozen residual soil after granodiorite

68.5m 78.9m grey-tan sandy soil after granodiorite

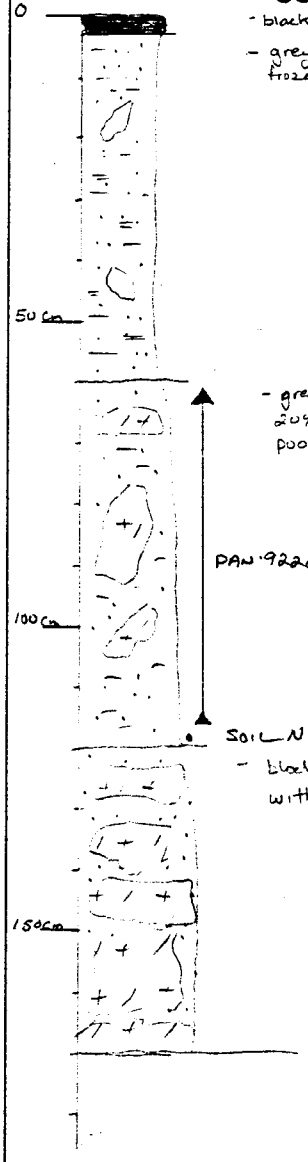
79.3-99m tan to orange weathering residual soil after granodiorite

99-103 rust-tan residual soil



Dimentions (m)
103 x 1.1 x 1.7

SOIL PROFILE @ 3m



- black humic organic soil water saturated frozen
- grey sandy-silty-clay soil water saturated frozen
- greyish brown matrix supported colluvium 20% cobbles to small pebbles. matrix poorly sorted
- blocky residual weathering granodiorite with clasts supported by residual sands

COMMENTS: No glacial or fluvial material

Soil N32539 17, <5, 4 250 Rock N32538 6, <5, 2, 14 17m

SAMPLE NUMBERS: Rock: N32538 PAN 9220D-3 Soil N32539

PANNING CONCENTRATE DESCRIPTION: Pan 9220D-3 was collected from colluvium overlying residual soil and weathering granodiorite. Pan concentrate consisted of 50% magnetite sand 35% QUARTZ AND 15% black hornblende. Some unidentified yellow fluorescent minerals

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

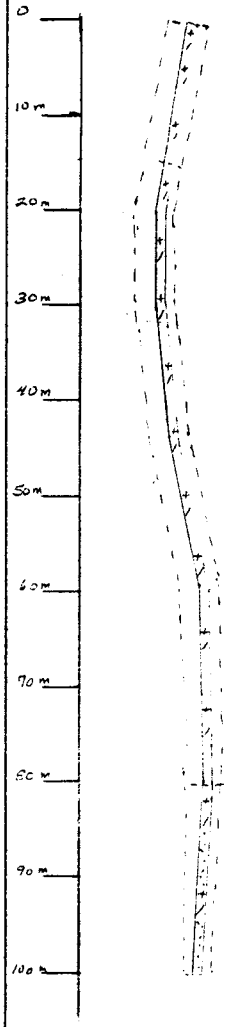
LEASE NO.: 9221
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9221 A
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 30, 1993

EQUIPMENT TYPE: Hitachi Hoe
EQUIPMENT HOURS: 4
EQUIPMENT COST: 4 @ $130/HR = $ 520
LABOUR COST: 2 HRS @ $26.25/HR = $52.50
TOTAL EXPENDITURE: $ 572.50

PLAN VIEW

1: 800



0-16m cream grey - very friable incompetent coarse grained granodiorite. Textures well preserved. Rock crumbles to sand Joints 169/78°, 095/61°

16-23m identical to above but jointing distorted

23-33m very crumbly cream - tan weathering coarse grained granodiorite. Relict jointing preserved by limonite staining

33-34.7m Rust - cream weathering very crumbly incompetent granodiorite

34.8m 3cm clay seam with 20cm limonite stained envelope.

34.7-50m cream crumbly - clay weathering granodiorite crumbles to sand and pebbles.

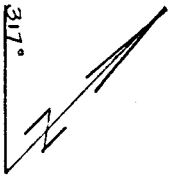
50.0m-57.8m rust - orange weathering frozen clay - sand weathering (SOIL) after granodiorite very crumbly - water saturated.

57.8-68.7m cream - grey very friable incompetent granodiorite Relict jointing preserved as limonite stains

68.7-76.5 rust - orange clay weathering sheeted to crumbly granodiorite Some manganese staining

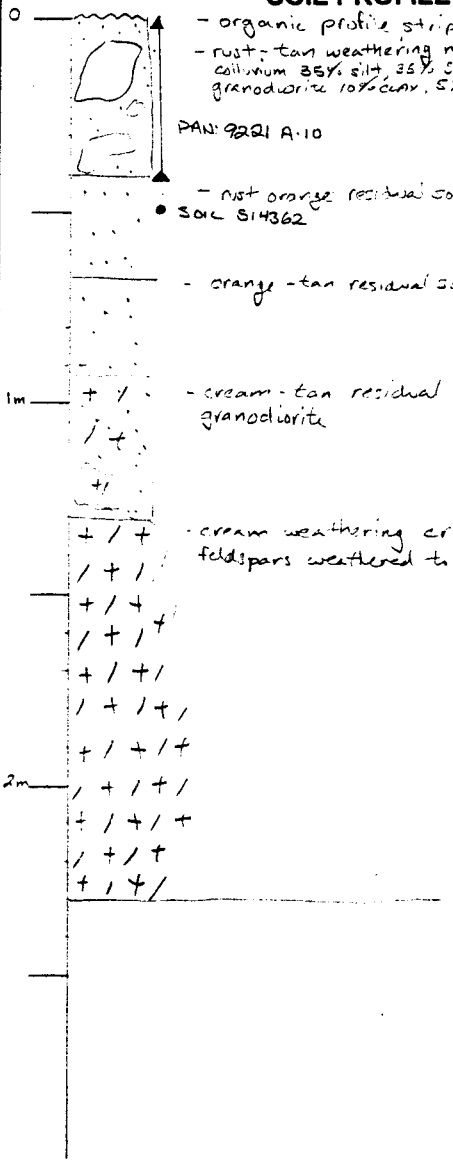
76.5-78.5m trench shallows to 1.5m - orange - tan residual soil after granodiorite

78.5m-100m grey cream residual soil after granodiorite



Dimentions (m)
100 X 1.1 X 2.3

SOIL PROFILE @ 10m



- organic profile stripped
- rust - tan weathering matrix supported colluvium 85% silt, 35% sand, 5% pebbles of granodiorite 10% clay, 5% organics

PAN: 9221 A-10

- rust orange residual soil 60% sand 30% silt
SOIL S14362

- orange - tan residual soil 60% sand 30% silt

- cream - tan residual soil grading into granodiorite

- cream weathering crumbly granodiorite, feldspars weathered to clay. Texture preserved.

COMMENTS: No fluvial or glacial material recovered.

Soil S14362 9, <5, <1, 116 Rock N32547 4, <5, <1, 6 / where?

SAMPLE NUMBERS: Soil S14362, Rock N32547, PAN 9221-A-10

PANNING CONCENTRATE DESCRIPTION: PAN SAMPLE 9221-A-10 was taken at the base of colluvium overlying residual soils after granodiorite

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

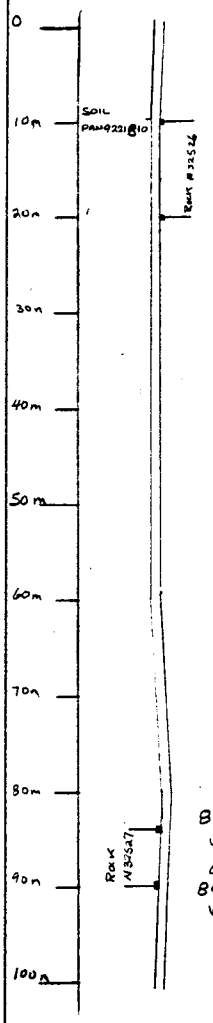
LEASE NO.: 9221
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9221B
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 21, 1993

EQUIPMENT TYPE: D7 WINCH CAT ; HITACHI HOE
EQUIPMENT HOURS: D7E 2 ; HOE = 5
EQUIPMENT COST: D7 @ $100/hr = 200 ; HOE @ $130/hr = $650
LABOUR COST: 3 hrs @ $26.25/hr = $ 78.75
TOTAL EXPENDITURE: $ 928.75

PLAN VIEW

1:800



0-8m Bladed to blocky buff weathering medium - coarse grained granodiorite with pervasive limonite staining
8-10.3m crumbly rust weathering granodiorite with moderate to strong clay weathering
10.3m-22m Buff weathering bladed medium grained quartz monzonite

22-30m Brown matrix supported colluvium with a silty matrix and cobbles - pebbles of quartz monzonite and granodiorite

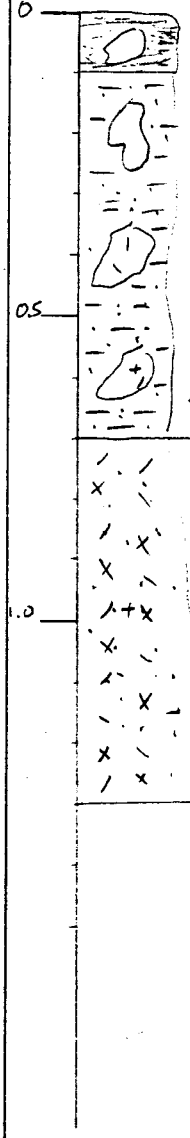
30-47.6m Black matrix supported colluvium with a matrix of "black muck" (humic organics + silt + ice) clasts of quartz monzonite and granodiorite coarse pebbles to cobbles (trench shallows to 60 cm.

47.6-89.6m Brown orange residual soil after granodiorite

87-89.10 WHITE-cream weathering granodiorite with manganese staining on joints feldspars completely altered to clay.
89.10m-95.0m cream weathering moderately clay weathered granodiorite

Dimentions (m)
100 x 1.2 x 1.8

SOIL PROFILE @10m



- black mesic organic soil
- brown matrix supported colluvium with a silty matrix and quartz-monzonite cobbles
- crumbly rust weathering granodiorite with moderate to strong clay weathering

COMMENTS: No glacial or fluvial material exposed.

Soil N32528 13,5,1,272 Rock N32526 4,<5,1,358 /10m
N32527 3,<5,1,274 /6m

SAMPLE NUMBERS: PAN: 9221B.10, SOIL: N32528, ROCK N32526, N32527.

PANNING CONCENTRATE DESCRIPTION: PAN SAMPLE 9221C.10 was taken from the base of colluvium overlying residual sands. Only minor magnetite sand with Quartz sand dominant. No gold observed. minor hematite

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

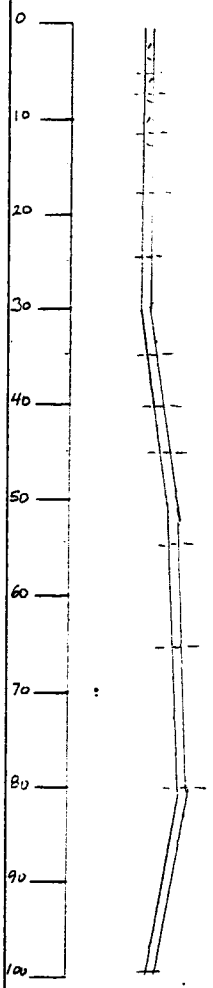
LEASE NO.: 9221
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9221C
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 27, 1993

EQUIPMENT TYPE: D6-Widetrack, Hitachi Hoe
EQUIPMENT HOURS: D6 · 2 Hoe 4
EQUIPMENT COST: D6 @ $100/HR = 200 Hoe @ $130/HR = $520
LABOUR COST: 3 HRS @ 26.25/HR = $78.75
TOTAL EXPENDITURE: $798.75

SCALE: 1:800

PLAN VIEW



0-

5-7.5m rust weathering Quartz monzonite weathers to sand
7.5-11.1m blocky quartz monzonite clasts supported
11.1-18m colluvium with a sandy residual soil matrix rust-brown residual soil after quartz monzonite strong limonite staining

18-24.5 irregular blocky unweathered quartz monzonite weathers to cobbles and small boulders
24.5-35m rust brown weathering residual soil after quartz monzonite.

35-40m fine grained quartz monzonite

43-45m blocky clay weathered granodiorite clasts within a residual soil

45-54m rusty residual soil after granodiorite 20% clay

54-65.5m blocky granodiorite colluvium / residual sand, light brown weathering

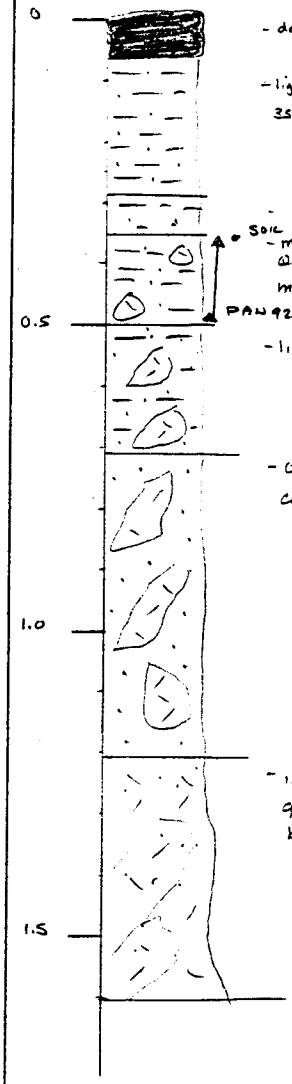
65.5m-80m orange brown residual soil after granodiorite with resistant unweathered cobbles of granodiorite

80-85m dark brown matrix supported colluvium with irregular clasts of granodiorite 1-15cm Matrix 30% organics 30% clay, Fe2O3, FeTiO3

85-99m light grey residual weathering soil after granodiorite with relict textures preserved.

Dimentions (m)
100 x 1.5 x 1.5

SOIL PROFILE @ 5m



- dark grey fibric organic soil moist

- light grey - tan silty soil with 15% Organics 35% clay

SOIL N32541
- matrix supported colluvium with cobbles of quartz monzonite supported by a silty matrix with 5% organics, 10% sand <5% clay

PAN 9221C
- light brown silty matrix supported colluvium

- orangish brown sandy matrix supported colluvium with clasts of quartz monzonite

- insitu residual weathering ~~quartz mon~~ quartz monzonite weathers to clean buff sand.

COMMENTS: No glacial or fluvial material observed

Soil N32541 12, <5, <1, 60

SAMPLE NUMBERS: SOIL N32541, PAN 9221C5

PANNING CONCENTRATE DESCRIPTION: PAN 9221C5 was collected from colluvium. Pan concentrates have very little heavy minerals (< 1% magnetite sand). No gold was observed.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

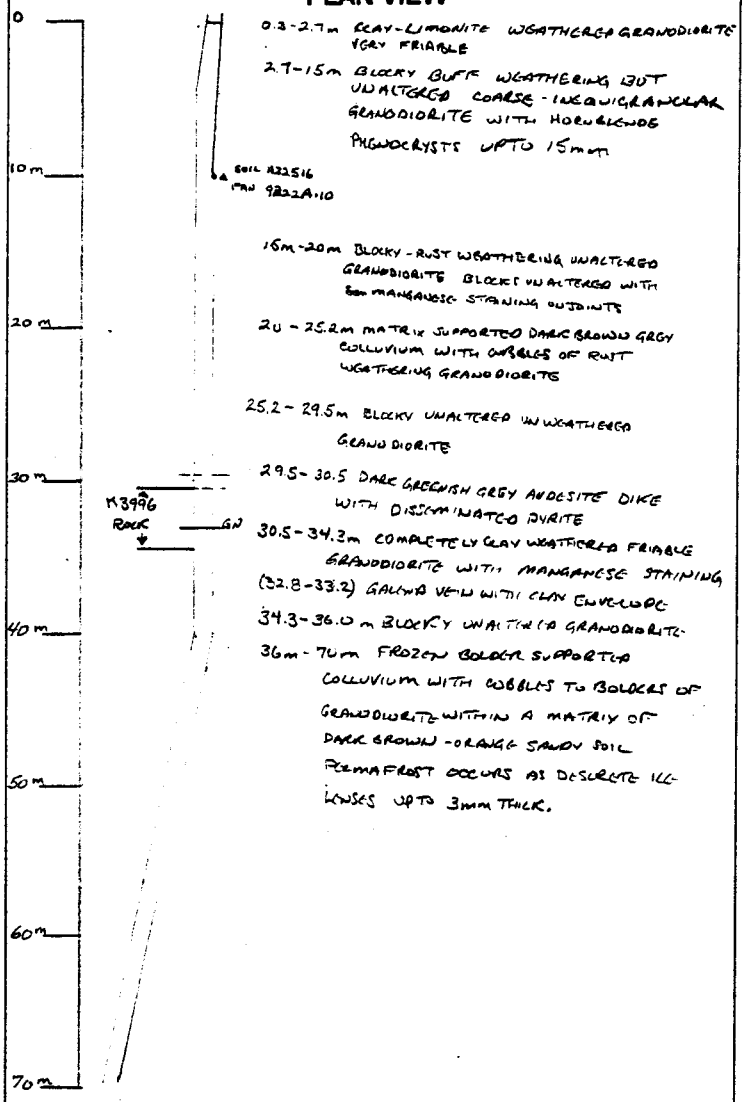
LEASE NO.: 9222
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9222 A
NORTHING:
EASTING:
STARTED: September 16, 1993
FINISHED: September 19, 1993

EQUIPMENT TYPE: D7 Winch CAT; Hitachi Hoe
EQUIPMENT HOURS: D7: 1.5 Hoe: 4
EQUIPMENT COST: D7 @ $100/hr = $150 ; Hoe @ $130/hr = $520
LABOUR COST: 3 men @ 26.25/hr = $78.75
TOTAL EXPENDITURE: $748.75

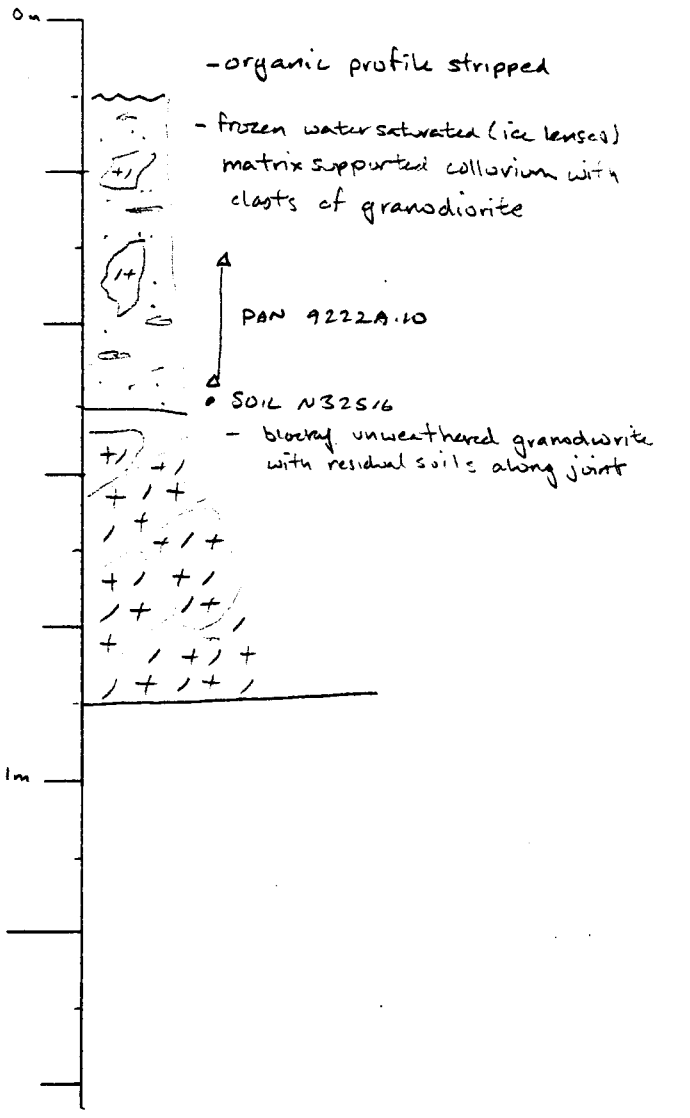
1:500

PLAN VIEW



Dimentions (m)
70 x 1.3 x 1.2

SOIL PROFILE @ 10m



COMMENTS: CONTINUOUS PERMAFROST FROM 10m-70m. NO GLACIAL OR FLUVIAL MATERIAL EXPOSED

Soil N32516 23.15, <1, 92 Rock K3996 101.55, <1, >10,000 / 3m

SAMPLE NUMBERS: ROCK: K3996 SOIL N32516 PAN 9222A.10

PANNING CONCENTRATE DESCRIPTION: PAN 9222A.10 was taken at the base of the colluvium. minor magnetite was recovered from pan sample. No gold was observed

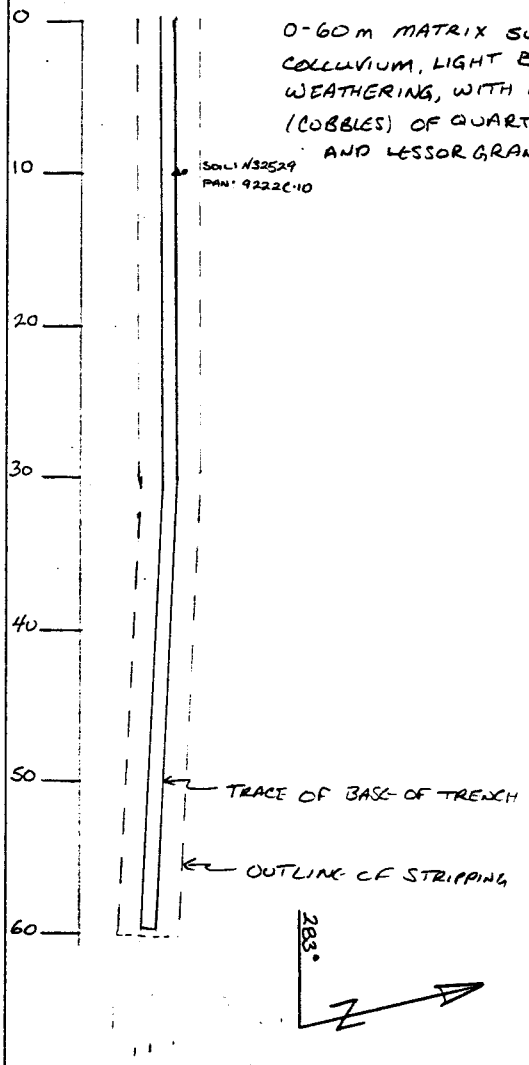
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9222
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9222C	EQUIPMENT TYPE: D7-WINCH CAT Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: D7: 1.5 HR , HOE: 3 HRS
EASTING:	EQUIPMENT COST: D7 @ $100/HR = $150 , HOE @ $130/HR = $390
STARTED: September 15, 1993	LABOUR COST: 2 HRS @ $26.25/HR = $52.50
FINISHED: September 28 1993	TOTAL EXPENDITURE: $ 592.50

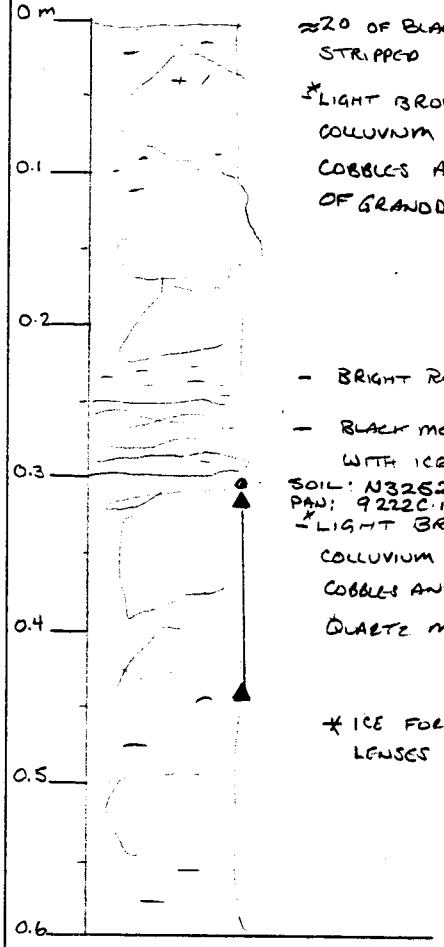
PLAN VIEW

1:500



Dimentions (m)
60 x 1.2 x 0.6

SOIL PROFILE @ 10m



COMMENTS:

Soil N32529 24.25 1.148

SAMPLE NUMBERS: SOIL: N32529, PAN: 9222C-10

PANNING CONCENTRATE DESCRIPTION: PAN 9222C-10 was collected from frozen colluvium at the base of the trench. only minor heavy minerals in panconcentrate ie less than 20% magnetite, trace hematite. No gold was observed.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

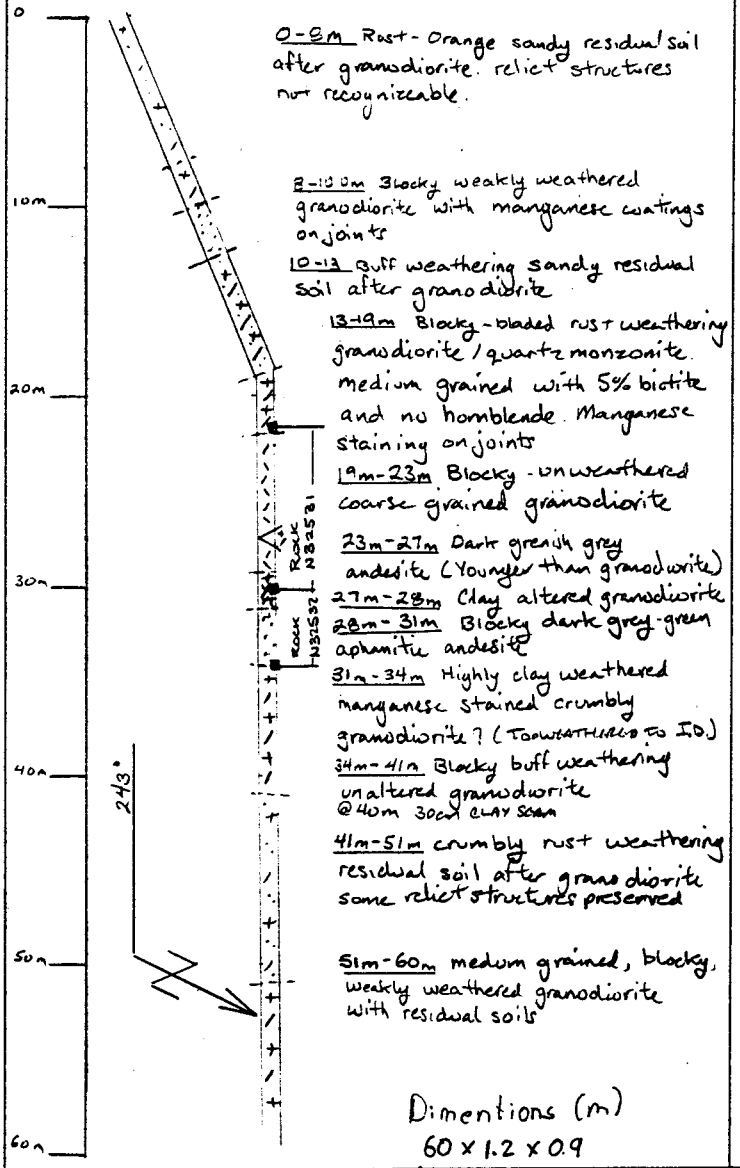
LEASE NO.: 9222
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9222DA
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 22, 199

EQUIPMENT TYPE: D7-Winch CAT, Hitachi HOE
EQUIPMENT HOURS: D7 1.0 , HOE 3
EQUIPMENT COST: D7@100/HR=$ 100 , HOE@$130/HR=$390
LABOUR COST: 2 HRS@2625/HR=$52.50
TOTAL EXPENDITURE: $ 5425D

PLAN VIEW

1:400



0-8m Rust-Orange sandy residual soil after granodiorite. relict structures not recognizeable.

8-10.0m Blocky weakly weathered granodiorite with manganese coatings on joints

10-13 Buff weathering sandy residual soil after granodiorite

13-19m Blocky-bladed rust weathering granodiorite / quartz monzonite. medium grained with 5% biotite and no hornblende. Manganese staining on joints

19m-23m Blocky - unweathered coarse grained granodiorite

23m-27m Dark greenish grey andesite (Younger than granodiorite)

27m-28m Clay altered granodiorite

28m-31m Blocky dark grey-green aphanitic andesite

31m-34m Highly clay weathered manganese stained crumbly granodiorite? (TOO WEATHERED TO ID)

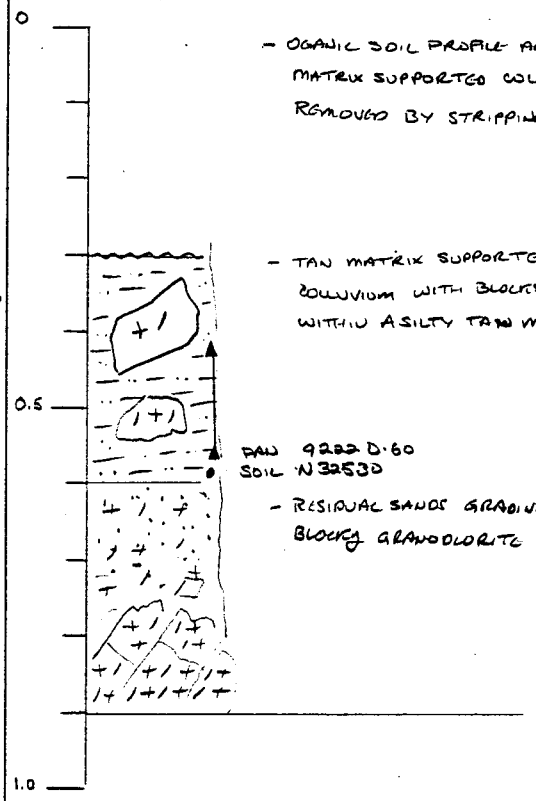
34m-41m Blocky buff weathering unaltered granodiorite @40m 30cm CLAY seam

41m-51m crumbly rust weathering residual soil after granodiorite some relict structures preserved

51m-60m medium grained, blocky, weakly weathered granodiorite with residual soils

Dimentions (m)
60 x 1.2 x 0.9

SOIL PROFILE @60m



- ORGANIC SOIL PROFILE AND UPPER MATRIX SUPPORTED COLLUVIUM REMOVED BY STRIPPING
- TAN MATRIX SUPPORTED BLOCKY COLLUVIUM WITH BLOCKS OF GRANODIORITE WITHIN A SILTY TAN MATRIX

PAN 9222 D·60
SOIL N32530

- RESIDUAL SANDS GRADING INTO BLOCKY GRANODIORITE

COMMENTS: No glacial or fluvial material observed

Soil N32530 17, <5, 1, 92 Rock N32531 15, <5, <1, 18 / 10m
N32532 19 <5, 5, 468 / 4m

SAMPLE NUMBERS: PAN: 9222·D·60 SOIL: N32530 ROCK N32531, N32532

PANNING CONCENTRATE DESCRIPTION: Pan 9222 DA·60 was collected at the base of colluvium overlying residual sands after granodiorite. Pan concentrate 30% black sand mainly magnetite No gold was observed. Some (trace) scheelite observed.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

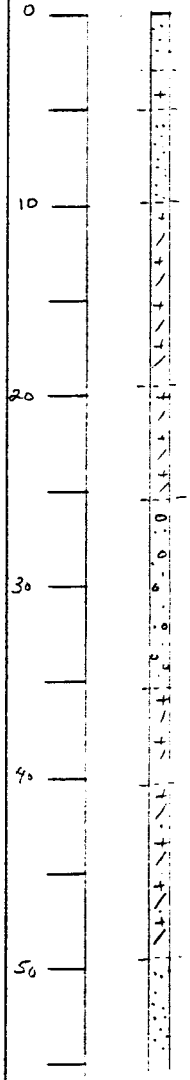
LEASE NO.: 9222
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9222 DB
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 27, 1993

EQUIPMENT TYPE: D7-Winch CAT, Hitachi Hoe
EQUIPMENT HOURS: D7: 1 HOE: 3
EQUIPMENT COST: D7 @ $100/HR = $100, HOE @ $130/HR = $390
LABOUR COST: 2 HRS @ $26.25/HR = $52.50
TOTAL EXPENDITURE: $542.50

1:400

PLAN VIEW



0-2.3m tan brown residual soil after granodiorite, 10% clay.

2.3-5.7m tan weathering blocky granodiorite weathers to clay along joints.

5.7-10m sandy residual soil after granodiorite

10-19.3m blocky granodiorite weathering to clay and sand. clasts upto 40cm in diameter

19.3-25.9m resistant granodiorite clasts within a residual soil matrix of sand and silt

25.9-36.9m granodiorite bolder colluvium TAN WEATHERING. CLAST SUPPORTED.

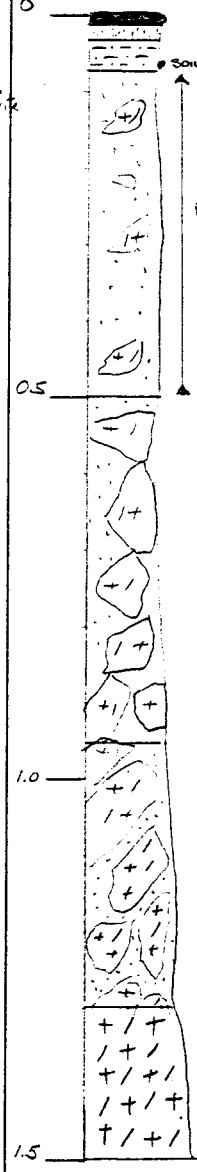
36.9-40.2 well jointed blocky soft granodiorite altered to sand

40.2-49.5 soft-tan weathering crumbly granodiorite

49.5-55m Residual sand; after granodiorite

Dimentions (m)
55 x 1.2 x 1.5

SOIL PROFILE @ 50m



- black fibric organic soil
- grey volcanic ash
- redish brown silty soil

- matrix supported colluvium with small cobbles and pebbles of granodiorite with a silty matrix

PAN: 9222 DB-50

- coarse cobble supported colluvium with a sandy matrix

- coarse cobbles of granodiorite supported by a matrix of residual soil and

- crumbly granodiorite - well jointed

COMMENTS:

Soil T2070 17, 455, 2, 64 Rock N32543 1925 <1, 2 /where ?

SAMPLE NUMBERS: SOIL: T2070 ROCK N32543 PAN 9222 DB 50

PANNING CONCENTRATE DESCRIPTION: Pan 9222 DB50 was collected from matrix colluvium. The pan concentrate consisted of 50% black sand (magnetite) trace scheelite, and No gold was observed.

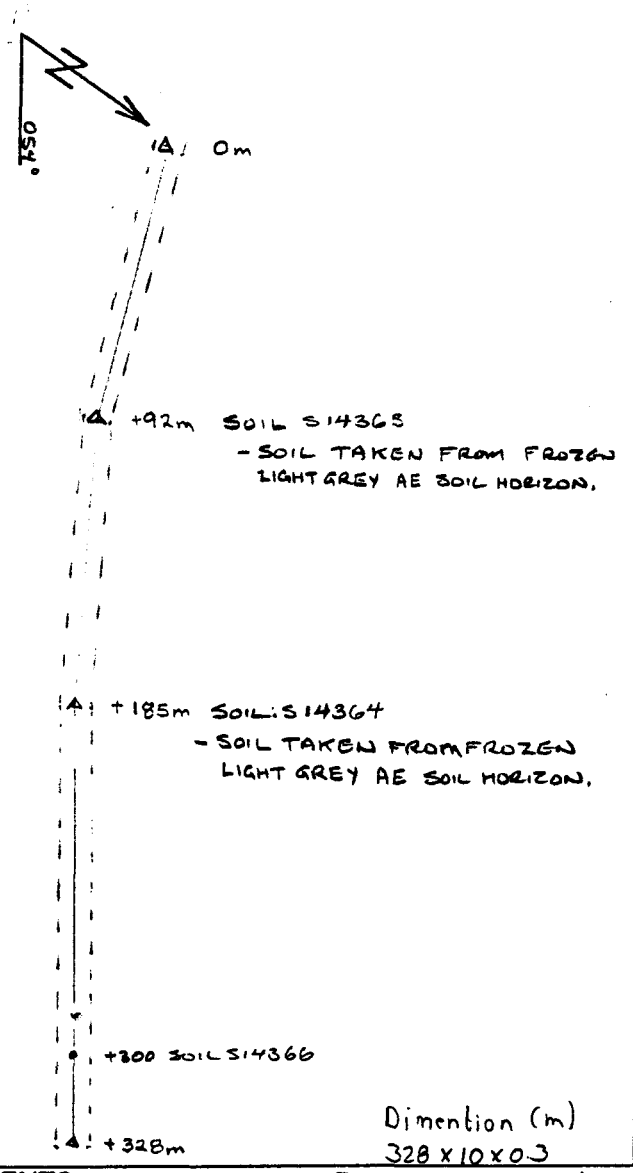
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9223
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9223 A	EQUIPMENT TYPE: D7 - RIPPER CAT
NORTHING:	EQUIPMENT HOURS: 3 HRS
EASTING:	EQUIPMENT COST: @ $130/HR = $390
STARTED: October 30, 1993	LABOUR COST: 2 hrs @ $26.25/HR - $52.50
FINISHED: November 3, 1993	TOTAL EXPENDITURE: $ 442.50

PLAN VIEW

SCALE: 1:2500



SOIL PROFILE

- SURFACE STRIPPED TO A DEPTH AVERAGING 30 cm. TO FACILITATE THAWING OF DISCONTINUOS PERMAFROST

COMMENTS: DISCONTINUOUS PERMOFROST. AREA STRIPPED OF ORGANIC SOIL PROFILE TO FACILITATE THAWING DURING NEXT SUMMER.

(samples not assayed ?

SAMPLE NUMBERS: SOILS: S14366, S14364, S14365

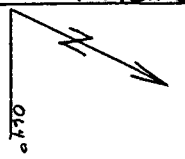
PANNING CONCENTRATE DESCRIPTION: NONE TAKEN.

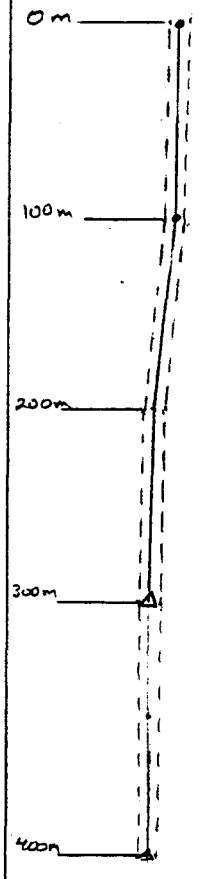
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9223
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9223B	EQUIPMENT TYPE: D7-RIPPER CAT
NORTHING:	EQUIPMENT HOURS: 4 HRS
EASTING:	EQUIPMENT COST: @ $130/HR = $520
STARTED: OCTOBER 30, 1993	LABOUR COST: 2 HRS @ $26.25/HR = $52.50
FINISHED: NOVEMBER 3, 1993	TOTAL EXPENDITURE: $572.50

PLAN VIEW 1:500





0- SOIL $14967 - TAN BROWN SILTY SOIL CLASTS OF GRANODIORITE

75m SOIL $14966 - SILTY BROWN SOIL

150- SOIL $14380 - DARK BROWN SILTY SOIL WITH GRANODIORITE CLASTS

200- SOIL $14379 - TAN-BROWN SILTY SOIL

250- SOIL $14378 - TAN-BROWN SILTY SOIL

300- SOIL $14377 - DARK BROWN SILTY SOIL

400 SOIL $14376 - TAN SOIL WITH ANGULAR CLASTS OF GRANODIORITE

Dimentions (m)
436 x 8 x 0.3

SOIL PROFILE

TRENCH STRIPPED TO 30 cm DEPTH
ABANDONDED UNTIL NEXT YEAR.

COMMENTS: AREA STRIPPED OF ORGANIC SOIL PROFILE AND VEGITATION.

{ samples not assayed

SAMPLE NUMBERS: SOILS: S14376 - S14380, S14966, S14967

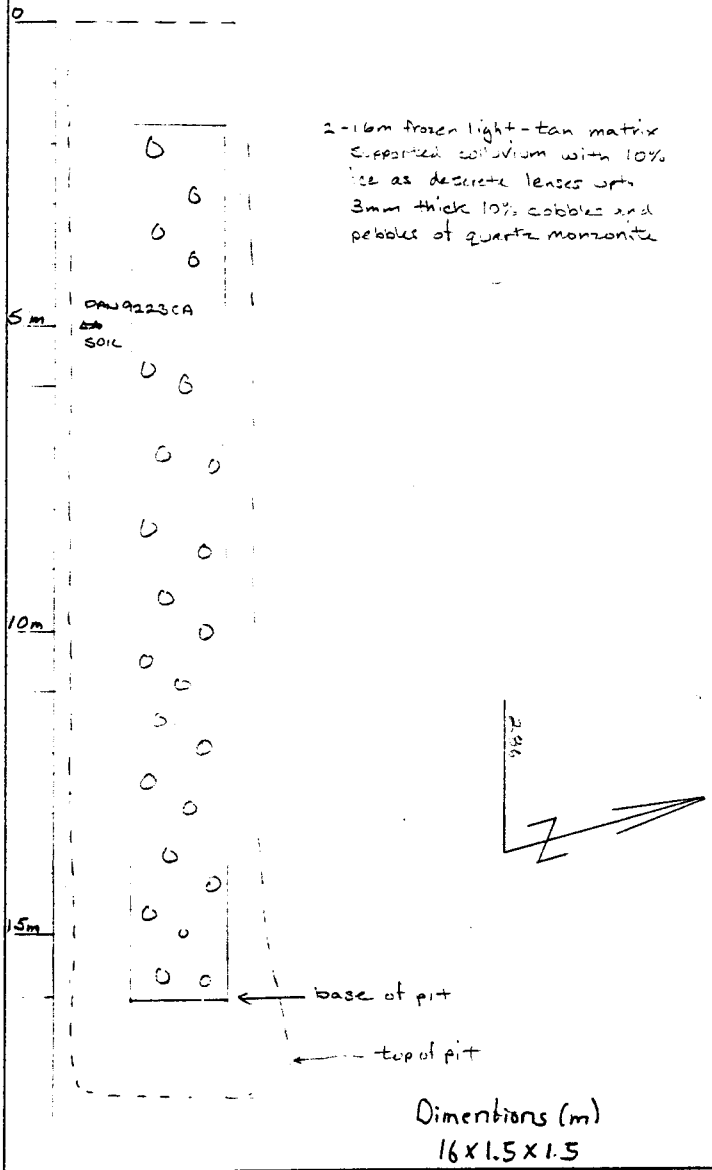
PANNING CONCENTRATE DESCRIPTION: NO APPROPRIATE MATTERIAL AVAILABLE.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9223
CREEK: CASINO
TYPE: BENCH

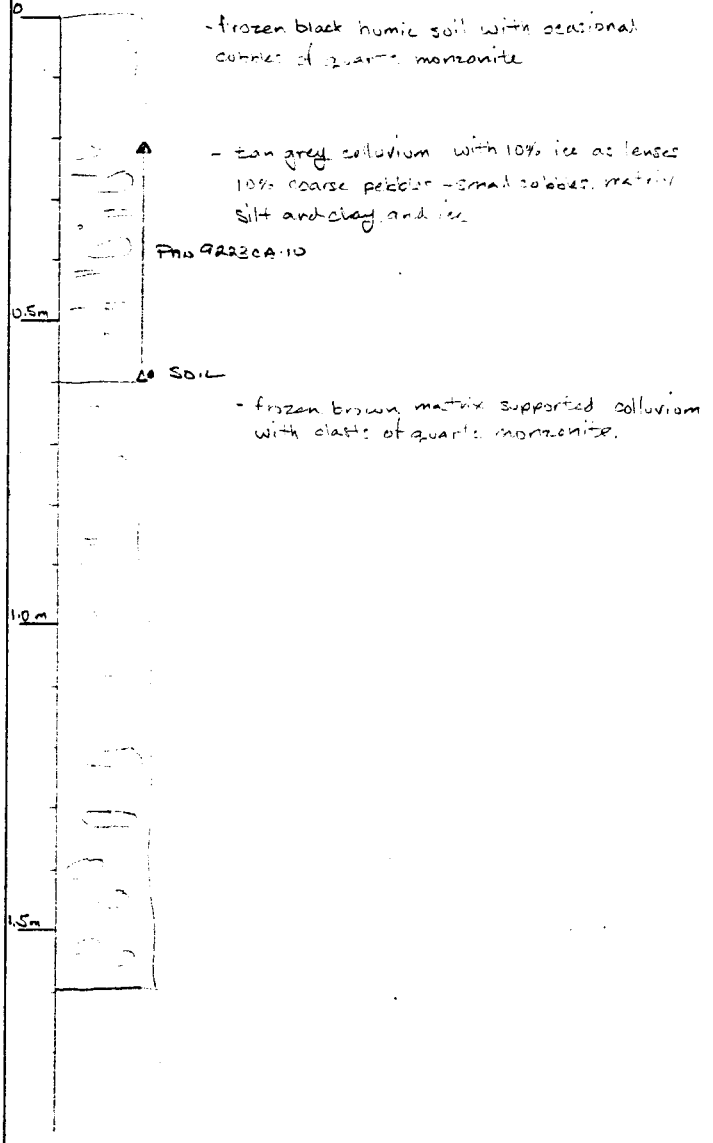
PIT NUMBER: 9223CA	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: 2
EASTING:	EQUIPMENT COST: @$130/hr = $ 260
STARTED: September 15, 1993	LABOUR COST: 1 hrs @$26.25/hr = $ 26.25
FINISHED: September 30, 1993	TOTAL EXPENDITURE: $ 286.25

PLAN VIEW



Dimentions (m)
16 x 1.5 x 1.5

SOIL PROFILE @ 5m



COMMENTS: Frozen trench. No fluvial or glacial material discovered. Bedrock not reached

Soil S14363 17, 10, 1, 70

SAMPLE NUMBERS: PAN 9223CA-5, SOIL S14363

PANNING CONCENTRATE DESCRIPTION: PAN 9223CA-5 was collected from frozen clay colluvium with quartz monzonite clasts. The concentrate consists of 90% fine quartz sand = 9% magnetite and lesser hornblende and biotite. No gold was observed.

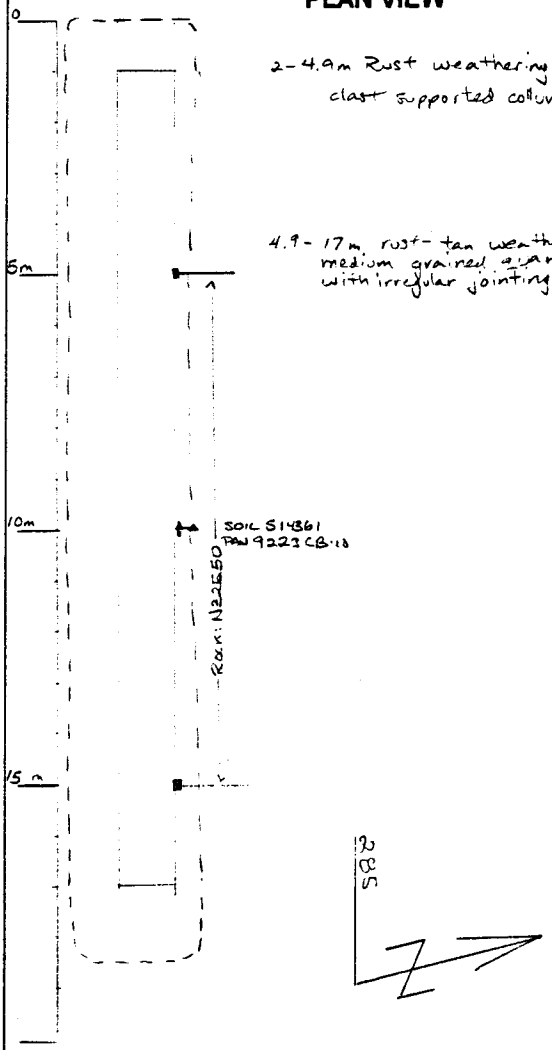
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	9223
CREEK:	CASINO
TYPE:	BENCH

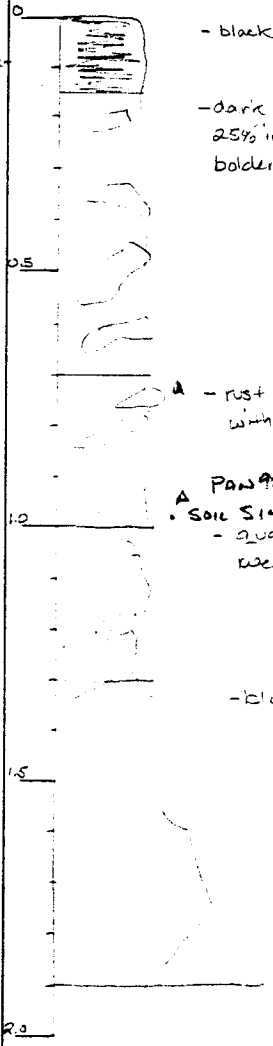
PIT NUMBER: 9223 CB	EQUIPMENT TYPE: Hitachi Hue
NORTHING:	EQUIPMENT HOURS: 1 HR
EASTING:	EQUIPMENT COST: @ 130/HR = $130
STARTED: September 15, 1993	LABOUR COST: 1.5 HRS @ $26.25 / HR = $39.38
FINISHED: September 30, 1993	TOTAL EXPENDITURE: $169.38

SCALE 1:150

PLAN VIEW



SOIL PROFILE @ 10m



- black mesic organic soil water saturated
- dark grey frozen matrix supported colluvium with 25% irregular pebbles to small cobbles boulders of quartz monzonite
- rust weathering matrix supported colluvium with a sandy matrix
- quartz monzonite blocks with rust weathering residual soil
- blocky quartz monzonite

Dimentions (m)
17 x 1.2 x 1.9

COMMENTS: No glacial or fluvial material

Soil S14361 14, 45, 1, 286 Rock N32550 7, 40.5, 1, 264 / 10 m

SAMPLE NUMBERS: Rock N32550 SOIL S14361 PAN 9223CB-10

PANNING CONCENTRATE DESCRIPTION: PAN: 9223CB-10 was collected at the base of colluvium overlying residual weathering quartz monzonite. The pan concentrate consists principly of fine quartz sand with less than 10% magnetite sand. No gold was observed

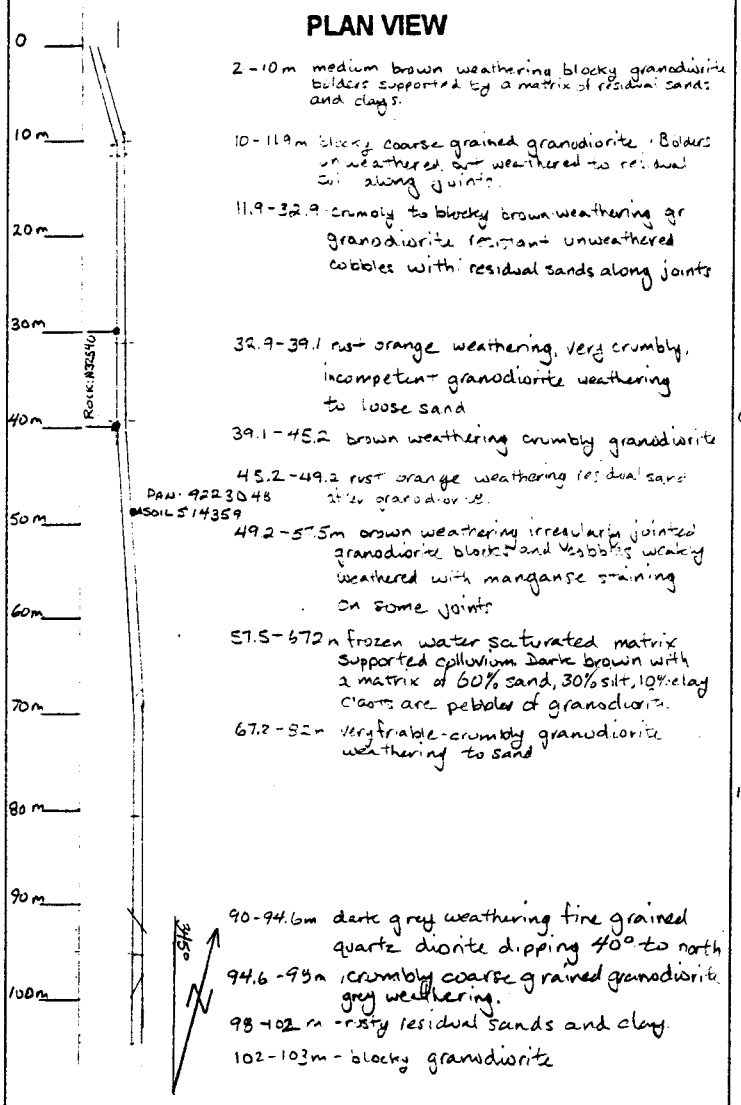
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9223
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9223D	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: 6
EASTING:	EQUIPMENT COST: @ $130/HR = $780
STARTED: September 15, 1993	LABOUR COST: 3 HRS @ $26.25/HR = $78.75
FINISHED: September 29, 1993	TOTAL EXPENDITURE: $858.75

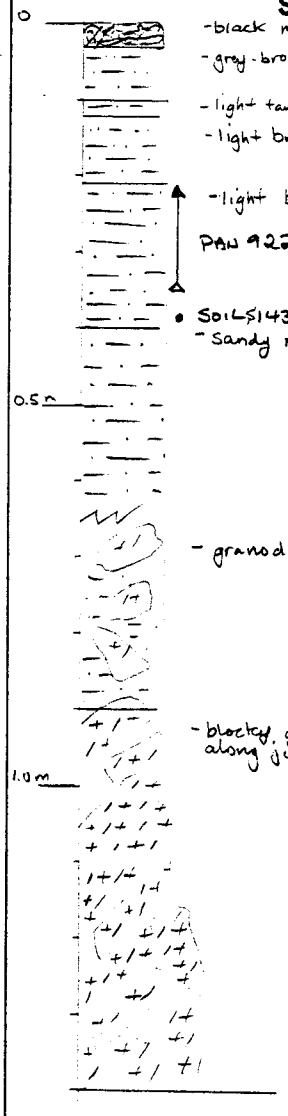
SCALE: 1:800

PLAN VIEW



Dimentions (m)
103 x 1.1 x 1.5

SOIL PROFILE @ 48m



COMMENTS: No glacial or fluvial material

Rock N32540 7, <5, 1, 12 / 10m

SAMPLE NUMBERS: SOIL: S14359, ROCK: N32540 PAN: 9223D-48

PANNING CONCENTRATE DESCRIPTION: PAN: 9223D-48 was collected from a silt rich oxidized soil overlying residual sands after granodiorite. PAN: 9223D-48 consists of ~40% black sand of which ~30% is magnetite 10% is hornblende, biotite, and hematite. The remaining white sand is quartz.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

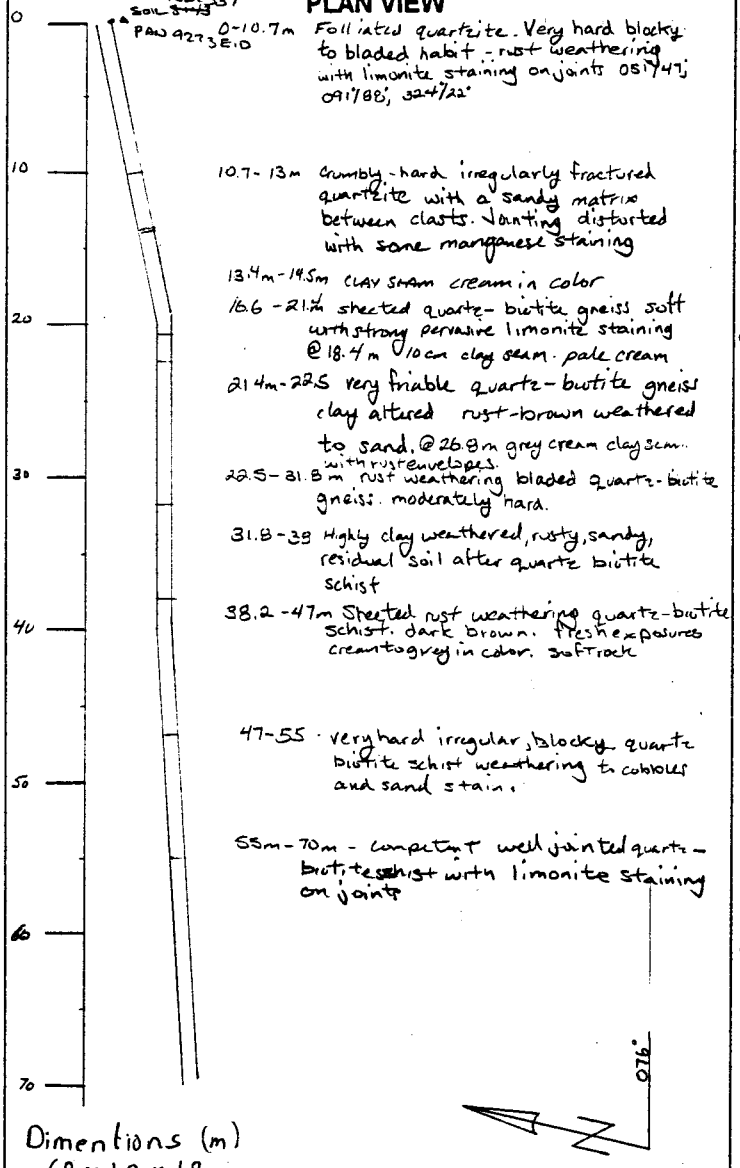
LEASE NO.: 9223
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9223E
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 25, 1993

EQUIPMENT TYPE: D6-Widetrack/AT ; Hitachi HOE
EQUIPMENT HOURS: D6: 2.5 ; Hoe: 3.5
EQUIPMENT COST: D6 @ $100/HR - $250 ; Hoe @ $130/HR - $455
LABOUR COST: 3 HRS @ 26.25/HR 78.75
TOTAL EXPENDITURE: $ 783.75

SCALE 1:500

PLAN VIEW



0-10.7m Foliated quartzite. Very hard blocky to bladed habit - rust weathering with limonite staining on joints 051/47°, 091/88°, 324/22°

10.7-13m Crumbly - hard irregularly fractured quartzite with a sandy matrix between clasts. Jointing disturbed with some manganese staining

13.4m-14.5m clay seam cream in color

16.6-21.4m sheeted quartz-biotite gneiss soft with strong pervasive limonite staining @ 18.4m 10cm clay seam - pale cream

21.4m-22.5 very friable quartz-biotite gneiss clay altered rust-brown weathered to sand. @ 26.8m grey cream clay 3cm. with rust envelopes.

22.5-31.8m rust weathering bladed quartz-biotite gneiss: moderately hard.

31.8-38 Highly clay weathered, rusty, sandy, residual soil after quartz biotite schist

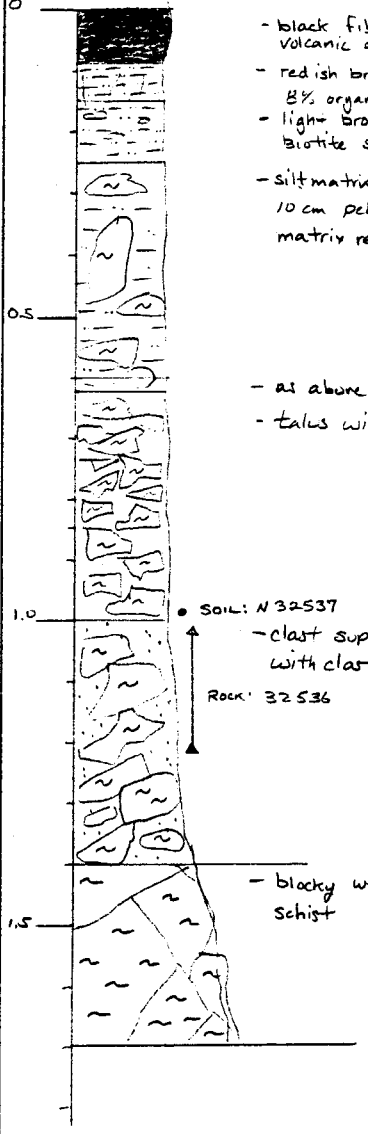
38.2-47m Sheeted rust weathering quartz-biotite schist. dark brown. fresh exposures cream to grey in color. soft rock

47-55 - very hard irregular, blocky quartz biotite schist weathering to cobbles and sand stain.

55m-70m - competent well jointed quartz-biotite schist with limonite staining on joints

Dimentions (m)
68 x 1.2 x 1.8

SOIL PROFILE @ 0m



- black fibric organic soil with grey volcanic ash, well drained
- reddish brown silty soil "Bz - no sand 8% organics
- light brown soil with pebbles of quartz-biotite schist
- silt matrix supported colluvium with up to 10 cm pebbles of quartz-biotite schist matrix reddish brown.
- as above but matrix tan
- talus with 1-15cm pebbles
- clast supported dark brown colluvium with clasts of quartz-biotite schist
- blocky well jointed quartz-biotite schist

COMMENTS: No glacial or fluvial material encountered.

Soil N32537 18,10,1,72 Rock N32536 34, <5, 3, 110 /10m

SAMPLE NUMBERS: Soil: N32537, Rock N32536

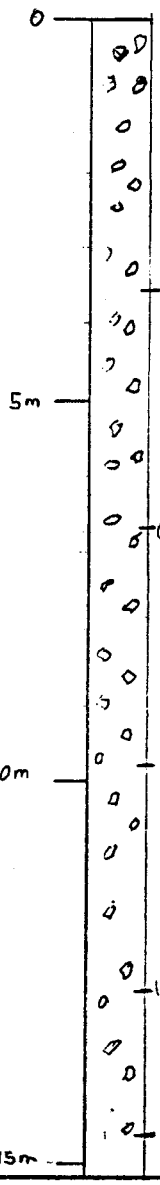
PANNING CONCENTRATE DESCRIPTION: Pan 9223.E0 was ~~not~~ collected from colluvium overlying quartz-biotite schist bedrock. The concentrate consist of fine sand = 80% quartz, 10% magnetite 5% hem biotite 5% other. No gold was observed

PLACER OVERBURDEN DRILLING LOG
CASINO PROPERTY

CLAIM NUMBER: Placer claim 43200
CREEK: CANADIAN CREEK

DRILLHOLE: 93-244	DRILL TYPE: LONGYEAR 38 - HW CORE
NORTHING: 255,399.63	FOOTAGE: 48'
EASTING: 110,299.41	DRILLING COST:
STARTED: Oct 30, 1993	LABOUR COST: 1 HR @ $26.25/HR = $26.25
FINISHED: Nov 4, 1993	TOTAL EXPENDITURE:

1:100



0.00 – 3.66 m CASING - No Recovery

3.66 – 6.71 m - Gravel sized pieces of mainly diorite with some quartz monzonite - all is oxidized giving purple → orange stain

SAMPLE 3.66 - 6.71 m T2072. Very few fines.

6.71 - 9.75 m - SAMPLE T2073 Again gravel sized. yellow to yellow-brown colour - Diorite mainly. some qtz monzonite. No fines.

9.75 – 12.80 m SAMPLE T2074 Gravel sized yellow → yellow-brown diorite and qtz monzonite. Very few fines

12.80 – 14.63 SAMPLE T2075 Gravel - brown → brown-yellow diorite Some fines consisting of broken up diorite pieces.

SAMPLE NUMBERS: T2072 → T2075

PAN CONCENTRATE DESCRIPTION: SAMPLE SENT FOR ASSAY.

T2072	267, 90, 70, 14 / 3.05m	T2074	291, 145, 45, 6 / 3.05m
T2073	175, 80, 52, 6 / 3.04m	T2075	725, 220, 50, 10 / 1.83 m

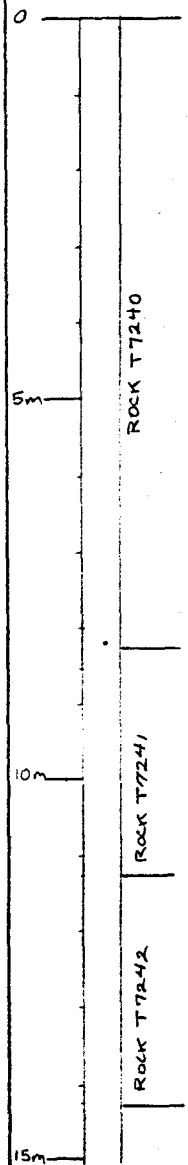
COMMENTS: composite 325 ppm Cu + 124 ppb Au over 10.97 m

PLACER OVERBURDEN DRILLING LOG
CASINO PROPERTY

CLAIM NUMBER: Placer Claim #43200
CREEK: CANADIAN CREEK

DRILLHOLE: 93-248	DRILL TYPE: LONGYEAR 38 HW CORE
NORTHING: 255,099.18	FOOTAGE:
EASTING: 110,100.37	DRILLING COST:
STARTED: November 6, 1993	LABOUR COST: 1HR @$26.25/HR = $26.25
FINISHED: November 11, 1993	TOTAL EXPENDITURE:

1:100



0 - 8.23m CLASTS OF PATTON PORPHYRY, QUARTZ MONZONITE + GRANODIORITE IN A FINE SILTY, SANDY MATRIX

8.23 - 11.28m CLASTS OF QUARTZ MONZONITE AND GRANODIORITE IN A FINE GRANGO TAN BROWN MATRIX

11.28 - 14.33m PEBBLES OF GRANODIORITE AND QUARTZ MONZONITE WITH LIMONITE STAINING. IN A RUSTY-BROWN LIMONITE STAINED SANDY MATRIX

SAMPLE NUMBERS: T7240 - T7242

PAN CONCENTRATE DESCRIPTION: SAMPLE SENT FOR ASSAY.

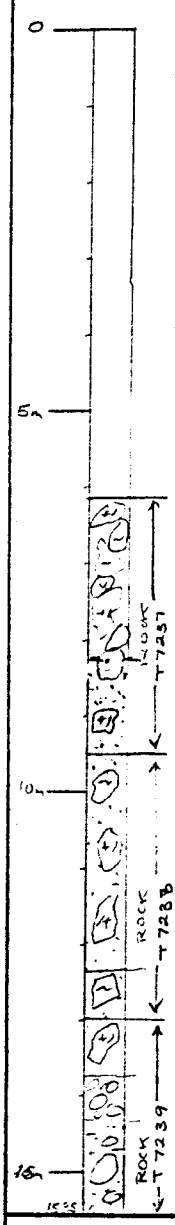
T7240	92, 60, 86.6 / 8.23 m	T7242	320, 160, 263.8 / 3.05m
T7241	129, 65 96.12 / 3.05m		

COMMENTS: composite 148 ppm Cu, 82 ppb Au over 14.33 m

PLACER OVERBURDEN DRILLING LOG
CASINO PROPERTY

CLAIM NUMBER: Placer Claim P 3756	
CREEK: CANADIAN CREEK.	
DRILLHOLE: 93-249	DRILL TYPE: LONGYEAR 38 DRILLING HW CORE
NORTHING: 255,000.43	FOOTAGE: 52'
EASTING: 110,001.95	DRILLING COST:
STARTED: NOVEMBER 04, 1993	LABOUR COST: 1 HOUR @ $26.25/hr
FINISHED: November 11, 1993	TOTAL EXPENDITURE:

1:100



0-6.10 m NO RECOVERY

6.10-8.23 m PEBBLES-COBBLES OF DAWSON RANGE GRANODIORITE, YUKON GROUP QUARTZ BIOTITE SCHIST, + FINE GRAINED QUARTZ MONZONITE NO FINES RECOVERED. UNCONSOLIDATED.

8.23-12.37 m 30% PEBBLES + COBBLES OF GRANODIORITE, IN A RUST-BROWN SANDY MATRIX UNCONSOLIDATED.

12.37-13.72 m 35% PEBBLES OF GRANODIORITE, QUARTZ MONZONITE, YUKON GROUP QZ-BIOTITE SCHIST WITH A RUST-ORANGE SANDY MATRIX LIMONITE STAINED. UNCONSOLIDATED.

13.72-14.28 m PEBBLES OF FINE GRAINED QUARTZ MONZONITE + GRANODIORITE WELL ROUNDED -NO FINES RECOVERED.

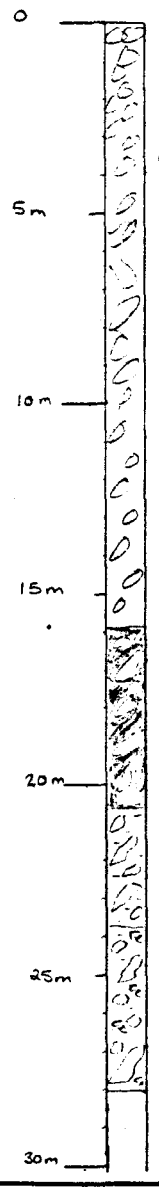
14.28-15.85 m RUST-ORANGE CLAY LIMONITE STAINED INCOMPETENT PEBBLES IN A POORLY SORTED SANDY-CLAYEY MATRIX.

SAMPLE NUMBERS:	T7237, T7238, T7239.
PAN CONCENTRATE DESCRIPTION:	SAMPLE SENT FOR ASSAY,
T7237	137, 35, 35, 2 / 3.40 m
T7238	117, 65, 104, 20 / 3.50 m
T7239	86, 130, 131, 18 / 2.85 m
COMMENTS:	composite 188 ppm Cu, 73 ppb Au over 9.75 m

PLACER OVERBURDEN DRILLING LOG
CASINO PROPERTY

CLAIM NUMBER: Placer Claim 43200
CREEK: CANADIAN CREEK.

DRILLHOLE: 93-167	DRILL TYPE: LONG Year 38 HW CORE
NORTHING: 255,402.15	FOOTAGE: 91'
EASTING: 110,096.60	DRILLING COST:
STARTED: June 20, 1993	LABOUR COST: 1 Hour @ 26.25/HR = $26.25
FINISHED: June 25, 1993	TOTAL EXPENDITURE:



0m-15.85m CLAST SUPPORTED FLUVIAL GRAVELS WITH A SANDY-SILTY MATRIX MOST OF THE MATRIX WAS NOT RECOVERED. FRAGMENTS INCLUDE ROUNDED PEBBLE TO COBBLE SIZE FRAGMENTS OF YUKON METAMORPHIC QUARTZ MUSCOVITE - BIOTITE SCHIST WITH LESSOR DAWSON RANGE QUARTZ MONZONITE AND GRANODIORITE. ORANGE - BROWN WEATHERING GOETHITE COATINGS ON CLASTS.

15.85-18.90m CLAST SUPPORTED FLUVIAL GRAVELS WITH DARK GREY + BLACK COATINGS (SULFIDE) ON CLASTS. SIMILAR COMPOSITION OF CLASTS TO ABOVE

18.90-20.70m CLAST SUPPORTED POORLY SORTED FLUVIAL GRAVELS WITH CLASTS COATED WITH GOETHITE.

23.7m-28.04 DARK RUST BROWN FERRICRETE, POORLY SORTED WITH GRANULE TO COBBLE SIZE CLASTS.

SAMPLE NUMBERS:
PAN CONCENTRATE DESCRIPTION: SAMPLE SENT FOR ASSAY
COMMENTS:

0100-63760
093190
APPENDIX IIA
c.1

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CASINO PROJECT

REPORT ON
PRELIMINARY SURFICIAL GEOTECHNICAL INVESTIGATIONS
(REF. NO. 1831/1)

VOLUME I OF II
REPORT

MARCH 1994

093190

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PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

REPORT ON
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PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

REPORT ON
PRELIMINARY SURFICIAL GEOTECHNICAL INVESTIGATIONS
(REF. NO. 1831/1)

VOLUME I OF II
REPORT

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REPORT ON
PRELIMINARY SURFICIAL GEOTECHNICAL INVESTIGATIONS
(REF. NO. 1831/1)

VOLUME I OF II
REPORT

EXECUTIVE SUMMARY

Preliminary surficial geotechnical investigations were carried out at the Casino Project by Knight Piesold Ltd. during the period June 4 to October 1, 1993. The investigations were carried out as part of the Placer Lease Assessment Program to provide a preliminary overview of the surficial materials and foundation conditions for the various potential minesite components, including the Open Pit, Plantsite, Heap Leach Pad, Waste Rock Storage and Tailings Impoundment sites. The results of these investigations will provide information for conceptual studies and selections of each of the components and requirements for further, more detailed, geotechnical and hydrogeological investigations.

The investigation program included the excavation of geotechnical trenches for visual description and characterization of surficial materials, and for the collection of representative samples for laboratory testwork. The laboratory testwork was carried out on-site by Knight Piesold Ltd. and included particle-size analyses, natural moisture contents, Atterberg limits, compaction tests and laboratory permeability tests.

1831/1,
March 18, 1994

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Results of the investigations generally indicate favourable surficial materials and foundation conditions for each of the potential minesite components. Surficial materials comprise alluvial cobbly sands and gravels, well-graded colluvium and in-situ heavily weathered residual gravelly sands. Bedrock lies at shallow depths of from 1 to 4 metres over most of the project area and comprises blocky, hard, fresh to moderately weathered granodiorite. These materials will provide excellent borrow for tailings embankment, leach pad or other minesite earthworks construction. The distribution of surficial materials and foundation conditions in the project area are characterized by four (4) distinct soil profiles which are identified by specific vegetation types, as follows:

(i) A thick blanket of residual sands overlies bedrock along well-drained, non-frozen south-facing slopes and ridges adjacent to Casino and tributary creek valleys. These areas are identified by groves of aspen and poplar and provide excellent foundation conditions and borrow sources of dense, strong compacted fill for embankment or leach pad construction.

(ii) Frozen, organic and ice-rich colluvium overlies residual soils in the deposit area along slopes north of Patton Hill and along the upper reaches of Casino and Canadian Creek valleys. These areas are identified by permafrost features, very thick moss cover, and alpine tundra-like shrub vegetation. Open pit development in these areas will likely require sediment control, shallow slope angles and staged development to control thawing ice-rich overburden.

(iii) Extensive permafrost exists along valley bottoms, north-facing slopes and in shaded draws, as indicated by the presence of sparse, stunted black spruce trees and very thick moss cover. Surficial materials along valley bottoms comprise a veneer of organic and ice-rich fine-grained alluvial silty sediments overlying thick deposits of stratified, coarse-grained alluvial sands and cobbly sands and gravels. Non-frozen areas adjacent to creeks comprise coarse-grained alluvial (fluvial) cobbly sands and gravels near

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surface. These materials will provide excellent sources of structural fill for embankment or leach pad construction. Permafrost areas along north-facing slopes and draws comprise ice-rich colluvium overlying residual sands and bedrock. The depth to bedrock in the valleys is not known and requires further investigation.

(iv) Surficial colluvium overlies residual sand and/or broken bedrock along east, west and south-facing slopes south of Patton Hill along Casino and tributary creek valleys. These areas are indicated by stands of tall spruce with mixed birch and aspen. These materials provide good foundation conditions for waste rock storage, plantsite facilities or heap leach pad construction. Much of the colluvium in these areas is suitable or may be mixed with underlying residual soils and broken rock to provide potential borrow sources of random fill for earthworks construction.

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SECTION 1.0 - INTRODUCTION AND SCOPE OF WORK

1.1 PROJECT DESCRIPTION

The Casino project is a venture by Pacific Sentinel Gold Corp. to develop a large open pit, gold-copper-molybdenum mine in the Yukon Territory. Overall preliminary geological reserves for the deposit are estimated to be greater than 600 million tonnes. The project will likely comprise an Open Pit, Plantsite, Heap Leach Facility, Waste Rock Storage, Tailings or Effluent Impoundment and other miscellaneous facilities to support mining operations. The project is situated in the Dawson Range of the Klondike Plateau approximately 300 km northwest of Whitehorse, Yukon Territory. The location of the project is shown on Figure 1.1.

This report contains results of preliminary surficial geotechnical investigations carried out in the summer of 1993 and includes preliminary implications for design of the various minesite components and recommendations for further work.

1.2 SCOPE OF WORK

A preliminary surficial geotechnical investigation program was carried out at the Casino project site by Knight Piésold Ltd. during the period June 4 to October 1, 1993. The work was carried out as part of the placer lease assessment program and included the excavation of test trenches and surficial mapping to evaluate the surficial materials and the foundation conditions at the potential development areas. The program also included the collection of representative soil samples for on-site laboratory testwork.

This report is intended to provide an overview of the surficial materials and foundation conditions over the entire project area. The results of these investigations will provide the basis for site selection and requirements for more detailed investigations. Details of the geotechnical investigation program are discussed in Section 2.0. Results of laboratory testwork are included in

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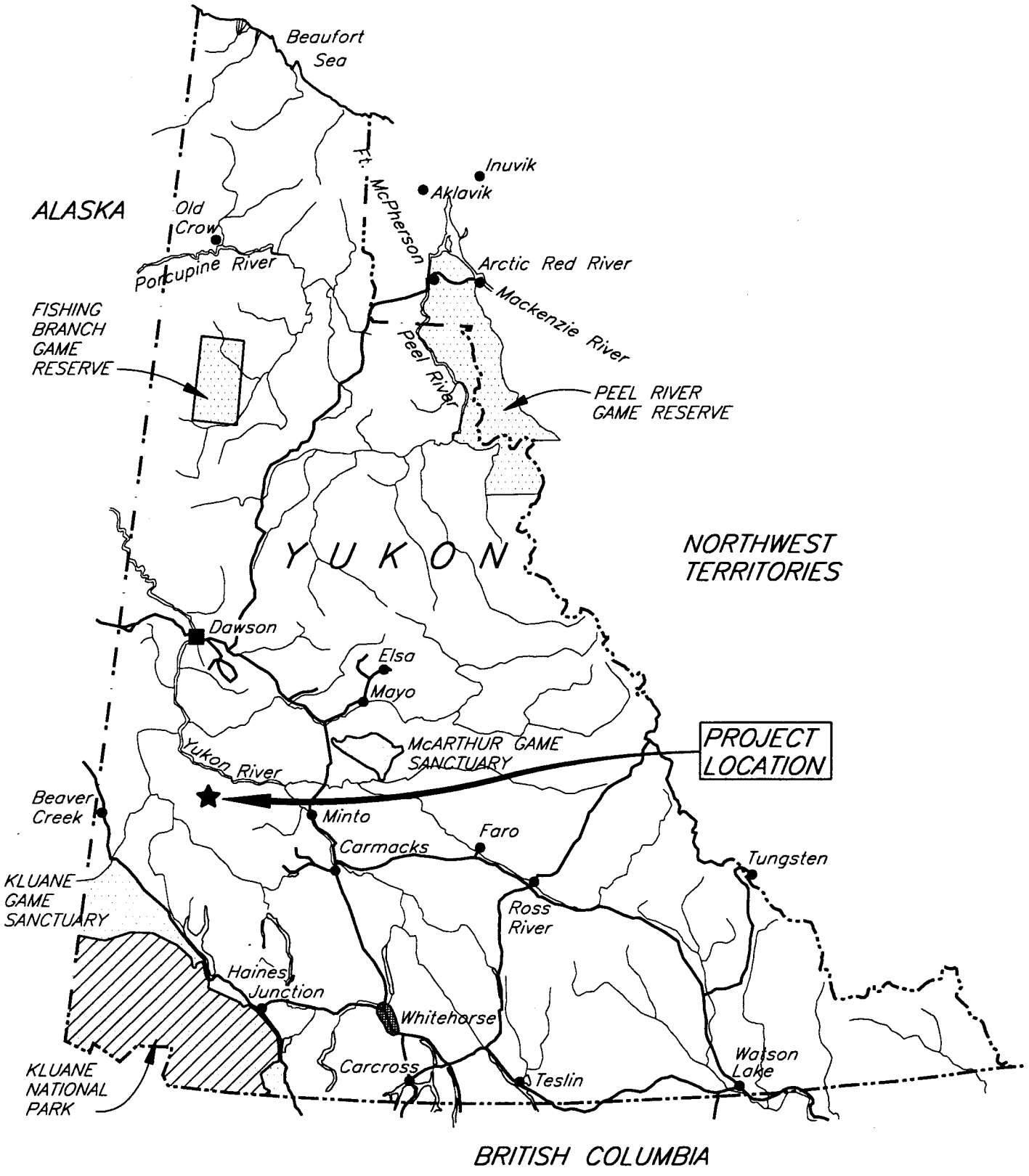
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
PROJECT LOCATION



CAD FILE: \PROJ\1831\FIG\A1 Plot scale 1=1

Feb. 16, 1994

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FIGURE 1.1

Section 3.0. Observations are included in Section 4.0. Preliminary geotechnical implications are discussed in Section 5.0, along with recommendations for further work. Conclusions are presented in Section 6.0.

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SECTION 2.0 - GEOTECHNICAL INVESTIGATION DETAILS

A geotechnical test trench program was carried out to investigate the surficial materials and foundation conditions at the various potential development areas for the Casino project. In addition, surficial mapping, air-photo interpretation and terrain analysis were performed to provide additional information. Specifics of the work included the following:

- Construction of roads and access trails with Cat D6 and D7 dozers.
- Stripping trench sites with Cat D6 and D7 dozers.
- Excavation of test trenches with a Hitachi UH09LC backhoe.
- Detailed geotechnical logging of test trench excavations.
- Representative sampling of the various overburden materials for visual description and laboratory testwork.
- On-site laboratory index, compaction and permeability testwork.

The locations of the geotechnical trenches are shown on Drawing No. 1831.101, along with the proposed locations for the various potential minesite components. A summary of material descriptions and conditions for each trench are summarized on Table 2.1. Detailed trench logs are included in Appendix A. The results and implications of the geotechnical investigations are presented in Sections 4.0 and 5.0, respectively.

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SECTION 3.0 - LABORATORY TESTWORK AND RESULTS

3.1 GENERAL

Laboratory index testwork was carried out on selected representative soil samples obtained from the test trenches to determine the physical characteristics of the surficial materials. Compaction and permeability tests were also carried out to evaluate the suitability of the materials for construction purposes. The laboratory testwork was carried out on-site by Knight Piésold Ltd. personnel and included the following:

- Particle-size analyses
- Natural moisture contents
- Atterberg limits
- Compaction (modified proctor) tests
- Laboratory Air Entry Permeameter (AEP) permeability tests

Results of the laboratory testwork are included in Tables 3.1 and 3.2. The characteristics for each material type are summarized in the following sections.

3.2 ALLUVIUM

- Particle-size analyses generally indicate that the alluvium is a poorly-graded gravelly sand with trace silt. Sand and gravel contents range considerably from 39 to 95 percent and 2 to 51 percent, respectively, due to the stratified nature of the material. Silt contents range from 1 to 20 percent.

- Natural moisture contents of the sandy alluvium range from 5 to 17 percent, with an average value of 10 percent. These values indicate a well-drained material with natural moisture contents less than the optimum moisture content, as determined from compaction tests.

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- Atterberg limits tests could not be carried out on the alluvium due to the coarse-grained nature of the material. However, by visual inspection, it is clear that the material is granular and non-plastic.

- One compaction test carried out on the alluvium indicated a moderately high, maximum dry density value of 1.925 g/cm^3 at an optimum moisture content of 11.5 percent. A low natural moisture content of 6.4 percent indicates that the material is dry of optimum and may require some moisture conditioning during construction.

- One permeability test performed on a sample of alluvial sand compacted at natural moisture content indicated a relatively high permeability value of 3 x 10^{-5} cm/s. The alluvial materials may be suitable for filter zone or structural fill in embankment construction.

3.3 COLLUVIUM

- Particle-size analyses indicate that the colluvium is very well graded and comprises silty sand and gravel with some coarse gravel to small cobble-size rock fragments and trace clay. Sand and gravel contents range considerably from 23 to 55 percent and 14 to 55 percent, respectively. Fines (silt and clay) contents range from 12 to 46 percent. The wide range in values results from local compositional variations associated with varying degrees of down-slope transport and deposition of surficial materials. Average percentages of sand, gravel and fines contents are 42, 34 and 24 percent, respectively.

- Natural moisture contents range from 9 to 20 percent with a mean value of 14 percent for non-frozen samples, indicating a moist to very moist material. Samples collected along well-drained slopes or containing high fractions of sand and gravel generally have lower moisture contents than those along the base of slopes, near permafrost, or with high fines contents.

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Natural moisture contents are typically 3 to 5 percent greater than optimum values. Tests on frozen ice-rich samples of silty colluvial matrix indicate total moisture contents ranging from 24 to 84 percent. This material is typically medium to highly saturated and becomes unstable when thawed.

- Atterberg limits tests indicate a low plasticity material with plasticity indices ranging from 4 to 10 percent with an average value of 6 percent. The fines fraction of the colluvium may be classified as a ML-CL (low plasticity silt-clay) material. Natural moisture contents are lower than the plastic limits.

- No compaction tests were carried out on the colluvium due to high fractions of coarse material. High in-situ moisture contents and field observations suggest that much of this material may be too wet to be utilized as embankment fill. Dry zones along well-drained and non-frozen slopes, however, may be utilized or mixed with residual soils to provide random fill for embankment construction.

- Three (3) permeability tests were conducted on compacted samples of fine-grained (-¾ inch) silty, sandy colluvial matrix. Results indicate that the material is very impervious with an average permeability value of 5×10^{-9} cm/sec. This value is suitable for the construction of a low permeability core zone within the tailings embankment or leach pad foundation. However, it would likely have to be blended with residual soils to satisfy moisture-density requirements and may require the removal of oversize clasts. Coarser grained colluvium would also be suitable for use as random fill in embankment construction.

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3.4 RESIDUAL SOILS

- The residual soil materials generally comprise highly weathered, fine gravelly sands with some silt. Particle-size analyses indicate a wide range of values for the various silt, sand and gravel fractions due to varying degrees of in-situ weathering with depth and host rock alteration. Sand and gravel contents range from 12 to 90 percent and 0 to 86 percent, respectively. Fines (silt) contents range from 2 to 40 percent. Mean values for each of the silt, sand and gravel fractions are 12, 62 and 26 percent, respectively. These values are considered to be typical of most of the residual soil materials.

- The residual soil is typically heavily weathered and oxidized. This results in very weak, angular particles. Consequently, handling and compaction of this material will have a significant effect on the particle-size distribution. Particle-size analyses on samples after compaction reveal an increase in fines content of approximately 5 to 15 percent. This is advantageous in achieving higher density, stronger, less pervious compacted fill during embankment construction.

- Natural moisture contents range from 5 to 35 percent, with an average value of 10 percent. Typical values generally range from 8 to 12 percent. Higher values represent heavily altered and weathered clay gouge-like materials found primarily in the deposit area. Tests on frozen samples of residual gravelly sand in the deposit area indicate total moisture contents of approximately 25 percent. This material is generally stable and free draining when thawed.

- Atterberg limits tests reveal a very low to medium plasticity material. Plasticity indices range from 0 to 23 percent with an average value of 12 percent. Lower values are typical of slightly plastic silty fine sands (ML classification) found in the Casino valley. Higher values represent

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medium plasticity, heavily weathered silty and sandy clays (CL classification) found in the deposit area. The plastic limits of the residual soils are much greater than the natural moisture contents.

- Compaction tests reveal very consistent moderate to high maximum densities which will provide for dense, strong compacted fill. Maximum dry density values range from 1.96 to 2.17 g/cm^3 (19.2 to 21.2 kN/m^3) with a mean value of 2.10 g/cm^3 (20.6 kN/m^3). Optimum moisture contents range from 7 to 12 percent with an average value of 9 percent. Natural moisture contents are generally at or slightly less than optimum which is favourable for construction. Excellent compaction is achieved at moisture contents between -3 and +2 percent of the optimum moisture content.

- Laboratory AEP permeability tests were carried out on various compacted samples of residual soil. Tests were performed at various levels of compactive effort and at different moisture contents. Samples tested at natural moisture content and 100 percent compactive effort (approximate maximum dry density) reveal consistent, very low permeability values ranging from 1 x 10^{-9} to 7 x 10^{-7} cm/s, with a geometric mean value of 2 x 10^{-8} cm/s. The variability is a result of the varying degrees of weathering or oxidation resulting in the break-up of particles during laboratory compaction.

  Permeability tests carried out at different moisture contents indicate no significant change in permeability. Very dry samples, however, do exhibit an increase in permeability by approximately one order of magnitude, as shown for sample 9052-B1 on Table 3.2.

  Permeability tests carried out on samples at different compactive efforts indicate an increase in permeability as the degree of compaction or density decreases. Permeability values range from 1 x 10^{-8} to 3 x 10^{-6} cm/s, with

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a geometric mean value of 4 x 10^{-7} cm/s, and are approximately one order of magnitude greater than results for 100 percent compactive effort.

These results indicate that the residual soils would be suitable for the construction of a low permeability core zone within the tailings embankment, heap leach pad or other compacted earthfill structures provided some break-up of the residual particles is achieved during field compaction. The residual soil may also be combined with colluvium and/or broken rock to provide random fill for embankment construction.

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SECTION 4.0 - OBSERVATIONS

4.1 GENERAL

The results and observations of the geotechnical test trenches, laboratory testwork and surficial mapping were used to provide information on the distribution and types of surficial materials, foundation conditions and potential borrow sources. The results were also correlated with air-photo interpretation and vegetation to help delineate surficial materials and foundation conditions over the entire project area. This information will be used to provide preliminary siting and layouts of the various minesite components and requirements for more detailed geotechnical investigations. The following are discussions of results and observations. The distribution of surficial materials, vegetation types and potential borrow areas are shown on Drawing No. 1831.102. Typical geotechnical soil profiles are shown on Figure 4.1.

4.2 VEGETATION

A preliminary vegetation study was carried out during the test trench program to help correlate surficial materials and foundation conditions. The results correlate very well and indicate four distinct vegetation types corresponding to specific surficial materials and foundation conditions. The distribution of surficial materials and vegetation types are shown on Drawing No. 1831.102 and on Figure 4.1. The results are discussed below for each vegetation type:

(i) Aspen and Poplar

Groves of deciduous aspen and poplar dominate well-drained, south and southeast-facing slopes along Casino Creek valley. Surficial materials in these areas typically comprise well-drained, heavily weathered residual sandy soils overlying broken bedrock, as shown on Soil Profile No. 1 of Figure 4.1. Some areas may comprise a thin veneer of surficial colluvium

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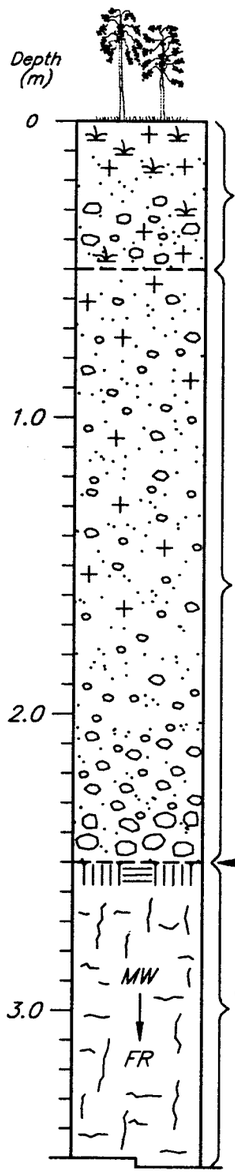
1831.B7

1 RESIDUAL SOIL/BEDROCK



VEGETATION: (NTS)
- Deciduous aspen/poplar stands with thin moss and forest litter cover.

TOPSOIL/COLLUVIUM:
- Moist silty topsoil over well graded sandy, gravelly colluvium with silt and organics. (well drained, dry)

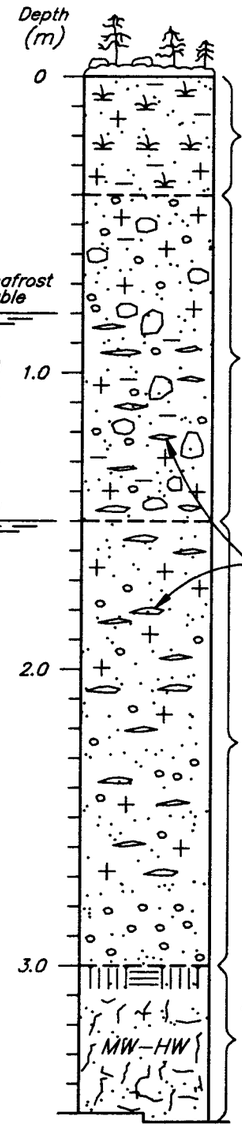
RESIDUAL SANDS:
- Heavily weathered, weak, angular residual sand and fine gravel with trace to some silt. Material is well drained and dry to slightly moist.

← Contact varies from 1.5 to 3.5 m.

BEDROCK:
- Hard, mod. weathered to fresh, blocky, broken, coarse grained granodiorite.

Notes:
- Typical of non-frozen, well drained, south and east-facing slopes and along ridges at higher elevations along Casino Valley.
- Potential borrow source materials.

2 PERMAFROST-COLLUVIUM/RESIDUAL SOIL/BEDROCK



VEGETATION: (NTS)
- Scrub birch willow with very thick moss and grass cover. (no trees)

TOPSOIL:
- Very moist organic-rich, silty clayey top-soil with peat layers.

COLLUVIUM (PARTIALLY FROZEN):
- Moist, well graded colluvium comprising gravel and cobble clasts supported in matrix of silty sand with fine gravel and clay.
- Ice lensing common in permafrost areas.

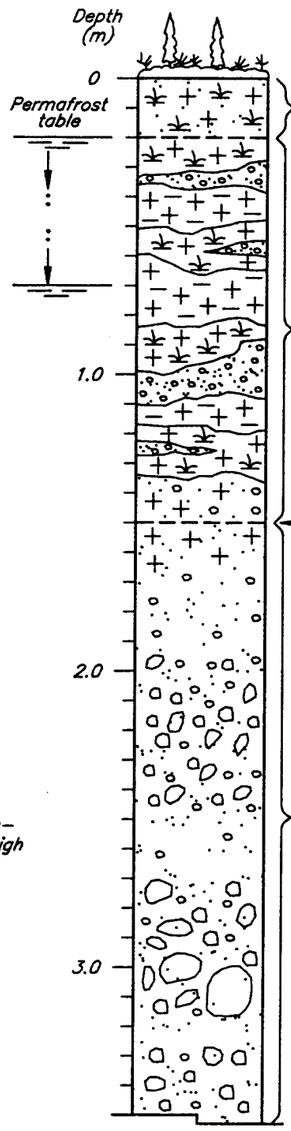
← Ice lenses (typ.)

RESIDUAL SANDS (FROZEN):
- Moist, heavily to extremely weathered residual silts and sands with some gravel. (occasional wet silty clay gouge zone)
- Thin ice lenses and ice crystals common in permafrost areas. (medium to high saturation)

BEDROCK:
- Moderate to heavily weathered, weak, blocky granodiorite/porphyry/breccia. Some v. weak, friable alteration/shear/fault zones.

Notes:
- Typical of tree-less, permafrost regions in the deposit area and along north-facing slopes in Casino Valley.
- Materials too wet for use as construction material.

3 PERMAFROST-ORGANIC (PEAT) TOPSOIL/ALLUVIUM



VEGETATION: (NTS)
- Sparse, stunted black spruce, sphagnum moss, sedge grass. Hummocky tussock fields.

ORGANIC TOPSOIL:
- Organics, mosses, grasses and roots.

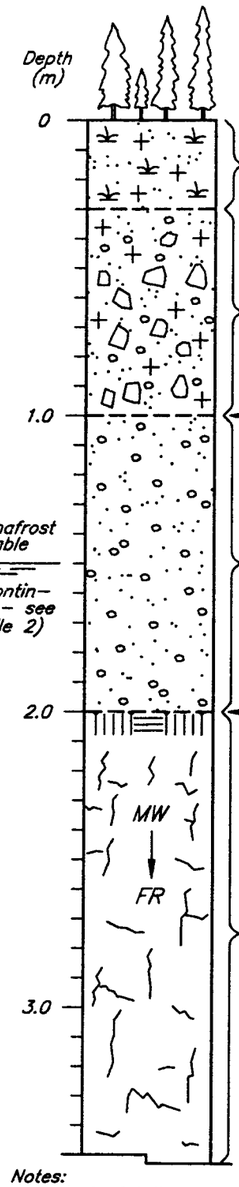
INTERBEDDED ORGANICS AND ALLUVIUM (FROZEN):
- Interbedded clayey silts, peats and sandy gravels.
- Ice-rich, hard, saturated.
- Very soft and wet when thawed.

← Contact varies from 1.5 to 2.5 m.

ALLUVIAL SANDS AND GRAVELS:
- Interbedded alluvial (fluvial) sands and sandy gravels with some cobbles. (alluvial materials near surface in non-frozen areas adjacent to creeks)

Notes:
- Typical of stunted black spruce, thick moss and hummocky terrain (permafrost) found along valley bottoms and the base of slopes.

4 COLLUVIUM/RESIDUAL SOIL/BEDROCK



VEGETATION: (NTS)
- Tall spruce on slopes; stunted black spruce at base of slopes. (permafrost)

ORGANIC TOPSOIL:
- Organics, silty soil with roots. (thick moss and peat in permafrost)

WELL GRADED COLLUVIUM:
- Silty sand and gravel with clay and rock fragments.

← Contact varies from 0.5 to 1.5 m.

RESIDUAL SAND AND GRAVEL:
- Heavily weathered, weak, angular residual sand and fine gravel with some silt.

← Contact varies from 1.0 to 3.0 m.

BEDROCK:
- Fresh to mod. weathered, broken, blocky granodiorite.

Notes:
- Typical of tall spruce stands found along east and west-facing slopes along Casino Valley.
- Permafrost is discontinuous and occurs primarily along north-facing slopes.
- Potential borrow source materials.

General Notes:
1. All depth intervals are average and approximate only.
2. Material descriptions may vary depending on location. (See Drg. No. 1831.101 and Table 2.1 for details)

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PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
TYPICAL GEOTECHNICAL SOIL PROFILES

FIGURE 4.1

CAD FILE: \PROJECT\1831\PG\B7 Plot scale 1=1 STD.1

overlying residual soil. Topsoil is very thin and comprises an organic mat of forest litter, grasses, roots and very thin moss. The residual (and colluvial) materials in these areas will provide excellent borrow sources for embankment construction.

(ii) Alpine Tundra

At higher elevations, along north-facing slopes near Patton Hill and gentle slopes along the upper reaches of Canadian and Casino Creeks, vegetation is comprised primarily of treeless, alpine tundra-like shrubs, assorted willows and thick mosses. Much of this area is underlain by permafrost as indicated by active processes of solifluction (annual creep of saturated soils), cryoturbation, polygonal ground and down-slope striping. Soil profiles in these areas typically comprise a thin veneer of poorly developed organic and ice-rich colluvium overlying in-situ, heavily weathered residual soils or bedrock, as shown on Soil Profile No. 2 of Figure 4.1. Broken, blocky bedrock underlies a thin cover of moss and lichen at higher elevations along Patton Hill, with coarse blocky talus lying at the base of steep slopes.

(iii) Valley Bottom Peat Bogs

Lowland areas along Casino, Meloy, Brynelsen and Austin Creek valleys and along north-facing slopes adjacent to Casino valley, comprise acidic, nutrient-poor, peat bogs supporting black spruce, sphagnum moss and scrub birch willow vegetation. These areas are typically poorly drained with abundant string bogs, very thick moss and hummocky sedge grass tussock fields. Sparse, stunted black spruce trees up to 2.5 metres tall are common. The thick sphagnum moss and organic-rich peat vegetation provides an excellent insulating layer for permafrost which is typically found at shallow depths. Trench excavations reveal extensive permafrost and ice-rich, fine-grained peaty sediments immediately underlying the moss cover, as shown on Soil Profile No. 3 of Figure 4.1.

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(iv) White Spruce and Birch

Thick stands of tall white spruce and birch with some aspen are characteristic of east and west-facing slopes along Casino Creek valley. Soil profiles in these areas typically comprise well graded colluvium with a fine-grained, moist silty matrix, overlying residual sandy soils in part and/or broken bedrock, as shown on Soil Profile No. 4 of Figure 4.1. Permafrost is discontinuous in these areas and is mainly restricted to north-aspect slopes and shaded draws.

4.3 PERMAFROST

Permafrost, or perennially frozen ground, is discontinuous along Casino valley and is restricted primarily to valley peat lands, north-facing slopes and local shaded areas. Permafrost is extensive over the Casino deposit area. The distribution of permafrost is shown on Drawing No. 1831.102. Significant results are summarized below:

- Permafrost in Casino Creek and tributary valleys primarily occurs along valley bottoms and in shaded draws. These areas are characterized by the deposition of fine-grained, low permeability fluvial sediments, including stratified silts, clays and fine sands which has resulted in the development of saturated and frozen ice-rich soils. Flood plain deposits along Casino Creek valley comprise organic silts and silty fine sands and commonly overlie coarser-grained alluvial sands and gravels at depth.

- Colluvial and alluvial fans along the base of slopes and tributary valleys are also frozen and comprise fine-grained, ice-rich sediments as indicated by sparse stunted black spruce.

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- Permafrost is also common along north-facing slopes adjacent to Casino Creek valley. These areas are marked by well developed solifluction ridges and the absence of trees, indicating permafrost at shallow depths.

- Depths to the permafrost table along the Casino Creek valley range from approximately 0.2 to greater than 3 metres. Along the valley bottom the thick layer of moss and peat provides an insulative layer for permafrost resulting in very thin active layers (depth of thaw) and shallow depths to permafrost of approximately 0.3 to 0.5 metres. The permafrost acts as an impervious barrier to groundwater flow resulting in abundant surface water and peat bogs supporting limited vegetation and tree growth.

- Permafrost is prevalent in the Casino deposit area. Along shallow slopes permafrost is common, resulting in the development of abundant fine-grained organic, colluvial and residual soils and ice wedges in broken rock. Frequent buried layers of frozen, ice-rich peats and colluvium are also common. The ice-rich soils exhibit very low strengths and flow when thawed in open excavations.

- The permafrost table lies at shallow depths along valley slopes north of Patton Hill and at lower elevations along the upper reaches of Casino and Canadian Creek valleys, including Heap Leach Site No. 2. Thermal testing in existing drill holes in the deposit area, carried out by the Geological Survey of Canada, indicate significant variation in depths to permafrost of from 3 to 72 metres. The thickness of permafrost in the deposit area is not known but is also expected to vary considerably.

- Ground ice is not expected to be significant in bedrock due to the well-drained nature of the steep slopes and the low in-situ fracture spacing in the bedrock at depth.

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- Permafrost is absent along south-facing slopes and along ridges at higher elevations along Casino Creek valley, including the potential Waste Rock Storage and Plantsite areas. These areas are characterized by well-drained colluvial and/or residual sandy soils supporting stands of tall spruce and poplar, respectively.

- Permafrost is also absent along some areas of the Casino valley as evident by the presence of tall grasses and willows, and the absence of thick mosses. These areas are discontinuous and likely result from the historic shifting of the creek channel which acts to maintain a thawed region under the creek.

Permafrost is an important factor when considering the location, design, construction and performance of all minesite components. The presence of ground ice in the deposit area may affect stability, groundwater flow and mining operations. The variability of permafrost and types and amounts of ground ice will require further, more detailed subsurface investigations. These investigations will include ground temperature profiling and will be carried out in the deposit area and at selected locations for each of the minesite components.

4.4 ALLUVIUM

Alluvial materials in the Casino project area are found in creeks and along flat valley bottoms. The alluvium is generally coarse grained and comprises interbedded sands and gravelly sands with cobbles and small boulders. The distribution of alluvial materials is shown on Drawing No. 1831.102. Significant results are summarized below:

- Coarse-grained alluvium comprising cobbly sands and gravels with some small boulders lies near surface along Casino Creek valley. The alluvium is typically overlain by frozen organic-rich soils which comprise

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approximately 90 percent of the valley. Near Casino Creek itself the alluvium lies at surface and is not frozen.

- Stratified, fine-grained, alluvial sands and clayey silts typically lie near surface along tributary valleys to Casino Creek, including Meloy, Brynelsen and Austin Creek valleys. These valleys are also characterized by extensive permafrost resulting in highly saturated, ice-rich sediments.

- Significant deposits of alluvial sandy gravels with cobbles also occur along the upper reaches of Canadian Creek northwest of the deposit area. Historic placer workings in the area report overburden depths of up to 13 metres. These conditions may not be suitable for heap leach pad construction.

4.5 COLLUVIUM

Surficial colluvium in the Casino project area is typically found along steep slopes near Patton Hill and along north and west-facing slopes within Casino Creek valley. Colluvium is very thin or absent along south-facing slopes and along ridge lines where residual, weathered soils predominate. The distribution of colluvium over the project area is shown on Drawing No. 1831.102. Significant results are summarized below:

- Colluvial materials found along slopes in the Casino valley comprise a fine to medium-grained sand with some silt and trace clay supporting coarse gravel to cobble-size clasts of broken rock fragments.

- The colluvium varies in thickness from approximately 0.5 to 2.0 metres and generally increases down-slope.

- In poorly drained areas such as at the base of slopes, in shaded draws, and in permafrost areas, the colluvium is moist to very moist and is not considered suitable for use as embankment fill or in leach pad construction.

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Well-drained and coarse-grained material at higher elevations, however, may be suitable as random fill or mixed with underlying residual soils for use in embankment construction.

- Colluvium in the deposit area comprises coarse blocky talus (scree) along the base of steep slopes. The talus generally increases in thickness down-slope resulting in the formation of talus fans. These areas may provide sources of rockfill for embankment construction. Along upper reaches of Canadian and Casino Creek valleys, blocky talus overlies frozen, ice-rich and organic-rich colluvium.

4.6 RESIDUAL SOILS

Residual soils in the Casino project area typically comprise heavily weathered, iron oxidized, and decomposed sand with some fine gravel and silt. The material is derived from heavy in-situ weathering of host granodiorite bedrock resulting in very weak, angular particles. The distribution of the residual soils is shown on Drawing No. 1831.102. Significant results are summarized below:

- Residual soils along slopes in Casino valley are typically well drained and non-frozen with moderately low moisture contents. The residual soils coarsen with depth to broken rock as weathering processes decrease.

- Along south and east-facing slopes and along ridges at higher elevations the residual material lies at surface and provides the best potential sources of borrow for embankment fill. A veneer of fine-grained residual silty sands is typically found near surface and provides an excellent source of relatively impervious compacted fill for use in embankment core zones, heap leach pad foundations, effluent/seepage collection ponds, and other minesite structures.

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- Some residual soils in the deposit area comprise heavily to extremely weathered and altered sandy silts and sticky, gouge-like, plastic clayey silts. These zones are apparently related to alteration and preferential weathering along weak steeply dipping shear and fault zone structures.

- Frozen residual soils in the deposit area are characteristically hard and partially saturated with only approximately 5 to 10 percent excess ice content. The ice is present as fine interstitial ice crystals and very thin (1-2 mm) discontinuous ice lenses.

4.7 BEDROCK

Bedrock in the Casino valley area comprises fresh to slightly weathered, blocky, hard, competent coarse-grained, intrusive rock. The bedrock forms part of the Dawson Range Klotassin Batholith and is comprised primarily of coarse-grained granodiorite with minor quartz diorite. A few trenches on either side of Casino Creek intersected hard, fresh, fine-grained quartz-rich gneiss and quartzite rocks of the Yukon Metamorphic Complex. The Yukon Group represents an older suite of metamorphic rocks which were intruded by the Dawson Range intrusives. The bedrock surface is variable and is related to the depth of weathering of the overlying residual soils and/or varying thicknesses of surficial colluvium. Depths to bedrock (refusal) vary from approximately 1 to 4 metres along slopes and ridges in Casino valley. Bedrock was not intersected in the valley up to depths of approximately 3.5 metres.

Bedrock in the deposit area comprises broken, fine blocky granodiorite, quartz monzonite, Patton porphyry (dacite), and latite breccias. The bedrock is overlain in part by talus (scree) and organic-rich colluvium. Depth to bedrock varies considerably due to local variations in preferential weathering along shear, alteration and fault zones. Depths generally increase down-slope from approximately 0 to 10 m at higher elevations, to greater than 30 metres at lower

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elevations and along alteration zones. Average overburden depths are reported to be approximately 8 metres.

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SECTION 5.0 - GEOTECHNICAL IMPLICATIONS

5.1 GENERAL

The results of the investigations and laboratory testwork were used to assess the geotechnical implications for the various potential minesite components. The geotechnical implications are discussed for each of the components with respect to foundation conditions, seepage control and borrow materials for embankment, heap leach pad or effluent/seepage collection pond construction. Preliminary geotechnical aspects affecting design and layout are discussed in the following sections for each component along with recommendations and requirements for further work. A discussion of potential concrete aggregate sources is also included.

5.2 TAILINGS OR SOLUTION CATCHMENT FACILITIES

A total of four (4) preliminary alternative sites for tailings/solution storage were reviewed within Casino Creek valley, as shown on Drawing No. 1831.101. The valley type topography present at all sites is advantageous for tailings storage as it allows natural control and confinement of seepage within one valley. This results in monitoring and collection of all seepage at a "single-point" downstream of an embankment. A comparative assessment of each site will be carried out upon determination of ore reserves and tailings or effluent storage requirements. Preliminary indications suggest a large deposit requiring significant storage. This leads to Tailings Site No. 4 as the preferred alternative and provides the focus for these geotechnical investigations.

Significant geotechnical implications, including foundation conditions and potential borrow source areas, are summarized below:

- Appreciable quantities of residual soil materials are available along slopes and ridges adjacent to Casino Creek valley for tailings embankment construction. Finer-grained residual silty sands found along ridges at higher

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elevations provide excellent sources of dense, relatively impervious compacted fill material for core zone or leach pad construction. Coarser material and broken bedrock at depth could be easily bladed and/or ripped with heavy equipment to provide additional material for zoned embankment construction.

- Significant borrow sources of alluvial sands, gravels and cobbles are available along valley bottoms. These materials are competent, granular and free draining and would provide excellent structural fill for embankment construction. The presence of shallow permafrost in finer-grained and organic-rich sediments away from creek channels would require extensive stripping, melting and stockpiling to allow access and drainage of underlying coarse-grained alluvial materials.

- Surficial deposits of well-graded colluvium, residual sands and broken rock provide additional borrow sources of random fill for embankment construction. These materials are found primarily along well-drained slopes east of Casino Creek valley.

- Foundation conditions along abutment slopes in Casino Creek valley are characterized by a thin veneer of colluvium and/or residual soil overlying bedrock at shallow depths. Blocky granodiorite bedrock was intersected at shallow depths along abutment slopes at Tailings Site Nos. 1, 3 and 4. Trenches excavated on the east slope at Tailings Site No. 2 terminated in frozen colluvium and residual soils. Foundation preparation along abutment slopes would likely involve excavation or blasting (in permafrost areas) to bedrock and backfilling with impervious compacted fill wherever required to minimize foundation seepage losses.

- Foundation conditions in Casino Creek valley are characterized by frozen organic and ice-rich sediments and peats overlying thick stratified deposits of relatively pervious coarse-grained alluvial sands, gravels and cobbles.

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Trenches excavated in non-frozen areas encountered alluvial materials to depths greater than 3.5 metres. Various design alternatives for foundation preparation include the excavation of alluvial materials to bedrock and replacement with compacted fill or constructing a seepage cutoff wall. The construction of a semi-pervious foundation with downstream seepage collection would be an alternative if depths to bedrock are considerable and if thawed foundation strengths of overburden are adequate to provide long-term stability.

More detailed sub-surface investigations will be required at the preferred tailings storage facility site to evaluate the following geotechnical and hydrogeological conditions:

- The thickness and characteristics of overburden and the quality of bedrock.
- Detailed information on the stratigraphy and in-situ density of the overburden materials.
- The collection of overburden samples at depth for laboratory index and compaction testwork.
- Water tests in selected formations to obtain information on hydraulic conductivities and groundwater pressures in the overburden and bedrock.
- Installation of groundwater monitoring wells.
- Installation of thermistors in permafrost areas to determine ground temperature profiles and seasonal variations.
- Possible additional test pits to obtain site-specific information on potential borrow source materials.

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5.3 WASTE ROCK STORAGE

A potential Waste Rock Storage site is located south of Patton Hill, as shown on Drawing No. 1831.101. This site is advantageous for waste rock storage since it lies on a south-aspect slope which contains no permafrost and is located in the Casino Creek catchment. Surficial materials at the site comprise coarse boulder talus (scree) overlying well-drained residual sand along upper portions of the slope, and colluvium, comprising sand and broken rock with some silt, overlying residual soil along lower portions of the slope. Bedrock lies at shallow depths ranging from 1 to 4 metres. These conditions have the following geotechnical implications:

- Blocky boulder talus (scree) and well-drained, competent residual sands provide relatively high foundation strengths for waste rock loading.

- The absence of permafrost on the south-facing slope is advantageous in providing long-term foundation stability and minimizing surface settlements.

- Stripping would likely not be required due to large boulder scree which would provide an excellent contact with overlying waste rock.

- Any seepage losses would be confined to the Casino Creek catchment and contained by the tailings facility downstream.

A comparative assessment of various alternative sites will be carried out to determine the best site for waste rock storage. Additional geotechnical and hydrogeological investigations would then be carried out to provide information on foundation stability and seepage for preliminary design.

5.4 OPEN PIT

The approximate location of the deposit area is shown on Drawing No. 1831.101. Overburden materials in the deposit area are characterized by frozen, ice-rich

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colluvium and residual soils overlying bedrock at variable depths. These conditions have the following geotechnical implications for open pit development:

- Blasting may be required in permafrost areas during pit development to remove ice-rich overburden at lower elevations.

- Pit slopes excavated in colluvium and heavily to extremely weathered and altered residual soils will likely require shallow angles of approximately 2H:1V or less.

- Sediment control berms and staged pre-production stripping may be required to control and minimize sediment transport from thawing ice-rich overburden. Wide benches may also be required along the overburden/bedrock contact to contain thawing overburden during open pit development.

- The presence of ice-bonded rock near surface will thaw during pit development, resulting in increased groundwater inflows and reduction of pit slope stability near surface.

Additional detailed geotechnical and hydrogeological investigations will be required in the open pit area and include the following:

- Oriented drill holes for rock mass classification and to determine orientations of discontinuities and geologic structures affecting pit slope stability.

- Installation of thermistors to obtain detailed information on ground temperature profiles to determine thicknesses and extent of permafrost and its subsequent affects on pit slope stability.

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- Permeability and groundwater pressure testing to estimate pit inflows, hydraulic gradients and groundwater pressures affecting pit slope stability.

- Installation of groundwater monitoring wells for the collection of baseline groundwater quality data.

5.5 PLANTSITE

The proposed plantsite area is located southeast of Patton Hill in the vicinity of the existing airstrip, as shown on Drawing No. 1831.101. This area may also be utilized as a heap leach pad site, as discussed in Section 5.6. Surficial materials in this area are characterized by well-drained residual sands over blocky, fresh granodiorite bedrock along south and west-facing slopes, and frozen organic ice-rich colluvium over residual sand and granodiorite bedrock along north and east-facing slopes. These conditions have the following geotechnical implications:

- The residual sands provide an excellent source of low permeability, dense compacted backfill for millsite structures. Significant deposits of residual materials are also available nearby along slopes north of camp.

- Heavy and vibrating structures such as crushers etc. may be founded at shallow depths on hard, competent granodiorite bedrock.

- Potential quarry sources of fresh granodiorite are available to crush for concrete aggregate and non-frost-susceptible drainage gravel for millsite foundation structures.

- Permafrost areas may be excavated or blasted to competent bedrock at shallow depths of 1 to 2 metres for foundation preparation.

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5.6 HEAP LEACH PADS

Three (3) preliminary alternative sites for heap leach pad construction are shown on Drawing No. 1831.101. Preliminary design objectives for all sites would involve the construction of a starter embankment to provide initial confinement stability and possible in-heap solution storage as the northern climate requires. This would allow the ore to be placed in lifts upstream or upslope of the embankment prior to leaching. Drainage and liner systems would be installed to contain and convey the leachate to collection ponds downstream of the embankment.

Foundation conditions are similar at Heap Leach Site No.'s 1 and 2. Permafrost lies at shallow depths along north and northeast-facing slopes. Materials comprise frozen, ice-rich colluvium overlying residual sands. Non-frozen colluvium overlies residual sands and bedrock at shallow depths along south and southwest-facing slopes. Bedrock lies at shallow depths along abutment slopes at both sites. Bedrock was not intersected in the valley bottoms at either site. These sites are advantageous in providing confinement and "single-point" monitoring and collection of all seepage and leachate solutions. Site No. 2 however is located in Canadian Creek valley, outside the proposed Casino valley development area, and would require additional environmental protection measures.

Foundation conditions at Heap Leach Site No. 3 in the vicinity of the proposed Plantsite area are characterized by non-frozen, well-drained residual sands and/or well-graded colluvium overlying bedrock at shallow depths. This site is advantageous due to better foundation conditions and southerly exposure, however would likely require more difficult and costly measures for seepage monitoring, leachate collection and leach ore confinement.

These conditions have the following implications for leach pad construction:

- Extensive earthworks may be required at Site No. 1 to obtain flatter slopes to provide stability for liner systems and to allow drainage for leachate

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collection. Flatter slopes at Site No.'s 2 and 3 would require minimal earthworks.

- Heap leach Site No.'s 1 and 3 both drain into the Casino Creek catchment which is advantageous in controlling seepage losses within the tailings impoundment located downstream.

- Borrow sources of residual sands and broken granodiorite rock are locally available at all sites along well-drained south-facing slopes for initial embankment or foundation construction.

- Shallow depths to bedrock along abutment slopes at Site No.'s 1 and 2 and along the flat slope at Site No. 3 provide favourable conditions for embankment foundation preparation. Drilling would be required to determine depths to bedrock in the valley bottoms at Site No.'s 1 and 2. The thick deposits of coarse-grained alluvial along Canadian Creek may preclude Site No. 2 for heap leach storage due to difficulties in controlling seepage and leachate collection.

- Foundation conditions are generally favourable for the construction of a drainage/liner system. Variable depths of permafrost and thicknesses of overburden at Site No.'s 1 and 2, however, may result in differential thaw settlement of ice-rich materials, resulting in extensive work to stabilize prior to liner installation.

The selection of the preferred site(s) for leach pad construction will depend on leachable ore reserves, open pit limits and permitting requirements. A comparative assessment of the alternative sites would then be carried out to determine the preferred site for more detailed investigations. These investigations would include drilling along the starter embankment and additional test pitting for more detailed overburden and permafrost characterization.

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5.7 CONCRETE AGGREGATE

The absence of significant clean sand and gravel deposits suggests that concrete aggregate will need to be processed from crushed quarry rock on site. Alluvial sand and gravel deposits along Casino Creek valley may be suitable for use as fine aggregate for concrete structures in the tailings facility area. Sources of coarse concrete aggregate for millsite structures will likely be obtained locally from crushed rock. The fresh, hard, blocky, coarse-grained granodiorite rock found extensively over the project area will provide an excellent source of aggregate. Potential quarry sources of fresh granodiorite are abundant in the proposed millsite area. Alluvial sands and gravels in Canadian and Casino Creeks would likely require too much processing to economically obtain sufficient quantities for concrete aggregate. It is recommended that large bulk samples of fresh granodiorite rock and alluvial sands and gravels be obtained for further concrete aggregate testwork. This would include grain-size analyses, alkali reactivity, soundness and abrasion testing.

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SECTION 6.0 - CONCLUSIONS

The preliminary surficial geotechnical investigations carried out at the Casino project area generally indicate favourable conditions for the various potential minesite components. Surficial materials typically comprise well-graded colluvium overlying residual sands and bedrock along slopes and at higher elevations, and thick stratified deposits of alluvial silty sands and cobbly sands and gravels along valley bottoms. Bedrock was intersected at shallow depths of from 1 to 4 metres over most of the project area and comprises blocky, hard, fresh to moderately weathered granodiorite. Bedrock was not intersected along Casino Creek valley. Surficial materials in the deposit area comprise thick sections of residual soils and significant depths of weathering of up to 30 metres along weak alteration and shear zones. An average overburden depth of 8 metres is estimated for the deposit area from exploration drilling.

Permafrost is extensive over the project area. Slopes near Patton Hill and along the upper reaches of Canadian and Casino Creek valleys are characterized by organic and ice-rich colluvium and residual soils at shallow depths. Permafrost is also found extensively along valley bottoms, in shaded draws and on north-facing slopes along Casino Creek and tributary valleys. These areas are identified by treeless slopes, thick hummocky moss, and sparse, stunted black spruce trees at the base of slopes and along valley bottoms.

Vegetation provides an excellent indicator of underlying surficial materials. Tall stands of deciduous aspen and poplar found along south and southeast-facing slopes, and along ridges at higher elevations indicate significant deposits of well-drained in-situ heavily weathered residual sands overlying broken bedrock. These materials provide excellent potential borrow sources of dense, strong, low-permeability compacted fill for embankment or leach pad construction. Tall, thick stands of coniferous white spruce with mixed birch and aspen are present along east and west-facing slopes along Casino and tributary creek valleys and indicate moist, well-graded colluvium overlying residual sands and/or bedrock at shallow depths.

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Much of the colluvium in these areas is suitable or may be mixed with underlying residual soils and broken rock to provide potential borrow sources of random fill for earthworks construction. Surficial materials in permafrost areas along valley bottoms are characterized by frozen ice-rich organics (peat) and fine-grained alluvial silty sediments overlying coarse-grained, free-draining stratified alluvial sands, and cobbly sands and gravels. The coarse-grained alluvial materials may be suitable as structural fill or filter zones in embankment construction. Non-frozen areas adjacent to creeks comprise coarse-grained alluvial (fluvial) cobbly sands and gravels near surface.

The results of these investigations provide preliminary information on the surficial materials and foundation conditions over the entire Casino project area. This information will be used for conceptual studies and selections of the various minesite components for additional, more detailed geotechnical and hydrogeological investigations.

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TABLE 2.1

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

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TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
SH-1	0.0	0.7	Colluvial gravelly silt, some sand
	0.7	2.4	Residual gravelly sand, some silt and clay
9008-A	0.0	0.3	Moss and black peat vegetation
	0.3	0.9	Frozen, grey colluvial sandy silt
	0.9	2.5	Frozen residual silty sand
9008-B	0.0	0.1	Organics and moss
(N. end)	0.1	0.5	Colluvial gravelly sand
	0.5	3.7	Residual gravelly sands
	3.7	4.5	Colluvial sands and gravels
(S. end)	0.0	0.6	Colluvial sandy silt and gravel (topsoil)
	0.6	1.9	Residual sandy gravels
9008-C	0.0	0.4	Colluvial silty sand and fine gravel
	0.4	1.4	Residual silty sand and gravelly sand
	1.4	2.9	Bedrock - HW, soft granodiorite
9008-D	0.0	0.6	Alluvial interbedded silts, sands and peat
	0.6	1.6	Colluvial silty, gravelly sand, some cobbles
		1.6	Bedrock - fresh, hard granodiorite
9008-E	0.0	0.3	Organic topsoil and thick moss vegetation
	0.3	0.8	Colluvial silty sand, some gravel
	0.8	1.8	Colluvial sand with gravel, trace silt
			Permafrost table at 1.4m
9008-F	0.0	3.0	Fluvial cobbly gravel and sand with boulders
9008-G	0.0	0.2	Organics - thick moss and black peat
	0.2	0.5	Colluvial gravelly sand with rock fragments
			Permafrost table at 0.2m
9008-H	0.0	0.1	Organic topsoil and thin moss
(E. end)	0.1	0.5	Colluvial silty fine gravelly sand, trace clay
	0.5	1.6	Residual gravelly sand, trace silt
		1.6	Bedrock - fresh, hard, blocky granodiorite
(Ch. 30 m)	0.0	1.0	Colluvial silty sand and f. gravel with cobbles
	1.0	2.0	Bedrock - fresh, blocky granodiorite
(W. end	0.0	0.1	Organic topsoil and thin moss
on slope)	0.1	0.6	Colluvial sandy silt and fine gravel with cobbles
	0.6	1.4	Residual silty sand and fine gravel
(W. end adj.	0.0	1.5	Alluvial stratified sand & organic-rich clayey silt
to creek)	1.5	3.0	Alluvial boulders and cobbles with gravel and sand
9033-A	0.0	0.1	Organics - moss and roots
(NE end)	0.1	0.7	Alluvial interbedded sands and silts
	0.7	1.7	Alluvial silty sand and fine gravel with cobbles

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9033-A	0.0	0.1	Organics – moss and roots
(Ch.20-50m)	0.1	0.5	Organic-rich clayey silt topsoil
	0.5	1.3	Alluvial sands with some gravel
			Permafrost table at 0.3m
(SW end)	0.0	0.3	Organic peat with roots and wood frags.
	0.3	1.5	Alluvial interbedded gravelly sands and sandy silts
9034-A	0.0	0.1	Vegetation – moss, scrub birch and willows
(N. end)	0.1	0.4	Organic topsoil with clayey silt
	0.4	1.3	Frozen, ice-rich colluvial gravelly silt with clay
			Permafrost table at 0.2m
(Middle)	0.0	0.1	Vegetation – moss, scrub birch and willows
	0.1	0.4	Organic topsoil with clayey silt
	0.4	1.3	Frozen, stratified alluvial sands and silts
			Permafrost table at 0.2m
(S. end)	0.0	0.3	Organic topsoil
	0.3	0.8	Alluvial stratified sand and clayey silt
	0.8	1.3	Alluvial sands
			Groundwater table 1.3m
9034-B	0.0	1.3	Colluvial sandy silt with cobbles and gravel
	1.3	1.8	Residual granodiorite sand with some silt
	1.8	2.8	Bedrock – HW, weak, friable granodiorite
9034-C	0.0	0.3	Organic-rich topsoil
	0.3	1.2	Colluvial silt with sand, gravel/cobbles and organics
	1.2	1.8	Coll. silty sand; and grav./cobble clasts (no organics)
	1.8	2.9	Residual silty sand
	2.9		Bedrock – MW-HW, mod. hard granodiorite
9034-D	0.0	0.2	Organic-rich sandy topsoil
	0.2	1.1	Colluvial cobbly sands with silt and gravel
	1.1	2.3	Residual sands, gravels and silts
		2.3	Bedrock – HW, badly broken, granodiorite
9034-E	0.0	0.8	Colluvial gravelly sand with cobbles and boulders
	0.8	2.0	Residual gravelly sand with silt
	2.0	6.0	Bedrock – HW, soft, v. weak, sheared
9035-A	0.0	0.3	Colluvial sandy silt and rock frags.
	0.3	0.6	Colluvium – residual sand and broken rock
	0.6	3.7	Residual sands
9035-B	0.0	0.3	Organic-rich topsoil and talus
	0.3	1.4	Colluvial silty sand with grav. (matrix); and cobbles
	1.4	1.8	Residual sand with silt and gravel
		1.8	Bedrock – SW-FR, hard broken, blocky

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9035-C	0.0	0.2	Organic-rich sandy topsoil
	0.2	0.7	Residual sand (competent)
	0.7	1.7	Badly broken, weak rock with some residual sand
	1.7		Bedrock - badly broken, fine blocky granodiorite
9035-D	0.0	1.0	Colluvium - silty/cobbly, well graded
	1.0	4.5	Bedrock - MW, broken, blocky with weak zones
9035-E	0.0	0.5	Colluvial sandy silt (matrix); and gravel/cobble
	0.5	1.7	Bedrock - MW, altered, mod. hard, badly broken
	1.7		Bedrock - broken, hard fine blocky qtz. monzonite
9035-F	0.0	0.3	Organic-rich silty/sandy topsoil
	0.3	0.6	Colluvium - gravelly, silty sand with cobbles
	0.6	1.2	Residual sand and fine gravel with silt
	1.2	1.3	Bedrock - MW, blocky granodiorite
9035-H	0.0	0.3	Organic, silty/sandy topsoil
(W. half)	0.3	0.8	Colluvium - silty sand w/ gravel; and rock frags.
	0.8	1.1	Residual silty, fine gravelly sand
	1.1	2.3	Bedrock - HW, weak, broken granodiorite
	2.3		Bedrock - MW, mod. hard granodiorite
9035-H	0.0	0.3	Organic, silty/sandy topsoil
(E. half)	0.3	0.7	Colluvium - silty sand w/ gravel; and rock frags.
	0.7	1.4	Granodiorite rock frags. with residual sand matrix
	1.4	3.7	Bedrock - MW, crs. blocky granodiorite
	3.7		Bedrock - FR, v. hard , crs. blocky granodiorite
9036-B	0.0	0.1	Organics - roots, moss and grasses
(W. end)	0.1	0.3	Peat - spongy, fibrous w/ silt lenses
	0.3	0.6	Frozen colluvium - silty sand and gravel
			Permafrost table at 0.3 m (refusal at 0.6 m)
(Middle)	0.0	0.1	Organics - roots, moss and grasses
	0.1	1.0	Colluvium - silty sand and gravel w/ rock frags.
	1.0	1.9	Bedrock - MW, broken granodiorite, HW in part
(Ch.40-80m)	0.0	0.1	Organics and sandy topsoil
	0.1	0.7	Colluvium - silty sand and gravel w/ rock frags.
	0.7	1.8	Residual sand & gravel / HW granodiorite rock
			Residual soil frozen between Ch.45-55m at 1.5m.
(E. end)	0.0	0.1	Organics and sandy topsoil
	0.1	1.0	Colluvium - silty sand and gravel w/ occ. peat lense
	1.0	1.9	Bedrock - MW, broken granodiorite w/ HW zones

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

U:\USER\MDG\1831\TBL21.WK3 21-Feb-94

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9036-D	0.0	0.2	Organics – mosses and silty sand topsoil
(E. end)	0.2	0.7	Organic-rich peat with silt lenses
	0.7	1.4	Stratified peats and sandy, clayey silts
	1.4	1.6	Frozen residual sandy gravel with ice
	1.6	1.9	Frozen, residual sandy silt and ice
			Permafrost table at 1.2 m
(Middle)	0.0	0.1	Organics – mosses and silty sand topsoil
	0.1	0.5	Colluvium – sandy silt, some organics
	0.5	0.7	Silty peat with wood frags.
	0.7	1.1	Colluvium – sandy gravel, tr. silt
	1.1	1.6	Colluvium – silty sand and gravel
	1.6	3.1	Bedrock – HW, v. broken, blocky granodiorite
(W. end)	0.0	0.3	Topsoil – sandy silt
	0.3	0.9	Colluvial sandy gravel, some silt
	0.9	1.9	Residual sandy gravel; and HW, broken grano.
		1.9	Refusal in frozen res. soil / grano. rock and ice
9036-E	0.0	0.4	Colluvial sandy silt topsoil with organics
(Ch.0-12m	0.4	0.9	Residual sand with fine gravel
W. end)	0.9	1.7	Bedrock – MW, badly broken, blocky granodiorite
	1.7	2.1	Bedrock – FR, slighlty broken granodiorite
(Ch.12-20m)	0.0	0.3	Colluvial sandy silt topsoil with organics
	0.3	0.6	Residual sand with fine gravel
	0.6	1.0	Bedrock – MW, badly broken, blocky granodiorite
	1.0	1.5	Bedrock – FR, sl. broken granodiorite
(Ch.20-35m)	0.0	0.6	Colluvial sandy silt with clay and gravel
	0.6	0.8	Residual fine gravelly sand
	0.8	1.4	Bedrock – FR, hard, blocky granodiorite
		1.4	Bedrock – FR, v. hard, competent (refusal)
(Ch.35-45m)	0.0	0.6	Colluvial sandy silt with clay and gravel
	0.6	1.4	Bedrock – FR, hard, blocky granodiorite
(Ch.45-120m	0.0	0.4	Colluvial sandy silt with clay and gravel
E. end)	0.4	1.2	Broken rock with some colluvium
		1.2	Bedrock – FR, hard, blocky granodiorite
9036-F	0.1	0.5	Colluvial sandy silt with gravel and clay
	0.5	1.5	Colluvial sandy gravel with cobble rock frags.
		1.5	Bedrock – FR, sl. broken, hard granodiorite
9036-G	0.0	0.5	Alluvial clayey silt with peat
		0.5	Frozen, ice-rich alluvial clayey silt
			Permafrost table at 0.5 m
9036-H	0.0	0.8	Alluvial sand
	0.8	4.0	Alluvial sand and gravel (stratified)

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

U:\USER\MDG\1831\TBL21.WK3 21-Feb-94

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9036-I	0.0	0.4	Colluvium – sandy silt with fine gravel
	0.4	0.8	Residual gravelly sand (pinches out downslope)
	0.8	1.4	Bedrock – FR, broken, blocky, hard granodiorite
9037-A	0.0	0.8	Colluvium – soft clayey silt topsoil with peat
(10m at base	0.8	1.1	Residual sandy silt
of slope)	1.1	2.4	Bedrock – SW-FR, broken, blocky granodiorite
(Brynelsen	0.0	0.3	Organics – black, spongy peat (insulative layer)
valley)	0.3	0.5	Alluvial interbedded silts, sands and clays
			Permafrost table at 0.3 m
9038-A	0.0	2.3	Frozen, ice-rich silty sand w/ gravel (colluvium)
(N. end adj.			Permafrost table at 0.4 m
to Cdn. ck.)			
(S. end,E. wall)	0.0	3.2	Non-frozen, silty sand w/ gravel (colluvium)
(S. end,W. wall)	0.0	1.6	Non-frozen, silty sand w/ gravel (colluvium)
	1.6	3.2	Alluvial gravel and sand
9038-B	0.1	0.6	Talus – coarse, blocky boulders
(East 50m)	0.6	1.4	Frozen, organic-rich clayey silt/peat topsoil
	1.4	1.7	Frozen, ice-rich broken rock frags. w/ sand matrix
			Permafrost table at 0.2 m
(West 10m)	0.1	0.7	Talus – coarse, blocky, hard granodiorite
	0.7	1.3	Frozen, rock frags. and residual sand
			Permafrost table at 0.2 m
9038-C	0.0	0.3	Frozen peat and silt
	0.3	0.5	Frozen colluvium and talus (refusal)
			Permafrost table at 0.3 m
9039-A	0.0	0.8	Residual fine gravelly sand with silt
	0.8	2.2	Bedrock – FR, blocky, broken granodiorite
9039-B	0.0	0.1	Organics – mosses and forest litter
	0.1	0.5	Residual / colluvial sand and gravel, some silt
	0.5	0.9	Residual sand and gravel
	0.9	2.0	Bedrock – SW, sl. broken, blocky, hard, grano.
		2.0+	Blocky, fresh bedrock (refusal)
9039--C	0.0	0.2	Organic silty topsoil
(S. end	0.2	0.5	Residual gravelly sand
Ch.0-20m)	0.5	1.7	Bedrock – MW, broken, mod. hard grano./qtzite
(Ch.20-35m)	0.0	0.2	Organic silty topsoil
	0.2	0.5	Residual gravelly sand
	0.5	1.4	Bedrock – HW, badly broken, weak granodiorite
		1.4	Bedrock – SW-FR, v. hard, blocky granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9039-C	0.0	0.5	Organic silty topsoil
(Ch.35-50m)	0.5	1.0	Residual gravelly sand
	1.0	1.4	Bedrock - MW-FR, broken granodiorite (refusal)
9040-B	0.0	0.2	Organics - mosses, forest litter
	0.2	0.6	Colluvium - sandy silt, tr.-some gravel
	0.6	1.1	Residual sandy gravel, tr. silt
	1.1	2.0	Broken, MW-HW, friable rock and res. sandy grav.
		2.0	Bedrock - FR, hard, sl. broken granodiorite
9040-C	0.0	0.2	Organic silty topsoil
(S. end	0.2	0.5	Residual sandy gravel
Ch.0-13m)	0.5	1.7	Bedrock - FR, hard, blocky granodiorite (refusal)
(Ch.13-22m)	0.0	0.2	Colluvial silty topsoil
	0.2	0.5	Residual sandy gravel
	0.5	1.4	Broken rock frags. with gravelly sand matrix
		1.4	Bedrock - FR, hard granodiorite
(Ch.22-38m)	0.0	1.0	Colluvial sandy/silty gravel and rock frags.
	1.0	1.4	Broken rock frags. with gravelly sand matrix
(Ch.38-42m)	0.0	0.5	Colluvial gravelly sand and residual soil mixture
	0.5	1.4	Residual gravelly sand
		1.4	Bedrock - HW, broken, weak granodiorite
9041-A	0.0	0.3	Organic topsoil and sandy silt
(E. half)	0.3	0.8	Colluvial gravelly sand and silt
	0.8	1.8	Residual and colluvial sands and gravels
(W. half)	0.0	1.5	Colluvial sandy silt with organic (peat) layers
	1.5	2.5	Colluv. / res. grv'ly sand w/ cobbles (frozen-refusal)
			Permafrost at 0.2m at far west end (50m section)
9041-D	0.0	0.2	Organic topsoil and roots
(Ch.0-7m)	0.2	0.4	Residual gravelly sand
	0.4	1.1	HW rock frags. with residual sandy gravel
	1.1	1.6	Bedrock - FR, hard granodiorite
(Ch.7-10m)	0.0	0.2	Residual sand
	0.2	1.9	Bedrock - FR, blocky granodiorite with res. sand
(Ch.10-40m)	0.0	1.0	Residual sandy fine gravel
	1.0	2.5	Bedrock - MW, weak, broken granodiorite(refusal)
(Ch.40-100m;	0.0	0.4	Residual silty sand with gravel
112-150m)	0.4	1.7	Bedrock - FR-MW, blocky granodiorite
(Ch.100-112m)	0.0	1.0	Residual silty, gravelly sand
	1.0	2.3	Bedrock - HW, broken/sheared, weak granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9041-E	0.0	0.1	Organics – mosses, forest litter
(E. end-top)	0.1	1.1	Colluvium – blocky rock frags. w/ sandy gravel
		1.1	Refusal in v. crs. blocky, hard, granodiorite
(Middle)	0.0	0.1	Organics – mosses, forest litter
	0.1	1.0	Colluvium – blocky rock frags. w/ sandy gravel
	1.0	1.5-1.8	Broken, blocky MW granodiorite
		1.5-1.8	Bedrock – FR, hard, blocky granodiorite (refusal)
(W. end,	0.0	0.1	Organics – mosses, forest litter
bottom 20m)	0.1	0.7	Colluvium – sand & gravel; and rock frags.
	0.7	1.2	Residual silty, sandy gravel
	1.2	2.2	Bedrock – HW, broken, weak, friable granodiorite
		2.2	Refusal in blocky, MW, sl. broken granodiorite
9041-F	0.0	0.2	Organic topsoil
(E. end,	0.2	0.4	Residual silty sand
Ch.0-15m)	0.4	1.4	Bedrock – FR, broken, hard, blocky granodiorite
(Ch.15-35m)	0.0	0.2	Organic topsoil
	0.2	1.8	Colluvium – mix. of broken rock and residual sand
		1.8	Bedrock – FR, broken, crs. blocky granodiorite
(Ch.35-40m)	0.0	0.2	Residual sand
	0.2	0.6	Residual cobbly gravel and sand
	0.6	1.7	Bedrock – FR-SW, blocky, hard granodiorite
(Ch.40-80m)	0.0	0.2	Organic topsoil
	0.2	0.4	Residual sand
	0.4	1.5	Granodiorite rock frags. with residual sand
	1.5	1.7	Bedrock – MW, mod. hard granodiorite
(Ch.80-125)	0.0	0.2	Organic topsoil
	0.2	0.4	Residual gravelly sand
	0.4	1.1	Bedrock – SW-FR, hard, blocky granodiorite
9041-G	0.0	1.0	Colluvial silty sand with gravel; and rock frags.
	1.0	1.5	Bedrock – FR-SW, crs. blocky granodiorite
			5m section of 1m thick residual sand under colluv.
9041-H	0.0	0.4	Colluvium – silty sand with gravel
(E. end,	0.4	0.9	Residual gravelly sand
Ch.0-30m)	0.9	1.6	Bedrock – SW-FR, crs. blocky granodiorite
(Ch.30-70m,	0.0	0.4	Colluvium – silty sand with gravel
W. end)	0.4	0.9	Residual gravelly sand
	0.9	1.7	Bedrock – MW, weak, friable granodiorite
		1.7	Bedrock – SW-FR, blocky granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9042-A	0.0	0.5	Colluvium – silty sand with gravel
(E. end,	0.5	1.0	Residual gravelly sand and rock frags.
Ch.0-20m)	1.0	1.5	Broken granodiorite rock frags. w/ residual sand
(Ch.20-W.end)	0.0	0.3	Organic topsoil
	0.3	1.0	Colluvium – silty sand with gravel
	1.0	1.8	Residual gravelly sand
		1.8	Bedrock – HW, broken, weak granodiorite
9042-B	0.0	0.2	Organic topsoil and mosses with roots
(W. end)	0.2	0.7	Colluvium – sandy gravel with cobble rock frags.
	0.7	2.0	Residual sand and gravel with silt and clay in part
(Middle)	0.0	0.1	Organic topsoil and mosses with roots
	0.1	1.1	Residual sandy gravel
		1.1	Bedrock – SW, blocky granodiorite (blade refusal)
(E. end,	0.0	0.1	Organic topsoil and mosses with roots
12m section)	0.1	0.8	Residual sand & gravel with angular diorite frags.
		0.8	Bedrock – sl. broken, hard diorite
9042-C	0.0	0.3	Organic silty topsoil
(N. end,	0.3	0.6	Broken rock with residual sand
Ch.0-20m)	0.6	1.6	Bedrock – SW-MW, broken, blocky granodiorite
(Ch.20-40m)	0.0	0.3	Colluvial silty topsoil with rock
	0.3	0.7	Residual fine gravelly sand
	0.7	1.3	Residual sandy gravel
	1.3	1.6	Bedrock – badly broken, weak, friable granodiorite
9042-C	0.0	0.2	Colluvial silty topsoil
(Ch.40-110m,	0.2	0.6	Residual sand
N. end)	0.6	1.6	Bedrock – SW-MW, broken, blocky granodiorite
9042-D	0.0	0.3	Organic topsoil
(E. end,	0.3	1.3	Residual sand
Ch.0-30m)	1.3	2.5	HW broken rock with residual gravelly sand
		2.5	Bedrock – SW, hard granodiorite (refusal)
(Ch.30-47m)	0.0	0.5	Residual silty fine sand
	0.5	2.1	Broken rock frags. and residual sandy gravel
		2.1	Bedrock – MW, broken granodiorite (refusal)
(Ch.47-68m)	0.0	0.3	Residual silty sand
	0.3	2.0	Bedrock – SW-FR, broken, blocky granodiorite
(Ch.68-75m,	0.0	0.2	Organic silty topsoil
W. end)	0.2	0.9	Residual gravelly sand
	0.9	2.0	Residual sandy gravel and HW broken granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9042-E	0.0	0.3	Organic silty topsoil
(S. end,	0.3	1.4	Residual sand with some gravel and silt
Ch.0-15m)	1.4	3.7	Bedrock - HW-EW, v. weak, broken granodiorite
			Groundwater table at 3.7 m
(Ch.15-100m,	0.0	0.5	Organic silty topsoil
N. end)	0.5	0.8	Residual gravelly sand with silty sand
	0.8	1.5	Residual sandy gravels; res. gravel and rock frags.
	1.5	2.0	Bedrock - HW, broken, weak granodiorite
		2.0	Bedrock - SW-MW, blocky, mod. hard, grano.
9042-F	0.0	0.4	Topsoil / residual sandy silt
	0.4	1.0	Residual sand, some gravel and silt
	1.0	2.3	Residual gravelly sand; and granodiorite rock frags.
	2.3	2.7	Bedrock - HW, weak granodiorite
9042-G	0.0	1.0	Colluvium (talus) and residual sand
	1.0	1.3	Residual silty sand
	1.3	1.7	Bedrock - HW, weak, friable granodiorite
		1.7	Bedrock - SW-MW, broken granodiorite
9043-A	0.0	0.5	Colluvial gravelly sand with silt and cobbles
(E. end)	0.5	0.9	Residual silty sand with gravel
	0.9	1.5	Bedrock - SW, broken granodiorite
(Middle)	0.0	0.5	Colluvial gravelly sand with silt and cobbles
	0.5	0.9	Residual silty sand with gravel
	0.9	2.0	Bedrock - HW, broken, friable granodiorite
(W. end)	0.0	0.7	Colluvial silty sand and gravel
	0.7	1.7	Residual sand
9043-C	0.0	0.2	Organic silty topsoil
(S. end,	0.2	0.6	Residual gravelly sand
Ch.0-10m)	0.6	1.1	MW, broken, weak, friable granodiorite
	1.1	1.6	Bedrock - FR, blocky, hard granodiorite
(Ch.10-20m)	0.0	0.2	Organic silty topsoil
	0.2	0.4	Residual gravelly sand
	0.4	1.2	Residual gravel with sand
	1.2	1.6	MW, broken, weak, friable granodiorite
		1.6	Bedrock - FR, blocky, hard granodiorite
(Ch.20-35m)	0.0	0.2	Organic silty topsoil
	0.2	0.8	Residual gravelly sand
	0.8	1.3	Residual sandy gravel and broken, weak rock frags.
	1.3	1.6	Bedrock - FR-SW, broken, hard, granodiorite

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9043-C	0.0	0.4	Colluvial clayey silt topsoil with organics
(Ch.35-45m)	0.4	0.9	Residual gravelly sand
	0.9	1.4	Residual sandy gravel and broken rock frags.
	1.4	1.6	Bedrock - FR-SW, broken, hard, granodiorite
(Ch.45-60m)	0.0	0.3	Colluvial clayey silt topsoil with organics
	0.3	0.7	Residual sand with silt and gravel
	0.7	1.5	Bedrock - FR-SW, mod. hard granodiorite
(Ch.60-100m,	0.0	0.3	Colluvial clayey silt topsoil with organics
W. end)	0.3	0.7	Residual sand, some gravel
	0.7	1.7	Bedrock - FR, blocky granodiorite
9043-D	0.0	0.4	Colluvial silt with gravel, clay and sand
(E. end,	0.4	1.4	Colluvial soft clayey silt with gravel and sand.
Ch.0m)			
(Ch.25m)	0.0	1.0	Colluvial clayey silt with gravel and cobbles
	1.0	2.0	Residual gravel and sand
	2.0	2.5	Bedrock - FR, hard, blocky granodiorite (refusal)
(Ch.50m)	0.0	0.4	Organic topsoil with rock frags.
	0.4	1.0	Colluvial gravelly silt with clay and sand
	1.0	1.7	Residual sandy gravel
(Ch.150m)	0.0	1.0	Colluvial silty sand with gravel
	1.0	1.8	Residual gravelly sand
			Ch.50-150m: Residual gravel/sand sections
9043-G	0.0	0.1	Organics
	0.1	0.4	Residual sand with some gravel
	0.4	0.8	Residual sandy gravel
	0.8	2.0	Bedrock - SW, blocky, hard granodiorite
9043-H	0.0	0.3	Organic topsoil
(E. end,	0.3	0.6	Residual sand
Ch.0-8m)	0.6	1.6	Bedrock - HW, weak, broken granodiorite
(Ch.8-17m)	0.0	0.2	Organic topsoil
	0.2	0.4	Residual sand, some gravel
	0.4	1.6	Bedrock - FR, hard, granodiorite (refusal)
(Ch.17-71m)	0.0	0.2	Organic topsoil
	0.2	0.5	Residual sand, some gravel
	0.5	1.5	Broken rock frags. and residual sand and gravel
		1.5	Bedrock - MW, broken granodiorite
(Ch.71-175m,	0.0	0.2	Organic topsoil
W. end)	0.2	0.4	Residual sand, some gravel and rock frags.
	0.4	1.9	Bedrock - FR, blocky, hard granodiorite

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9044-A (W. end, Ch.0-12m)	0.0	0.3	Organic silty topsoil
	0.3	0.8	Colluvial sandy silt
	0.8	1.2	Residual gravelly sand
	1.2	2.0	HW, granodiorite rock frags.
		2.0	Bedrock - MW, blocky, mod. hard granodiorite
(Ch.12-20m)	0.0	0.3	Organic silty topsoil
	0.3	1.9	MW, granodiorite rock frags. with gravelly sand
		1.9	Bedrock - SW, blocky, granodiorite
(Ch.20-50m)	0.0	0.3	Organic silty topsoil
	0.3	1.3	Residual sand and gravel
	1.3	1.8	Bedrock - FR-SW, hard granodiorite
(Ch.50-90m, E. end)	0.0	0.3	Organic silty topsoil
	0.3	0.8	Residual gravelly sand
	0.8	1.3	Broken, SW-MW, blocky granodiorite
		1.3	Bedrock - SW-FR, blocky granodiorite
9044-B	0.0	0.2	Organics - moss, grasses and roots
	0.2	2.9	Silty, clayey peats with occ. lense of residual sand
			Permafrost table at 0.6 m
9044-C (Ch.0-60m)	0.0	0.4	Colluvial sandy silt with gravel
	0.4	1.2	Residual sand and gravel
	1.2	1.7	Bedrock - FR, crs. blocky granodiorite (refusal)
(Ch.60-140m)	0.0	0.3	Colluvial sandy silt with gravel
	0.3	0.7	Broken rock with residual sand and gravel
	0.7	1.7	Bedrock - FR, v. hard, blocky granodiorite
(Ch.140-200m)	0.0	0.4	Colluvial silty sand and very fine gravel
	0.4	1.4	Broken rock and residual gravelly sand
		1.4	Bedrock - FR, v. hard, sl. broken granodiorite
9044-D (W. end, Ch.0-30m)	0.0	0.4	Colluvial silty sand and gravel
	0.4	0.6	Frozen residual silty sand
			Permafrost table at 0.1 m
(Ch.30-65m)	0.0	0.8	Colluvium - sand with gravel and silt
	0.8	1.1	Residual sands
	1.1	1.5	Rock frags. and residual sand
		1.5	Bedrock - FR, hard, sl. broken granodiorite
(Ch.65-110m)	0.0	0.5	Colluvium - sand with gravel and silt
	0.5	1.0	Residual sand and gravel; and grano. rock frags.
		1.0	Bedrock - granodiorite
(Ch.110-180m)	0.0	0.5	Colluvium - sand with gravel and silt
	0.5	1.2	Rock frags. with residual sand
		1.2	Bedrock - FR, v. hard, competent granodiorite

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

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TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9044-D	0.0	0.8	Colluvium – sand with gravel and silt
(Ch.180-250m,	0.8	1.8	Broken granodiorite rock w/ tr. residual sand
E. end)		1.8	Bedrock – competent, fresh granodiorite.
9045-A	0.0	0.2	Organics – moss and roots
	0.2	0.3	Peat
	0.3	0.6	Alluvial stratified sands and silts
	0.6	0.9	Non-frozen silty peat
		0.9	Frozen, hard silty peat (permafrost)
9045-B	0.0	0.1	Organic topsoil
(E. and W.	0.1	0.6	Alluvial silts
ends)	0.6	1.2	Residual gravel w/ sand; and HW broken rock frags.
	1.2	2.5	Bedrock – FR, hard, competent granodiorite
(Middle)	0.0	0.3	Organics and silty topsoil
	0.3	0.7	Sandy silt with trace sand
	0.7	1.5	Residual sand & gravel w/ altered clayey, silty sand
	1.5	3.2	Bedrock – MW-HW, weak, friable, broken grano.
9046-A	0.0	0.1	Organics – mosses and forest litter
	0.1	0.6	Colluvial sand and gravel w/ MW, grano. rock frags.
	0.6	3.1	Residual sand & gravel; and HW, broken rock frags.
	3.1	4.1	Bedrock – MW-HW, badly broken granodiorite
9047-A	0.0	0.3	Organic silty topsoil
(Ch.0-12m,	0.3	0.6	Residual silty sand, some gravel
18-50m,	0.6	1.6	Broken, weathered granodiorite rock frags.
60-90m)	1.6	1.8	Bedrock – SW, hard, crs. blocky granodiorite
(Ch.12-18m)	0.0	0.3	Organic silty topsoil
	0.3	3.1	Residual, altered granodiorite sand
(Ch.50-60m)	0.0	0.3	Organic topsoil
	0.3	2.0	Residual sands with gravel
		2.0	Broken, HW, weak granodiorite rock frags.
(Ch.90-125m,	0.0	0.3	Organic topsoil
E. end)	0.3	1.5	Residual sand and gravel
	1.5	2.0	Broken, weak granodiorite rock frags.
		2.0	Ch.100-125m: Bedrock – SW-FR, granodiorite
9047-B	0.0	0.5	Residual gravelly sand / silty colluvium (alternating)
	0.5	1.4	Residual sands and gravels
	1.4	1.7	Broken, blocky SW-MW granodiorite rock
		1.7	Bedrock – broken granodiorite (refusal)

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9048-A	0.0	0.2	Organics – mosses, forest litter
	0.2	0.7	Topsoil – clayey silt with tr. sand
	0.7	1.3	Colluvium – sand & gravel; and broken rock frags.
	1.3	2.5	Residual sand & gravel with rock frags.
	2.5	3.1	Broken rock and residual silty sand & gravel
	3.1	4.6	Mod. broken, SW, hard, rock w/ sandy gravel matrix
9049-A	0.0	0.1	Organic topsoil
	0.1	0.4	Gravelly, clayey silt w/ root frags. & spongy peat
	0.4	1.3	Interbedded organic peat; alluv. sandy grav. and ice lenses. Permafrost table at 1.3 m
9050-A	0.0	0.3	Organic topsoil / Colluvial sand
	0.3	0.8	Colluvium – silty sand and gravel w/ peat layers
	0.8	2.0	Qtz. monzonite rock frags. w/ res. sand and gravel
	2.0		Bedrock – SW, blocky quartz monzonite
9050-B	0.0	0.7	Frozen colluvium – rock frags. and sandy silt matrix
(E. half)	0.7	1.7	Alt. zones of: EW gouge / weak, altered, frac. rock
(W. half)	0.0	1.0	Frozen colluvium – silt with sand and rock frags.
	1.0	1.7	Fault gouge – EW, v. soft qtz. frags. w/ clay
			Permafrost table at 0.1 m
9050-C	0.0	0.4	Organic sandy / silty topsoil
	0.4	1.0	Residual sand and gravel (variable thickness)
	1.0	1.6	Bedrock – HW, friable grano. w/ crs. blocky zones, and EW, soft clay gouge shear/alteration zones.
9051-A	0.0	0.5	Organics and crs. blocky talus
	0.5	2.0	Cobbly colluvium supported by sandy / silty matrix
	2.0		Bedrock – SW, hard, blocky granodiorite
9051--C	0.0	0.5	Organic-rich topsoil with silt
(N. end)	0.5	3.1	Colluvium – sand and silt matrix with grav./cobbles
	3.1	4.0	Bedrock – MW, broken granodiorite
(Middle, 25m	0.0	0.5	Organic-rich topsoil with silt
section)	0.5	3.1	Colluvium – sand and silt matrix with grav./cobbles
	3.1	4.0	Residual EW clayey silt, gouge-like
(S. end)	0.0	0.5	Organic-rich topsoil with silt
	0.5	2.8	Colluvium – sand and silt matrix with grav./cobbles
	2.8	3.5	Residual sand / colluvium / rock frags.
9052-A	0.0	0.5	Colluvium – sand and gravel
	0.5	0.9	Alluvial sandy silt (stratified)
	0.9	2.4	Residual sandy gravel (competent)
		2.4	Bedrock – FR, hard broken granodiorite

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

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TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9052-B	0.0	0.2	Organics – mosses, forest litter & roots
	0.2	0.5	Silty topsoil
	0.5	2.5	Residual sand and gravel
	2.5	3.3	Bedrock – HW, badly broken granodiorite
9053-A	0.0	0.5	Colluvium / Alluvium – clayey silt with sand
(S. end)	0.5	1.1	Residual silty sand and gravel
	1.1	3.5	Bedrock – HW, fine blocky, weak granodiorite
(N. end)	0.0	0.5	Colluvium / Alluvium – clayey silt with sand
	0.5	2.0	Residual sandy silt
	2.0	3.5	EW granodiorite qtz. frags. and clay matrix
9053-B	0.0	0.5	Organic topsoil
	0.5	1.3	Colluvium – sandy silt; broken, hard qtz. monzonite
	1.3	2.6	Colluvium – as above but black, sulphurous
			Trench frozen (permafrost) at east half
9053-C	0.0	0.4	Colluvium – gravelly sand with silt
	0.4	0.7	Organic (peat) layer
	0.7	0.9	Colluvial sand and fine gravel
	0.9	1.3	Lacustrine silts, grey, stiff
	1.3	1.8	Silty sand and gravel (till-like)
		1.8	Bedrock – MW, blocky quartz monzonite
9053-D	0.0	0.9	Sandy / silty topsoil with organics
	0.9	1.8	Colluvial gravelly sand with sm. cobbles
	1.8	2.5	Residual gravelly sands
		2.5	Bedrock – HW, crs. blocky granodiorite
			Permafrost table at 2.3 m
9053-E	0.0	0.4	Colluvial silty sand & gravel; and broken rock
(East 50m)	0.4	2.2	Bedrock – HW-EW, altered, weak, friable grano.
(West 50m)	0.0	0.4	Clayey silt topsoil with organics
	0.4	1.7	Colluvium – gravelly sand and silt
	1.7	2.3	Silty sand and fn. gravel (till-like colluvium)
9055-A	0.0	0.2	Organics – mosses, grasses and roots
	0.2	2.0	Interlayered sandy gravels, clayey silts and peats – ice-rich below permafrost table at 0.9 m
9055-B	0.0	0.2	Organics – mosses and forest litter
	0.2	0.3	Colluvial sandy gravelly silt topsoil
	0.3	0.8	Colluvium – silty sand and gravel
	0.8	2.4	Residual sand and gravel w/ tr.-some silt
	2.4	3.4	Bedrock – blocky, mod. broken, hard granodiorite
9056-A	0.0	0.6	Colluvium – sandy silt with fine gravel
(N. end,	0.6	1.4	Residual silty fine sand with fine gravel
Ch.0-10m)		1.4	Bedrock

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9056-A	0.0	0.8	Colluvium – silty fine sand with fine gravel
(Ch.10-30m)	0.8	2.5	Residual crs. sand
	2.5		Bedrock – badly broken, weak granodiorite
(Ch.30-50m,	0.0	0.5	Frozen colluvium – ice-rich sandy silt and fn. grav.
S. end)	0.5	1.1	Residual fine gravelly sand
9056-C	0.0	1.3	Colluvium – gravel and cobbles in silty sand matrix
(N. end)	1.3	1.7	Residual silty clay – EW, gouge-like sticky clay
	1.7	2.3	Bedrock – HW, altered, crumbly granodiorite
			Permafrost table at 1.3 m
(Middle)			Fault / shear zone comprising gouge-like silty clay with fine rock frags. (frozen, high saturation)
(S. end)	0.0	1.3	Colluvium – gravel and cobbles in silty sand matrix
	1.3	3.5	Residual sandy gravel (HW)
	3.5	3.9	Bedrock – HW, fine blocky granodiorite
			Permafrost table at 1.3 m
9057-A	0.0	0.4	Organic silty topsoil
(W. end,	0.4	2.1	Bedrock – broken, med. blocky granodiorite
Ch.0-10m;		2.1	Refusal in sl. broken granodiorite bedrock
Ch.55-85m)			
(Ch.10-55m;	0.0	0.4	Residual silty sand
Ch.85-100m,	0.4	2.2	Residual gravels and sands with silts
E. end)		2.2	Refusal in broken granodiorite bedrock
9057-B	0.0	0.3	Colluvial clayey silt topsoil
(Alternating	0.3	0.6	Residual silty sand, some clay
with below)	0.6	2.2	Badly broken grano. rock frags. w/ res. sandy gravel
	2.2	2.5	Bedrock – SW, broken granodiorite
(Alternating	0.0	0.3	Colluvial clayey silt topsoil
with above)	0.3	1.8	Residual silty sand to sand with silty
		1.8	Bedrock – HW, weak, friable, crumbly granodiorite
9057-C	0.0	0.3	Silty topsoil with fine organics
	0.3	1.0	Residual silty sand
	1.0	2.1	Bedrock – HW, friable, weak granodiorite
9058-A	0.0	0.3	Colluvium – silty sand and fine gravel
	0.3	0.9	Colluvium – sandy silty and gravel (till-like)
	0.9	1.6	Residual crs. sand
	1.6	1.9	Broken blocky granodiorite
		1.9	Bedrock – FR, broken, blocky granodiorite

TABLE 2.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9058-B	0.0	0.3	Organics – soft, spongy, wet, fibrous peat
	0.3	0.9	Alluv./colluv.–sandy silt layers w/ sand & rock frags.
	0.9	1.9	Residual crs. sand (reworked, stratified, at top)
	1.9		Bedrock – MW, weak granodiorite
			Permafrost table at 0.3 m under organics
9059-A	0.0	0.1	Organics – mosses and roots
(W. end,	0.1	1.6	Residual sand and gravel
Ch.0-13m)	1.6	2.9	Bedrock – HW, broken, weak granodiorite
(Ch.13-23m)	0.0	0.1	Organics – mosses and roots
	0.1	0.6	Residual sand and silt, some gravel
	0.6	1.7	Broken gneiss rock and residual sand & gravel
	1.7	2.7	Bedrock – broken, hard quartz-rich gneiss
(Ch.23-28m)	0.0	0.1	Organics – mosses and roots
	0.1	1.0	Colluvial sand and gravel, some gneiss rock frags.
	1.0	2.0	Residual sand and gravel, some grano. rock frags.
	2.0	2.9	Bedrock – MW, blocky, sl. broken granodiorite
(Ch.28-42m)	0.0	0.1	Organics – mosses and roots
	0.1	0.9	Colluvium – sand and gravel with rock frags.
	0.9	1.3	Residual sand and gravel
	1.3	1.7	Colluvium – sandy gravel with gneiss rock frags.
	1.7	2.4	Bedrock – broken, brittle gneiss, some sand & grav.
(Ch.42-54m)	0.0	0.1	Organics – mosses and roots w/ silty sand
	0.1	1.7	Colluvium – sandy silt w/ gneiss rock frags. & roots
(Ch.54-130m,	0.0	0.1	Organics – mosses and roots
E. end)	0.1	1.8-2.32	Residual sand and gravel w/ occ. rock frag. zone
	1.8-2.32	3.0	Bedrock – sl. broken granodiorite w/ gneiss zones
9060-A	0.0	0.2	Organics – moss and peat (insulative layer)
	0.2	0.5	Frozen organic-rich topsoil and crs. blocky talus
	0.5	1.3	Frozen residual gravelly sand, some silt
			Permafrost table at 0.2 m under organics
9060-B	0.0	0.1	Organic topsoil
(A.C. log)	0.1	0.9	Colluvium – clay, sand and small rock frags.
	0.9	1.5	Residual, decomposed granodiorite sand
		1.5	Possible bedrock exposure in some areas
9062-A	0.0	0.3	Organic silty topsoil
	0.3	0.7	Colluvial silt with sand and clay
	0.7	1.1	Organic (peat) layer
	1.1	2.2	Residual crs. sand and gravel
	2.2	3.7	HW, weak, friable, crumbly granodiorite rock
		3.7	Bedrock – SW, mod. hard granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9062-B	0.0	0.4	Clayey, silty topsoil
(W. end)	0.4	2.1	Colluvium – gravel & cobbles; and clayey silt, sand
	2.1	3.6	Bedrock – MW, broken, blocky granodiorite
(E. end)	0.0	0.4	Clayey silty topsoil
	0.4	2.1	Colluvium – gravel & cobbles; and clayey silt/sand
	2.1	2.9	Residual crs. sandy fine gravel
	2.9	3.8	Bedrock – MW-HW, badly broken granodiorite
		3.8	Bedrock – MW, broken, blocky granodiorite
9063-A	0.0	0.8	Organic (peat), clay-rich topsoil
	0.8	2.3	Stoney colluvium with sandy silt matrix
	2.3	2.9	Residual sandy silt
		2.9	Bedrock – HW, weak, fine blocky diorite
9063-B	0.0	0.2	Organics (moss) and crs. blocky talus
	0.2	1.0	Frozen, ice-rich sandy silt colluv. with rock frags.
	1.0	2.0	Frozen, ice-rich residual silty sand
			Quartzite bedrock at 0.5 m depth at South end
			Permafrost table at 0.2 m under organics
9074-A	0.0	0.4	Organic soft silts and fresh, blocky talus boulders
	0.4	0.8	Interbedded alluv. sands and silts (reworked colluv.)
	0.8	1.9	Frozen colluvium – cobbly/sandy silt w/ clay
		1.9	Refusal in frozen ground
9074-B	0.0	0.7	Colluvial silty topsoil with organics
	0.7	0.9	Frozen colluvium – clayey silt with sand
	0.9	1.4	Bedrock – SW, broken, blocky Patton porphyry
		1.4	Bedrock – sl. broken, blocky Patton porphyry
9074-C	0.0	0.3	Organic (peat), silty/clayey topsoil
	0.3	1.3	Frozen cobbly colluvium
		1.3	Refusal in hard, frozen colluvium
			Permafrost table at 0.3 m
9076-A	0.0	0.4	Colluvium and blocky talus
	0.4	0.8	Residual silty fine sand
	0.8	4.0	Bedrock – HW, weak, soft, clay alt'n granodiorite
9076-B	0.0	1.4	Colluvium – gravelly sand with silt
	1.4	2.5	Bedrock – HW-EW, v. weak, soft rock / res. sand
9076-C	0.0	0.3	Organic silty topsoil (groundwater table at surface)
	0.3	1.0	Colluvium – silty fine sand with gravel and clay
	1.0	3.0	Residual, HW, altered clayey silty and qtz. frags.
	3.0	3.5	Bedrock – HW, weak, altr'd, crumbly granodiorite
		3.5	Bedrock – MW, mod. hard granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9076-D	0.0	0.5	Sandy topsoil with organics
	0.5	1.7	Frozen, interbedded peat and silty colluvium
	1.7	2.3	Frozen, ice-rich weathered, broken rock frags.
			Permafrost table at 0.4 m
9076-E	0.0	0.5	Colluvium - silty sand with gravel
(S. end,	0.5	3.5	Bedrock - HW-EW, broken, v. weak granodiorite
Ch.0-50m)			Existing trench not frozen, suspect P.F. in area
(N. end,	0.0	0.5	Colluvium - silty sand with gravel
Ch.50-70m)	0.5	1.5	Residual sand and silt
	1.5	2.5	Bedrock - SW, broken, hard granodiorite
9219-C	0.0	0.1	Frozen silty organic topsoil
(A.C. log)	0.1	0.4	Colluvial sand and silt with some rock frags.
	0.4	0.7	Colluvial cobbles with sandy matrix
	0.7	1.4	Bedrock - broken, blocky qtz. monzonite
			Permafrost table near surface
9219-D	0.0	0.3	Silty / sandy topsoil
	0.3	0.6-1.8	Residual sand, some gravel
	0.6-1.8	2.0	Bedrock - MW-HW, friable-blocky oxid. grano.
9219-E	0.0	0.2	Organic sandy (residual) topsoil
(Ch.0-30m)	0.2	1.7	Bedrock - SW, mod. hard, blocky gneiss
(Ch.30-90m,	0.0	0.3	Residual sandy topsoil
E. end)	0.3	1.0	Broken rock with residual gravelly sand
	1.0	1.5	Bedrock - FR, broken, blocky gneiss
9220-A	0.0	1.0	Colluvium - sand and silt with gravel
(Ch.0-15m,		1.0	Bedrock - FR, fine blocky granodiorite
Ch.60-90m)	1.0	1.5	Residual gravelly sand (Ch.5-10m)
(Ch.15-40m,	0.0	0.7	Colluv.-sand & silt w/ grav. (frozen Ch.14-17m)
Ch.44-60m)	0.7	0.8-1.1	Residual sand
		0.8-1.1	Bedrock - SW-FR, blocky, mod. hard granodiorite
(Ch.40-44m)	0.0	0.7	Colluv.-sand & silt w/ gravel
	0.7	1.6	Residual silty sand
9220-B	0.0	0.9	Colluvium - sandy silt with gravel
(Alternating	0.9	1.3	Bedrock - FR, broken, blocky granodiorite
with below)		1.3	Refusal in broken crs. blocky granodiorite bedrock
(Alternating	0.0	0.4	Colluvium - sandy silt with gravel
with above)	0.4	1.3-1.8	Residual fine gravelly sand with silt
		1.3-1.8	Bedrock - FR-SW, hard, blocky granodiorite
(S. end,	0.0	0.6	Colluvium - silty sand w/ gravel and organics
Ch.90-100m)	0.6	1.5	Residual gravelly sand with silt
		1.5	Frozen residual sand w/ occasional bedrock outcrop

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9220-C (E. end, Ch.0-20m)	0.0	1.0	Colluvium - silty sand and gravel; and cobbly bldrs.
	1.0		Bedrock - FR, hard, crs. blocky granodiorite
(Ch.20-50m)	0.0	0.5	Colluvium - silty sand and gravel; and cobbly bldrs.
	0.5		Bedrock - FR, v. crs. blocky granodiorite
			Permafrost table from 0.3-0.5 m
(25m section up from rd.)	0.0	0.7	Colluv.-sandy silt, some grav.; and bldr. rock frags.
	0.7	1.1	Residual silty sand
	1.1	1.6	Bedrock - MW-HW, fine blocky, soft granodiorite
			Permafrost near surface (Ch.0-15m)
9220-D (E. end, Ch.0-15m)	0.0	1.5	Colluv.-sandy silt w/ gravel; and cobble rock frags.
	1.5	2.0	Residual sand and rock blocks
			Permafrost table at 2.0 m
(Ch.15-40m)	0.0	0.8	Colluv.-sandy silt w/ gravel; and cobble rock frags.
	0.8	1.4	Residual gravelly sand
	1.4		Bedrock - HW, broken, friable granodiorite
			Permafrost table at 1.0-1.7 m
(Ch.40-60m; Ch.85-105m)	0.0	1.1	Colluv.-sandy silt w/ gravel; and cobble rock frags.
	1.1	2.2	Residual fine gravelly sand
	2.2		Bedrock - MW-HW, badly broken, granodiorite
(Ch.60-85m)	0.0	1.0	Colluv.-sandy silt w/ gravel; and cobble rock frags.
	1.0	1.5	Residual fine gravelly sand
	1.5	2.0	Frozen, residual gravelly sand
			Permafrost table 1.0-1.5 m
9221-A (N. end, Ch.0-25m)	0.0	0.4	Silty topsoil with organics
	0.4	3.4	Residual sand
	3.4		Bedrock - HW, weak, friable granodiorite
(S. end)	0.0	0.5	Silty colluvial topsoil
	0.5	2.0	Residual fine sand (competent grains)
	2.0		Bedrock - HW, weak, decomposed granodiorite
9221-B (NE. end, Ch.0-20m)	0.0	0.8	Colluvial silty sand w/ gravel and organics
	0.8	1.8	Residual gravelly sand
	1.8		Bedrock - MW, blocky, mod. hard granodiorite
(Ch.20-45m)	0.0	1.0	Colluvium - gravelly sand w/ gravel and organics
			Permafrost table at 1.0 m
(Ch.45-90m, W. end on rd.)	0.0	0.9	Colluvium - silty sand w/ gravel & cobbles
	0.9	1.9	Residual gravelly sand (partially frozen)
	1.9		Bedrock - MW, broken, mod. hard granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9221-C	0.0	0.4	Organic-rich silty colluvium
(E. end,	0.4	1.2	Colluvium - sandy silt w/ cobbles, gravel & clay
Ch.0-30m)	1.2	1.7	Blocky rock and residual sandy gravel
		1.7	Bedrock - FR, v. crs. blocky granodiorite
(Ch.30-100m,	0.0	0.3	Organic-rich silty colluvium
W. end)	0.3	0.9	Colluvium - silty sand w/ grav., cobbles, & boulders
	0.9	1.6	Residual sand and blocky granodiorite rock frags.
			Permafrost table at 1.5 m along 50% (Ch.30-100m)
9222-A	0.0	0.3	Colluvial topsoil with cobble rock frags. & organics
(W. end,	0.3	1.3	Residual sands w/ occasional EW, clay gouge zone
Ch.0-2m)			
(Ch.2-20m;	0.0	1.3	Colluvium - sandy silt and cobbl-bldrs. w/ gravel
Ch.20-30m)		1.3	Bedrock - FR, hard, crs. blocky granodiorite
			Colluvium frozen from Ch.20-30m
(Ch.30-40m)	0.0	0.5	Colluvium - sandy silt and cobbl-bldrs. w/ gravel
	0.5	1.2	Frozen, ice-rich residual sand
			Permafrost table at 0.4 m
(Ch.40-90m,	0.0	1.0	Frozen, ice-rich colluvium - sandy silt w/ grav.,cob
E. end)		1.0	Refusal - permafrost at 0.1 m
9222-C	0.0	0.9	Frozen, ice-rich silty colluvium w/ organic layers
		0.9	Refusal - permafrost at 0.1 m
9222-D	0.0	0.5	Colluvial silty topsoil
(E-W leg,	0.5	1.0-1.2	Residual sand with silt
old trench)	1.0-1.2	1.5	Bedrock - HW, broken, weak granodiorite
(N-S leg,	0.0	0.6	Colluvial silty topsoil with organics
new trench)	0.6	1.0	Residual sand, some gravel
	1.0	1.6	Bedrock - FR, blocky, hard granodiorite
9223-CA	0.0	0.1	Frozen, black humic topsoil
(A.C. log)	0.1	0.6	Colluvium - frozen silt & clay matrix w/ gr.-cobble
	0.6	1.6	Colluv. - frozen, matrix suppt'd qtz. monzo. frags.
			Permafrost near ground surface
9223-CB	0.0	0.1	Saturated black organic topsoil
(A.C. log)	0.1	0.7	Colluv. - frozen sandy matrix w/ qtz. monzo. frags.
	0.7	1.3	Colluvium - sandy, matrix supported
		1.3	Bedrock - blocky qtz. monzonite
			Permafrost near ground surface
9223-D	0.0	0.3	Silty topsoil with organics
(Ch.0-50m)	0.3	0.6	Residual sand
	0.6	1.5	Bedrock - FR, v. crs. blocky, hard granodiorite

TABLE 2.1 (CONT'D)
PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT
SUMMARY OF TEST TRENCH LOGS

TRENCH NO.	DEPTH INTERVAL (m)		MATERIAL DESCRIPTION
	from	to	
9223-D	0.0	0.3	Silty topsoil with organics
(Ch.50-100m)	0.3	1.7	Residual sand with silt
			Bedrock depth range from 0.6-1.7 m (alternating)
9223-E	0.0	0.3	Organic silty topsoil
(E. end,	0.3	1.3	Broken rock frags. with residual silty sand
Ch.0-20m)	1.3	1.6	Bedrock - SW-MW, mod. hard, blocky diorite
(Ch.20-34m,	0.0	0.6-1.0	Colluvium - sandy silt & rock frags., some res. sand
Ch.43-65m)	0.6-1.0	1.5-1.6	Fine blocky, MW, broken diorite (?) rock frags.
		1.5-1.6	Bedrock - MW-HW, blocky, mod. hard diorite (?)
(Ch.34-43m)	0.0	0.9	Colluvium - sandy silt & gravel-cobble rock frags.
	0.9	1.6	Residual gravelly sand
	1.6	1.8	Bedrock - HW, blocky, sheared, weak diorite (?)

Knight Piésold Ltd.
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TABLE 3.1

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY INDEX TEST RESULTS

U:\USER\MDG\1831\LABTST.WK3

TRENCH/ SAMPLE NO.	DATE OF TEST	NATURAL MOISTURE CONTENT (%)	ATTERBERG LIMITS			PARTICLE SIZE ANALYSIS - PERCENT PASSING										MODIFIED PROCTOR LAB DRY DENSITY			MATERIAL DESCRIPTION
			LL %	PL %	PI %	GRAVEL				SAND					SILT	D.D. @ Nat. M/C g/cm³	MAX. D.D. g/cm³	OPT. M/C %	
						1½"	3/4"	3/8"	#4	#8	#16	#30	#50	#100	#200				
GS-1	July 9/93	10.7						96	77	51	28	14	4	2	1				Alluvial sand
SH-1A	July 9/93	20.4	30.2	24.9	5.3														Colluv. grvly silt, some sand
9008-A1	June 20/93	84.1 (F)																	Colluvial sandy silt (frozen)
9008-B1	July 6/93	14.7				98	93	86	76	66	55	44	34	26	21				Residual gravelly sand
9008-B2	June 22/93	9.4 *																	Res. sandy grav. (*m/c on - #4)
9008-C1	July 10/93	19.6				95	89	75	62	52	39	30	23	18	14				Residual sand & gravel
9008-D1	July 8/93	16.8				91	82	76	66	54	41	33	26	22	18				Colluvial silty, gravelly sand
9008-E1	July 8/93	9.9				81	74	68	60	50	38	31	25	20	18				Colluv. sand, some grav., tr. silt
9033-A1	July 5/93	16.8				96	95	94	88	72	56	43	33	26	20				Alluvial sand, some gravel
9034-C1	Aug. 23/93	7.2					99	99	98	83	59	39	25	16	10	2.009	2.045	9.4	Residual sand, tr. silt
9034-D1	Aug. 25/93	6.8						100	95	78	52	31	19	12	7	1.966			Residual sand, tr. grav. & silt
9035-A1	July 8/93	10.2				85	69	55	47	40	32	24	18	15	12				Colluvial gravel & sand
9035-A2	July 5/93	11.4							100	90	62	39	26	16	10	1.916	1.955	11.5	Residual sand, tr. silt
9035-F1	Aug. 24/93	7.4				97	91	82	64	46	31	20	14	9	7				Residual gravelly sand, trace silt
9036-D1	July 21/93	9.1														2.006 *			Colluvial sandy gravel (*+2%)
9036-D2	July 28/93	7.5 *				77	63	46	33	27	20	14	10	8	5	2.173 *			Colluvial sandy grav. (*-3/4")
9036-E1	Aug. 18/93	16.1				98	95	92	86	76	64	56	52	49	46				Colluvial silt & sand
9036-H1	Aug. 18/93	6.4						99	98	92	71	36	16	6	3	1.860	1.925	11.5	Alluvial sand
9036-H2	Aug. 18/93	4.8					90	73	57	40	28	17	8	3	2				Alluvial sand & gravel
9038-A1	July 4/93	15.1	30.8	25.0	5.8	88	65	56	51	44	36	28	22	18	16				Colluvial grav. & sand, some silt

TABLE 3.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY INDEX TEST RESULTS

U:\USER\MDG\1831\LABTST.WK3 07-Jan-94 P.2/6

TRENCH/ SAMPLE NO.	DATE OF TEST	NATURAL MOISTURE CONTENT (%)	ATTERBERG LIMITS			PARTICLE SIZE ANALYSIS - PERCENT PASSING										MODIFIED PROCTOR LAB DRY DENSITY			MATERIAL DESCRIPTION
			LL %	PL %	PI %	GRAVEL 1½"	GRAVEL 3/4"	GRAVEL 3/8"	GRAVEL #4	SAND #8	SAND #16	SAND #30	SAND #50	SAND #100	SILT #200	D.D. @ Nat. M/C g/cm³	MAX. D.D. g/cm³	OPT. M/C %	
9038-A2	July 2/93	8.8				94	77	63	49	42	31	21	14	11	10				Alluvial gravel & sand
9039-A1	July 16/93	10.1				98	95	93	86	70	50	36	28	21	16				Residual sand, some silt & grav.
9039-B1	Aug. 3/93	6.9	32.7	25.1	7.6	92	86	80	64	51	36	27	21	16	12	2.150	2.167	7.8	Residual sand & grav., some silt
9039-C1	Aug. 23/93	6.9					98	89	67	50	33	22	15	10	7	2.105			Residual gravelly sand
9040-A1	July 16/93	7.1				95	88	78	65	56	42	29	27	15	11	2.150	2.160	8.3	Residual sand & grav., some silt
9040-B1	July 29/93	13.8	25.5	21.1	4.4	95	93	90	82	72	62	56	52	48	43				Colluvial silt & sand
9040-B2	July 25/93	6.6				98	87	74	58	47	36	28	24	20	17				Residual sand & gravel
9040-C1	Aug. 18/93	8.2				95	92	87	70	55	41	32	26	21	17	2.141			Res. & coll. grv'ly sand, some silt
9041-E1	July 24/93	10.3	28.0	20.4	7.6	95	88	82	71	60	48	39	33	30	28				Colluvial silty, gravelly sand
9041-E2	July 23/93	8.3	45.0	22.6	22.4														Residual silty, sandy gravel
9041-G1	Aug. 21/93	11.7				96	87	79	71	65	57	49	43	37	32				Residual silty, gravelly sand
9041-H1	Aug. 18/93	8.8	Non-plastic				94	89	77	61	44	34	28	24	21	2.134	2.155	7.8	Residual silty sand
9042-A1	July 16/93	16.4				99	91	83	64	54	42	36	31	27	24				Colluvial silty sand & gravel
9042-A2	July 16/93	8.4					98	94	80	71	52	36	24	16	10	2.099	2.105	7.5	Residual sand, some grav. & silt
9042-B1	Aug. 7/93	34.6				87	79	76	71	64	55	49	45	43	40				Residual gravelly, sandy silt
9042-B2	July 27/93	6.5				97	93	90	80	63	45	32	24	17	13	2.131			Residual sand, gravel & silt
9042-D1	Aug. 19/93	7.3					97	91	78	60	41	28	20	14	11	2.158	2.160	6.9	Residual sand, some grav. tr. silt
9042-D2	Aug. 20/93	7.8				96	84	76	61	47	34	25	18	13	10				Residual sand & gravel
9042-E1	Aug. 21/93	18.2						99	97	93	85	80	77	74	71				Sandy silt (topsoil)
9042-E2	Aug. 23/93	7.6						100	89	67	45	29	19	13	9				Residual sand, tr. fine gravel

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TABLE 3.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY INDEX TEST RESULTS

U:\USER\MDG\1831\LABTST.WK3 07-Jan-94 P.3/6

TRENCH/ SAMPLE NO.	DATE OF TEST	NATURAL MOISTURE CONTENT (%)	ATTERBERG LIMITS			PARTICLE SIZE ANALYSIS - PERCENT PASSING										MODIFIED PROCTOR LAB DRY DENSITY			MATERIAL DESCRIPTION
			LL %	PL %	PI %	GRAVEL				SAND					SILT	D.D. @ Nat. M/C g/cm³	MAX. D.D. g/cm³	OPT. M/C %	
						1½"	3/4"	3/8"	#4	#8	#16	#30	#50	#100	#200				
9042 - F1	Aug. 23/93	8.4					99	98	90	73	53	37	26	19	14	2.098	2.115	8.0	Residual sand, some silt
9043 - C1	Aug. 23/93	6.8						99	94	76	50	34	22	15	10				Residual sand, tr. silt & gravel
9043 - C2	Aug. 23/93	6.3				99	87	74	55	39	27	19	14	10	8				Residual sand & gravel
9043 - D1	July 16/93	8.1					98	90	61	50	36	25	18	12	8				Residual sand & grav., tr. silt
9043 - G1	Aug. 21/93	6.2				96	92	82	66	50	33	22	15	10	7				Residual sand, some gravel
9043 - G2	Aug. 4/93	8.3						89	74	58	41	27	20	15	12	2.071	2.100	7.3	Residual gravelly sand, some silt
9043 - H1	Aug. 23/93	5.2					99	94	78	58	37	22	12	7	4	2.014			Residual sand, some grav. tr. silt
9044 - A1	Aug. 18/93	15.7					92	79	56	41	29	19	13	9	6				Residual sand & gravel, tr. silt
9044 - A2	Aug. 16/93	7.3				86	76	59	45	38	31	26	22	17	13				Residual sandy gravel, tr. silt
9044 - C1	Aug. 13/93	7.1				84	79	72	58	42	28	19	14	10	7				Residual gravel & sand, tr. silt
9044 - D1	Aug. 12/93	10.7	30.6	25.4	5.2	87	82	76	66	56	46	39	34	31	28	2.004	2.128	8.3	Residual gravelly, silty sand
9045 - B1	July 31/93	6.3				99	91	81	66	56	40	26	17	11	8	2.116	2.135	8.5	Residual gravelly sand, tr. silt
9046 - A1	July 16/93	5.5					98	92	84	72	56	38	25	16	11				Residual sand, some grav. & silt
9047 - A1	Aug. 12/93	10.8	39.5	17.0	22.5		100	99	98	92	75	57	43	33	25				Residual silty sand
9047 - A2	Aug. 15/93	6.7				95	85	71	65	43	30	20	14	10	8	2.126	2.142	7.7	Residual sand & gravel, tr. silt
9047 - B1	Aug. 7/93	4.1				96	76	36	14	8	5	3	2	2	2				Residual gravel, some sand
9047 - B2	Aug. 8/93	11.0					97	93	86	68	49	37	28	21	15				Residual sand, some silt
9047 - B3	Aug. 10/93	6.6					99	89	67	47	30	20	14	11	8	2.139	2.150	7.6	Residual gravelly sand, tr. silt
9050 - A1	June 16/93	18.8	30.6	21.4	9.2														Colluvial silty sand, some gravel
9051 - A1	July 8/93	14.4				97	94	91	85	78	67	57	49	42	36				Colluvial silty sand, some gravel

Knight Piésold Ltd.
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TABLE 3.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY INDEX TEST RESULTS

U:\USER\MDG\1831\LABTST.WK3

TRENCH/ SAMPLE NO.	DATE OF TEST	NATURAL MOISTURE CONTENT (%)	ATTERBERG LIMITS			PARTICLE SIZE ANALYSIS - PERCENT PASSING										MODIFIED PROCTOR LAB DRY DENSITY			MATERIAL DESCRIPTION
			LL %	PL %	PI %	GRAVEL				SAND					SILT	D.D. @ Nat. M/C g/cm³	MAX. D.D. g/cm³	OPT. M/C %	
						1½"	3/4"	3/8"	#4	#8	#16	#30	#50	#100	#200				
9051 - C1	July 9/93	11.2				79	71	62	55	50	45	40	36	33	30				Colluvial gravel & sandy silt
9052 - A1	July 8/93	5.4				97	78	63	50	41	31	23	17	12	8				Residual gravel & sand, tr. silt
9052 - A1*	Aug. 7/93	7.6					97	92	83	74	62	50	39	27	19	2.091	2.100	8.2	Res. sand, slt & gr. (*resample)
9052 - B1	July 31/93	6.4	23.6	23.2	0.4	98	98	94	79	62	42	26	17	11	8	2.134	2.140	7.5	Residual gravelly sand, tr. silt
9053 - A1	July 5/93	15.6	37.4	26.1	11.3	96	94	85	66	51	35	24	18	14	12				Residual gravelly sand, some silt
9053 - B1	June 24/93	27.6	31.3	25.4	5.9														Colluv. sandy silt & cl. (matrix)
9053 - B2	June 24/93	21.4 *	28.9	22.2	6.7														Colluv. sandy silt & cl. (* - #4)
9053 - C1	June 23/93	17.3	29.5	26.9	2.6		98	93	87	84	80	78	75	72	67				Lacustrine sandy silt, tr. gravel
9053 - C2	July 9/93	8.7	17.3	16.2	1.1	90	75	63	51	43	36	31	28	25	23				Grav., some sandy silt (till-like)
9053 - D1	July 27/93	13.7	25.0	20.6	4.4	95	86	77	64	58	49	42	38	35	32				Colluvial silty sand & gravel
9053 - D2	July 5/93	13.3					100	92	69	58	44	32	24	17	12				Residual gravelly sand, some silt
9053 - E1	July 2/93	15.5	27.7	21.7	6.0	91	82	73	58	49	38	30	23	18	14				Colluvial gravelly sand, some silt
9053 - E2	June 26/93	12.9	Non- plastic																Coll. silty sand & grav. (till-like
9056 - A1	June 18/93	10.2																	Residual sand
9056 - A2	June 18/93	24.8 (F)																	Residual gravelly sand (frozen)
9056 - C1	July 1/93	16.0	30.7	21.2	9.5	86	79	75	71	63	50	38	30	23	20				Colluvial grv'ly sand, some silt
9056 - C2	July 2/93	15.3				98	95	85	66	57	42	30	22	18	15				Residual gravelly sand, some silt
9057 - A1	Aug. 5/93	7.1					100	97	84	68	48	33	24	17	12	2.114	2.130	7.8	Res. sand, some fn. gravel & silt
9057 - A2	Aug. 4/93	9.3					98	91	76	65	48	34	25	19	16				Residual gravelly sand, some silt
9057 - A3	Aug. 5/93	9.0							97	83	63	46	33	24	17				Residual sand, some silt

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TABLE 3.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY INDEX TEST RESULTS

U:\USER\MDG\1831\LABTST.WK3 07-Jan-94 P.5/6

TRENCH/ SAMPLE NO.	DATE OF TEST	NATURAL MOISTURE CONTENT (%)	ATTERBERG LIMITS			PARTICLE SIZE ANALYSIS - PERCENT PASSING										MODIFIED PROCTOR LAB DRY DENSITY			MATERIAL DESCRIPTION
			LL %	PL %	PI %	GRAVEL 1½"	GRAVEL 3/4"	GRAVEL 3/8"	GRAVEL #4	SAND #8	SAND #16	SAND #30	SAND #50	SAND #100	SILT #200	D.D. @ Nat. M/C g/cm³	MAX. D.D. g/cm³	OPT. M/C %	
9057-A4	Aug. 5/93	5.4					98	93	71	50	34	24	17	12	8				Residual gravelly sand, tr. silt
9057-B1	Aug. 22/93	11.6					99	98	97	91	74	59	45	35	30				Residual silty sand
9057-B2	Aug. 18/93	7.2						100	96	84	62	44	31	24	18	2.132	2.135	7.6	Residual sand, some silt, tr. grav
9058-A1	July 5/93	11.2						96	79	63	40	25	16	11	8	2.056	2.090	9.2	Residual sand, some fn. gravel
9058-B1	June 12/93	24.0 (F)																	Colluvial sandy silt (frozen)
9058-B2	July 9/93	19.1	Non-plastic					100	96	76	50	33	22	14	10				Residual sand, tr. grav. & silt
9059-A1	July 31/93	9.4					96	84	68	59	44	30	20	12	8	2.076	2.090	10.0	Residual gravelly sand, tr. silt
9059-A1*	Aug. 1/93	9.3						99	95	86	71	54	38	25	17				* (after compaction test)
9060-A1A	July 8/93	25.1 (F)																	Res. grvl'y sand, sm. silt (frozen)
9060-A1B	July 8/93	18.1																	Residual grvl'y sand, sm. silt
9062-A1	Aug. 18/93	10.0					99	96	80	61	41	28	20	14	10	2.057	2.110	9.5	Res. sand, some gravel, tr. silt
9062-B1	July 8/93	9.1				97	95	87	70	52	36	26	19	15	12				Residual grv'ly sand, some silt
9063-A1	June 18/93	13.7					95	89	81	75	66	57	49	43	38				Coll. sand/silt, sm. grav. (matrix)
9063-A2	June 20/93	22.9																	Residual sandy silt, tr.-sm. clay
9074-A1	July 4/93	14.5	20.5	16.4	4.1	95	88	80	70	66	59	51	42	36	32				Colluvial silty sand (matrix)
9076-B1	June 30/93	14.3					98	85	72	64	53	44	38	34	31				Colluvial grv'ly sand, some silt
9076-C1	July 2/93	15.5	28.2	22.6	5.6	96	88	82	72	62	53	44	37	31	28				Colluvial silty grv'ly sand
9076-C2	July 3/93	13.3	45.6	22.4	23.2		99	96	71	56	43	33	27	23	20				Residual sand, some grav. & silt
9076-E1	July 3/93	17.3				99	98	96	88	84	78	68	54	39	25				Residual sand, some silt
9219-D1	Sept. 27/93	8.1						98	87	68	44	26	15	9	5	2.000	2.040	10.0	Residual sand, some grav., tr. silt

Knight Piésold Ltd.
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TABLE 3.1 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY INDEX TEST RESULTS

U:\USER\MDG\1831\LABTST.WK3 07-Jan-94 P. 6/6

TRENCH/ SAMPLE NO.	DATE OF TEST	NATURAL MOISTURE CONTENT (%)	ATTERBERG LIMITS			PARTICLE SIZE ANALYSIS - PERCENT PASSING										MODIFIED PROCTOR LAB DRY DENSITY			MATERIAL DESCRIPTION
			LL %	PL %	PI %	GRAVEL 1½"	GRAVEL 3/4"	GRAVEL 3/8"	GRAVEL #4	SAND #8	SAND #16	SAND #30	SAND #50	SAND #100	SILT #200	D.D. @ Nat. M/C g/cm³	MAX. D.D. g/cm³	OPT. M/C %	
9219-E1	Sept. 27/93	11.8																	Residual sandy topsoil
9220-A1	Sept. 20/93	8.1					95	80	59	46	31	20	14	11	9				Residual sand & grav., tr. silt
9220-A2	Sept. 20/93	10.6																	Residual silty sand
9220-B1	Sept. 21/93	9.0						98	84	64	42	28	18	11	8	2.077	2.098	7.9	Residual sand, some grav., tr. silt
9220-D1	Sept. 29/93	9.2				98	96	89	75	62	47	36	29	24	20				Colluvial grv'ly sand, some silt
9220-D2	Sept. 28/93	5.0						96	76	53	32	19	12	8	5	1.995	2.060	9.2	Residual gravelly sand
9221-A1	Sept. 21/93	8.8						100	97	88	63	42	28	16	8	1.907	1.960	11.3	Residual sand, tr. silt & v.f. grav.
9221-B1	Sept. 21/93	5.0						96	76	52	31	19	12	8	5				Residual sand, some grav., tr. silt
9222-A1	Sept. 20/93	9.0					100	95	84	68	47	32	21	13	9				Residual sand, some grav., tr. silt
9222-A2	Sept. 20/93	43.7 (F)																	Colluvial sandy silt (frozen)
9222-D1	Sept. 21/93	7.0						98	90	73	45	28	18	12	8	2.002	2.072	9.0	Residual sand, tr. fn. grav. & silt
9222-D2	Sept. 21/93	16.7																	Colluvial silty topsoil (matrix)
9223-D1	Sept. 27/93	9.2														2.034			Residual fine gravelly sand
9223-E1	Sept. 27/93	12.4				83	65	54	45	41	36	32	28	24	22				Colluvial grav. & sand, some silt
9223-E2	Sept. 27/93	7.4					99	94	80	65	45	32	23	18	14	2.117			Residual gravelly sand, some silt

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TABLE 3.2

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY PERMEABILITY TEST RESULTS

U:\USER\MDG\1831\TBL32.WK3 22 - Dec - 93

SAMPLE / TRIAL NO.	SOIL TYPE	PERMEABILITY (cm/sec)	COMMENTS
9034-C1	Residual silty sand	2.0E-06	Natural moisture content, 50% compactive effort
9034-C1	Residual silty sand	2.0E-06	Natural moisture content, 35% compactive effort
9035-A2	Residual sand (competent)	3.5E-06	Natural moisture content, 100% compactive effort
9036-E1	Colluvial silty topsoil	5.6E-09	Natural moisture content, 100% compactive effort
9036-H1	Alluvial sand (competent)	3.1E-05	Natural moisture content, 100% compactive effort
9041-H1	Residual sand & f. gr. colluvium	7.0E-09	Natural moisture content, 100% compactive effort
9042-A2	Residual sand	1.9E-07	Natural moisture content, 100% compactive effort
9042-D1	Residual gravelly sand	1.6E-09	Natural moisture content, 100% compactive effort
9042-F1	Residual sand, some gravel & silt	6.8E-09	Natural moisture content, 100% compactive effort
9042-F1	Residual sand, some gravel & silt	2.7E-07	Natural moisture content, 25% compactive effort
9044-D1 (1)	Fine grained silty / sandy colluvium	3.8E-09	Natural moisture content, 100% compactive effort
9044-D1 (2)	Fine grained silty / sandy colluvium	5.9E-09	Natural moisture content, 100% compactive effort
9046-A1	Residual sand	1.1E-08	Natural moisture content, 100% compactive effort
9047-A2	Residual gravelly sand	1.2E-09	Natural moisture content, 100% compactive effort
9047-B3	Residual sands, gravels and silts	4.4E-08	Natural moisture content, 100% compactive effort

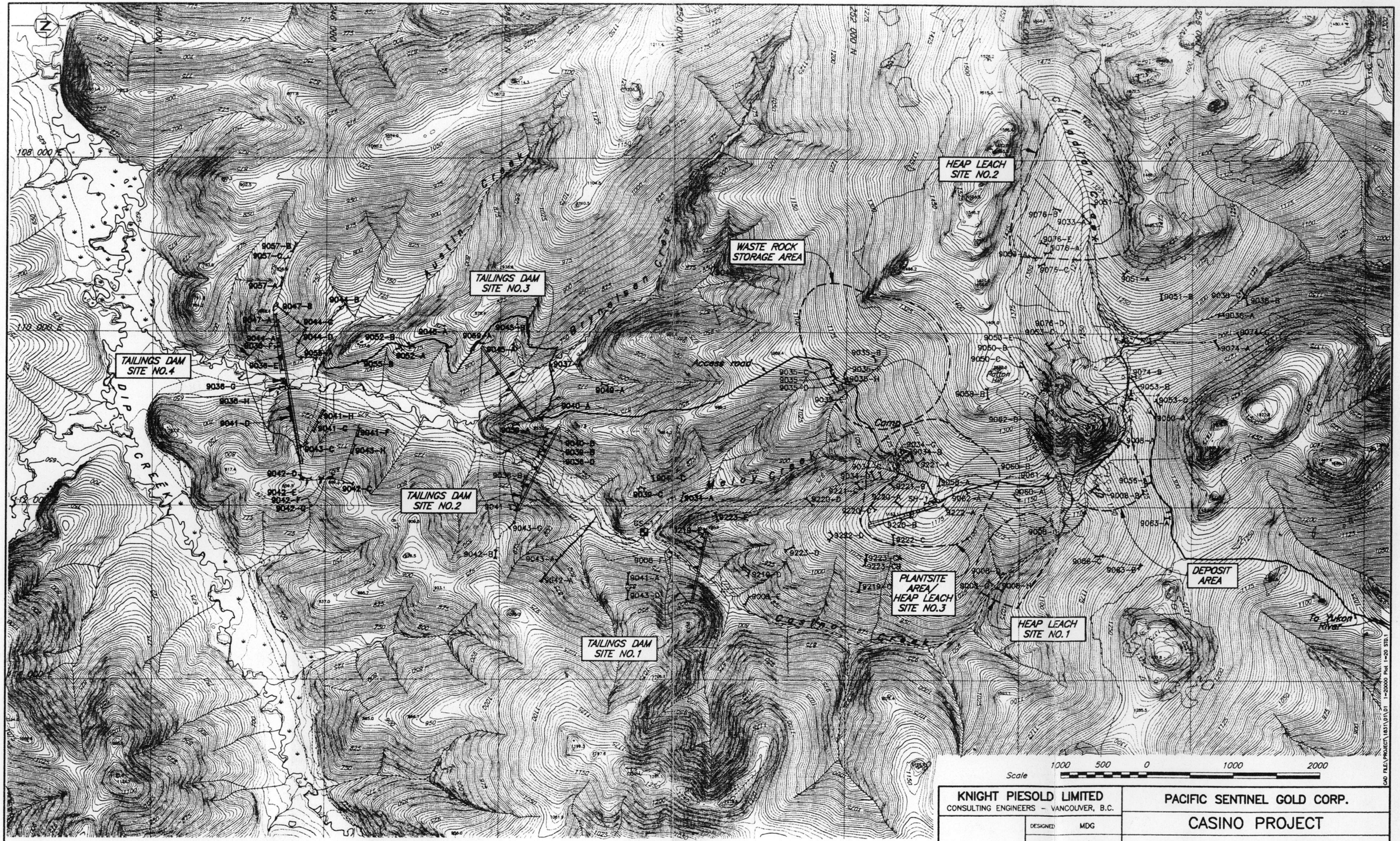
TABLE 3.2 (CONT'D)

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

SUMMARY OF LABORATORY PERMEABILITY TEST RESULTS

U:\USER\MDG\1831\TBL32.WK3 22-Dec-93

SAMPLE / TRIAL NO.	SOIL TYPE	PERMEABILITY (cm/sec)	COMMENTS
9052-B1	Residual sand	6.5E-07	Natural moisture content, 100% compactive effort
9052-B1	Residual sand	8.6E-06	4% below natural moisture content, 100% compaction
9052-B1	Residual sand	1.8E-09	3% above natural moisture content, 100% compaction
9052-B1 (1)	Residual sand	2.7E-06	Nat. moisture, 45% compaction (91% max. dry density)
9052-B1 (2)	Residual sand	1.6E-06	Nat. moisture, 45% compaction (93% max. dry density)
9057-A1	Residual sand, some gravel and silt	1.3E-07	Natural moisture content, 50% compactive effort
9057-B2	Residual silty sand	1.6E-09	Natural moisture content, 100% compactive effort
9058-A1	Residual sand	2.0E-08	Natural moisture content, 100% compactive effort
9059-A1	Residual sand	5.8E-08	Natural moisture content, 100% compactive effort
9062-A1	Residual gravelly sand, some silt	1.3E-08	Nat. moisture, 50% compaction (94% max. dry density)
9219-D1	Residual sand, some fine gravel	6.6E-07	Natural moisture content, 100% compactive effort
9220-B1	Residual sand	4.4E-08	Natural moisture content, 50% compactive effort
9222-D1	Residual sand, some gravel	1.9E-06	Natural moisture content, 50% compactive effort



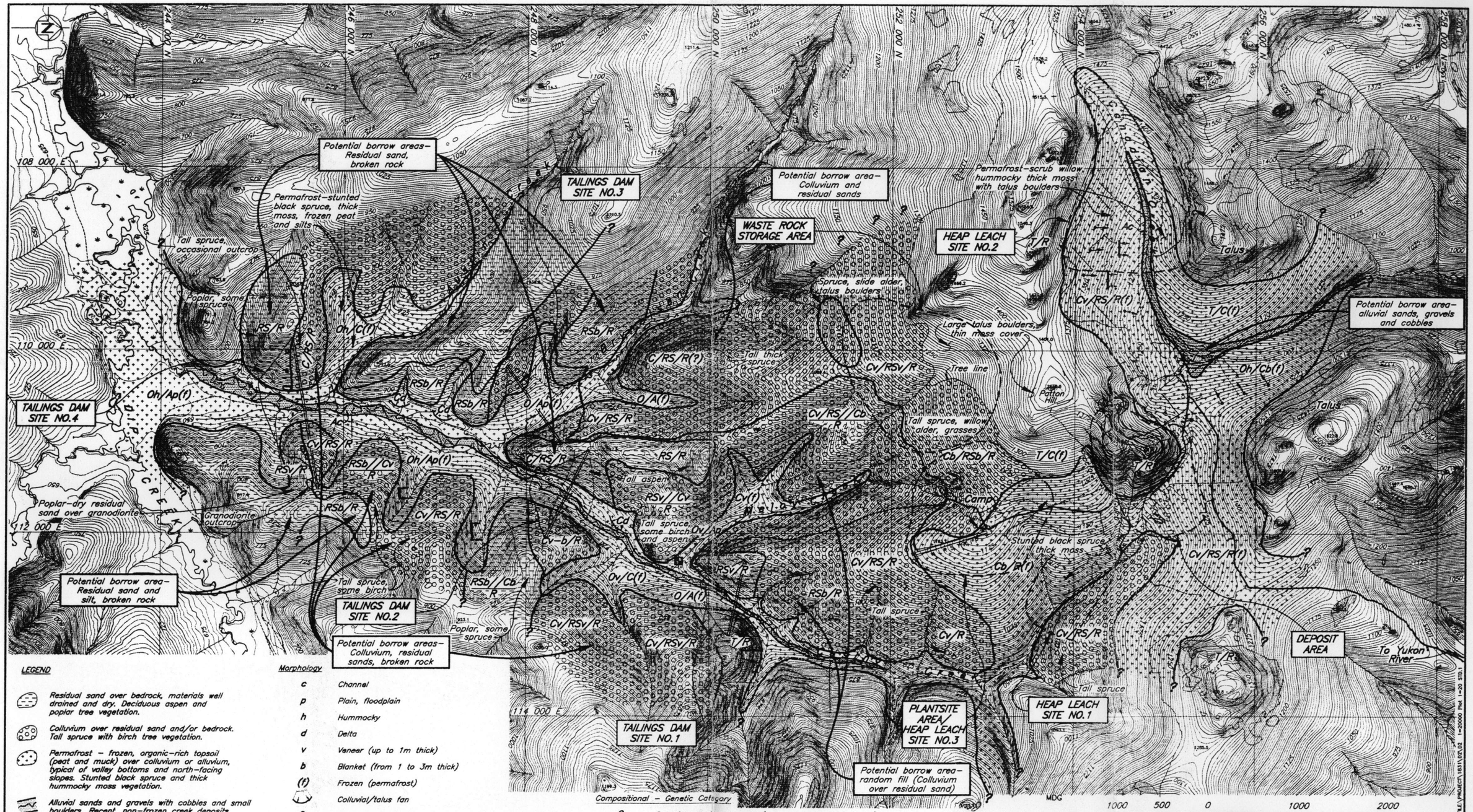
KNIGHT PIESOLD LIMITED CONSULTING ENGINEERS – VANCOUVER, B.C.	PACIFIC SENTINEL GOLD CORP.
	CASINO PROJECT
DESIGNED MDG DRAWN WAL/NSD CHECKED APPROVED	GEOTECHNICAL INVESTIGATIONS TEST TRENCH LOCATIONS
DATE MAR. 11, 1994	SCALE AS SHOWN
DRG. NO. 1831.101	REV. O

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	APPROVED
REVISIONS			

REV.	DATE	DESCRIPTION	APPROVED
REVISIONS			

CAD FILE\PROJECTS\1831\01\01 1=20000 Plot 1=20 STD.1



LEGEND

- Residual sand over bedrock, materials well drained and dry. Deciduous aspen and poplar tree vegetation.
- Colluvium over residual sand and/or bedrock. Tall spruce with birch tree vegetation.
- Permafrost – frozen, organic–rich topsoil (peat and muck) over colluvium or alluvium, typical of valley bottoms and north–facing slopes. Stunted black spruce and thick hummocky moss vegetation.
- Alluvial sands and gravels with cobbles and small boulders. Recent, non–frozen creek deposits.
- Tree line (approximate)
- Surficial materials / vegetation contact (approximate)
- Exploration access road (major)
- Exploration access trails (minor)

Morphology

c	Channel
p	Plain, floodplain
h	Hummocky
d	Delta
v	Veneer (up to 1m thick)
b	Blanket (from 1 to 3m thick)
(f)	Frozen (permafrost)
	Colluvial/talus fan
	Bedrock outcrop
	Solifluction (annual thaw down–slope creep)
	Down–slope striping (annual thaw channel erosion)

e.g.1 Cv/RS/R(f) — Veneer of colluvium over residual soil over bedrock, frozen (permafrost)

e.g.2 Cv/RS//Cb R — Veneer of colluvium over residual soil over bedrock (major); or a blanket of colluvium over bedrock (minor)

Compositional – Genetic Category

O	Organics: peat and muck (frozen in permafrost areas)
T	Talus: coarse, blocky broken rock.
C	Colluvium: various materials (silty sand and gravel with rock frags)
A	Alluvium: gravel, sand and silt with cobbles (stratified)
RS	Residual soil: in–situ, weathered, weak sandy material
R	Bedrock

DRG. NO.	DESCRIPTION	REV.	DATE	DESCRIPTION	APPROVED	REV.	DATE	DESCRIPTION	APPROVED
REFERENCE DRAWINGS		REVISIONS				REVISIONS			

KNIGHT PIESOLD LIMITED
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PACIFIC SENTINEL GOLD CORP.

CASINO PROJECT

GEOTECHNICAL INVESTIGATIONS SURFICIAL MATERIALS AND TERRAIN ANALYSIS MAP

DESIGNED	MDG
DRAWN	WAL./NSD
CHECKED	
APPROVED	

DATE MAR. 11, 1994 | SCALE AS SHOWN | DRG. NO. 1831.102 | REV. 0

CAD FILE: PROJECT\1831\02\02 1=20000 Plot 1=20 STD.1

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APPENDIX 11B
c. 1

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

REPORT ON
PRELIMINARY SURFICIAL GEOTECHNICAL INVESTIGATIONS
(REF. NO. 1831/1)

VOLUME II OF II
APPENDICES

MARCH, 1994

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PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

REPORT ON
PRELIMINARY SURFICIAL GEOTECHNICAL INVESTIGATIONS
(REF. NO. 1831/1)

VOLUME II OF II
APPENDICES

"THIS REPORT HAS BEEN PREPARED EXCLUSIVELY FOR PACIFIC SENTINEL GOLD CORP. NO THIRD PARTY SHALL BE ENTITLED TO RELY ON ANY OF THE INFORMATION, CONCLUSIONS, OPINIONS OR ANY OTHER MATTER CONTAINED IN THIS REPORT".

Association of Consulting Engineers of Canada
Association des Ingénieurs-Conseils du Canada

PACIFIC SENTINEL GOLD CORP.
CASINO PROJECT

REPORT ON
PRELIMINARY SURFICIAL GEOTECHNICAL INVESTIGATIONS
(REF. NO. 1831/1)

VOLUME II OF II
APPENDICES

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Appendix A Geotechnical Test Trench Logs

Association of Consulting Engineers of Canada
Association des Ingénieurs-Conseils du Canada

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. SH-1
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
CATION OF TEST PIT 20m S of Core Shack
GROUND ELEVATION
DATE June 15/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Very easy digging w/ Hitachi UH09LC backhoe. Pit dug for new outhouse. ∴ terminated at 2.4m. Dry pit. Non-frozen.	0 SH-1-A. 0.7 1 2 2.4 3		0-0.7m SILTY (TILL-LIKE) COLLUVIUM Brown, firm, moist v.f. gravelly SILT w/ trace-some v.f. sand and clay. Poorly sorted, well graded. Contains occasional nodule of orange (residual) sandy clay - likely from residual, weathered soil. → Fine grained brown silty till-like colluvium. Angular gravel clasts to 1cm dia. Matrix supported. Est. low perm. Slightly plastic & sticky. Trace fine organics (roots). Non-frozen. 0.7-2.4m RESIDUAL, WEATHERED GRAVELLY SAND. Orange, dense, slightly moist fine gravelly SAND w/ some silt and clay → residual (weathered), decomposed rock ie. residual soil. Mat'l also contains occasional cobble size (10cm dia.) angular hard slightly weathered granodiorite rock fragment. Appreciable fines content, est. mod. low permeability. Non-frozen. Note: Loose, crumbly cream-grey colour granular gouge-like mat'l at end of pit. Comprises clayey fine-crs. SAND → GRANULAR FAULT / SHEAR GOUGE

KNIGHT AND PIESOLD LTD.
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TEST PIT LOG

TEST PIT No. 9008-A
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 20, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very hard digging in frozen (permafrost) material. Trench walls melting and becoming very unstable as mat'l thaws to soupy mess. Permafrost table at approx. 0.45m. Materials below frozen and hard. Ice lensing prominent in both materials (esp. in finer grained silty sands and sandy silts). Occasional ice lense up to 5cm thick.	0 0.25 Permafrost Table 9008-A1 (frozen) 1 2 2.5 Bottom 3		MOSS / PEAT VEGETATION Thick moss over matted spongy fibrous, wet black peat. 0.25-0.9 GREY, FROZEN FINE GRAINED COLLUVIUM Grey very fine sandy SILT with trace-some clay. Ice-rich. Est. excess ice comprises 50-60% by volume as 1cm thick lenses spaced 2mm-5mm. Mat'l is frozen & very hard. Ice is well bonded to soil particles. Highly frost susceptible. 0.9 0.9-2.5m FROZEN RESIDUAL SILTY SAND Orange-brown (oxidized, weathered) residual silty SAND with some fine gravel. Mat'l frozen and contains abundant ice lenses (Est. 50% excess ice by volume). Residual mat'l coarsens with depth to fine gravelly SAND. Decrease in ice lensing. Est. 30% excess ice by volume. Mat'l is frozen and v. hard.

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TEST PIT LOG

TEST PIT No. 9008-B
SHEET 1 of 3

PROJECT CASINO. — N. END OF TRENCH
LOCATION OF TEST PIT
DATE JUNE 18, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in old (existing) trench. *No evidence of previous ice lensing in any materials therefore suspect trench was originally excavated in unfrozen ground. Trench is dry. Gravelly & sandy materials are free draining est. mod. high permeability.	0 0.5 1 9008-B1 2 3 3.7 4		0-0.1 ORGANICS & MOSSES with abundant roots. Deciduous (willow) vegetation suggests no permafrost. 0.1-0.5 GRAVELLY SAND (COLLUVIUM) Light brown-tan fine gravelly SAND with trace silt and fine organics (roots) → Recent colluvium (?). Loose, dry. No evidence of previous ice lensing. 0.5-3.7 RESIDUAL GRAVELLY SANDS. Orange-brown (oxidized, weathered), medium dense gravelly SAND with trace silt. Occasional small cobble Material is moist but not frozen. Sand is well graded. but poorly sorted. Occasional band of heavily weathered and stained mat'l. Some cobbly zones. Residual (weathered in place) sand. Coarsening at base to sand and gravel. Gravel is heavily weathered, weak and crumbly. Very dense at base but no cohesion. 3.7-4.5 COARSE COLLUVIAL SANDS & GRAVELS Moderate-heavily weathered, iron stained cobbly SAND and GRAVEL. Medium dense, dry. Stoney looking material. Clasts are angular and generally weak. (R1-R2), moderately weathered. Some clasts mod. hard quartz monzonite w/ limonite / hematite staining. Polylithic clasts

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9008-B
SHEET 2 of 3

PROJECT CASINO - N. END OF TRENCH
LOCATION OF TEST PIT
DATE JUNE 18, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	4		of quartz monzonite, granodiorite, quartzite. Material looks like residually weathered and transported (colluvium). Sands derived from weathering of bedrock.
	4.5	Bottom	This cobbly unit pinches out to the south and is locally underlain by finer grained RESIDUAL SAND & GRAVEL w/ some cobbles.
	5		* Coarse grained residual / colluvial sands and gravels provide an excellent source of free draining random or structural fill. Est < 3% fines, some cobbles to 10 cm dia.

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9008-B
SHEET 3 of 3

PROJECT CASINO - S. END OF TRENCH
LOCATION OF TEST PIT
DATE June 15, 1993

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.6m TOPSOIL / COLLUVIUM Grey-brown sandy SILT and GRAVEL with some fine angular cobbles and trace organics. Mod. well graded.
	0.6		0.6-1.9m RESIDUAL WEATHERED SANDY GRAVELS Orange-brown, moderately weathered and heavily iron stained sandy GRAVEL. Approx. 50% coarse angular gravels. Some cobbles up to 10 cm dia — competent. Gravel is moderately hard derived from weathered broken bedrock. Mat'l is predominantly clast supported, dense, dry and free draining.
	1		
	9008-B2		
Trench bottomed in residual sandy gravels.	L9 2	Bottom	*Excellent crs. granular fill. Weak and slightly decomposed nature of residual gravels may not be suitable for use as concrete aggregate.

Note: FRACTURED, WEAK QTZ. MONZONITE
Mid-way along trench approx. 2m at 2m depth of Moderately weathered and weak, well jointed QUARTZ MONZONITE BEDROCK. Joints are random, steeply oriented, sub-planar and rough.

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9008-C
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 7, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fresh trench adjacent to Casino Ck. stripped approx. 1.5 weeks prior to excavation NOT FROZEN Very easy digging in all materials Groundwater table at 1.35m. seepage face in HW granodiorite bedrock. (Estimate 2 US gpm per m^2 flowing into trench).	0 0.35 9008-C1 0.85 1 (non-frozen) 1.35 2 2.9 3 4	HW, WEAK, FRIABLE GRANODIORITE BEDROCK Bottom ?	Surface: Thick moss, assorted willows, scrub & tall black spruce trees up to 30 ft. high. Tall willows. 0-0.35m FINE GRAINED COLLUVIUM Brown silty SAND and FINE GRAVEL with trace clay. Material is loose, v. moist. Gravel varies from 1-3 cm dia, sub-angular and comprises hard quartz monzonite & granodiorite. 0.35-1.35m HEAVILY WEATHERED, LOOSE RESIDUAL SANDS. 0.35-0.85m SILTY SAND, some FINE GRAVEL Orange (limonite oxidation) silty SAND w/ some fine gravel, trace clay and occasional small cobble. Material is loose, wet (high saturation), well graded. → HW residual soil derived from heavy in-situ weathering of granodiorite bedrock. 0.85-1.35m GRAVELLY SAND, some SILT Orange v. fine gravelly well graded SAND with some silt. Medium grained, loose granular material. Moderately free draining, wet. 1.35-2.9m HW, SOFT GRANODIORITE BEDROCK Heavily weathered, soft, friable, very weak, heavily oxidized granodiorite bedrock. Rock is very well fractured & weak (RQD) can easily break with fingers. Crs. grained granular texture preserved. Iron oxidation (limonite/hematite) pervasive throughout rock. No alteration apparent. ...(cont'd)

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 7006-C
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE July 7, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL ...(cont'd)
Hitachi backhoe UH09LC			Occasional outcrop of more competent, blocky, moderate - heavily weathered granodiorite bedrock. Estimate hardness R1-R2. Rock is well fractured & blocky with prominent, well developed planar rough joints. Joints are stained w/ limonite and are wet. Spaced 10-15 cm. Orientations: 1. 026/40 NW 2. 120/72 SW 3. 108/38 S

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9008-D
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JULY 8, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fresh trench stripped approx. 1.5 week: prior to excavation NOT FROZEN * very easy digging in loose - med. dense surficial alluvium and colluvium to 1.6 m depth. Groundwater table at approx. 1.6 m depth near bedrock contact. (approx. creek elev.). Refusal at 1.6m in very hard, fresh GRANODIORITE BEDROCK.	0 Cobble lag 9008-D1 1 (non-frozen) 1.6 2	FR	Surface: Assorted willows, thick moss and occasional tall black spruce vegetation. 0-0.6 m FLUVIAL SILTS, SANDS and PEAT Interbedded grey clayey SILT and orange-brown (oxidized) v. fn. gravelly SAND. Trace fine organics (roots) throughout. Material is firm, v. moist, well sorted and stratified. Also occasional thin layer of black soft peat. 0.6 Estimate: Clayey silt 70% Sand 20% Peat 10% Stratified interbeds from 1-5 cm thick. ⇒ Fluvial, overbank, low energy intermittent flood type deposit. Cobble lag at base. 0.6 - 1.6 m COLLUVIAL SILTY / GRAVELLY SAND Brown, massive, loose - med. dense, well graded silty / gravelly SAND with some angular cobbles and trace - some clay. Material is v. moist - wet, poorly sorted, derived from heavily weathered residual soil transported downslope ⇒ COLLUVIUM * Potential source of low permeability, strong fill if allowed to drain & dry. 1.6 m FRESH, HARD GRANODIORITE BEDROCK Very hard, competent, fresh, crs. gr. Granodiorite Bedrock. Bottom of Trench at 1.6 m. * Note: Occasional patch of permafrost in colluvium (est. < 5% of trench). Easy excavation to bedrock.

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TEST PIT LOG

TEST PIT No. 9008-E
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT W. END (E. END FROZEN)*
DATE JULY 9, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy digging in surficial colluvium.	0 0.3 0.8		0-0.3m Thick moss, tall spruce trees & willows. Abundant roots. Excellent insulating blanket. 0.3-0.8m FINE GRAINED, OXIDIZED COLLUVIUM Brown, medium dense, v. moist-wet silty SAND with some gravel and occasional small cobble. Material is well graded. Clasts range from 2-8 cm dia, are sub-angular and comprise hard, competent f.grained granodiorite. Some stratification at base of unit.
	9008-E1 1		0.8-1.8m COARSE GR. COLLUVIUM Brown, loose, wet well graded SAND with some gravel and trace silt. Material is poorly sorted, well drained. Estimate high in-situ permeability. Clasts comprise hard orange (quartzite ?) angular frags. from 2-5 cm dia. → colluvium.
Permafrost at 1.4m. Mat'l is very hard. Only trace ice visible.	Permafrost table. 1.4		Colluvium frozen at 1.4m. Estimate excess ice 20% by volume but only trace ice visible. Estimate high total moisture content
Trench walls sloughing and flowing in below 1.4 m in thawing permafrost.	2		
Bottom of trench is soft and saturated - quicksand-like.			
Difficult digging at 1.4 m. Refusal at 1.8 m.	1.8	Refusal	

* Note: East end of trench frozen at surface under moss blanket. Melt depth approx. 0.2-0.3 m in 2 weeks after being stripped. Surficial material is brown, saturated silty SAND. Material is saturated and flowing down hill. Surficial organics soft & saturated.

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TEST PIT LOG

TEST PIT No. 4003-F
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT HOLES AT N. & E. END OF TRENCH
GROUND ELEVATION
DATE JULY 9, 1993.
LOGGED BY NIDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy digging in v. crs. grained FLUVIAL COBBLY GRAVELS & SANDS. Test pits not frozen. Hoe operator estimates total depth of pit at 10 ft. t. Groundwater table at 1m. Water flowing into pit as fast as can dig. Gdw. elev. at approx. creek elev.	0 ▽ 1 2 3		0-1m+ FLUVIAL (CHANNEL) COBBLY GRAVEL AND SAND w/ BOULDERS. Cobbly gravel and sand with some small boulders → Very crs. grained fluvial (channel type) deposit. Clasts are sub-rounded, ranging from a few cm to 0.4 m dia, and are comprised on very hard, competent granodiorite. Material is very clean - no fines. Estimate very high permeability. Mat'l. is well drained. * Potential good source of v. crs. grained, strong fill. Estimate 20% small boulders, 30% sand, 30% gravel, 20% cobbles. Approx. depth of Test Pit.

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TEST PIT LOG

TEST PIT No. 93-G
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE JULY 10, 1993

PROJECT No. 1651
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench frozen. Small creek running down trench due to melting ice. Estimate 5 gpm flow. Trench walls very unstable during thawing due to high m/c.	0 Permafrost table 0.2 0.5 Refusal 1		Suitace: Thick moss, willows and spruce scrub black spruce up to 20 ft. high → characteristic of entire west slope (permafrost). 0-0.2m ORGANICS Thick moss and black peat. Peat material is saturated, fibrous and spongy. 0.2-0.5m COLLUVIUM & BROKEN ROCK FRAGMENTS Brown, loose, wet fine gravelly SAND with trace to some silt (~70%) and hard, sub-angular rock fragments (~30%). Also some thin black peat lenses. Rock frags. comprise hard, mod. weathered granodiorite and vary from few cm's to 10 cm dia. Trace organics throughout material. Material is highly saturated and unstable during thawing. Bedrock likely near surface due to steep topography and predominance of angular granodiorite rock fragments.

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TEST PIT LOG

TEST PIT No. 9008-H
SHEET 1 of 4

PROJECT CASINO
LOCATION OF TEST PIT EAST END (HEAD) OF TRENCH
DATE JULY 10, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench not frozen. Walls very moist but fairly stable. Easy digging in Colluvium and residual gravelly sands.	0 0.1 0.5 1 1.6 2	FR GRANO-DIORITE	Surface: Tall poplar, aspen, willows and spruce. Thin moss cover. 0-0.1m Thin MOSS / ORGANIC TOPSOIL 0.1-0.5m FINE GRAINED COLLUVIUM Brown, very moist, loose silty fine gravelly SAND with trace clay and organics. Abundant fine roots. 0.5-1.6m RESIDUAL GRAVELLY SAND. Orange-light brown, moist residual gravelly SAND with trace silt. Material is loose, free draining (est. mod. high permeability). Coarsens down with depth to sandy GRAVEL at base. Mat'l is derived from heavy in-situ weathering of host granodiorite bedrock. (heavily oxidized). Clasts are moderately hard and competent granodiorite. 1.6m FRESH, HARD GRANODIORITE BEDROCK Fresh, very hard coarse grained, very coarse blocky granodiorite bedrock. Moderately fractured with rough, sub-planar fresh fractures spaced approx. 20-30 cm, steeply dipping. Bottom.
Difficult digging in broken granodiorite.			

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TEST PIT LOG

TEST PIT No. 9008-H
SHEET 2 of 4

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 30m FROM EAST END
GROUND ELEVATION
DATE JULY 10, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium.	0		0-1m BROWN WELL GRADED COLLUVIUM Brown, very moist, med. dense silty SAND and FINE GRAVEL with some large cobbles of coarse angular granodiorite fragments. Material is well graded, matrix supported.
Moderately difficult digging in broken granodiorite bedrock.	1	FR GRANO-DIORITE	1-2m GRANODIORITE BEDROCK. very coarse blocky, broken fresh GRANODIORITE BEDROCK. Granodiorite is very hard and competent.
	2		Bottom at 2m in broken GRANODIORITE.

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TEST PIT LOG

TEST PIT No. 9008-H1
SHEET 3 of 4

PROJECT CASINO
LOCATION OF TEST PIT WEST END ON SLOPE
DATE JULY 10, 1993.

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium. Trench not frozen.	0 0.1 9008-H1 0.6		0-0.1m Thin MOSS/ORGANIC TOPSOIL 0.1-0.6m BROWN COLLUVIUM Brown, very moist sandy SILT and FINE GRAVEL with some small cobbles. Very well graded, poorly sorted, wet, medium dense material. Estimate very low permeability.
Very easy digging in loose residual silty SAND.	9008-H2 1 1.4 2		0.6-1.4m RESIDUAL SILTY SAND & FINE GRAVEL Orange-brown, v. wet residual silty SAND and v. FINE GRAVEL with trace to some clay. Material is loose, heavily weathered. Granular angular resistant quartz fragments from 3mm to 2cm. Material is very uniform. Bottom of Trench.

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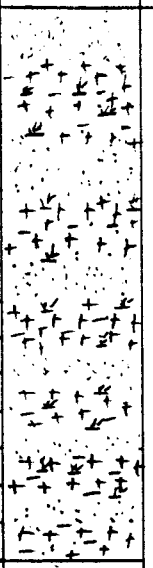
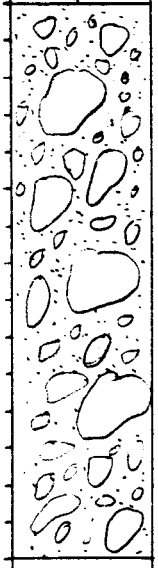
TEST PIT LOG

TEST PIT No. 9005-H
SHEET 4 of 4

ROJECT CASINO
LOCATION OF TEST PIT WEST END ADJACENT TO CK.
DATE JULY 10, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in surficial fine grained alluvium.	0 1 1.5		0-1.5m STRATIFIED ALLUVIAL SAND and ORGANIC-RICH CLAYEY SILT Orange-brown well sorted medium SAND and dark grey-black organic rich clayey SILT. Estimate 50% sand; 50% organic rich silt. Organic mat'l is soft, wet clayey silt w/ some peat. → Stratified alluvial (fluvial) flood type deposit.
Moderately difficult digging in v. crs. gr. alluvium.	2 3		1.5-3.0m V. CRS. GRAINED ALLUVIUM Very coarse grained alluvium comprising sub-rounded to well rounded boulders and cobbles from 0.2-1m dia. with some crs. gravel and sand. → Channel deposit. Bottom of Trench in Alluvium.

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TEST PIT LOG

TEST PIT No. 9033-A
SHEET 1 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-20m (NE End, adj. to Canadian Ck.)
GROUND ELEVATION
DATE June 27, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench not frozen from CH. 0-30m Permafrost at 0.3m depth Southwest of CH. 30m Abundant willows and grasses adjacent to creek suggests not frozen. Fairly easy digging in non-frozen alluvial materials from 0-1.7m. Trench walls moist, caving slowly. Incr. water content with depth. Caving badly at bottom of trench.	0 0.1 0.7 1 1.7 2	Bottom	0-0.1m BLACK, SOFT ORGANICS, MOSS & ROOTS 0.1-0.7m INTERBEDDED ALLUVIAL SANDS & SILTS Reddish brown and grey layers of coarse, clean (oxidized) angular SAND with some fine gravel, and grey clayey SILT w/ trace organics (v.f. root frags.). Approx. 50% of each material → interbedded alluvium (interbedded alluv. sand and silt). Sand is angular, clean, moist. Grey silt is moist, firm. 0.7-1.7m ALLUVIAL SILTY SAND & FN. GRAVELS (MATRIX) w/ GRANODIORITE COBBLES. Reddish brown, coarse grained cobbly material comprising 40-50% large pebble to small cobble clasts from 3-10cm dia. Clasts are hard, competent, Mod. weathered (iron oxidized), sub-rounded, somewhat imbricated, compr. granodiorite frags. (alluv. transported). Clasts supported in matrix (50-60%) of red.-brown, moist, med. dense silty SAND & FINE GRAVEL. → Alluvial sequence representative of alluvial channel deposit with coarser grained gravelly/cobbly lag at base, fining up to interbedded coarse sands & silts (low energy deposition). → Alluv. mat'ls from 0.7-1.7m potentially good source of random, rel. free-draining fill (competent granular mat'l) in areas not frozen adjacent to creek

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TEST PIT LOG

TEST PIT No. 9033-A1
SHEET 2 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 20-50m
GROUND ELEVATION
DATE June 27, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Active layer 30cm thick SW of CH. 30m away from Canadian Ck. V. thin ice lenses in m topsoil. Est. 30% excess ice by vol.	0 0.1 Ice lenses Permafrost table SW of CH. 30m. 0.3 0.5 9033-A1 CH. 30m (non-frozen) 1 1.3 2		0-0.1m BLACK, SOFT ORGANICS, MOSS & ROOTS. 0.1-0.5m ORGANIC-RICH CLAYEY SILT TOPSOIL Grey, soft to firm clayey SILT with some fine organics. Material is slightly moist w/ occasional very thin (few cm) layers of organic-rich wood fragments. Some small, angular cobbles at base. → Organic-rich Topsoil 0.5-1.3m ALLUVIAL SANDS, SOME GRAVEL Orange-lt. brown Alluvial sand w/ some fine gravel and occasional small cobble. Mat'l is moist and loose. Fining upward sequence from fine gravelly crs. angular sand at base, up to med. sand w/ some fine gravel, trace silt. Also occasional thin (few cm's), interbed of grey, firm uniform silt (alluvial-flood plain type deposit). - some ice xtals in alluvial sands but mat'l does not contain significant excess ice.

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TEST PIT LOG

TEST PIT No. 9033-A
SHEET 3 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 50-75m (SW End)
GROUND ELEVATION
DATE JUNE 27, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0 Peat. 0.3 1 1.5 2		0-0.3m ORGANIC (PEAT) LAYER Black, saturated peat w/ abundant moss roots and wood frags. Mat'l is very soft & wet. V. easy digging → Insulating (organic) layer. - Also large boulders (up to 1.5m dia.) of fresh, v. hard Granodiorite on Sfc. 0.3-1.5m INTERBEDDED ALLUVIAL SANDS AND SILTS. Interbedded crs. reddish brown fine gravelly sands and grey v. f. sandy silts w/ some v. fine organics. → Sand interbeds 3-5 cm thick, loose. est. high permeability. Mat'l is v. well sorted alluvium. → Silt is soft, moist to wet, uniform w/ v. fine organics. Likely alluvial sequence of flood deposits (sands) and organics (silts) → Overbank type meandering channel deposit. (intermittent flood events).

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TEST PIT LOG

TEST PIT No. 9054-A
SHEET 1 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT NORTH END.
GROUND ELEVATION
DATE JULY 11, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in ORGANIC TOPSOIL. Difficult digging in v. hard, frozen ice-rich f.gr. COLLUVIUM. Trench walls thawing and flowing into trench. Mat'l is highly saturated & very unstable during thawing. Permafrost table near surface (0.2m) under moss cover.	0 0.1 Permafrost table 0.2 0.4 Ice lenses 1 1.3 2		0-0.1m THICK MOSS, scrub black spruce & small willow vegetation. Abdt. roots. 0.1-0.4m ORGANIC TOPSOIL w/ CLAYEY SILT Black, dark brown organic topsoil comprising black fine fibrous spongy wet peat (v. soft) with some clayey SILT lenses (v. soft & saturated - high moisture content). 0.4-1.3m FROZEN, ICE-RICH FINE GRAINED COLLUVIUM. Brown, hard (frozen) gravelly SILT with some clay and fine sand. Material is ice-rich. Estimate 30-40% visible excess ice by volume present as 2-5mm thick lenses. Ice lenses are undulating and continuous. Material is very well bonded. Est. high saturation. Mat'l is unstable during thawing due to high total moisture content. Refusal at 1.3m in ice-rich COLLUVIUM. (Hoe bucket teeth scrape marks remain).

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TEST PIT LOG

TEST PIT No. 9034-A
SHEET 2 of 3

PROJECT CASINO
LOCATION OF TEST PIT MIDDLE OF TRENCH
DATE JULY 11, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in ORGANIC TOPSOIL. Difficult digging in v. hard, frozen ALLUVIUM.	0 0.1 Permafrost Table 0.2 0.4 1 1.3 2		0-0.1m Thick moss, scrub black spruce and small willow vegetation. Abdt. roots. 0.1-0.4m ORGANIC TOPSOIL W/ CLAYEY SILT (same as N. End - see p. 1). Ice-rich - abundant ice lenses up to few cm. thick. Hard, clear ice. 0.4-1.3m STRATIFIED ALLUV. SANDS & SILTS Orange, stratified SAND and grey fine grained SILT w/ some very fine organics → Stratified FLUVIAL (flood type) deposit. Material is frozen and very hard. Trace visible ice present as interstitial ice throughout matrix. Thawing alluvium is fairly unstable due to high frozen moisture content. Refusal at 1.3 m in ice-rich stratified ALLUVIUM.

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TEST PIT LOG

TEST PIT No. 9034-A
SHEET 3 of 3

PROJECT CASINO
LOCATION OF TEST PIT SOUTH END
DATE JULY 11, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface: Abundant willows with occasional spruce tree. (contrast to north end toward slope where abdt. black spruce predominate).
	0.3		0-0.3m ORGANIC TOPSOIL Dark brown-black organic topsoil with some large cobbles.
	0.8		0.3-0.8m STRATIFIED ALLUV. SAND / CLAYEY SILT Stratified alluvial sand and grey clayey silt with very fine organics. Material is frozen. Interbeds 1-3cm thick approx. 50% of each material
	1		0.8-1.3m ALLUVIAL SANDS. Orange-brown clean allurial SAND. Material is well sorted, poorly graded, loose, free-draining. Not frozen.
Groundwater table at 1.3m (approx. elev. of creek).	▽ 1.3		
Large hole caving in during digging in saturated, loose ALLUVIUM.	2		Spoil pile comprises sand with some gravel and small cobbles. Free draining, clean material (no fines). Clasts vary from 1-10 cm and comprise hard, competent granodiorite. Some gravelly SAND with cobbles and small boulders (alluvial channel deposit) at far S. end adjacent to Meloy Ck.
Relatively easy digging in alluvium.	3		Hoe reached 16 ft. in crs. gr. ALLUVIUM-no bedrock.
	4		(Abundant surface water and non-frozen, thick alluvium suggests migrating & meandering creek which has created a thaw bulb under the creek. Estimate 20m wide band of non-frozen alluvium along Meloy creek).

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TEST PIT LOG

TEST PIT No. 9034-B
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT N. OF CAMP - OLD ADIT WORKINGS.
GROUND ELEVATION
DATE AUG. 26/93.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Approx. 3m deep cut in fresh material at northern most end of old adit workings. Trench wall dry and stable. Vertical cut in colluv. and residual soil. Very easy blading in colluv. and residual soil. Easy blading in HW, weak broken Bedrock at 1.8m.	0 1 1.3 1.8 2 2.8 3	HW weak, friable, badly broken Granodiorite Bedrock	Vegetation: Abundant grass & willows w/ some spruce. V. large, sub-rounded boulders of fresh, v. hard Granodiorite up to 1m dia. on surface. 30cm thick vegetative mat comprising tree, grass roots. 0-1.3m WELL GRADED COLLUVIUM * Brown, med. dense, moist fine sandy SILT w/ some gravel matrix (approx. 80%), supporting cobbles and small boulders (approx. 20%). → well graded, massive Colluvium. Mat'l is v. poorly sorted, v. low plasticity likely deposited downslope as quick event. - Mat'l at approx. optimum moisture → Potential random fill material. 1.3-1.8m RESIDUAL GRANODIORITE SAND * Loose, dry, cream-orange residual granodiorite SAND w/ some silt. Crs. granular, sugary texture (similar to mat'l at 9035-A along Tailings Dam Site Access Rd.) Mat'l grades down to crs. sand, trace silt. Particles angular, fairly competent. (cont'd)...

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TEST PIT LOG

TEST PIT No. 9034-B
SHEET 2 of 2

PROJECT CASINO.
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE AUG. 26/93.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd).
			1.8-2.8m HW, WEAK, FRIABLE GRANODIORITE BEDROCK.
			HW, weak, friable (limonite/hematite throughout) Granodiorite Bedrock. Rock is weathered to residual crs. sand in places, otherwise, v. badly broken 3-5cm dia., v. angular, weak rock.
			*Note:
			Apparent down-drag (plastic creep-style deformation) at Colluv./Residual SAND contact → Possible solifluction creep of overlying colluv. riding over residual sands.

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TEST PIT LOG

TEST PIT No. 9034-C
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT S. OF CAMP ALONG MEZOY CK. RD.
GROUND ELEVATION
DATE AUG. 20/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Cut along existing (old) trench. Trench is dry, no groundwater or permafrost. Easy excavation in colluvium and residual soils. Likely no permafrost in surrounding (fresh) mat'l. on slope. Fairly difficult excavation in broken bedrock (easy ripping). Occasional EW gouge granular gouge zone trending N-S, steeply dipping. (possible preferential weathering/ alteration).	0 0.3 1 1.2 Re-worked res. soil 9034-C1 1.8 2 2.9 3 4	MW-HW Granodiorite Bedrock Badly broken.	Vegetation: Abundant, closely spaced tall spruce w/ some willows and grasses. (same as 9034-D). 0-0.3m ORGANIC-RICH TOPSOIL. organic-rich topsoil comprising clayey silt w/ roots, sand and gravel. 0.3-1.2 m FINE GRAINED COLLUVIUM (WET) w/ ROCK FRAGS. AND ORGANICS. Dark brown, very moist, med. dense (firm) clayey silt w/ some fine sand matrix (approx. 70%) supporting crs. gravel to small cobble clasts of broken rock. Rock frags. are mod. hard to hard, competent, sub-angular granodiorite and comprise approx. 30% of mat'l. Mat'l also contains occasional black organic-rich, soft clayey silt (peat) layers. Rock frags. 2-10 cm dia. → Fine grained colluvium w/ rock frags. Trace v. fine roots throughout - gap graded (bimodal) mat'l. likely too wet to utilize as fill mat'l. 1.2-1.8m WELL GRADED COLLUVIUM Light brown, moist, dense silty SAND matrix (approx. 60%) supporting crs. gravel and small cobble size rock frags. → well graded colluvium w/ no organics. Mat'l is moist, non-plastic. Rock frags. are hard granodiorite from 2-10 cm. dia. (cont'd)...

KNIGHT AND PIESOLD LTD. CONSULTING ENGINEERS	TEST PIT LOG	TEST PIT No. 9034-C SHEET 2 of 2

PROJECT CASINO — PROJECT No. 1831
LOCATION OF TEST PIT — GROUND ELEVATION
DATE Aug. 20/93. — LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd)
			1.2 - 1.8 m WELL GRADED COLLUVIUM (CONT'D)
			colluvium is potential source of random fill. Fines only slightly greater than optimum moisture content. Approx. 40% angular, hard granodiorite rock frags.
			*Note: Total thickness of colluvium increases toward the valley (downslope to the west.
			1.8 - 2.9 m HW, RESIDUAL SILTY SAND
			Orange-tan, loose, uniform HW residual silty fine sand w/ some med. sand and trace fine gravel and clay. Mat'l is heavily weathered in-situ as evident by occasional limonite/hematite stained relict joints and HW, badly broken, very weak rock at base.
			- Mat'l is slightly moist. Moisture content slightly less than optimum. Estimate (typical) low permeability, dense compacted fine grained fill material
			2.9 m BROKEN, MW-HW BEDROCK
			MW-HW, mod. hard broken bedrock (granodiorite). Lim/hem. on v. rough, irregular fracture surfaces. Frags. v. angular.

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TEST PIT LOG

TEST PIT No. 9034-D
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE AUG. 20, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Trench excavated in existing (old) trench cut. Trench dry, no groundwater or permafrost walls very stable. Moderately easy excavation w/ D7 in stoney colluvium. Easy excavation in loose residual soils. Difficult excavation in broken bedrock. (easily rippable).	0 0.2 1 1.1 9034-D1 2 2.3 3	HW Grano-diorite, Quartz Monzonite	Vegetation: Abundant, closely spaced tall black spruce with some tall willows, alder and grasses. (same as 9034-C). 0-0.2m ORGANIC-RICH SANDY TOPSOIL Organic-rich topsoil comprising dark brown silty sand with some gravel and roots. 0.2-1.1m WELL GRADED COBBLY COLLUVIUM * Brown, moist silty fine sand with some fine gravel matrix (comprises approx. 60%) and coarse gravel to small cobble size rock frags. Material is matrix supported, massive (no grading), poorly sorted. Clasts are sub-angular, range from 3-15 cm dia., randomly oriented. Matrix is at ~ optimum moisture content. Mat'l is dense. Trace very fine organics (roots) throughout. * Note: Colluvium incr. in thickness to 2.5 m downslope. 1.1-2.3m RESIDUAL SANDS, GRAVELS, SILTS. Orange-lt. brown, loose, dry, HW residual soil (granodiorite). Material grades from loose silty sand (top 0.3m); down to med.-crs. grained sand with trace silt (approx. 0.3m); down to sandy HW, weak, angular fine angular residual gravels (rock frags.). Residual mat'l is crumbly, heavily oxidized with limonite / hematite throughout (typical). Top 0.3m is thinly bedded (alluvially reworked residual soil) and has apparently been dragged downslope - likely as a result of solifluction (creep of overlying colluvium). (cont'd)...

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TEST PIT LOG

TEST PIT No. 9034-D
SHEET 2 of 2

OJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 20, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer.			2.3m HW, BADLY BROKEN GRANO. /Q. MONZONITE Heavily weathered, badly broken granodiorite / quartz monzonite bedrock. (Dykes of Q. monzonite in granodiorite - possibly near contact). Abundant fault/shear zones steeply dipping, trending approx. NNW comprising clayey granular gouge-like material. Likely fault activity followed by possible small veining and preferential weathering along permeable broken zone to clayey, very moist gougy material.

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TEST PIT LOG

TEST PIT No. 9034-E
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT N. OF CAMP IN OLD ADIT WORKINGS
GROUND ELEVATION
DATE AUG. 26/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Re-cut existing (old) trench in adit workings upslope from camp. No permafrost on S. facing slope. V. easy excav. in colluv. & residual soils. HW rock is v. weak & sheared & is easily bladeable. (Mat'l breaks up to sandy gravel when excavated).	0		Vegetation: Abundant tall spruce and willows 0.2m thick veg. mat of moss, tree roots.
	9034-E1 0.8		0-0.8m CRS. GRAINED SANDY COLLUVIUM: Brown, med. dense, crs. grained Colluvium comprising gravelly SAND w/ some cobbles and boulders, trace silt. Mat'l is well drained, est. moderate permeability. Trace v. fine organics throughout. Cobbles & boulders are matrix suppt'd. (est. 40%), sub-rounded, hard, MW, range from 0.1-1.0m dia. → Massive, v. poorly sorted, well graded, crs. granular Colluvium.
	1		
	2	HW, v. weak, soft, sheared, pulverized to badly broken & blocky Grano-diorite Bedrock.	0.8-2m (approx.) RESIDUAL GRAVELLY SAND w/ SILT: Orangish brown, residual fine gravelly SAND w/ trace-some silt. Mat'l is med. dense, slightly moist. Mat'l contains some (~15%) HW, gravel size, v. weak rock frags. - Residual soil varies in thickness from approx. 1-1.5m due to variable depth-of-weathering in HW, sheared, weak underlying bedrock.
	3		2 (approx.)-6m HW, V. WEAK, SHEARED, SOFT BEDROCK (GRANO.): HW, v. weak (heavily, iron oxidized), crumbly, dry (well drained), sheared granodiorite bedrock. (cont'd)...
	4		

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TEST PIT LOG

TEST PIT No. 9034-E
SHEET 2 of 2

PROJECT CASINO.
LOCATION OF TEST PIT N. WALL OF CAMP IN OLD ADIT workings.
DATE AUG. 26/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	4	HW, v. weak rock (cont'd)	... (cont'd)
			2-6m HW, V. WEAK, SHEARED, SOFT BEDROCK (CONT'D)
	5		Abundant ferricrete zones throughout. Rock is apparently sheared downslope, followed by preferential in-situ weathering parallel to shear fabric. (Strong, sheeting-type structure w/ ferricrete lenses parallel to shearing). Rock is soft to mod. hard (R0-R2) - pulverized, HW zones alternate w/ more competent, HW blocky zones of granodiorite.
	6	Bottom	- Mat'l is dry, well drained.
			- Trench walls stable (approx. 25yrs. at 46° in residual sands, and 75-80° in HW, friable, v. weak rock. in N-S cut.
			- Shear fabric at 038°/40 SE, dipping downslope.

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TEST PIT LOG

TEST PIT No. 9035-A
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE June 6/93.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Easy digging. No gdw. table apparent but materials moist. Trench ~ 10m long. Walls fairly stable in sand, some caving. (possibly higher friction angle due to angularity of sand particles).	0		} Organics, mosses and roots.
	9035-A1		0.05-0.3 Dark brown, moist sandy SILT and broken granodiorite rock fragments with some fine gravel, trace clay. Medium dense. Rock angular up to 0.3m dia. matrix supported → COLLUVIUM.
	0.6		0.3-0.6 Orange-lt. brown (limonite stained), medium dense, moist-wet, medium grained SAND and hard granodiorite rock to 0.3m dia. Rock is hard, oxidized (brown stained). Est. 50% rock, 50% residual sand. Material is matrix supported → COLLUVIUM (debris flow type deposit).
	9035-A2 1		
	2		0.6-3.7 Loose, moist, light brown, uniform medium to coarse grained SAND. Material is residual soil derived from weathering of granodiorite bedrock. Sand grains are v. angular approx. 0.5-2mm dia. Increase crs. granular texture and grain size with depth. Material is well drained. Estimate high permeability. Sub-stratified from 0.6-0.9 m. → RESIDUAL SANDS
	3		
	3.7		End of Test Trench at 3.7m.
	4		

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TEST PIT LOG

TEST PIT No. 9035-3
SHEET 1 of 1

OJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 21, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer.	0		Vegetation: Sparse (10-15 m spacing) thick, tall spruce trees with abundant thick willows and thick moss w/ grass. Apparent solifluction lobes in moss (from freeze-thaw cycle soil creep). Abundant large talus boulders of v. hard, fresh, crs. grained granodiorite up to 2m dia. (Boulders likely transported down-slope from solifluction). Slope poorly drained.
	0.3		0-0.3m ORGANIC-RICH TOPSOIL (VEGETATIVE MAT) Organic-rich topsoil comprising talus boulders, thick moss roots and some black, dry silt.
Fairly easy excavation in well graded stoney colluvium. Trench is dry, non-frozen. walls stable in moist colluvium & residual materials.	1		0.3-1.4m WELL GRADED, BROWN, DENSE COLLUVIUM Brown, dense, silty sand with some fine-med. gravel, trace clay matrix (approx 60%) supporting cobble to small boulder size fresh, v. hard crs. grained granodiorite clasts (approx. 40%). Cobble & boulder clasts are sub-rounded and range from 3-20 cm dia. Matrix is moist (approx. at optimum moisture content). Est. v. low plasticity, low in-situ permeability. Mat'l is well graded, v. poorly sorted, massive colluvium (transported down-slope).
Easy excavation in residual material.	1.4	HW	1.4-1.8m RESIDUAL SAND w/ SILT and GRAVEL Orange, med. dense, moist residual sand with silt and gravel. Material grades down from silty sand to HW, weak (oxidized) fine blocky badly broken granodiorite rock — weathering profile.
Refusal a. 1.8 m (Likely easily rippable).	1.8	SW-FR Blocky, Broken.	1.8m HARD, BROKEN SW-FR GRANODIORITE Broken, v. hard, SW-FR crs. grained, med. blocky granodiorite bedrock.
	2		

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9035-C
SHEET 1 of 1

OJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 22/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Cut made in existing (old) trench. V. easy excavation in dry residual sands and sheared, badly broken rock frags. (m 0.2-1.4m Trench is dry, walls stable, materials well drained, competent, dense. Difficult blading at 1m in fine blocky, broken Bedrock.	0 0.2 0.7 1 1.7 2	Mod. hard, fine blocky Bedrock.	Vegetation: Abundant tall willows with some spruce trees in surrounding area. (no spruce at trench site). Thin moss/grass cover w/ occasional large talus boulder. 0-0.2m SANDY ORGANIC-RICH TOPSOIL. Sandy organic-rich topsoil. Mat'l is well drained (high permeability). 0.2-0.7m TAN, DRY, RESIDUAL COMPETENT SAND. * Lt. tan/cream, loose-med. dense, v. dry, crumbly residual granodiorite sand w/ trace v. fine gravel. Mat'l is uniform, particles are angular, competent comprising quartz and feldspar frags. (no alteration, only mechanical weathering - no iron oxidation). * Same mat'l as at trench 9035-A. 0.7-1.7m BADLY BROKEN, WEAK (R1), SHEARED ROCK w/ SOME RESIDUAL SAND. Lt. grey, badly broken, weak (R1), sheared diorite/granodiorite rock w/ trace to some (approx. 15%) tan residual sand matrix. Rock frags. are angular, range from 2-5 cm. dia. and are elongate parallel to shear at 126/59° SW. Mat'l is dry, v. well drained (est. high in-situ permeability), dense. 1.7m BADLY BROKEN, FINE BLOCKY BEDROCK. Badly broken, mod. hard (R2), fine blocky, MW. intrusive (felsic) fine-med. grained (granodiorite?) rock frags. Frags. are angular, range from 1-5 cm dia. ave.

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TEST PIT LOG

TEST PIT No. 9035-D
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE AUG. 23, 1993 20m long at BRG. 065°
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Excavation in existing (old) trench cut. Estimate very difficult blading in broken bedrock but fairly easy ripping.	0 1 2 3 4 4.5	MW Broken blocky hard Bedrock.	Vegetation: Tall willows with some tall spruce. very thin (5-10cm) moss cover. No permafrost. 0-1.0m (approx.) BROWN, WELL GRADED SILTY/COBBLY COLLUVIUM (see 9035-E log) 1.0-4.5m MW, BROKEN, BLOCKY BEDROCK w/ HW, BADLY BROKEN, WEAK ZONES Mod. weathered, hard (platey), slightly broken, blocky bedrock. Rock is slightly altered fine-med. grained Quartz Monzonite or Granodiorite (?). Occasional zone is heavily weathered (limonite throughout), very crumbly and weak — weathered to residual sand in places. — comprises approx. 10% of exposure. Remaining rock is med.-crs. blocky w/ angular, orthogonal blocks ranging from 5-20cm dia. Fracture surfaces are rough, MW (limonite/hematite on sfc.), sub-planar. Three major fracture sets at: 1. 058/80 SE - parallel to trench. 2. 170/60 W 3. 038/35 SE - dipping into trench cut. * Fault/shear zone half-way along trench approx. 0.5m wide comprising pulverized rock (abundant quartz frags. w/ some dry clay). Fault zone is heavily iron oxidized - likely from high permeability groundwater flow & oxidation of iron-rich groundwater. Orientation: 150/90 (vertical).

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TEST PIT LOG

TEST PIT No. 9035-E
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE AUG. 23, 1993. 10m long, BRG. 115°.
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Fresh cut 1.5 m deep. Fairly easy blading in badly broken rock. Trench is dry (well drained), walls very stable. No permafrost or groundwater. Blade usal at approx. 1.7m. w/ D7 cat.	0 0.5 1 1.7 2	MW Altered, Badly broken Bedrock. Fine blocky, hard sl. altered Bedrock	Vegetation: Tall willows with some tall spruce, very thin (5-10cm) moss & grass cover. (same as 9035-D). 0-0.5m BROWN, WELL GRADED SILTY/COBBLY COLLUVIUM. Brown, moist sandy silt matrix (compr. approx. 50%) supporting large gravel to cobble size rock fragments. Rock frags. are angular, hard (R4), slightly weathered, med. grained quartz monzonite / granodiorite, range from 3-20 cm dia. (well graded). Trace very fine roots throughout. → well graded, v. poorly sorted Colluvium. 0.5-1.7m MW, ALTERED, MOD. HARD, BADLY BROKEN BEDROCK MW, altered, mod. hard to weak (R4-R2), badly broken, well fractured intrusive rock (altered Quartz Monzonite / Granodiorite). * Fault zone at 144/78°SW, 20cm thick, comprising dry, crumbly pulverized rock w/ heavy limonite / hematite staining throughout - v. crs. granular gouge (only trace clay) compr. quartz fragments to few mm dia. Fault oriented parallel to major fracture set in rock. Note: Fault zone has apparently been dragged (creep) downslope - possibly as result of solifluction soil creep of overlying colluvium. 1.7m BROKEN, HARD, FINE BLOCKY BEDROCK. Broken, hard, slightly altered, MW, fine blocky bedrock (Quartz Monzonite / Granodiorite). Angular frags. from 5-20 cm dia.

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TEST PIT LOG

TEST PIT No. 9035-F
SHEET 1 of 1

OJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 22, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer.	0		Vegetation: Thick, tall abundant willows with some tall spruce. Thin moss cover with some long grass.
Trench is dry, walls are stable.	0.3		0-0.3m ORGANIC-RICH SILTY/SANDY TOPSOIL. Organic-rich silty sandy topsoil. Abundant roots. Mat'l is dry, loose with some fine gravel, v. well drained.
	0.6		0.3-0.6m WELL GRADED COLLUVIUM. Brown, dry to slightly moist gravelly, silty sand w/ some small cobbles → well graded colluvium. Clasts are angular, fine blocky, range from 3-6 cm dia., comprise hard, Fresh - SW granodiorite. Matrix is non-plastic, med. dense. Material is massive (no sorting) colluvium w/ trace v. fine roots. → (Potential well graded fill material. Strong foundation for potential waste dump/stockpile storage).
9035-F1	1		
* Good foundation conditions for waste dump/ stockpile storage since strong soils over bedrock.	1.2		0.6-1.2m HW, RESIDUAL SANDS, GRAVELS. Orange - lt. brown-tan residual soil grading down from med. dense, dry silty sand; to gravelly sand w/ some silt; to sandy HW, weak crumbly gravel. (granodiorite rock frags.); to HW, weak (R1), friable badly broken granodiorite at 1.1-1.2m.
Blade refusal 1.3m w/ D7 cat but easily rippable.	1.3	MW, blocky Granodiorite Bedrock.	1.2-1.3m MW, BLOCKY GRANODIORITE BEDROCK. Mod. weathered (MW), mod. hard (limonite/ hematite stained) granodiorite bedrock. Rock frags. are fine-med. (3-10 cm dia.), v. angular & rough.
	2		

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TEST PIT LOG

TEST PIT No. 9035-H
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT WEST HALF OF TRENCH
GROUND ELEVATION
DATE AUG. 22, 1993. 059° BRG. 55m long.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Cut made in existing (old) trench. Cut approx. 2m into bedrock w/ ripper and blade. Easy excavation (colluvium and residual material). Materials are med. dense to dense, well drained. Trench walls stable, dry. No permafrost or groundwater. Broken rock from 1.1-2.3m is easily bladeable (no ripping). Ripping req'd at estimated 2.3m depth in mod. hard, MW broken rock.	0 0.3 0.8 1 1.1 2 2.3 3	HW weak, broken Grano-diorite Bedrock. MW Grano-diorite Bedrock (Blade refusal w/ D7 cat).	0-0.3m ORGANIC, DRY SILTY/SANDY TOPSOIL Organic silty, sandy topsoil with abundant roots. Mat'l is dry and loose. 0.3-0.8m * WELL GRADED, SANDY/COBBLY BROWN COLLUVIUM. Brown, dry to slightly moist matrix of silty sand with some v. fine gravel (approx. 70%) supporting angular, mod. hard, large gravel to small cobble size rock frags. (approx. 30%). Mat'l is well graded, v. poorly sorted colluvium. Mat'l is dense, non-plastic, well drained. 0.8-1.1m * RESIDUAL SILTY/FN. GRAVELLY SAND. Dry, orange residual silty, fine gravelly sand. Mat'l is heavily weathered, crumbly, med. dense, fairly well drained. Particles are v. angular, weak (typical). 1.1-2.3m HW, WEAK, BROKEN GRANODIORITE BEDROCK. Slightly altered, heavily weathered, weak (R1), broken, well jointed, friable granodiorite bedrock. Rock is HW with limonite/hematite pervasive throughout rock. Fractures are v. rough, undulating to irregular, iron stained. Fractures define orthogonal blocks ranging from 5-20 cm dia.; oriented at: 1. 056/68-90 NW 2. 128/70 SW 3. Sub-horizontal. Occasional zones of badly broken, fine blocky to pulverized rock. 2.3m MOD. HARD, MW, BROKEN GRANODIORITE

* Note: Residual sands and colluvium decrease in thickness to the west to 0m & 0.5m, respectively, overlying broken bedrock, as above.

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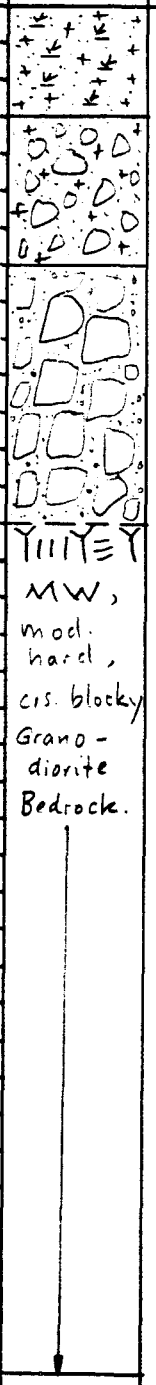
TEST PIT LOG

TEST PIT No. 9035-H
SHEET 2 of 2

OJECT CASINO
LOCATION OF TEST PIT EAST HALF OF TRENCH
DATE AUG. 22, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Moderately easy excavation w/ blade in colluvium and rock with matrix (0.3-1.4m). Difficult excavation in MW, crs. blocky granodiorite from 1.4-3.7m (must rip in places). Refusal at ~3.7m est. for heavy equipment. (rippable).	0 0.3 0.7 1 1.4 2 3 3.7 4		0-0.3m ORGANIC-RICH SILTY/SANDY TOPSOIL, As Above (see p.1). 0.3-0.7m BROWN SANDY MATRIX AND BLOCKY GRANODIORITE ROCK FRAGS. (COLLUVIUM) Mix of brown silty sand matrix with trace v.fine organics (approx. 40%) and med.-crs. blocky, hard large cobble - boulder size granodiorite rock frags. Mat'l is fairly well drained, med. dense, granular. (Est. mod. high permeability). → Sandy Colluvium and Rock. 0.7-1.4m CRS. BLOCKY GRANO. ROCK FRAGS. w/ SOME RESIDUAL SAND MATRIX. Broken, crs. blocky, hard granodiorite rock frags. (approx. 80-90%) supported by some orange-tan, dry residual fine sand w/ some fine gravel matrix (approx. 10-20%). Residual matrix infills between rock blocks. Rock blocks are orthogonal, competent, range from 5-20cm. 1.4-3.7m MW, CRS. BLOCKY GRANODIORITE BEDROCK MW, mod. hard (R4), limonite/hematite stained, slightly altered crs. blocky granodiorite bedrock. Fractures are rough, sub-planar to undulating, fresh - SW, oriented parallel and perpendicular to trench (well developed), and minor (3rd) set sub-horizontal. Fractures define orthogonal joint set pattern. Rock comprises occasional 20-30cm wide Fault/Shear zone comprising loose, crumbly, HW med. grained sand. (dry, loose) → Possible preferential weathering along broken (shear) zone. Fault/shear zone trends approx. 166°, dips steeply (65-70°) to the east. 3.7m CRS. BLOCKY, V. HARD, FRESH GRANODIORITE ROCK.

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TEST PIT LOG

TEST PIT No. 9036-B
SHEET 1 of 4

PROJECT Casino
LOCATION OF TEST PIT West end (Fan Trench)
DATE July 22 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY JWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Excavated with Hitachi UH05LC hoe • Very difficult digging in permafrost. • Essential refusal in frozen ground at 0.60m. Vegetation changes from stunted black spruce and willow to birch, aspen and taller spruce at peat-soil contact approx 30m up trench	0.0 0.5 1.0		0.0 - 0.10 • ORGANICS - root mass, moss heads grasses. 0.10 - 0.30 • PEAT - dark black, spongy, fibrous peat with occasional silt lenses. 0.30 - 0.60 • SILTY SAND AND GRAVEL (COLLUVIUM) Grey-brown silty SAND AND GRAVEL colluvium with occasional cobble-sized angular clasts of GRANODIORITE. Excess ice, well-bonded thaw-unstable material

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9036-B
SHEET 2 of 4

PROJECT CASINO
LOCATION OF TEST PIT [illegible]
DATE July 20 1993

PROJECT No. [illegible]
GROUND ELEVATION
LOGGED BY J.V.C

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• EXCAVATED WITH HITACHI HYDRAULIC HOE • WASTE PILES SLUMP EASILY WHEN WET BY STORM. (IN COLLUVIUM SPOIL PILES ONLY) • Refusal at 1.9m in jointed (frozen?) bedrock.	0.0 0.5 1.0 1.5 2.0 2.5 3.0		0.0 - 0.10 • ORGANICS - mosses, abundant root mass 0.10 - 1.0 m • SILTY SAND AND GRAVEL (COLLUVIUM) Dark grey-brown, moist (over optimum by 4-5%), medium dense, silty SAND AND GRAVEL colluvium - typically clast size is ~8" angular GRANODIORITE. Occasional pockets/lenses of black silty peat. 1.0 - 1.9 m • GRANODIORITE Moderately weathered orange (iron-oxide stained - limonite stained) broken jointed coarse grained bedrock. 1-2 hammer blows to break rock. Some pockets of heavily weathered and extremely friable rock. Generally rock hardens with depth.

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9036-B
SHEET 3 of 4

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT 0+40m & 0+30m 5m from base of trench
GROUND ELEVATION
DATE July 22 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• Excavated with Hitachi UH09LC hoe.			0.0 - 0.10m • ORGANICS + TOPSOIL - root mass, moss heath silty sandy
	0.5		0.10 - 0.70m • SILTY SAND AND GRAVEL (COLLUVIUM) Dark grey-brown, moist (over optimum by 4-5%), medium dense, silty SAND AND GRAVEL - Colluvium - typically ~8" angular clasts of GRANODIORITE.
• Residual soils frozen between Stations 0+45 and 0+55 at 1.5m depth.	1.0		0.70 - 1.80m • RESIDUAL SAND AND GRAVEL / HEAVILY WEATHERED GRANODIORITE Beige-brown, oxide stained, moist medium dense SAND AND GRAVEL with approx 40% (visual est) heavily weathered, limonite stained broken, weak Granodiorite rock.
	1.5		
	2.0		
	2.5		

KNIGHT AND PIESOLD LTD.
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TEST PIT LOG

TEST PIT No. 9036-B
SHEET 4 of 4

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT HEADWALL OF TRENCH (INTER STA 1+00)
GROUND ELEVATION
DATE JULY 22, 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• EXCAVATED WITH HITACHI UH09LC HOE			0.0 - 0.10m • ORGANICS + TOPSOIL - silty sandy soil with abundant root mass
	0.5		0.10 - 1.00m • SILTY SAND AND GRAVEL (COLLUVIUM) Dark-grey to rich brown, moist to very moist silty SAND AND GRAVEL. GRAVEL is typically ~8" and angular. Some pockets/lenses of dense silty black PEAT.
	1.0		1.00 - 1.90m • GRANODIORITE Moderately weathered, orange (limonite stained) broken, jointed, coarse grained bedrock. Some pockets of weak, heavily weathered and extremely friable rock.
	1.5		
• REFUSAL AT 1.9m DEPTH	2.0		

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TEST PIT LOG

TEST PIT No. 1536-D
SHEET 1 of 3

PROJECT Aishihik
LOCATION OF TEST PIT EAST END OF TAILINGS DAM
DATE July 19 1993 ON SLOPE

PROJECT No. 1531
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
EXPOSED WITH BACKHOE	0.0		0.0-0.2m • ORGANICS - mosses, minor silty SAND topsoil with abundant root mass
	0.5		0.2-0.7m • PEAT Dark brown to black, very moist organic rich peat, bearing lenses of grey blue SILT with trace SAND. medium dense to dense (for peat).
	1.0		0.7-1.35 • STRATIFIED PEATS AND SANDY SILTS Black peat (as described above) interlayered with grey-blue, very moist, sandy SILT AND grey-brown, clayey, sandy SILT with angular, iron oxide stained, weathered coarse grained GRANODIORITE clasts (typical +4"to -8" dia).
• APPROXIMATE DEPTH TO ACTIVE LAYER ~ 1.15m.	1.5		
• PERMAFROST TABLE AT ~1.15m • Very difficult digging in frozen ground. Essentially REFUSAL	2.0		BELOW PERMAFROST TABLE (at ~1.15m depth) materials are well bonded, thaw-unstable and contain clear bubble bearing 1cm thick horizontal ice lenses. 1.35-1.55m • SANDY GRAVEL (TRACE SILT) AND ICE Tan brown sandy GRAVEL with trace silt. Well bonded material with interstitial ice, thaw stable. 1.55-1.85m • SANDY SILT (SOME GRAVEL) AND ICE Grey sandy SILT with angular hard clasts (typically +2" to -4" dia) of GRANODIORITE. Well bonded, thaw unstable material.

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TEST PIT LOG

TEST PIT No. 9036-D
SHEET 2 of 3

PROJECT Casino
LOCATION OF TEST PIT MIDDLE OF TRENCH
DATE July 17 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY JWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• EXCAVATED WITH HITACHI UH03LC HOE.	0.0		
			0.0-0.10m • ORGANICS - moss and fungi growth, abundant root mass forest litter and 10-20% clayey sandy SILT.
	0.5		0.1-0.5m • SANDY SILT, SOME ORGANICS, TRACE GRAVEL Grey, Loose to medium dense, slightly spongy, moist (estimate at optimum or slightly over) sandy SILT with trace gravel. (COLLUVIUM)
	1.0		0.5-0.65m • SILTY PEAT Reddish-brown/Brown silty PEAT, medium dense, moist, spongy with occasional "decaying" wood.
	1.5		0.65-1.1m • SANDY GRAVEL, TRACE SILT COLLUVIUM Grey-Brown sandy GRAVEL, trace silt with Limonite stained, angular clasts of coarse grained weathered GRANODIORITE. Medium dense to dense moist (est. at optimum or slightly over) material.
	2.0		1.1-1.6m • SILTY SAND AND GRAVEL COLLUVIUM Brown silty SAND with trace gravel matrix with angular (+4" to -8" dia. typ) blocks of limonite stained weathered, to very weathered and friable, coarse grained GRANODIORITE, (Matrix supported : 60%-40%) medium dense and well drained.
	2.5		
moderately difficult to difficult digging with hoe to bottom of trench. Suspect ripping to another metre depth with moderate ease.	3.0		1.6-3.1m • BEDROCK Heavily weathered, very broken, iron-oxide stained, angular blocky (typ +1" to -14" dia) coarse grained GRANODIORITE with sandy SILT/silty SAND filling joints and fractures. Grades with depth to increasingly harder moderately to slightly weathered, slightly broken GRANODIORITE

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TEST PIT LOG

TEST PIT No. 9036-D
SHEET 3 of 3

PROJECT [illegible]
LOCATION OF TEST PIT WEST END (HEADING) TRENCH
DATE JULY 19 1995

PROJECT No. 231
GROUND ELEVATION
LOGGED BY TNC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
· EXCAVATED WITH [illegible] INSTALLED	0.0		0.0 - 0.3m • SANDY SILT TOPSOIL Brown sandy SILT topsoil with estimated 5-20% organic content, moist, loose to [illegible] dense and slightly spongy.
	0.5 9036-D1		0.3 - 0.9 m • SANDY GRAVEL, SOME SILT Grey-brown sandy GRAVEL with some silt and 10-15% angular, limonite stained moderately weathered GRANODIORITE [illegible] (~6" TYP.) content. Moist (est. slightly dry of to at optimum moisture content) and Dense. (COLLUVIUM ?)
	1.0		0.9 - 1.9m • SANDY GRAVEL (RESIDUAL) OR VERY WEATHERED, BROKEN GRANODIORITE Orange-brown (iron oxide stains) slightly moist (est. 3-4% dry of optimum m/c), loose, sandy, GRAVEL matrix with approx. 20 - 30% very broken, weathered to heavily weathered (friable), +3/4" TO ~10" (typ) angular clasts of coarse grained GRANODIORITE.
	1.5 9036-D2		
Refusal in Frozen Ground.	2.0		Refusal at 1.9 m depth in frozen well bonded RESIDUAL SOIL/VERY WEATHERED BROKEN GRANODIORITE + ICE. Thaw stable.

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9036-E
SHEET 1 of 8

PROJECT CASINO
LOCATION OF TEST PIT W. ABUT SLOPE TAILINGS DAM
DATE AUG. 14, 1993 SITE CH. 0-12m (W. End)

PROJECT No. 1851
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy excavatn in f.gr. colluvium.	0		Vegetation: Abundant poplar / birch / aspen w/ some tall spruce. V. thin (10cm) moss/lichen cover. Shallow root system (30cm thick). 0-0.4m FINE GRAINED (SILTY) COLLUVIUM + TOPSOIL w/ ORGANICS. Brown, firm sandy SILT w/ some v. fine gravel and clay. F. grained moist (at approx. optimum m/c), mod. well graded, poorly sorted. Est. low-med. plasticity. Mat'l at approx. plastic limit. Trace v. fine roots throughout. → Potential f.gr. core zone fill material
Blade refusal est. 1m. V. easy excavatn residual, sandy mat'l.	0.4		
Moderately difficult excavatn in MW, badly broken Granodiorite from 0.9-1.7m	0.9 1	MW Badly broken Blocky Granodiorite	0.4-0.9m* RESIDUAL, HW, SAND Lt. orangish-brown, HW, residual SAND w/ some fine gravel, trace (~10%) silt. Mat'l is dry to sl. moist. Particles are heavily iron oxidized, weak, angular (Derived from in-situ weathering of granodiorite rock). Mat'l is at approx. optimum m/c, is easily excavable → Potential excellent strong compacted core zone fill material. * Residual sand pinches out at CH. 20m downslope.
Difficult digging at 1m in fresh, crs. blocky Granodiorite.	1.7 2	FR	Refusal at 2.1m. (cont'd)...
	2.1		

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TEST PIT LOG

TEST PIT No. 9036-E
SHEET 2 of 8

PROJECT CASINO
LOCATION OF TEST PIT CH. 0-12m (cont'd)
DATE AUG. 14, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL ... (cont'd)
			0.9-1.7m MW, BADLY BROKEN, BLOCKY GRANODIORITE BEDROCK Mod. weathered, badly broken, mod. hard (R2), blocky Granodiorite Bedrock. w/ some residual sandy gravel. Rock frags. are HW w/ limonite pervasive throughout and on fracture surfaces. Blocks are angular, range from 5-20 cm dia. Fractures are well developed, rough, sub-planar, Fresh - SW (limonite film). → Good potential rockfill / crs. blocky structural embankment rockfill. 1.7-2.1m SLIGHTLY BROKEN, FRESH GRANODIORITE BEDROCK. Coarse blocky, fresh, v. hard (R5-R6), med. - crs. grained Granodiorite. Blocks 10-40cm dia. Rockmass sl. broken w/ rough, fresh, planar fractures at: 1. 018/82°W 2. 122/70°SW 3. 144/30°NE Define orthogonal blocks.

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TEST PIT LOG

TEST PIT No. 9036-E
SHEET 3 of 9

PROJECT CASINO
LOCATION OF TEST PIT CH. 12-20m
DATE AUG 14, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.3m F. GR. (SILTY) COLLUVIAL TOPSOIL (As Above, see p. 1).
	0.3		0.3-0.6m RESIDUAL SAND (As Above, see p. 1)
	0.6	MW	0.6-1.0m MW, BADLY BROKEN, BLOCKY GRANODIORITE BEDROCK (As Above, see p. 2)
Estimate difficult ripping in fresh, crs. blocky Granodiorite at 1.0m. V. difficult digging w/ hoe due to large block size.	1	FR	1.0-1.5m FRESH, SLIGHTLY BROKEN GRANODIORITE BEDROCK. V. coarse blocky, v. hard, competent Granodiorite. Blocks up to 0.8m dia. approx. 2-3 fractures per metre. Crs. grained, fresh rock.
	1.5	Refusal	
	2		

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TEST PIT LOG

TEST PIT No. 9036-E
SHEET 4 of 8

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 30-35 m.
GROUND ELEVATION
DATE AUG. 14, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Easy excavation in colluvium and residual sands.	0 9036-E1		0-0.6m FINE GRAINED (SILTY), WELL GRADED COLLUVIUM Brown, med. dense sandy SILT w/ some clay and fine gravel. Clasts are angular, competent. Mat'l is well graded, trace fine organics (root frags). At approx. optimum moisture. (Similar to colluvium on p. 1). Est. low plasticity, low permeability, as above.
	0.6		0.6-0.8m RESIDUAL SAND. Orangish brown residual fine gravelly SAND. Particles are v. angular, weak, heavily oxidized. (As above, pp. 1, 2).
Difficult digging in broken Granodiorite from 0.8-1.4m. Mat'ls dry, well drained, stable.	0.8 1	FR Hard, crs. blocky Grano-diorite Bedrock	0.8-1.4m FRESH, HARD, BLOCKY GRANODIORITE BEDROCK Fresh, v. hard, crs. blocky Granodiorite Bedrock. Rock is broken into orthogonal blocks approx. 0.2-0.6 m.
Refusal at 1.4m. (est. rippable w/ heavy equipment).	1.4 2	Refusal	1.4m Refusal. - Slightly broken, fresh, v. hard, competent crs. gr. Granodiorite.

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TEST PIT LOG

TEST PIT No. 9036-E
SHEET 5 of 8

PROJECT CASING
LOCATION OF TEST PIT CH. 35-45m
DATE AUG. 14, 1993

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.6m FINE GRAINED (SILTY), WELL GRADED COLLUVIUM (As Above).
	0.6	FR v. hard, crs. blocky Grano-diorite Bedrock.	0.6-1.4m FRESH, HARD, BLOCKY GRANODIORITE BEDROCK Crs. blocky, fresh, v. hard (R6) grano-diorite, as above. Also trace (<10%) residual gravelly sand as infill along fractures.
	1		
	1.4	Refusal	
	2		

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TEST PIT LOG

TEST PIT No. 1056-E
SHEET 6 of 8

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 45-70m & CH. 75-120m (E. ETIO)
GROUND ELEVATION
DATE AUG. 14, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.35m FINE GRAINED (SILTY), WELL GRADED COLLUVIUM
			(As Above).
	0.35		0.35-1.2m BROKEN ROCK w/ Some COLLUVIUM.
Difficult digging in broken rock w/ colluvium. (Est. easy ripping w/ heavy equipment).			Broken, crs. blocky, fresh, crs. gr. granodiorite bedrock (approx. 70-80%) w/ some (20-30%) brown f. grained colluvium (matrix) comprising v.f. sand and silt w/ some v.f. gravel and trace clay. Rock varies from 20-50cm dia. Matrix occurs along fracture openings between rock blocks.
	1		
	1.2	FR	1.2m FRESH, HARD, BLOCKY GRANODIORITE BEDROCK.
	2		

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TEST PIT LOG

TEST PIT No. 9036-E
SHEET 7 of 8

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 70-75 m
GROUND ELEVATION
DATE AUG. 14, 1993.
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.3m FINE GRAINED (SILTY), WELL GRADED COLLUVIUM. (As Above).
	0.3		0.3-1.3m MW, BADLY BROKEN, ROCK FRAGS. w/ some RESIDUAL SANDY MATRIX. Mw, badly broken, angular rock frags. (approx. 80%), ranging from 2-5 cm, w/ silty sand, some v.f. gravel matrix (approx. 20%). Rock frags. are v. angular, v. weak (limonite/hematite throughout). Material is clast (rock frag.) supported.
Moderately easy digging in broken fine blocky rock w/ residual sand matrix from 0.3-1.3m (est. easily bladeable w/ heavy equipment).	1		
Refusal in broken, fresh, hard Granodiorite at 1.3 m.	1.3	FR (Refusal)	1.3m BROKEN, FRESH, V. HARD GRANODIORITE BEDROCK.
	2		

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TEST PIT LOG

TEST PIT No. 90SE-E
SHEET 2 of 9

PROJECT CASINO
LOCATION OF TEST PIT CH. 75-120m (E.E.D)*
DATE AUG. 14, 1993 (*Same as CH. 45-75m).

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.35m FINE GRAINED (SILTY), WELL GRADED COLLUVIUM. (As Above).
	0.35		0.35-1.2m BROKEN ROCK w/ some COLLUVIUM. (As Above, see p. 6).
	1		
	1.2	FR	1.2m FRESH, HARD, BLOCKY GRANODIORITE BEDROCK
	2		

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TEST PIT LOG

TEST PIT No. 9036-F
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT R. ABUTMENT OF TAILINGS DAM
GROUND ELEVATION
DATE June 13/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Dry pit. Not frozen. Easy excavation with D7 cat in surficial COLLUVIUM	0		ORGANICS - Forest litter and thick mosses.
	0.1		0.1 - 0.5m FINE GRAINED COLLUVIUM. Brown, firm, sandy SILT w/ some fine gravel and clay. Well graded, poorly sorted material. Moist, no visible ice. Trace organics (fine roots).
9044-A1			
	0.5		0.5 - 1.5m COARSE COLLUVIUM / BROKEN ROCK. Brown, very coarse sandy GRAVEL w/ cobble to small boulder size, angular fresh rock fragments. Gravel clasts are hard, hematite stained, competent granodiorite fragments. Mat'l is medium dense. Mixture of crs. grained COLLUVIUM and broken, blocky BEDROCK (est. 50% each mat'l). Occ. lge. loose rock block up to 1m dia. *Excellent crs. gr. construction mat'l. Estimate: 50% crs broken blocky rock. 50% crs. angular colluvium. (-½" dia.). 20% +6" Max. 30 cm dia.
Very difficult digging in competent blocky rock. Excavated 35m long trench and cut along ℄ of proposed embankment → Consistent stratigraphy, lithology and unit thicknesses, as given.	1		
	1.5		1.5m SLIGHTY BROKEN, HARD BEDROCK. Slightly broken, very hard, competent, strong GRANODIORITE BEDROCK. Fresh rock - crs. granular intrusive → very strong. Strong, competent foundation for tailings dam.
No penetration in competent BEDROCK!	2		

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TEST PIT LOG

TEST PIT No. 9036-G
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT EXISTING VALLEY RD. ON E OF TAILINGS DAM SITE
DATE AUG 12, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Small pit excavated on existing valley trail ("4-trax" access rd.) * Permafrost at approx. 0.5m. (Permafrost thawed approx. 0.5m in 20 yrs.). Very difficult digging (can only scrape) w/ hoe in frozen f. gr. alluvial silty seds. from 0.5-0.8m. *Permafrost table at surface under moss blanket in fresh cut.	0 0.4 0.45 Permafrost ~0.8 1	FROZEN V. HARD ?	Vegetation: Sparse, stunted (6-7ft tall) black spruce. V. thick moss cover and hummocky tussock field (permafrost). 0-0.4m SOFT (THAWED) ALLUVIAL CLAYEY SILT Med. brown, soft (thawed), v. uniform, well sorted clayey SILT w/ some fine organics. → Previously frozen f. grained Alluvial sediments. 0.4-0.45m BLACK, SOFT PEAT LAYER Black, soft, spongy, fine fibrous organic (peat) layer. (Buried by recent alluvial silty sediments). 0.45m FROZEN (ICE-RICH) ALLUVIAL CLAYEY SILT Frozen, grey clayey SILT. Material is hard (frozen), ice-rich w/ abundant ice lenses up to 2cm thick, continuous. Estimate 40% excess (visible) ice by volume. Ice is v. hard, white, well bond, crystalline. *Note: Road initially stripped approx. 20 yrs. ago. However, vegetation was not completely removed, therefore thawing rate was decreased due to presence of insulating vegetative layer.

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TEST PIT LOG

TEST PIT No. 9036-H
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT SMALL PIT E. OF CASINO CK. ON VALLEY BOTTOM.
GROUND ELEVATION
DATE AUG 12, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Small test pit excavated approx. 20m east of Casino ck. No permafrost - likely result of meandering creek keep ground thawed. Groundwater table at 1.8m (approx. creek elev.). Alluvial sands & sands/gravels are loose, non-cohesive. Pit walls continually sloughing in to form large hole during excavation. V. easy digging in Alluvial mat'ls.	0 9036-H1 0.3 1 9036-H2 1.8 2 3 4		Vegetation: Tall willows and grass w/ some spruce trees. Thin moss cover (not hummocky → no permafrost). Distinct vegetation contrast w/ surrounding area characterized by v. thick moss, sparse black spruce and hummocky (frozen) terrain. 0 - 0.8m ALLUVIAL SAND. V. Loose, greyish brown, well graded Alluvial SAND. Alluvium is well sorted, moist, uniform. Particles are competent, sub-angular. → Recent alluvial (fluvial) sand deposited by Casino Ck. 0.8 - 4m+ ALLUVIAL SAND and GRAVEL V. Loose, alluvial sands and gravels (stratified). Sand is crs. grained w/ occ. crs. sand lense up to 0.2m thick. Gravel is v. hard (competent), sub-rounded, polylithic from 1 - 5 cm dia. (well graded). Also some small cobbles up to 10cm dia. → Potential crs. grained, clean, free-draining strong random fill or filter mat'l. V. high in-situ permeability. No fines. Est. 20% alluv. sand; 80% sand & gravel (interbeds)

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TEST PIT LOG

TEST PIT No. 905-1
SHEET 1 of 3

PROJECT CASINO
PROJECT No. 1931
LOCATION OF TEST PIT CH. 0-15m ; 15-50m
GROUND ELEVATION
DATE AUG. 15, 1975. 50m on ℄ W. Abutment.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. easy digging in colluvium and residual gravelly sand from 0 – 0.75m.	0		Vegetation: CH. 0-40m: (west section). Abundant birch and poplar (aspen) w/ some tall spruce. Thin moss cover. 10-20 cm thick root system.
	0.4		CH. 40-50m: (East section - base of slope) Fresh cut in permafrost at base of slope. Vegetation comprises only stunted black spruce, scrub willow and v. thick moss w/ sedge grass.
V. difficult digging in broken, fresh blocky granodiorite bedrock. * Trench frozen at base of slope (in valley). Refusal at 1.4 m. *CH. 45-50m: Groundwater table at 1m at base of slope.	0.75 1 1.4 2	FR Blocky hard Grano-diorite Bedrock. Refusal	0-0.4m FINE GRAINED COLLUVIUM. Dark brown, moist, med. dense sandy SILT w/ some fine gravel and trace organics and clay. -> Good, potential low permeability, dense compacted (core zone) embankment fill material. 0.4-0.75m. HW, RESIDUAL GRAVELLY SAND.* HW, med. dense (crumbly), dry residual gravelly SAND w/ trace to some silt and crs. gravel. Mat'l is moist (at approx. optimum moisture content). -> Potential low perm., dense compacted (core zone) fill material. * Residual sand pinches out downslope at CH. 35m -> colluv. over crs. blocky, fresh Granodiorite. (cont'd)...

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TEST PIT LOG

TEST PIT No. 93-1
SHEET 3 of 3

PROJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 15, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL ...(cont'd)
			0.75 - 1.4 m BROKEN, FRESH, CRS. BLOCKY, HALO GRANODIORITE BEDROCK.

Broken, v. crs. blocky, v. hard (R6), crs. grained, fresh Granodiorite Bedrock.

3 well developed fracture sets at:

1. 071/62 NW
2. 030/43 W
3. 014/09 W

Define orthogonal blocks ranging from 20-80 cm dia.

Fractures are typically rough, sub-planar, fresh.

→ Potential crs. blocky, competent riprap.

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TEST PIT LOG

TEST PIT No. [illegible]
SHEET 3 of 3

PROJECT CASINO
LOCATION OF TEST PIT CH. 10-15m
DATE AUG. 15, 1993

PROJECT No. 183'
GROUND ELEVATION
LOGGED BY MLJ

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium and residual gravelly sand, broken rock w/ residual gravelly sand from 0-1.3m. Mat'ls dry, well drained. Refusal at 1.3m.	0 0.5 0.8 1 1.3 2	FR Blocky Granodiorite (Refusal)	0-0.5m FINE GRAINED COLLUVIUM As Above, with some crs. blocks of fresh Granodiorite rock. 0.5-0.8m RESIDUAL GRAVELLY SAND (As Above, see p 1) 0.8-1.3m BROKEN, UW ROCK w/ some RESIDUAL GRAVELLY SAND. Broken, crumbly, dry, mod. weathered, mod. hard (R3) Granodiorite rock frags. w/ some crs. residual gravelly SAND matrix (approx. 15-20%). Rock frags are crs. gravel to cobble size, ranging from 2-7cm dia. Mat'l is clast supported, coarsens w/ depth to cobbly gravel, trace sand. 1.3m BLOCKY, FRESH GRANODIORITE BEDROCK Crs. blocky, fresh, crs. grained Granodiorite Bedrock.

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TEST PIT LOG

TEST PIT No. 9037-A
SHEET 1 of 2

OJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 22, 1993. 10m long at base of slope

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH[illegible]. Very easy excavation in surficial f.gr. topsoil and residual soil from 0 - 1.1m. Moderately easy excavation in broken rock from 1.1 - 2.4m. (result of small block size and presence of residual matrix).	0		Vegetation: Abundant tall spruce trees rooted in v. moist organic colluvial topsoil. Stunted black spruce w/ v. thick moss in valley → Permafrost.
			0-0.8m MOIST, SOFT COLLUVIAL F.GR. TOPSOIL *
	0.8		Brown, very moist, very soft, uniform clayey silt topsoil with abundant black fibrous silty peat (organics) and root fragments throughout. (Decrease moisture content upslope along road cut).
	1		
	1.1	SW-FR Broken, blocky hard Grano-diorite Bedrock	0.8-1.1m WET, LOOSE RESIDUAL SANDY SILT *
			Wet, soft and loose, residual sandy silt grading down to residual fine gravelly sand with some broken, angular rock frags. comprising Mod. weathered granodiorite from 3-10 cm dia.
	2		1.1 - 2.4m BLOCKY, BROKEN GRANODIORITE BEDROCK.
	2.4	Bottom (not refusal)	Hard, SW-FR, med. blocky, angular, broken Granodiorite bedrock with trace - some (est. 10%) residual sandy v. fine angular gravel. Rock blocks vary from 5-30cm dia., hard (R4) and competent (increase competency with depth). Rock is v. well drained (high in-situ permeability). Fracture surfaces are fresh, rough - v. rough, sub-planar to stepped.
	3		→ Good source of crs. grained, free draining, non-frost-susceptible rock fill.
			Rock is crs. blocky, v. hard at 2.4m.
	4		(cont'd)...

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9037-A
SHEET 2 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE AUG. 22, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (Cont'd)

* Note:

Surficial colluvial f.gr. topsoil decr. to approx. 0.5m thick upslope and overlies orange, slightly moist silty residual sand with some gravel. Residual soil is approx. 0.6m thick and overlies broken, mod. weathered Granodiorite Bedrock.

Brynelsen Valley (access rd. ditch cut):

Vegetation: Sparse, stunted black spruce and very thick moss.

Permafrost table at approx. 0.3m depth immediately under thick moss (insulating) layer.

Soils: Interbedded brown and grey fine sandy silts, clays and sands, overlain by thick black, spongy, soft saturated silty peat (organic-rich frozen topsoil under moss cover).

Alluvial silts, sands and clays are frozen, highly saturated w/ abundant v. thin, discontinuous ice lenses throughout silty/clayey mat'ls up to 2mm thick. Estimate 20-30% excess, visible ice. Silts and clays thaw to v. low strength, saturated soupy mess. Sandier mat'ls drain and set-up fairly well in spoil piles. (sandy mat'ls used for road building - haul mat'l up from ditch to road to allow drainage).

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TEST PIT LOG

TEST PIT No. 9038-A
SHEET 1 of 3

OJECT CASINO
LOCATION OF TEST PIT NORTH END. ADJACENT TO CANADIAN CK
DATE JUNE 27, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Moderately difficult digging in frozen colluv. but can excavate! Trench walls unstable during thawing. Continual sloughing & flowing along walls. Thaws to soupy "quicksand" at bottom of trench. Easier digging w/ depth as decr. excess ice content and saturation.	0 Active Layer 0.4 Permafrost Table 0.4m 1 Frozen 0.4-2.3m 2 2.3 3	Bottom	0.1 0-0.1m Thick moss, shrub willow (birch) vegetation. Hummocky moss (permafrost) and fresh granodiorite cobbles and boulders on surface. 0.1-2.3m MED. GR., WELL GRADED COLLUVIUM (FROZEN, ICE-RICH) Brown, loose-med. dense, frozen, massive COLLUVIUM comprising silty SAND w/ some gravel and cobbles. Rare small boulder up to 0.3m dia. Gravel and cobble clasts are matrix supported, iron stained (sw-MW), mod. hard granodiorite ranging from 0.5-10cm dia. Colluvium is poorly sorted, well graded. Est. 10% fines (silt) no clay. low plasticity, mod. low permeability. - Thawed colluvium has high water content (est. 20%). Colluvium is frozen, ice-rich. Thin (1-2mm) ice lenses present in finer grained matrix. Estimate 30% excess, visible ice. Ice is well bonded (can only chip w/ geologic pick). Decrease moisture & ice content w/ depth. Est. med. saturation. Decr. saturation w/ depth as incr. grain size. Also decr. moisture and excess ice content to approx. 10% - ice poorly bonded ∴ easy excavation.

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TEST PIT LOG

TEST PIT No. 9038-A
SHEET 2 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT SOUTH END (20m) EAST WALL OF TRENCH
GROUND ELEVATION
DATE JUNE 27, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Fairly easy digging in boney, loose to med. dense, non-frozen Colluvium. Fairly stable trench walls in non-frozen colluvium.	0 0.1 9038-A1 1 2 3 3.2 Bottom. 4		S. End only partially frozen → Discontinuous permafrost (patchy) since adjacent to Canadian Creek. 0-0.1m Organic mat of thick moss and shrub birch vegetation (same as N. end). 0.1-3.2m MED. GR., WELL GRADED COLLUVIUM (NOT FROZEN) (Same as N. End, see p 1, but NOT FROZEN).

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9038-A
SHEET 3 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT SOUTH END (20m) WEST WALL OF TRENCH
GROUND ELEVATION
DATE JUNE 27, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Fairly easy digging in boney colluv. and underlying alluvium.	0		0.1 0-0.1m Thick moss and shrub birch vegetation w/ willows
	1		0.1-1.6m MED. GR., WELL GRADED COLLUVIUM (NOT FROZEN) (As Above, see p. 2, 0.1-3.2m).
	1.6		1.6-3.2m ALLUVIAL GRAVEL & SAND
	9038-A2		Coarse grained ALLUIAL fine gravel and sand w/ trace - some silt (~10%). Alluvium is mod. well sorted. Lower fines content and lower coarse gravel content than overlying colluvium. Clasts somewhat imbricate & elongate sub-horizontal suggesting alluvial transport. - Mat'l is free draining, est. high permeability.
Patchy permafrost at S. End of trench as evident by unstable (melting & flowing) zones approx. 2m thick. (Below 2m mat'ls well drained ∴ no permafrost).	2		⇒ Trench apparently excavated near margin of Canadian Creek alluvium and colluvium deposited along the adjacent slope.
	3		
	3.2		
	4		

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TEST PIT LOG

TEST PIT No. 9033-B
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT E. END. (50m SECTION)
DATE July 6, 1993.

PROJECT No. 18
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		Surface: Moss, assorted willows and crs.
Ground frozen under moss & talus → Permafrost.	Permafrost table. 0.15		0-0.15m. blocky talus, some small (scrub) black spruce trees. Thick slide alder upslope
			0.15-0.6m COARSE BLOCKY TALUS Very coarse, hard, competent blocky talus boulders from 15cm-0.8m dia. Lichen on most talus blocks (no recent activity on slope). Talus comprises v. hard crs. grained fresh granodiorite.
Difficult digging in boulder talus and frozen residual material / broken rock.	0.6		0.6-1.4m FROZEN ORGANIC-RICH SOIL
Moderately easy digging in frozen, organic-rich soil.	1		Dark brown - black frozen, hard very fine fibrous peat (black organics) and clayey SILT. (dark brown mineral topsoil). * Material contains v. thin visible, randomly oriented ice lenses from 0.5-1mm thick. Estimate 10% excess ice by volume, medium saturation. Ice mod. well bonded. Fibrous peat is interbedded w/ clayey silt.
Very difficult digging in frozen, ice-rich, broken rock.	1.4		1.4-1.7m FROZEN, BROKEN ROCK FRAGS. Slightly weathered, hard broken granodiorite fragments supported w/ some frozen residual SAND matrix. Material is ice-rich with 6" thick ice wedges present between rock fragments. Rock frags. are hard, SW med.-crs. grained granodiorite. Estimate 40% excess ice as wedges. Ice is clear, mod. hard, granular.
Refusal at 1.7m in frozen, broken rock.	1.7 Refusal (bottom)		No clear evidence of competent bedrock but estimate ~2m depth. based on crs. nature of broken rock.
	2		

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9038-8
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT W. END (10m SECTION)
DATE July 6, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Mod. difficult digging in loose, crs. blocky talus.	0 Permafrost table. 0.15		Surface: (same as E. End - see p. 1). 0.15 - 0.7 m CRS. BLOCKY HARD TALUS Blocky crs. talus blocks of fresh, hard GRANODIORITE with v. thin cover of moss & peat with roots.
Colluvium frozen but fairly easy digging since no excess ice present. (poorly bonded).	0.7 1 1.3 Bottom. 2		0.7 - 1.3 m FROZEN, CRS. GR. COLLUVIUM. Broken, slightly weathered (oxidized) granodiorite rock fragments in matrix of orange-brown crs. residual gravelly SAND. Material is loose & frozen but no excess ice (well drained). Mat'l is wet. Estimate med. saturation. Mat'l is fairly stable during thawing due to crs. gr. nature. Rock frags. are sub-angular, hard and range from 5-15 cm. Estimate 50% crs. gravel & cobble clasts; 50% residual / colluvial SAND matrix.

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TEST PIT LOG

TEST PIT No. 9038-C
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE JULY 6, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench frozen Permafrost table at 0.3m depth under thick cover of moss. Trench cut fresh (no stripping). Refusal in frozen ground at 0.5 m depth. Trench thawed approx. 1.0 ft. in a few days.	0 Permafrost table 0.5 1	0.3 Refusal (bottom)	Surface: Thick moss, scrub willow and occasional stunted black spruce vegetation. 0-0.3m FROZEN PEAT & SILT. Frozen peat and silt under moss. Mat'l turns to muck when thawed. 0.3-0.5m FROZEN COLLUVIUM and TALUS Brown, thawed, very wet (saturated) crs. grained SAND w/ some silt and gravel to small boulder clasts. Occasional boulder up to 1.5m dia. All clasts comprise fresh, very hard granodiorite.

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TEST PIT LOG

TEST PIT No. 9039-A
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JULY 11, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in loose residual gravelly sands. Moderately difficult digging in broken, fresh granodiorite bedrock. (easily rippable down to 2.2m)	0 0.2 9039-A1 0.8 1 2 2.2 3	FR Broken GRANO-DIORITE Bottom.	0-0.2m Moss, organic topsoil with abundant roots. 0.2-0.8m RESIDUAL SANDS. Orange-brown, loose, slightly moist fine gravelly uniform SAND with some silt. Material is heavily oxidized crs. granular residual material. Trace fine organics (root frags.) Estimate moderately high permeability. Material coarsens down to fine gravelly SAND with some angular fine-med. granodiorite rock fragments. 0.8-2.2m BLOCKY, BROKEN, FRESH GRANODIORITE Very hard, fresh, coarse blocky crs. grained GRANODIORITE BEDROCK. Rock is slightly broken with fractures steeply dipping. Fractures are smooth-rough, planar, spaced 10-30cm Fracture orientations: 1. 150/90 2. 152/49 SW 3. 033/50-70 W 4. 046/43 SE * Potential excellent source of fresh, competent v. crs. rockfill or rip-rap.

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TEST PIT LOG

TEST PIT No. 9039-A
SHEET 2 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT MIDDLE (10m) SECTION OF TRENCH.
GROUND ELEVATION
DATE JULY 11, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH109LC. Easy digging in colluvium. Moderately difficult digging in fresh, blocky, hard GRANODIORITE BEDROCK	0 0.2 0.9 1 2 3	FR Coarse, blocky fresh GRANODIORITE Bottom	0-0.2m ORGANIC TOPSOIL, as above 0.2-0.9m SANDY COLLUVIUM Brown, loose silty SAND with some fine gravel, trace clay. Fine organics throughout (trace). Material is slightly moist, well graded, poorly sorted, massive colluvial deposit. 0.9-2.0m HARD, FRESH GRANODIORITE ROCK Coarse, very hard, fresh, slightly broken, blocky GRANODIORITE BEDROCK. Potential good source of coarse, strong rock fill or rip-rap. * Estimate blade down 1m in residual sands / colluvium; rip down additional 1-2m in broken, fresh granodiorite. * Occasional heavily weathered, oxidized zone in granodiorite bedrock along trench down to 2m (bottom). Estimate 10% HW. Remaining 90% is fresh, hard, competent, blocky coarse grained granodiorite. (Moderately easy digging in HW rock sections).

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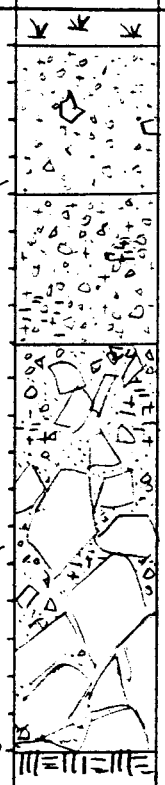
TEST PIT LOG

TEST PIT No. 2033-B
SHEET 1 of 1

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 13 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• EXCAVATED WITH HITACHI UH09LC HOE. • TRENCH BOTTOM ABOVE WATER TABLE. REFUSAL BY HOE IN FRESH BLOCKY BEDROCK.	0.0 0.5 1.0 1.5 2.0 2.5		0.0 - 0.1 m • ORGANICS - mosses, forest litter with abundant root mass. 0.1 - 0.5m • SAND AND GRAVEL, SOME SILT Brown, slightly moist (dry of optimum), medium dense SAND AND GRAVEL with some silt and the occasional angular clast (typ +4" to 8") of coarse grained Hornblende-Biotite Granodiorite. Suspect unit has been reworked by roots and snowmelt water → RESIDUAL/COLLUVIAL SOIL. 0.5 - 0.9m • SAND AND GRAVEL (RESIDUAL) Brown-orange (limonite stained) SAND AND GRAVEL (to sandy GRAVEL) with trace to some silt and pockets or lenses of clayey SAND AND GRAVEL. Generally material is medium dense, slightly moist and well graded. In some areas, clayey SAND AND GRAVEL zones extend to bottom of trench. They are typically 1 to 2 metres wide → may be evidence of shear zones though no gouge seams were observed, i.e. suspect simple alteration wards around veins 0.9 - 2.0m • BEDROCK Slightly broken, slightly weathered, coarse grained, blocky, angular, hard GRANODIORITE predominates with some bands of very broken, heavily weathered (or ARGILLICALLY altered?) Limonite stained, weak, friable rock as noted above. 2.0m + • REFUSAL IN BLOCKY (20-30cm) ANGULAR FRESH STRONG BEDROCK. → PREDOMINANTLY HORNBLENDE-BIOTITE GRANODIORITE

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TEST PIT LOG

TEST PIT No. 9039-C
SHEET 1 of 5

PROJECT CHSINO
PROJECT No. 1931
LOCATION OF TEST PIT CH. 0-20m (Ridge-line portion)
GROUND ELEVATION
DATE AUG. 18, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. V. easy digging in topsoil and residual sands. Moderately difficult digging in broken bedrock at 0.5m. V. difficult digging → refusal at 1.7m.	0		Vegetation: Abundant, closely spaced tall spruce w/ some birch. Thin moss cover (10-15cm thick). Thin (5cm.) lt. grey volcanic ash layer under moss. (same vegetation as 9040-C).
	0.2		0-0.2m SILTY ORGANIC TOPSOIL. Reddish brown organic, soft topsoil comprising uniform dry silt and organics (roots).
	0.5	Broken, blocky Granodiorite/ Quartzite/ EW gouge zones.	0.2-0.5m RESIDUAL GRAVELLY SAND. Loose, dry to sl. moist, HW, orangish/ reddish brown, residual fine gravelly SAND. Particles are weak, v. angular, heavily iron oxidized throughout (typical residual gravelly sand soil).
	1		0.5-1.7m BROKEN, BLOCKY GRANODIORITE/ QUARTZITE/ GOUGE (EW) ZONES. Broken, MW, mod. hard (R3), med. blocky Granodiorite. Rock is weak & friable at top, increases in competency down to hard, SW-FR granodiorite. Top comprises some (approx. 20%) residual gravelly sand matrix.
	1.7	Refusal (bottom)	* Ridge portion of trench comprises quartzite (Yukon Metamorphic rock) and HW-EW granular clay gouge zones. Suspect near contact between ...
	2		

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TEST PIT LOG

TEST PIT No. 9039-C
SHEET 2 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 0-30m (cont'd)
DATE AUG. 18, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... Yukon metamorphic rocks and Dawson Range granodiorite as evident by badly broken and heavily weathered nature of rock. Quartzite is v. fine grained, brittle w/ conchoidal (undulating) fractures when broken, broken into 3-5 cm dia. pieces. Occasional zone (up to 2m wide) of white - lt. orange clayey granular gouge-like mat'l → could be extremely weathered (preferential weathering) zone in host granodiorite / quartzite. (gouge mat'l comprises approx. 20% of top portion of trench from CH. 0-30m). 1.7m Refusal - all along top portion of trench.

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TEST PIT LOG

TEST PIT No. 9039-C
SHEET 3 of 5

ROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 20-24m (Corner of trench on ridge)
GROUND ELEVATION
DATE AUG. 18, 1993.
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.2m SILTY ORGANIC TOPSOIL + RESIDUAL SAND.
Difficult digging in fresh, blocky, broken granodiorite rock to 1.2m.	0.2	FR Broken, blocky, fresh Granodiorite Bedrock.	0.2-1.2m BROKEN, BLOCKY, FRESH GRANODIORITE BEDROCK. Broken, blocky, fresh, v.hard crs.gr. Granodiorite bedrock. Blocks are orthogonal, range from 5-30 cm dia.
	1		1.2m Refusal in sl. broken Granodiorite.
Refusal at 1.2m	1.2	Refusal (bottom)	
	2		

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TEST PIT LOG

TEST PIT No. 9039-C
SHEET 4 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 24-35m & CH. 50-60m (N. END)
GROUND ELEVATION
DATE AUG. 18, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in topsoil and residual gravelly sand. Fairly easy digging in HW, badly broken, weak granodiorite bedrock from 0.5-1.4m. Refusal at 1.4m.	0 0.2 0.5 1 1.2 1.4 2	HW Broken, weak Granodiorite. or/ Residual gravelly sand to 1.2m. SW-FR V. hard Granodiorite Rock.	0-0.2m BROWN SILTY TOPSOIL. Light brown, moist, soft clayey SILT w/ some v. fine sand & trace v. fine organics. Mat'l is very uniform, poorly drained (moist). 0.2-0.5m RESIDUAL GRAVELLY SAND Reddish brown fine residual gravelly SAND. Mat'l is dry - sl. moist, well drained. Gravel is HW, v. weak, ranges from 0.5-1cm dia. granodiorite frags. Grades down to MW, broken rock. 0.5-1.4m HW, BADLY BROKEN, WEAK GRANODIORITE BEDROCK* HW, badly broken, weak to mod. hard, heavily iron oxidized Granodiorite bedrock. Rock is heavily fractured & friable. Some (approx. 20%) residual, HW fine gravelly sand matrix w/ rock. *Occasional zone of residual gravelly sand down to 1.2m over granodiorite bedrock (est. 30-40% of trench 1.4m. SW-FR, V. HARD GRANODIORITE SW-FR, v. hard, blocky Granodiorite Bedrock at 1.4m. → Refusal.

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TEST PIT LOG

TEST PIT No. 9039-C
SHEET 5 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 35-50m.
DATE AUG. 18, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.5m BROWN SILTY TOPSOIL * (As above, see p. 4) * Incr. thickness of topsoil downslope.
	9039-C1 0.5		0.5-1.0m RESIDUAL GRAVELLY SAND * (As above, see p. 4) * Incr. thickness of residual sand to 0.5m downslope.
	1	MW, Broken	1.0-1.4m MW-FR GRANODIORITE BEDROCK Mw → Fr, broken, friable → fresh, broken blocky Granodiorite Bedrock.
		FR, Blocky	
	1.4		1.4m Refusal.
	2		

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9040-A
SHEET 1 of 1

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 13, 1993
LOGGED BY JWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• EXCAVATED WITH HITACHI UH09LC HOE • TRENCH IS DRY • EASY DIGGING IN RESIDUAL SOIL	0.5		0.0-0.1 m • ORGANICS - mossy forest litter and abundant root mass. 0.1-1.2 m • SAND AND GRAVEL, SOME SILT (RESIDUAL) - Brown-grey/orange (iron oxide stained), moist (slightly dry of optimum), medium dense SAND AND GRAVEL with some silt. Generally the unit coarsens downwards as it "grades" towards bedrock.
9040-A1	1.0		Some areas of this unit exposed an approximately 40cm thick orange-tan sandy SILT, and beige-grey silty GRAVEL with some clay, horizontally banded, discontinuous medium dense, moist deposit. Occasional sub-angular to sub-rounded cobble sized clasts of granodiorite within deposit → suggests reworking of residual soil by FLUVIAL processes.
• MODERATELY DIFFICULT DIGGING IN WEATHERED ROCK → SHOULD BE EASILY RIPPABLE WITH CAT	1.5		
• BEDROCK IS TOO BROKEN AND DISTURBED BY HOE FOR GOOD JOINT SET ORIENTATIONS	2.0		1.2-2.7m • HORNBLENDE-BIOTITE GRANODIORITE Moderately weathered, broken to very broken, blocky, angular igneous rock. Limonite and Hematite staining on joint/fracture planes. Some sandy coarse angular gravel (very broken weathered rock) in between sections of blockier slightly weathered rock. Generally rock is weak and friable at top of unit grading into coarser, harder more competent rock. Refusal with hoe at ~2.7m depth.
• REFUSAL BY HOE	2.5		Some portions of trench expose very broken, moderately weathered friable rock to base of trench.
	3.0		

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TEST PIT LOG

TEST PIT No. 9040-B
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE JULY 18, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY JWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
EXCAVATED WITH HITACHI UH08LC HOE	0.0		0.0 - 0.2m • ORGANICS - mosses, forest litter, abundant root mass.
	0.5		0.2 - 0.6m • SANDY SILT, TRACE TO SOME GRAVEL Greyish-brown, moist (near optimum on dry side), medium dense sandy SILT with a trace to some gravel. Some fine white root fragments and the occasional cobble to boulder sized angular, limonite stained, igneous rock
9040-B1	1.0		
	1.5		0.6 - 1.1m • SANDY GRAVEL, TRACE SILT (RESIDUAL) Orange (Iron Oxide stained), moist (estimate slightly dry of optimum m/c), medium dense sandy GRAVEL with a trace of silt. Occasional root fragments. In places this material is pinkish or greenish grey in colour, with "silty" and "some clay" descriptors applicable and extends to base of trench → heavily weathered/Argillically Altered rock.
REFUSAL WITH HOE.	2.0		1.1 - 2.0m • BROKEN, WEATHERED ROCK Moderately, to heavily, weathered, v. broken Iron Oxide stained, well drained, Friable rock/sandy GRAVEL residual soil with angular blocks (typ - 18") of hard weathered rock. Clast supported.
	2.5		2.0m + • GRANODIORITE Fresh, hard, slightly broken, coarse grained Horblende - Biolite Granodiorite with Iron Oxide (Limonite) staining on smooth, planar, continuous joint surfaces. Joint orientations 298/81 WEST 308/62 EAST 082/62 SOUTH.

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TEST PIT LOG

TEST PIT No. 9040-C
SHEET 1 of 4

PROJECT CASINO
PROJECT No. 1931
LOCATION OF TEST PIT CH. 0-13 m (S.END) 42 m long at 050° BRG.
GROUND ELEVATION
DATE AUG. 18, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		**Vegetation:** Abundant tall spruce w/ some birch and aspen. V. thin (5-10 cm) moss/lichen cover. Thin (20cm) vegetative mat of roots. Tree trunk dia. to 30 cm.
	0.2		0-0.2m **SILTY TOPSOIL w/ ORGANICS.** Lt. brown-tan, soft, uniform silt w/ some clay and v. fine sand, trace fine organics. Mat'l is dry silty organic topsoil.
V. easy digging in f.gr. topsoil and residual gravels.			0.2-0.5m **RESIDUAL SANDY GRAVEL** Light orangish tan, dry residual sandy fine-med. gravel. Approx. 60-70% gravel, comprising mod. hard, angular, MW granodiorite frags. from 1-5 cm dia. Mat'l is very well drained (high in-situ permeability)
Trench is dry, non-frozen. Mat'l is well drained.	0.5	FR Hard, fresh blocky Grano-diorite	
	1		0.5-1.7m **FRESH, HARD, BLOCKY GRANODIORITE BEDROCK** Fresh, hard (R5), broken, blocky, crs. grained Granodiorite Bedrock. Rock is mod. fractured. Fractures are rough, sub-planar, fresh, dry, spaced 5-15 cm, well developed at: 1. 051/78SE 2. 143/64SW Blocks range in size from 10-30 cm dia. Occasional crumbly zone between rock blocks up to 30cm thick comprising MW, residual sandy fine gravel. → Potential source of crs. blocky, competent rockfill.
V. difficult digging in broken, fresh hard granodiorite rock at 0.5 m. (estimate rippable since rock is fractured into blocks).	1.7	Refusal (bottom)	
	2		CH. 10m: 20cm thick shear zone compr. sandy silt w/ clay.

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TEST PIT LOG

TEST PIT No. 9040-C
SHEET 2 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 13 - 22 m
DATE AUG. 18, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.2m FINE GRAINED COLLUVIAL TOPSOIL
Easy digging in colluv. and residual gravels.	0.2		Brown, loose-med. dense, moist well graded fine grained colluvium / topsoil comprising clayey SILT w/ some v. fine sand, grading down to residual sandy gravel. Trace organics in colluv. topsoil. Relatively high moisture content (poor drainage) supports spruce tree growth.
Moderately difficult digging in broken rock w/ matrix from 0.5-1.4m	0.5		0.2-0.5m RESIDUAL SANDY GRAVEL (As above, see p. 1).
			0.5-1.4m BADLY BROKEN GRANODIORITE ROCK w/ some GRAVELLY / SANDY MATRIX
	1		Badly broken, med.-crs. blocky, fresh, v. hard crs. grained Granodiorite Bedrock w/ some residual and colluvial matrix (est. 20%) comprising brown sandy gravel - broken rock frags. w/ trace - some silt.
Refusal in sl. broken, fresh, v. hard Granodiorite at 1.4m.	1.4	FR Blocky, sl. broken Grano-diorite Bedrock.	1.4m FRESH, HARD GRANODIORITE BEDROCK. Slightly broken, blocky, v. hard, fresh Granodiorite. Blocks from 10-30cm dia. (Refusal w/ hoe).
	2		

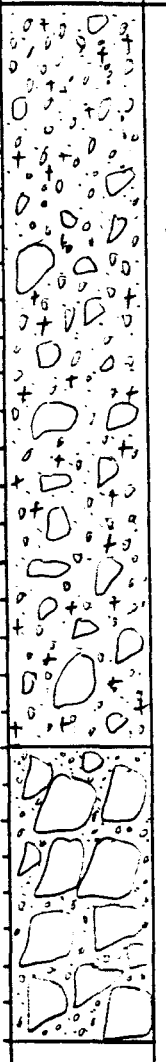
KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9040-C
SHEET 3 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH 32-38 m
DATE AUG. 18, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy excavation in colluvium from 0-1.0 m.	0 1 1.4 2		0-1.0m WELL GRADED, CRS. GRAINED COLLUVIUM* Mixture of brown, med. dense sandy/silty gravel, and broken granodiorite rock frags. All clasts comprise MW, mod. hard, angular granodiorite rock. Gravel ranges from 0.5-3cm dia. Rock frags are crs. gravel to small cobble size & range from 3-10 cm dia. Est. approx. 70% sandy/silty gravel; and 30% rock frags. Mat'l is v. well graded, non-plastic, moist. → Potential source of random fill. * Incr. in thickness from 0.2 - 1.0m + downslope. 1.0-1.4m BADLY BROKEN GRANODIORITE ROCK w/ some GRAVELLY/SANDY MATRIX. Badly broken Granodiorite Bedrock w/ some matrix, (As Above, see. p. 2, 0.5-1.4m)

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TEST PIT LOG

TEST PIT No. 9040-C
SHEET 1 of 4

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH 38-42m (N. END)
GROUND ELEVATION
DATE AUG. 18, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi [illegible]	0		
	9040-C1 Composite.		
Easy digging in colluv. and residual soils from 0-1.4m.			0-0.5m WELL GRADED SANDY/GRAVELLY COLLUVIUM + RESIDUAL SOIL. Brown, med. dense gravelly SAND w/ some silt, trace clay → well graded, medium grained colluvium + residual soil mixture (No organics).
	0.5		0.5-1.4m RESIDUAL GRAVELLY SAND. Orangish lt. brown, well drained residual fine gravelly sand w/ trace silt (~5-10%). Gravel clasts are angular, mod. hard, range from few mm to 1cm dia. Mat'l at approx. optimum moisture → Potential random fill material. (may also combine w/ colluvium + residual soil from 0-0.5m for random fill source).
Trench is dry, walls stable.	1		
Moderately easy digging in HW, weak Granodiorite at 1.4m.	1.4	HW, v. weak, friable Grano-diorite ↓ ?	1.4m BADLY BROKEN, WEAK, HW GRANODIORITE. very badly broken, v. weak, friable, HW granodiorite at bottom of trench (1.4m) Estimate total depth-of-weathering at 2.5m along lower portion of slope. (to 0m along ridge-line, upslope).
	2		

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TEST PIT LOG

TEST PIT No. 9041-A
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT E. END *
DATE JULY 10, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium and residual/ colluvial materials.	0 0.3 0.8 1 1.8 2		0-0.3m ORGANIC SOIL & SANDY SILT Dark brown to black organics and sandy SILT with trace clay mineral soil. (Abundant roots). 0.3-0.8m WELL GRADED COLLUVIUM Light brown, very moist, medium dense gravelly SAND and SILT. with trace clay. Material is very well graded, poorly sorted. 0.8-1.8m RESIDUAL/COLLUVIAL SANDS AND GRAVELS, trace SILT. Orange, wet SAND and GRAVEL with trace silt. Material is well graded mixture of colluvium and residual sand / gravel. Clasts from few mm to few cm dia. → Free draining, coarse granular material. Estimate high permeability. Mat'l is wet but would likely make good construction mat'l if allowed to drain. * Same materials to W. End of trench. Bottom ½ of trench frozen at surface under moss. Abundant tall black spruce. Materials thawing and flowing into bottom of trench. Mud flow w/ small boulders flowing in bottom of trench.

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TEST PIT LOG

TEST PIT No. 9041-A
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT W. END*
DATE JULY 10, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in loose, wet f.gr. colluvium. Trench walls very unstable and eroding away in alluv. and residual materials.	0 1 Permafrost table. 1.5 2 2.5 3		0-1.5m F.GR. COLLUVIUM & ORGANICS Dark brown - black sandy SILT with some gravel and clay with occasional organic (peat) lenses. Material is very loose, wet. 1.5-2.5m COLLUVIUM / RESIDUAL SAND. Light brown gravelly SAND with some cobbles. Mixture of colluvium and residual sands. Both materials are highly saturated and unstable during thawing. Loss of strength during thaw due to high total moisture content. Refusal in frozen ground at 2.5m. * Far West end: Approx. 50m section frozen at surface under moss. Permafrost continues downslope to the west, toward Casino Creek valley.
Very difficult digging in frozen ground at approx. 2.5m.			

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TEST PIT LOG

TEST PIT No. 9041-D
SHEET 1 of 6

PROJECT CASINO
LOCATION OF TEST PIT CH. 0-7m
DATE AUG. 15, 1993. E. Abutment Tailings Dam Site.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in residual sands + HW grano. rock frags. w/ residual sandy gravels. from 0-1.1m.	0		Vegetation: Closely spaced poplar (aspen) up to 6" dia. Lare tall spruce. Vegetation characteristic of v. well drained (residual) soils. V. thin moss cover over residual sandy soil over bedrock (no colluvium).
	0.2		0-0.2m ORGANIC TOPSOIL + ROOTS
	0.4		0.2-0.4m RESIDUAL GRAVELLY SAND Orangish tan residual gravelly SAND w/ trace silt. Mat'l is dry, med. dense. → Residual dry sand interbedded w/ residual sandy fine gravel. (re-worked residual soil, transported downslope).
	1		0.4-1.1m HW GRANODIORITE ROCK FRAGS. w/ RESIDUAL SANDY GRAVEL. HW, orangish tan, badly broken Granodiorite bedrock frags. w/ some crs. angular sandy gravel (residual) matrix. Frags. are all angular, weak (R1), platy. Matrix comprises approx. 30%; 70% broken rock. Mat'l is very dry (very well drained - high in-situ permeability) & crumbly.
Difficult digging in crs. blocky Granodiorite Bedrock at 1.1m.	1.1	FR Hard, fresh, blocky Granodiorite Bedrock.	
Refusal at 1.6m	1.6	Refusal	1.1-1.6m HARD, FRESH GRANODIORITE BEDROCK Broken, v. hard (R6), fresh, blocky Granodiorite Bedrock.
	2		

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TEST PIT LOG

TEST PIT No. 9041-D
SHEET 2 of 6

PROJECT CASINO
LOCATION OF TEST PIT CH. 7-10 m
DATE AUG. 15, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. difficult digging in blocky Granodiorite from 0.2 - 1.9m (estimate easy ripping) Trench is very dry. Mat'ls are well drained.	0 0.1 0.2 1 1.9 2	FR-SW. Crs. blocky Granodiorite Bedrock w/some residual sand.	0-0.1m VEGETATIVE MAT - MOSS + ROOTS 0.1-0.2m RESIDUAL SAND Dry residual sand w/ some v. fine gravel. 0.2-1.9m FRESH, BLOCKY GRANODIORITE BEDROCK w/ RESIDUAL SAND FR-SW, crs. blocky Granodiorite Bedrock w/ some (15-20%) residual, dry sandy fine gravel matrix. Rock blocks are v. hard (R5-R6), angular, orthogonal, range from 0.1-0.4m dia. → Potential good source of crs. blocky, competent rockfill or riprap. Refusal at 1.9m.

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9041-D
SHEET 3 of 6

PROJECT CASINO
LOCATION OF TEST PIT CH 10-40m
DATE AUG. 15, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. easy digging in dry, loose residual sandy gravels. from 0-1.0m.	0 0.1		0-0.1m VEGETATIVE MAT – MOSS + ROOTS 0.1-1.0m RESIDUAL SANDY FN. GRAVEL Lt. orange-tan, dry, crumbly residual sandy fine gravel. Gravel is weak (R1-R2), MW (limonite throughout), angular. Particles are weak, somewhat elongate (platy), ranging from 0.5-3 cm dia. Residual mat'l also contains some large gravel to small cobble size rock frags. → Potential random fill.
Fairly easy digging in badly broken rock w/ sandy gravel matrix from 1-2.5m	1	MW Badly broken Grano-diorite Bedrock w/ trace-some sandy gravel matrix. ↓ SW-MW 2.5m depth.	1.0-2.5m MW, WEAK, BADLY BROKEN GRANODIORITE ROCK Lt. orange-tan, MW, weak, sheared & badly broken bedrock w/ trace to some (10-15%) sandy fine gravel matrix. Mat'l is v. dry (v. high in-situ perm.), v. well drained. Rock frags. are elongate 0.5-1cm thick x 2-5cm long, v. angular, aligned sub-vertical, perpendicular to trench. Incr. rock frag. size w/ depth to SW-MW, mod. hard, med. blocky granodiorite bedrock. 2.5m Refusal in broken Granodiorite Bedrock.
	2		(cont'd)...

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TEST PIT LOG

TEST PIT No. 9041-D
SHEET 4 of 6

PROJECT CASINO
LOCATION OF TEST PIT CH. 10-40 m.
DATE AUG. 15, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	2	SW-MW Grano-diorite Bedrock	--- (cont'd). Fracture measurements in MW, broken Granodiorite Bedrock: CH. 24m: Fracture orientation measurements 1. 113/60 S 2. 030/80-90° W 3. 172/50° E Define orthogonal blocks. Fractures are v. rough, SW (limonite on surface), sub-planar, continuous, dry, 5-10 cm spacing.
	2.5	Refusal	
	3		CH. 23m: Shear Zone Sub-vertical shear zone cross-cutting (perpendicular) trench. Zone comprises dry, crumbly med. dense silty sand w/ trace clay. Shear zone is approx. 0.5m wide and extends to bottom of trench at 2.5m.

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TEST PIT LOG

TEST PIT No. 9041-D
SHEET 5 of 6

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 40-100m; 112-150m (W. End)
GROUND ELEVATION
DATE AUG. 15, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.4m RESIDUAL SILTY SAND w/GRAVEL
			Dry, residual silty SAND w/ some v. fine angular gravel. Mat'l is loose, crumbly. Particles are weak.
			→ Potential dense, low perm. compacted (core zone) fill material.
Very difficult digging in broken, crs. blocky Granodiorite from 0.4-1.7m. (est. easily rippable w/ heavy equipment)	0.4	MW, mod. hard Granodiorite Bedrock	0.4-1.7m CRS. BLOCKY, FR-MW GRANODIORITE B/R
			FR-MW, mod. hard to v. hard (at bottom), crs. blocky Granodiorite Bedrock.* Blocks are orthogonal, equidimensional (typical), range from 10-70 cm dia.
	1		→ Potential source of v. crs. rockfill or riprap.
			* some dry residual fine gravelly sand. (estimate 15%) infill between granodiorite blocks.
			* Occasional zone of MW, weak, friable, badly broken rock to 1.7m over hard, crs. blocky granodiorite.
Refusal at 1.7m	1.7	FR, v. hard crs. blocky Granodiorite	
	2		

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TEST PIT LOG

TEST PIT No. 9041-D
SHEET 6 of 6

PROJECT CASINO
LOCATION OF TEST PIT CH. 100-112m
DATE AUG. 15, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in dry, HW residual silty/gravelly sands. All mat'ls dry (well drained) Moderately easy digging in badly broken (sheared) Granodiorite rock from 1 - 2.3 m.	0		0-1.0 m RESIDUAL SILTY/GRAVELLY SAND Dry, crumbly, HW, orangish tan, residual silty, fine gravelly SAND. Mat'l is med. dense. Frequent iron oxide bands (possibly re-worked) → Potential low perm., dense, compacted (core zone) fill material.
	1	HW, Sheared, badly broken, weak Granodiorite with residual SAND matrix	1.0-2.3 m BADLY BROKEN (SHEARED), FRIABLE GRANODIORITE ROCK. Sheared, badly broken, HW, weak, friable Granodiorite rock w/ some residual silty/gravelly SAND matrix (approx. 20-30%). Broken rock frags. apparently aligned and elongate across trench at ~150°, sub-vertical. → Mat'l appears sheared - likely shear zone which has induced preferential (accelerated) weathering to friable, oxidized, badly broken to pulverized Granodiorite rock.
	2		
	2.3		

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TEST PIT LOG

TEST PIT No. 9041-E
SHEET 1 of 4

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT Top East End of Trench
GROUND ELEVATION
DATE July 22 1995
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• Excavated with Hitachi Hydraulic Hoe.			0.0-0.1m · ORGANICS - mosses, forest litter, grasses and abundant root mass
• Difficult to very difficult digging	0.5		0.1-1.05m · CLAST SUPPORTED COLLUVIUM Beige-grey, moist (near optimum est'd ± 2%) sandy GRAVEL with trace silt matrix, occasional root fragments, in clast supported (60-70%) COLLUVIUM. Clasts are very hard, angular, Limonite stained, coarse grained GRANODIORITE (typically +1½" to -24" well graded broken rock → TALUS?)
Refusal with hoe in very blocky Talus/ Broken Bedrock	1.0	BEDROCK OR TALUS (?)	Refusal at 1.05m depth in very blocky (+36" not uncommon), hard fresh GRANODIORITE.
	1.5		
	2.0		

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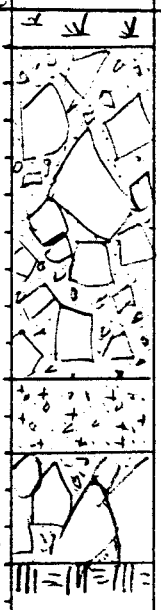
TEST PIT LOG

TEST PIT No. 9041-E
SHEET 2 of 4

PROJECT Casino
LOCATION OF TEST PIT 3/4 km upstream from L.F. road
DATE July 22 1993
PROJECT No. 1291
GROUND ELEVATION
LOGGED BY TAC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
- Excavated with Hitachi UH09CC Hoe.	0.0		0.0 - 0.10 m • ORGANICS - rootmat, forest litter and mosses.
	0.5		0.10 - 1.0 m • CLAST SUPPORTED COLLUVIUM (as for colluvium on page 1)
	1.0		1.0 - 1.2 m • GRAVELLY SAND, SOME SILT Thin veneer of orange-brown very moist (over optimum) dense gravelly SAND with some silt. → RESIDUAL SOIL.
	1.5		1.2 - 1.5 m • BROKEN ROCK Moderately to heavily weathered blocky, angular, coarse grained GRANODIORITE. Broken to very broken in 2-3 m wide bands (typically +1½" to -24" dia)
	2.0		Refusal at 1.5 m in fresh hard competent blocky GRANODIORITE.

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TEST PIT LOG

TEST PIT No. 9041-E
SHEET 3 of 4

PROJECT Casino
LOCATION OF TEST PIT
DATE July 22 1993

PROJECT No. 1681
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Excavated with Hitachi UH08 Hoe	0.0		0.0-0.10m - TOPSOIL - dark brown silty sand with moss, root mat and forest litter.
	0.5		0.10-0.90 - CLAST SUPPORTED COLLUVIUM Grey, loose to medium dense, very moist (over optimum) silty SAND AND GRAVEL matrix (approx 30-50%) in clast supported COLLUVIUM. Clasts are angular (~1" typ) thin platy to blocky Limonite stained slightly to moderately weathered GRANODIORITE
Moderately difficult to difficult digging in blocky broken GRANODIORITE	1.0		
	1.5		0.9-1.8m - BROKEN BLOCKY GRANODIORITE Broken to very broken, blocky, angular Limonite stained Biotite-Hornblende GRANODIORITE. Moderately weathered at top of unit grading to slightly weathered hard competent BEDROCK at 1.8m.
REFUSAL BY HOE →	2.0		Refusal with hoe at 1.8m depth Beige-grey, moist (near optimum) loose to medium dense SAND AND GRAVEL between rocks.

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9041-E
SHEET 4 of 4

PROJECT ASIA
LOCATION OF TEST PIT BOTTOM END OF TRENCH (NORTH END)
DATE July 27 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY JMC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
EXCAVATED WITH HITACHI UH08LC HOE NOTE: SAMPLE 9043-F1 IS A SAMPLE OF THE MATRIX ONLY; THE CLASTS GREATER THAN 6" IGNORED	0.0 9041-E1 0.5 1.0 9041-E2 1.5 2.0 Refusal with Hoe. 2.5 3.0		0.0 - 0.1m · ORGANICS - mostly forest litter and abundant root mass 0.1 - 0.7m · SAND AND GRAVEL COLLUVIUM Brown-grey, moist (near opt on dry side of), loose to medium dense SAND AND GRAVEL with trace silt matrix - supporting angular, iron oxide stained hard, slightly weathered coarse grained GRANODIORITE. (10-40% clasts, 60-90% matrix) 0.7 - 1.2m · SILTY SANDY GRAVEL (RESIDUAL) Orange-brown (iron oxide stained) silty, sandy GRAVEL (moist, medium dense) with (~8" typ) angular weathered blocks of GRANODIORITE 1.2 - 2.2m · BEDROCK (GRANODIORITE) Heavily weathered, very broken, jointed weak, friable, GRANODIORITE with some zones 2-3 m wide of gravelly CLAY/clayey silt, GRAVEL extending to base of trench. Refusal at 2.2m on [illegible], moderately weathered, angular, coarse grained slightly broken to massive GRANODIORITE

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TEST PIT LOG

TEST PIT No. 9041-F
SHEET 1 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-15m. (E. END)
GROUND ELEVATION
DATE AUG. 17, 1993 125m long at 108° BRG.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. easy digging in topsoil & residual sand. Very difficult digging in broken granodiorite rock at 0.4m. Trench is dry, walls v. stable. Mat'ls v. well drained.	0 0.2 0.4 1 1.4 2	FR Broken, hard, blocky Granodiorite. Refusal (bottom)	Vegetation: Abundant spruce and birch up to 40 ft. tall on slope. Thin moss/lichen cover over well drained residual soils. V. thin (10-20cm) vegetative mat comprising moss/tree roots. Rocky sections of granodiorite outcrop along slope. 0-0.2m RESIDUAL ORGANIC TOPSOIL Light orangish tan, dry, loose residual silty fine sand w/ some organics (roots). Occasional rock frag. to 10cm dia. → Well drained topsoil. 0.2-0.4m RESIDUAL SAND. Lt. orange-tan, dry, loose residual sand w/ some v. fine gravel, trace silt (~10%). Also, some (~20-30%) MW, mod. hard granodiorite rock frags. 0.4-1.4m BROKEN, FRESH, HARD, BLOCKY GRANODIORITE BEDROCK. Broken, fresh, med.-crs. blocky v. hard (R6) med. gr. granodiorite bedrock w/ some very dry, residual fine gravelly sand. (est. 20%). Rock (~80%) is broken in blocks ranging from 0.1-1m dia. (ave. 0.3m dia.). Rough, fresh fractures w/ trace limonite & residual silt film. → Potential, fresh, hard, competent rock fill.

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TEST PIT LOG

TEST PIT No. 94I-F
SHEET 2 of 5

PROJECT CASINO
PROJECT No. 1931
LOCATION OF TEST PIT CH. 15-35 m
GROUND ELEVATION
DATE AUG. 17, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Moderately difficult digging in broken rock w/ matrix from 0.2-1.8m.	0		0-0.2m RESIDUAL ORGANIC TOPSOIL (As Above - see p. 1, with abundant coarse granodiorite boulders).
	0.2		0.2-1.8m BROKEN ROCK, some RESIDUAL SANDY MATRIX - COLLUVIUM*
	1		Mixture of broken fine-medium, MW, hard rock frags. (approx. est. 70%) in matrix of brown silty, slightly moist sand with some fine gravel and residual silty sand and gravel. (est. 30% matrix) Mat'l is med. dense, massive (no sorting). Rock is clast supported, w/ some matrix, range from 3-20cm dia. (well graded), comprising angular, MW, mod. hard to hard granodiorite frags. * Some zones comprise only 50% rock, 50% matrix of brown sandy silt. (matrix supported).
	1.8	FR	1.8m Refusal → Broken, crs. blocky, fresh Granodiorite Bedrock.
	2		

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TEST PIT LOG

TEST PIT No. 9041-F
SHEET 3 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 35-40m
GROUND ELEVATION
DATE AUG 17, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.2m RESIDUAL DRY SAND.
	0.2		0.2-0.6m COBBLY RESIDUAL GRAVELS (ZONES) (Otherwise same as CH. 0-15m (see p. 1))
	0.6	FR-SW Hard, broken, blocky Grano-diorite Bedrock	0.6-1.7m BROKEN, BLOCKY, FR-SW, HARD GRANODIORITE BEDROCK.
Difficult digging in broken, blocky hard Granodiorite Bedrock at 0.6m.	1		
Refusal at 1.7m.	1.7		
	2		

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TEST PIT LOG

TEST PIT No. 9041-F
SHEET 4 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 40-80m
DATE Aug. 17, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.2m RESIDUAL ORGANIC TOPSOIL (As Above, see p. 1).
	0.2		0.2-0.4m DRY RESIDUAL SAND Light tan residual sand with trace v. fine gravel and silt. Material is loose, v. dry and dusty. (well drained → v. high in-situ permeability).
	0.4		
Moderately difficult digging in broken rock at 0.4-1.5m.			0.4-1.5m BROKEN, MW, MOD. HARD GRANO. ROCK FRAGS. w/ RESIDUAL SAND. Broken, MW, mod. hard granodiorite rock frags. (approx. 70%) supported in matrix of residual fine gravelly sand (approx. 30%). Material is massive. Rock frags. are v. angular, fine blocky, ranging from 2-10cm dia. → Potential good source of random rock/earth fill for embankment.
Trench dry, walls stable. Mat'l is well drained.	1		
	1.5	MW	1.5-1.7m MW GRANODIORITE BEDROCK MW, mod. hard (R4), limonite stained, med. blocky, broken Granodiorite bedrock.
	1.7	Refusal (bottom)	1.7m Refusal – rippable w/ heavy equipment likely.
	2		

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9041-F
SHEET 5 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 80-125m (W.END)
DATE AUG. 17, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.2m RESIDUAL ORGANIC TOPSOIL (As Above, see p. 1).
	0.2		0.2-0.4m RESIDUAL GRAVELLY SAND Dry, residual gravelly sand w/ some (approx. 40%) rock frags. up to 10cm dia.
Moderately difficult digging in broken blocky bedrock from 0.4-1.1m	0.4	SW-FR	0.4-1.1m BROKEN, BLOCKY, SW-FR, HARD GRANODIORITE BEDROCK Broken, med.-crs. blocky, SW-FR, v. hard Granodiorite Bedrock w/ some (10-20%) residual sand, some fine gravel and silt matrix. Matrix is dry. Rock frags. range from 10-100cm dia., are angular & orthogonal. Fractures are (typically) rough, sub-planar.
	1		
Refusal at 1.1m. (est. difficult ripping w/ heavy equipment!)	1.1	FR	1.1m Refusal – GRANODIORITE. Slightly broken, v. hard, crs. blocky GRANODIORITE.
	2		

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TEST PIT LOG

TEST PIT No. 9041-5
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT Adit-Sta 1+10-1+20
DATE Aug. 14 1990 1.5m long at 142° BCS.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH07LC Moderately easy digging in colluvium from 0-1m. (blade refusal est. 1m depth).	0 9041-G1 (matrix only)		Vegetation: Abundant, closely spaced tall spruce w/ occasional birch. V. thin moss cover. Thin (30cm) vegetative (root) mat. 0-1m. WELL GRADED COLLUVIUM Brown, v. moist silty SAND w/ some gravel (approx. 60% matrix), and SW-FR blocky granodiorite rock frags. (approx. 40%). Trace fine organics (root frags.) throughout. Approx. 50% ers. gravel and rock frags. comprise Hw, weak and Sw, competent, angular granodiorite frags. Clasts range from 1-5cm dia. Matrix is massive colluvium, well graded, v. poorly sorted. Some zones contain trace clay, med. plasticity, wet. Other zones comprise reddish brown, Hw, loose crs. gr. residual sand. → Potential random fill. well graded, appreciable fines content. Most fines sl. greater than optimum moisture.
V. difficult digging in crs. blocky Granodiorite from 1.0-1.5m. Trench is dry, stable. No groundwater, no permafrost.	1 FR-SW Blocky Granodiorite 1.5 Refusal FR Competent Granodiorite. 2		1-1.5m FR-SW, CRS. BLOCKY GRANODIORITE. Broken, crs. blocky FR-SW, crs. grained Granodiorite Bedrock. Blocks are orthogonal, fresh, crs. (0.2-1m dia.), hard (R4-R5). 1.5m Refusal- Fresh, competent, blocky Granodiorite.

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TEST PIT LOG

TEST PIT No. [illegible]
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT crl. 5-10 m
DATE AUG 14, 1973

PROJECT No. 153
GROUND ELEVATION
LOGGED BY MDS

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe CX160LC.	0		0-0.9m WELL GRADED COLLUVIUM - As Above, w/ blocks of fresh, hard granodiorite (est. 40%.)
	0.9	HW	0.9-2.2m RESIDUAL GRAVELLY SAND - Grangish brown, HW residual fine gravelly SAND w/ some silt & trace clay. Mat'l is loose, crumbly, well drained.
Fairly easy digging in residual material from 0.9-2.2m	1		- HW, badly broken, weak (R1), friable, heavily oxidized granodiorite rock at base. Rock frags. are HW, platy from 3-8 cm dia., angular. v. weak. (Could be fault or shear zone. Possible zone of preferential weathering induced by incr. groundwater flow and physical/chemical weathering processes along broken rock zone).
	2		HW, weak, friable Granodiorite.
	2.2		

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TEST PIT LOG

TEST PIT No. 9041-H
SHEET 1 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-30m (E. End)
GROUND ELEVATION
DATE AUG. 14, 1993. 70m long at 136° BRG.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench is dry, stable. Mat'ls well drained. No permafrost.	9041-H1 (composite) 0		Vegetation: Abundant, closely spaced tall spruce w/ occasional birch. V. thin moss cover. Thin (30cm) vegetative (root) mat. (same as 9041-G upslope).
	0.4		0-0.4m F. GRAINED, WELL GRADED COLLUVIUM. Brown, med. dense silty v. fine SAND w/ some gravel and trace clay. Est. 10-20% gravel comprising HW, weak grano-diorite rock frags. Mat'l is f. grained, mod. well graded, massive colluvium. Occasional lense (few cm thick) of residual gravelly SAND. Mat'l is moist, low-med. plasticity. Trace fine organics throughout. → Good potential core zone fill mat'l since est. low permeability. moist.- approx. at optimum. (possible mix w/ underlying gravelly sand).
	0.9		
	1	SW-FR Broken, cbs. blocky Grano-diorite Bedrock.	
	1.6	Refusal	0.4-0.9m RESIDUAL GRAVELLY SAND. Reddish brown (heavily weathered), loose dry residual gravelly SAND. Gravel comprises HW, angular, weak grano-diorite frags. from 2mm to 1cm dia.
	2		(cont'd)...

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TEST PIT LOG

TEST PIT No. 9041-
SHEET 2 of 3

PROJECT [illegible]
PROJECT No. 1551
LOCATION OF TEST PIT
GROUND ELEVATION
DATE AUG. 14, [illegible]
LOGGED BY MDS

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.			...(cont'd).
			0.9-1.6m BROKEN, CRS. BLOCKY GRANODIORITE BEDROCK.
			Broken, crs. blocky, SW-FR, crs. grained Granodiorite Bedrock. Blocks are coarse (20-100cm dia.). (Same as fresh, blocky granodiorite bedrock at bottom of 9041-G, upslope).

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TEST PIT LOG

TEST PIT No. TP91-2
SHEET 3 of 3

PROJECT CASINO
LOCATION OF TEST PIT CH. 30-70m (west end)
DATE AUG 14, 1991

PROJECT No. 1951
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in F. gr. colluvium and residual gravelly sands.	0 0.4 0.9		0-0.4m F. GRAINED, WELL GRADED COLLUVIUM. - Same as above (see p.1) w/ trace to some (10-20%) angular crs. gravel to small cobble clasts. (weak, angular). 0.4-0.9m RESIDUAL GRAVELLY SAND. Residual gravelly SAND w/ some broken, weak, angular gravel - sm. cobble size granodiorite rock frags.
Easy digging in MW, weak, friable granodiorite rock from 0.9-1.7m. CH. 60-70m (bottom of trench) Groundwater table at 1.8m in broken Granodiorite.	1		0.9-1.7m MW, WEAK, FRIABLE GRANODIORITE ROCK. Broken, MW-HW (limonite / hematite pervasive throughout rock and on fracture surfaces), friable, v. weak (R1) granodiorite rock frags. w/ some (20%) sandy residual fine gravel matrix. Matrix is crumbly, dry (v. well drained). Rock frags. are angular from 2-10cm dia.
V. difficult digging in blocky granodiorite bedrock	1.7 SW-FR Refusal at 1.8m. 2		1.7m SW-FR, BLOCKY GRANODIORITE BEDROCK SW-FR, med. blocky, crs. grained Granodiorite Bedrock.

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TEST PIT LOG

TEST PIT No. 9042-A
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT E. END (HEAD) OF TRENCH.
DATE JULY 12, 1993. FOR 20 m

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Occasional patch of permafrost but no visible ice, only highly saturated zones. Relatively easy digging in colluvium and esidual materials. Moderately difficult digging near bottom of trench. Refusal at 1.5 m (frozen). Mat'ls stable during thaw (patchy permafrost)	0 0.15 0.5 1 1.5 2	Bottom.	Surface: Abundant small poplar with occasional black spruce. Thick moss. 0-0.15m ORGANIC TOPSOIL 0.15-0.5m WELL GRADED COLLUVIUM Greyish brown, moist medium dense silty fine SAND with some gravel and occasional small cobble. Material is very well graded at approx. optimum moisture content. Poorly sorted. Gravel clasts range from few mm to 8 cm. Estimate low permeability. 0.5-1.0m RESIDUAL GRAVELLY SAND & BROKEN ROCK Orange-brown (oxidized) coarse grained residual gravelly SAND and angular rock fragments. Rock frags (~40%) supported by matrix of gravelly SAND (~60%). Incr. broken rock frags. content w/ depth. Fragments are hard and competent, limonite stained, mod. weathered granodiorite. Mat'l is med. dense, moist. 1.0-1.5m BROKEN GRANODIORITE ROCK Orange-brown, mod weathered, broken crumbly granodiorite rock frags. with some moist silty fine SAND matrix. Medium dense. Clast supported. Frags. angular, weak with limonite/hematite (iron oxide) throughout. Est. hardness R1-R2 (weak rock).

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TEST PIT LOG

TEST PIT No. 9042-A
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT CH. 20m TO W. END OF TRENCH
DATE JULY 12, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in fine gr. med. dense colluvium Easy digging down to 2m depth. Trench walls dry and stable. Bedrock is broken and easily rippable down to estimated depth of 3m.	0 0.3 9042-A1 1 9042-A2 1.8 2	HW GRANO-DIORITE	0-0.3m ORGANIC TOPSOIL Dark brown - black organic-rich topsoil with some soft clayey SILT. 0.3-1.0m F. GR. WELL GRADED COLLUVIUM. Brown, slightly moist, med. dense silty SAND with some fine gravel and coarse gravel. Clasts comprise mod. weathered, iron stained angular granodiorite fragments from 1-5cm. Material is well graded, poorly sorted, non-frozen. Estimate moisture content ≈ opt., low permeability. *Potentially good source of strong, compacted fill. 1.0-1.8m RESIDUAL GRAVELLY SAND. Orange-brown (oxidized) residual gravelly SAND with trace small cobbles and silt. Material is poorly graded, well sorted, heavily weathered granodiorite to residual soil. Material is free-draining, moist. Clasts v. angular, somewhat weak and oxidized (granodiorite). *Potential source of coarse granular fill. 1.8m. HW, BROKEN GRANODIORITE BEDROCK Heavily weathered, badly broken, weak GRANODIORITE BEDROCK. Occasional outcrop of fresh, hard blocky crs. gr. granodiorite along bottom of trench.

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TEST PIT LOG

TEST PIT No. 9042-B
SHEET 1 of 3

PROJECT Casino
LOCATION OF TEST PIT West end of trench
DATE July 16, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Excavation w/ D6C CAT Materials are generally well drained No groundwater table present, though mat'ls are moist. Relatively easy blading ; approx 1.6m Suspect rippable to ~90cm below bottom of trench.	0.0 0.5 9042-B1 1.0 1.5 2.0 2.5 3.0 3.5 4.0		0.0-0.2m • ORGANICS + MOSSES + TOPSOIL - with abundant root mass. TOPSOIL is sandy SILT 0.2-0.7m • SANDY GRAVEL COLLUVIUM: Brown, sandy GRAVEL with trace to some silt, medium dense, moist (slightly dry of optimum - est'd) with cobble sized, angular, limonite stained, coarse grained GRANODIORITE 0.7-2.0 • RESIDUAL SAND AND GRAVEL: Tan, orange-brown sand and gravel with some silt and clay. Moist (slightly dry of optimum est.'d) and loose to med. dense. Material is residual soil derived from weathering of hornblende, biotite, coarse grained GRANODIORITE. Sands and gravels are limonite stained and in some areas have preserved the jointing/fracture pattern of the weathered rock. Generally, sand and gravel grains are coarse and hard and very angular, and coarsen downwards. Pockets of tan & beige moist clayey silt and gravel (ARGILLIC ALTERATION ?) are present in sequence.

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TEST PIT LOG

TEST PIT No. 9042-B
SHEET 2 of 3

PROJECT CASINO
LOCATION OF TEST PIT MIDDLE 12-15m OF TRENCH
DATE JULY 16, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
EXCAVATED WITH D6C CAT.	0.0		
	9042-B2		0.0 - 0.10m • ORGANICS, MOSSES + TOPSOIL: Abundant root mass. Topsoil is beige brown sandy silt.
	0.5		0.10 - 1.10m • RESIDUAL SANDY GRAVEL: Orange brown (iron oxide stained) sandy GRAVEL with trace to some silt. Medium dense and moist (slightly dry of optimum est'd). Some pockets of angular, moderately to heavily weathered, broken, weak friable, coarse grained, limonite stained granodiorite (to 7cm dia.). Estimate 80-85% sandy GRAVEL → matrix supported material.
BLADE REFUSAL ▶	1.0		
	1.5		* Note: BLADE REFUSAL IN SLIGHTLY WEATHERED, BROKEN, ANGULAR, BLOCKY, COARSE grained GRANODIORITE. COULD PROBABLY RIP 2-3 more FEET WITH A RIPPER CAT. (D7)

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TEST PIT LOG

TEST PIT No. 9042-B
SHEET 3 of 3

PROJECT CASINO
LOCATION OF TEST PIT EASTERN 12m OF TRENCH
DATE JULY 16TH 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• EXCAVATED WITH D6C CAT.			0.0 - 0.10m • ORGANICS, MOSSES & TOPSOIL: Topsoil is silty sand / sandy silt, orange-brown in colour, loose and slightly moist (dry of optimum).
	0.5		0.10 - 0.80m • SAND AND GRAVEL: Orange brown, moist (slightly dry of optimum), loose to med-dense SAND AND GRAVEL, with trace to some silt matrix with angular, fine grained quartz diorite (?) - 4" typ
• REFUSAL AT 0.80 m WITH BLADE.	1.0		
• SUSPECT COULD RIP TO ANOTHER 2-3'.			0.80m + • BEDROCK: Fine grained, limonite stained, slightly broken, hard DIORITE (~ 70% mafics 20-30% quartz). Limonite staining primarily along irregular, rough, discontinuous fracture planes.

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TEST PIT LOG

TEST PIT No. 904Z-C
SHEET 1 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-20 m (N. END).
GROUND ELEVATION
DATE AUG. 16, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Difficult digging in blocky, broken bedrock from 0.3-1.6m Trench is dry, walls stable, materials v. well drained.	0 0.3 0.6 1 1.6 2	SW-MW Broken, blocky Granodiorite Bedrock.	Vegetation: Abundant, closely spaced tall spruce trees (up to 30 ft.) with occasional small birch, scrub willows. Very thin (5 cm) moss cover. Thin (10-20 cm) vegetative mat comprising moss and tree roots. (easy stripping). 0-0.3 m FINE GRAINED (SILTY) TOPSOIL. Dark brown, soft, slightly moist silt w/ some v. fine sand, clay and fine gravel. Mat'l is non-plastic, uniform. 0.3-1.6 m BROKEN, SW-MW, BLOCKY GRANODIORITE BEDROCK * Broken, SW-MW, mod. hard to hard (R3-R5), med. blocky, angular Granodiorite bedrock. w/ some residual, HW, weak sandy residual fine gravel matrix. (est. 20% matrix). Rock blocks are orthogonal, equidimensional, range from 10-20 cm dia. Limonite on rough, sub-planar frac. sfc's. * Top 0.2-0.3 m comprises approx. 70% residual gravelly sand w/ some (approx. 30%) broken rock frags. to 20 cm dia.

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TEST PIT LOG

TEST PIT No. 9042-C
SHEET 2 of 3

PROJECT CASINO
LOCATION OF TEST PIT CH. 20-40 m
DATE AUG. 16, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.3m SILTY COLLUVIAL TOPSOIL w/ ROCK. Brown sandy silt w/ trace clay (matrix) supporting broken granodiorite rock frags. (Estimate 30% rock, 70% matrix). Matrix is soft, moist, uniform, trace fine organics. → Mod. well graded colluvial topsoil.
Easy digging in topsoil and residual HW soils from 0-1.3m	0.3		0.3-0.7m RESIDUAL FINE GRAVELLY SAND. Orangish brown, HW residual v. fine gravelly sand w/ trace silt (est. 5-10%), frags. are v. angular, weak, heavily iron oxidized (limonite) throughout, moist, well drained → Potential source of dense, relatively impervious compacted (core zone) fill.
9042-C1	0.7		0.7-1.3m RESIDUAL SANDY GRAVEL HW residual sandy gravel w/ trace silt. (gradational contact w/ overlying residual gravelly sands). Est. high permeability → Potential random fill. Frags. comprise HW, weak, angular clasts from 1-5cm dia. (granodiorite).
Trench walls dry & stable.	1		
Easy digging in weak, friable, HW Granodiorite Bedrock.	1.3	MW-HW weak Granodiorite Bedrock.	1.3-1.6m BADLY BROKEN, WEAK, FRIABLE GRANODIORITE BEDROCK. MW-HW, badly broken, heavily oxidized, weak, friable Granodiorite Bedrock.
	1.6	Bottom.	
	2		

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TEST PIT LOG

TEST PIT No. 9042-3
SHEET 3 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 40-110m.* (N. END).
GROUND ELEVATION
DATE AUG. 16, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.2m SILTY COLLUVIAL TOPSOIL w/ ROCK. (As Above, see p. 2).
	0.2		0.2-0.6m RESIDUAL SAND Residual med.-crs. grained SAND w/ some fine gravel. Material is dry to slightly moist, well drained, uniform. Estimate high in-situ permeability.
Very difficult digging in broken bedrock from 0.6-1.6m (estimate easy ripping w/ heavy equipment in broken, blocky bedrock).	~0.6	Broken, blocky SW-MW Grano-diorite Bedrock	0.6-1.6m BROKEN, BLOCKY GRANODIORITE BEDROCK Broken, med.-crs. blocky, SW-MW, mod. hard to hard granodiorite bedrock w/ trace residual sand matrix along fractures. Rock blocks are angular, orthogonal, range from 10-30cm dia. → potential source of competent rockfill. Some zones are MW-HW, badly broken, weak from 1-1.6m (Estimate 30% of trench).
	1		
Refusal w/ hoe at 1.6m	1.6	Refusal (bottom) SW-FR Blocky Grano-diorite.	
	2		

* Trench consists of alternating sequence of:
1. Thin topsoil over residual gravelly sands & sandy gravels (approx. 0.6 m thick), over bedrock.
2. Thin topsoil over broken, blocky bedrock w/ trace - some residual sand matrix.

Estimate 50% of each soil profile along trench from CH. 40-110m

** Excavation of 0-1.6m depth yields residual sand + rock → good source of random earth/rock fill.

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TEST PIT LOG

TEST PIT No. TP42-D
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT CH. 0-30m (E. End)
DATE AUG 15 1993

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe CH09LC. Trench is dry, walls stable. No groundwater.	0		Vegetation: Thick abundant, tall spruce w/ some birch and poplar. V. thin (10cm) moss cover.
	9042-D1 0.3		0-0.3m FINE GRAINED TOPSOIL w/ ORGANICS. Brown, moist fine sandy SILT w/ trace to some fine gravel, clay and fine root frags.
Very easy digging in residual sand.	1		0.3-1.3m RESIDUAL SAND Orange-brown, loose-med. dense, slightly moist residual well graded SAND w/ some fine gravel and trace-some (10-15%) silt. Residual, weathered mat'l grades down to fine gravelly sand w/ trace silt. Mat'l is at approx. optimum moisture content. Particles are v. angular & weak. Gravel is HW, friable weathered granodiorite, range from 0.3-1cm dia. → Potential borrow source of strong, low permeability compacted (core zone) fill material.
Moderately easy digging in badly broken rock from 1.3-2.5m.	1.3		
	2		

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TEST PIT LOG

TEST PIT No. 96-[illegible]
SHEET 2 of [illegible]

PROJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 15, 1993

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	2		1.3-2.5m HW, MOD. HARD, BADLY BROKEN GRANODIORITE ROCK HW, angular, weak to mod. hard (R2-R3), badly broken Granodiorite rock frags. w/ some residual fine gravelly sand matrix. (10-20%). Broken rock frags. are v. angular, range from 1-10cm. dia. Limonite pervasive throughout rock. Rock does not break up upon excavation ⇒ Potential random compacted embankment fill mat'l.
Refusal at 2.5m.	2.5	Hard, SW Broken Granodiorite Bedrock	
	3		Prominent, planar, smooth fractures at: 1. 063/90 (vertical) Major 2. 123/74 NE Minor. 3. Sub-horizontal set Fractures spaced few cm, HW. Slickensides on minor frac. sfc. (123/74 NE), rake = 0° (horizontal) → could be fault. 2.5m GRANODIORITE BEDROCK Hard (R4-R5), SW, slightly broken, med. grained Granodiorite Bedrock. (Refusal)

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TEST PIT LOG

TEST PIT No. 90E2-D
SHEET 3 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 30-47m
DATE AUG. 15, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in residual matl's from 0-2.1m.	0		0-0.1m ORGANIC MAT - ROOTS.
	0.1		0.1-0.5m RESIDUAL FINE SILTY SANDS Loose, dry, lt. orange-tan silty fine sand w/ some fine gravel, trace v. fine roots.
	0.5		0.5-2.1m MW-HW, broken GRANODIORITE ROCK FRAGS. & RES. GRAVEL MW-HW, weak, dry, platy broken, angular Granodiorite rock frags. and sandy fine gravel. Matl grades from sandy fine gravel supporting crs. gravel- small cobble size rock frags. (top), down to broken, MW platy broken rock w/ some residual sandy fine gravel (clast supported) - at bottom. - All matl comprises HW, weak granodiorite. - matl is well drained, massive. Frags. vary from 1-5cm (est. approx. 60-70%). Sandy gravel matrix comprises approx. 30-40%. Incr. frag. size w/depth to 5-15 cm dia, broken, blocky SW Granodiorite. - Potential random (shell zone) embankment fill material.
	1		
Refusal at 2.1m.	2		2.1m BROKEN, MW GRANODIORITE BEDROCK (Refusal).
	2.1		

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TEST PIT LOG

TEST PIT No. 904-D
SHEET 1 of 5

OJECT CASINO
LOCATION OF TEST PIT Pl. 27-63, N
DATE AUG. 15 1993

PROJECT No. 1991
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.3m RESIDUAL SILTY SAND Orangish, reddish brown, moist residual silty sand to fine sand w/ some silt and fine gravel. Matrix is loose, uniform, massive (non-stratified). Occasional clast of SW, mod. hard, angular granodiorite up to 5 cm dia.
	0.3	SW-FR Broken, blocky Grano-diorite Bedrock	0.3-2.0m SW-FR, BROKEN, BLOCKY GRANODIORITE BEDROCK. SW-FR broken, med.-crs. blocky grano-diorite bedrock. Fractures are rough, sub-planar to undulating, SW (limonite on sfc.). Blocks are orthogonal to platy, v. hard (R5-R6), angular, range from 10-40 cm dia. Trace (approx. 10%) crs. sandy fine gravel matrix infill between blocks. → Potential source of v. crs. rockfill or rip-rap since rock is hard, angular, blocky, competent.
Very difficult (ging in broken, blocky Granodiorite Bedrock at 0.3m (estimate easily rippable w/ heavy equipment since rock is blocky, broken).	1		
Refusal at 2.0m	2		

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TEST PIT LOG

TEST PIT No. 91-TP-D
SHEET 5 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 68-75m (N. End)
DATE AUG. 15 1993

PROJECT No. 1431
GROUND ELEVATION
LOGGED BY JJDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. V. easy digging in loose, dry, residual gravelly sand.	0		0-0.15m FINE GRAINED (SILTY) TOPSOIL. Firm, brown sandy SILT w/ some clay, trace organics. Matl is moist, uniform topsoil.
	0.15		0.15-0.85m RESIDUAL GRAVELLY SAND. Orangish, reddish brown, med. dense, dry to sl. moist residual fine gravelly sand w/ trace (approx. 5%) silt. Matl is loose - med. dense. → Good potential core zone fill matl.
Easy digging in dry, med. dense residual sandy gravel.	0.85		0.85-1.95m RESIDUAL SANDY GRAVEL / HW BROKEN GRANODIORITE. Orangish tan, crumbly, dry, med. dense residual sandy gravel (tp), down to HW, broken, friable, v. weak, badly broken Granodiorite Bedrock. Rock frags heavily iron oxidized & weak, ranging from 0.5-4 cm dia. → Good potential random / structural fill (shell zone) for embankment.
	9042-D2 CH. 73m		
	1		
			HW, Friable, Broken Granodiorite.
	2		1.95

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TEST PIT LOG

TEST PIT No. 9042-E
SHEET 1 of 7

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-15m (S.END)
GROUND ELEVATION
DATE AUG 16, 1993 100m long, 025°3RG.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		Vegetation: Abundant tall spruce (closely spaced) with rare birch and aspen. Topsoil is poorly drained & fine grained. Very thin (5-10cm) moss cover. Vegetative mat approx. 10-20cm thick comprising moss and tree roots.
	0.3		0-0.3 m FINE GRAINED (SILTY) TOPSOIL. Brown, v. moist, soft clayey silt with some v. fine sand and trace v. fine gravel, fine root frags. Material is poorly drained, uniform, poorly graded. Estimate low permeability, med. plasticity, moisture content > optimum. → Typical f.gr. (poorly drained) topsoil supporting shallow Spruce tree root system.
V. easy digging in soft topsoil, med. dense recidual sands from 0-1.4m.	1		
	1.4	HW-EW v. weak, badly broken Grano-diorite Rock Sheared and gouge (fault?) in places (See Below: CH. 0-5m)	0.3-1.4 m. RESIDUAL, HW SAND w/ SOME GRAVEL and SILT. Residual, heavily weathered, lt. orange-brown, med. dense, slightly moist SAND with some gravel and silt (approx. 20%). Gravel size frags. comprise HW, weak, angular granodiorite derived from in-situ weathering & oxidation. Material is slightly dry of optimum m/c. → Potential good source of low perm., dense compacted core zone fill mat'l.
Easy digging in HW-EW Granodiorite from 1.4-3.7m.	2		
Trench walls fairly stable - only minor sloughing. No permafrost.			
Max. reach w/ hoe at 3.7m. (Estimate easy excavation beyond 3.7m).	3		
Groundwater Table at 3.7m. at S. end of Trench.	3.7	Bottom (max. reach).	
	4		

(cont'd) . . .

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TEST PIT LOG

TEST PIT No. 9042-E
SHEET 2 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 0-15m (S. END)
DATE AUG. 16, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd)
			1.4 - 3.7m HW-EW, V. WEAK, BADLY BROKEN GRANODIORITE ROCK
			Heavily to extremely weathered, very weak, heavily iron oxidized (limonite/hematite pervasive throughout), med. dense, crumbly & badly broken to pulverized Granodiorite rock. Rock frags. are v. weak, v. angular, range from 1-5 cm dia. Occasional EW gouge zone (likely fault-induced heavy, preferential weathering). Estimate 70% broken, HW rock; 30% residual HW sand w/ some fn. gravel and silt.
			*CH. 0-5m SHEARED, (FAULT?) BROKEN ROCK w/ GOUGE.
			Rock is heavily sheared and friable w/ occasional zone of white clay film on fracture surfaces. Apparent shear joints oriented at 018/68°E sub-parallel to trench. Joint sfc's are smooth, undulating w/ limonite and clay film on sfc. Weak schistose or slickensided fabric on sfc. → *possible strike-slip fault movement inducing gouge & preferential weathering along weak, broken zone. Cross joints at 080/74°S. Rock frags. are elongate, sub-parallel to shear joints at 018/68°E.

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TEST PIT LOG

TEST PIT No. 9042-E
SHEET 3 of 4

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH 15-100m. (N.END)
GROUND ELEVATION
DATE AUG. 16, 1993.
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Easy digging in topsoil and residual soils from 0–1.5m. Trench walls dry, no permafrost or groundwater. Residual soils well drained. Refusal at approx. 2m in SW-MW, mod. hard Granodiorite Bedrock. Estimate easy ripping w/ heavy equipment.	0 9042-E1 0.5 0.8 9042-E2 1 1.5 2 3	HW, broken, weak Granodiorite Bedrock SW-MW Broken Granodiorite Rock.	0–0.5m FINE GRAINED (SILTY) TOPSOIL (As Above, see p. 1). 0.5–0.8m HW, RESIDUAL GRAVELLY SAND w/ some SILTY SAND. Orange, HW residual fine gravelly SAND w/ trace to some silt. Gravel is v. fine (0.3-1cm), angular, weak (heavily iron oxidized), Material is slightly moist, well drained, granular, med. dense. Occasional zone of silty sand w/ some v. fine gravel & clay — v. moist → estimate 20% by vol. of mat'l. 0.8–1.5m RESIDUAL SANDY GRAVELS, and RESIDUAL GRAVEL & ROCK FRAGS. HW, residual sandy gravel grading down to gravel and broken, weak, MW Granodiorite rock frags. w/ some residual sand, at base. Gravel clasts comprise v. angular, weak HW med. grained granodiorite (0.5-3cm dia.) Material is massive, dry, v. high in-situ permeability. → Good potential source of random fill (only trace → est. 5-10% silt). 1.5–2.0m BROKEN, WEAK, BLOCKY GRANODIORITE BEDROCK. Badly broken, HW, fine blocky, friable Granodiorite Bedrock. Limonite/hematite pervasive throughout rock mass. Mat'l is dry, v. well fractured. Blocks are angular from 2-10cm dia. Increase hardness w/ depth from B1 → B2. (cont'd)...

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TEST PIT LOG

TEST PIT No. 9042-E
SHEET 4 of 4

ROJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 16, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd).
			Rock is heavily jointed w/ fractures at :
			1. 170/90
			2. 066/80 SE
			Fracs. are smooth, undulating, SW-FR, limonite stain common on surface. Rock frags. somewhat elongate parallel to 170/90.
			Broken rock contains trace - some (10-15%) matrix of gravelly crs. residual sand along some fracture openings near contact w/ overlying residual sandy gravels.
			*Note:
			Residual soil unit contacts are gradational due to weathering profile → Decrease degree of physical & chemical weathering w/ depth results in coarsening down sequence to HW, broken Granodiorite rock.
			2.0m BROKEN, BLOCKY, SW-MW, MOD. HARD GRANODIORITE BEDROCK
			Broken, SW-MW, mod. hard (R3) Granodiorite bedrock. (along entire length of trench from CH. 15-100 m).
			Rock is typically fine-med. blocky (platy in part), orthogonal, angular from 5-15 cm dia. average.

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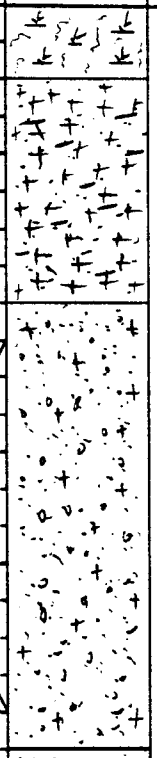
TEST PIT LOG

TEST PIT No. 9042-F
SHEET 1 of 2

ROJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 16, 1993 Small Test Pit.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Very easy digging in topsoil and residual soils to 1m depth.	0 0.1 9042-F1 0.4		Vegetation: Abundant tall white spruce (up to 30 ft. tall) with occasional white birch and aspen tree. Topsoil comprises poorly drained, fine grained silts w/ clay (moist) which supports the shallow spruce tree root system. *(contrast to 9042-G in aspen stand where well drained residual soils overlie bedrock). 0-0.1 VEGETATIVE MAT Thin moss cover and tree roots 0.1-0.4m VERY FINE GRAINED SILTY TOPSOIL & RESIDUAL SOIL Orangish brown, firm, moist sandy silt with some clay, trace v. fine root frags. Mat'l is poorly graded, mod. well sorted and uniform. (Estimate low permeability and low plasticity). 0.4-1.0m RESIDUAL HW SAND, some GRAVEL & SILT. Light orangish tan, medium dense, uniform residual fine-med. grained sand with some fine gravel and silt. Material comprises typical HW, decomposed, in-situ weathered granodiorite. Mat'l is dry to slightly moist at or slightly less than optimum moisture for compaction *→ Potential good source of strong, relatively impervious compacted fill for embankment core zone.
Moderately difficult digging in residual soil + rock. from 1-2.3m	1		
Test Pit is dry, non-frozen. Walls are stable.	2		

(cont'd)...

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TEST PIT LOG

TEST PIT No. 9042-F
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 16, 1993.

PROJECT No.
GROUND ELEVATION
LOGGED BY

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Fairly easy digging in residual rocky mat'l from 1.0-2.3m. (est. easily bladeable w/ heavy equipment).	2		... (cont'd)
	2.3	HW, Weak, friable Grano-diorite.	1.0-2.3m RESIDUAL GRAVELLY SAND SUPPORTING BLOCKY GRANODIORITE ROCK. Mixture of residual gravelly sand with trace silt (approx. 40%), and mod. weathered (oxidized), mod. hard (R3), angular granodiorite rock frags. (approx. 60%). Rock frags. are matrix supported to clast supported, very angular and blocky. Matrix is med. dense, dry. → Potential source of random residual / rock fill.
Refusal in mod. hard granodiorite at 2.7m.	2.7	Refusal (Bottom)	2.3-2.7m HW, WEAK GRANODIORITE BEDROCK. HW, weak, friable, broken Granodiorite Bedrock. → Refusal at 2.7m with hoe, but likely easily rippable w/ heavy equipment.
	3		

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TEST PIT LOG

TEST PIT No. 9042-G.
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE AUG. 16, 1993 Small Test Pit.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Easy digging in colluvium (boney) and uniform residual sandy materials. Test Pit is dry, non-frozen. walls are stable.	0		Vegetation Abundant, thin (3" dia.) aspen and poplar, rare spruce. No permafrost. Soil is well drained. Vegetative mat is thin (10cm) and comprises moss / lichen and tree roots. 0-1.0m COLLUVIUM (TALUS) & RESIDUAL SAND Light orangish brown mixture of FR-SW granodiorite rock frags. and residual fine gravelly sand with some silt. (Estimate 70% rock, 30% matrix). Rock frags. are hard to v.hard, angular and range from 5-30 cm dia. Mat'l is clast and matrix supported. → Colluvium derived from erosion of hill and transport of talus blocks downslope w/ residual (reworked) gravelly sand matrix.
	1		1.0-1.3m RESIDUAL SILTY SAND Light orange-brown, loose to med. dense, dry silty residual sand with some very fine gravel.
Moderately difficult digging in SW-MW Granodiorite Bedrock at ~ 1.5m. (estimate easily rippable).	1.3	HW, weak, badly broken Granodiorite Bedrock	1.3-1.7m HW, WEAK, FRIABLE BEDROCK Heavily weathered and weak, friable, badly broken granodiorite bedrock. Heavily iron oxidized (limonite / hematite) throughout.
	1.7	SW-MW, mod. hard	1.7m SW-MW, BROKEN GRANODIORITE BEDROCK Slight to moderately weathered, mod. hard, badly broken granodiorite bedrock.
	2		

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TEST PIT LOG

TEST PIT No. 9043-H
SHEET 1 of 3

PROJECT CASINO
LOCATION OF TEST PIT E. END (HEAD) OF TRENCH.
DATE JULY 12, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium and residual sands. Non-frozen. Occasional permafrost zone, otherwise dry, stable trench walls. Broken granodiorite rippable down to depth of approx. 2.5m (estimate).	0 0.2 0.5 0.9 1 1.5 2	Broken SW GRANODIORITE BEDROCK Bottom.	0-0.2m Thick moss and roots. Abundant black spruce trees. Occasional patch of permafrost. Organic topsoil. 0.2-0.5m WELL GRADED COLLUVIUM Greyish brown, moist, dense gravelly SAND with some silt and cobbles. Material is well graded, poorly sorted colluvium. Clasts are angular, hard, fresh granodiorite from 1-10 cm. Est. mod. low permeability 0.5-0.9m RESIDUAL SILTY SAND w/ GRAVEL Orange-brown residual silty SAND with some gravel. Material is loose, moist, uniform, heavily weathered granodiorite. 0.9-1.5m BROKEN, SW GRANODIORITE BEDROCK Broken, blocky, slightly weathered granodiorite bedrock. Blocks angular, hard and competent crs. grained rock.

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TEST PIT LOG

TEST PIT No. 9043-A
SHEET 2 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT MIDDLE OF TRENCH
GROUND ELEVATION
DATE JULY 12, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.2m ORGANICS & TOPSOIL (see p. 1).
Easy digging in colluvium and residual sands.	0.2		0.2-0.5m WELL GRADED COLLUVIUM (see p. 1).
	0.5		0.5-0.9m RESIDUAL SILTY SAND w/ GRAVEL AND GRAVELLY SAND. (see p. 1)
Easy digging in broken, friable, weak granodiorite bedrock.	0.9	HW Broken weak GRANO-DIORITE BEDROCK	0.9-2m HW, BROKEN, FRIABLE GRANODIORITE Heavily weathered, broken, friable, weak granodiorite bedrock. Well fractured, weak (hardness ~ R1), crumbly rock to bottom of trench at 2m. Heavily weathering (limonite / hematite) pervasive throughout rock.
	1		
	2		Bottom

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TEST PIT LOG

TEST PIT No. 9043-A
SHEET 3 of 3

PROJECT CASINO
LOCATION OF TEST PIT W. END OF TRENCH.
DATE JULY 12, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in colluvium and residual sands. Trench walls dry and stable.	0 0.7 1 1.7 Bottom 2		0-0.7m WELL GRADED COLLUVIUM Grey-brown well graded colluvium comprising silty SAND and GRAVEL with trace organics and angular cobbles. Mat'l is moist, medium dense. 0.7-1.7m RESIDUAL SAND w/ TR. SILT Orange-tan, very uniform fine-medium grained SAND with trace-some silt and fine gravel. Material is loose, dry, free draining. ("Sand-box-like" sand.) → Residual sands. Potential good source of fill material. *Note: Continuous permafrost below bottom of 9043-A. Abundant black spruce and thick moss. Trench 9041-B frozen & hard. (Hoe could only penetrate 0.2m after stripped 2 weeks prior to excavation).

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TEST PIT LOG

TEST PIT No. 9043-C
SHEET 1 of 7

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-10m (S. END)
GROUND ELEVATION
DATE AUG. 13, 1993
LOGGED BY MOG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Easy digging in topsoil, residual sands, and weak granodiorite from 0-1.1m. (easy bladeable to 1.1m). Mat'ls are dry, well drained. Walls stable, steep. Difficult digging in fresh, blocky granodiorite from 1.1-1.6m Refusal at 1.6m.	0 0.2 0.6 1 1.1 1.6 2	MW Broken, weak, friable Granodiorite FR crs. blocky Granodiorite Bedrock. FR Refusal	Vegetation: Abundant poplar/aspen (no spruce). Soils well drained - residual sand over blocky bedrock. Thin moss cover w/ some small willows. Thin (20cm) vegetative (root) mat. 0-0.2m SILTY ORGANIC TOPSOIL. Dark brown, firm, sl. moist, uniform SILT w/ some v.f. sand and clay. Trace fine root frags. 0.2-0.6m RESIDUAL FN. GRAVELLY SAND Loose, orangish brown, dry to sl. moist. residual fine gravelly SAND w/ trace (<10%) silt. Particles are MW, v. weak, angular. Uniform. → Potential, low perm., dense compacted (core zone) embankment fill material. 0.6-1.1m MW, BROKEN, WEAK GRANODIORITE Badly broken, MW, weak (R1-R2), med.-crs. grained Granodiorite. Mat'l breaks up into sandy crs. gravel when picked & shovelled. Heavily iron oxid., weak, friable mat'l. 1.1-1.6m FRESH, BLOCKY GRANODIORITE BEDROCK Fresh, v. hard (R6) crs. blocky, crs. grained Granodiorite Bedrock. Blocks range from 10-30cm dia. Fractures are v. rough, undulating.

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TEST PIT LOG

TEST PIT No. 9043-C
SHEET 2 of 7

PROJECT CASINO
LOCATION OF TEST PIT CH. 10-20m
DATE AUG. 13, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.2m SILTY ORGANIC TOPSOIL (As Above, see p.1).
Easy digging in topsoil, residual gravelly sand and residual gravels.	0.2		0.2-0.4m RESIDUAL GRAVELLY SAND (As Above, see p.1)
Trench is dry. Mat'ls well drained and stable.	0.4		0.4-1.2m RESIDUAL HW GRAVEL w/ SAND Residual HW badly broken rock comprising gravel size frags. w/ some crs. sand. Clasts are v. angular, v. weak, limonite throughout, and range from 1-5 cm dia. Mat'l is dry, crumbly, v. loose. Derived from heavy in-situ weathering of granodiorite rock to gravel w/ sand (residual) mat'l. → Potential random fill.
	1		
Easy digging in MW, broken, weak Granodiorite from 1.2-1.6m.	1.2	MW broken, weak Granodiorite	1.2-1.6m MW, BROKEN, WEAK GRANODIORITE ROCK (As Above, see p.1, 0.6-1.1m).
Refusal at 1.6m.	1.6	FR Hard, crs. blocky Granodiorite.	1.6m FRESH, BLOCKY GRANODIORITE BEDROCK.
	2		

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TEST PIT LOG

TEST PIT No. 9043-C
SHEET 3 of 7

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 20-23 m (Residual Sand pocket).
GROUND ELEVATION
DATE AUG. 13, 1993
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. V. easy digging in topsoil + residual SAND from 0-1.2m.	0		0-0.2 m SILTY ORGANIC TOPSOIL (as Above, see p. 1).
	0.2		0.2-1.2m RESIDUAL SAND, some FN. GRAVEL. Orange-brown (iron oxid.), loose, dry residual SAND w/ some fine gravel and HW, weak (R1) granodiorite rock frags. → Pocket of loose residual sand. typical HW (heavily oxid.), weak matl. Potential dense, low perm. compacted (core zone) embankment fill matl. Less than optimum moisture content.
	1		
Easy digging in MW, blocky Grano. 1.2-1.4m	1.2	MW Broken, fine blocky	1.2-1.9m BROKEN, MW, FINE BLOCKY GRANODIORITE BEDROCK.
Refusal at 1.4m.	1.4	FR	1.4m SLIGHTLY BROKEN, BLOCKY, FRESH, V. HARD GRANODIORITE
	2		

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TEST PIT LOG

TEST PIT No. 9093-C
SHEET 4 of 7

PROJECT CASINO
LOCATION OF TEST PIT CH. 23-35 m
DATE AUG. 13, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.2m SILTY ORGANIC TOPSOIL (As above, see p. 1)
	0.2		0.2-0.8m RESIDUAL GRAVELLY SAND w/ some SILT.
	0.8		0.8-1.3m RESIDUAL SANDY GRAVEL (HW) and BROKEN, WEAK ROCK FRAGS. Orange-brown, loose, dry residual HW sandy GRAVEL and HW broken, weak granodiorite rock frags. from 3-8 cm dia.
	1		
Very difficult digging in broken, hard bedrock from 1.3-1.6m	1.3	FR-SW	1.3-1.6m BROKEN, HARD, BLOCKY GRANODIORITE BEDROCK. FR-SW, broken, med. blocky, hard (R5) granodiorite bedrock.
Refusal at 1.6m.	1.6	Refusal	
	2		

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TEST PIT LOG

TEST PIT No. 9043-C
SHEET 5 of 7

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 35-45m
GROUND ELEVATION
DATE AUG. 13, 1993
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		Vegetation*: (change from CH. 0-35m) Abundant tall spruce (no aspen/poplar). V. thin moss cover. *Increase thickness of f. grained colluvial topsoil (higher moisture than residual topsoil).
	0.4		0-0.4m V.F. GRAINED (CLAYEY SILT) COLLUV. TOPSOIL w/ ORGANICS. Brown, soft, v. moist, clayey SILT w/ some sand and v.f. gravel. Est. med. plasticity, greater than optimum moisture, trace organics throughout. Mat'l is very wet in places. (poor drainage).
9043-C1	0.9		0.4-0.9m RESIDUAL GRAVELLY SAND. Orange-brown residual gravelly SAND, trace silt. Particles are v. weak, HW and oxidized. Mat'l is well drained. Est. high in-situ permeability.
9043-C2	1		
	1.4	IFR	0.9-1.4m RESIDUAL SANDY GRAVEL and BROKEN (HW) ROCK FRAGS. (As Above, p. 4 0.8-1.3m).
	1.6	Refusal	1.4-1.6m BROKEN, HARD, BLOCKY GRANODIORITE BEDROCK. (As Above, see p. 4).
	2		

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TEST PIT LOG

TEST PIT No. 9043-C
SHEET 6 of 7

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 45-60m
GROUND ELEVATION
DATE AUG. 13, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.3m V.F. GRAINED (CLAYEY SILT) COLLUVIAL TOPSOIL w/ ORGANICS. (As Above, see p. 5)
	0.3		0.3-0.7m RESIDUAL SAND, some SILT and GRAVEL. Reddish, orangish brown loose, wet residual Sand w/ some silt and fine gravel. Broken, HW, rock frags. at base.
Moderately difficult digging in broken granodiorite	0.7	FR-SW Broken, blocky Grano-diorite Bedrock	0.7-1.5m FR-SW, MOD. HARD, BROKEN GRANODIORITE BEDROCK. FR-SW, mod. hard (R3-R4), broken grano-diorite bedrock. Med.-crs. blocky 5-30cm blocks.
	1		
	1.5	Refusal	
	2		

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TEST PIT LOG

TEST PIT No. 9043-C
SHEET 7 of 7

PROJECT CASINO
LOCATION OF TEST PIT CH. 60-100m (w. End)
DATE Aug. 13, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.3m V.F. GRRAINED (CLAYEY SILT) COLLUVIAL TOPSOIL w/ ORGANICS. (As Above, see p. 1)
	0.3		0.3-0.7m RESIDUAL SAND, some V. FN. GRAVEL. Coarse residual SAND w/ some v. fine gravel. HW, weak, granular mat'l. Loose, moist, well drained. Sandy residual gravel and broken, HW weak rock frags. at base.
V. difficult digging in crs. blocky, fresh Granodiorite. (est. easily rippable due to presence of residual mat'l along fractures).	0.7	FR crs. blocky broken, fresh, v. hard Granodiorite Bedrock.	0.7-1.7m BROKEN, BLOCKY, FRESH GRANODIORITE BEDROCK. Broken, v. crs. blocky, fresh, v. hard crs. grained Granodiorite blocks w/ some residual gravelly SAND matrix (est. 20% tot.) between rock blocks. Rock blocks are angular, range from 10-50 cm dia.
	1		Note: Estimate max. bladeable depth. approx. 1.5m Likely rippable additional 1-2m in broken blocky fresh Granodiorite.
	1.7	Refusal (bottom)	
	2		

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TEST PIT LOG

TEST PIT No. 9043-D
SHEET 1 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 0m (E. END OF TRENCH)
DATE JULY 10, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface: Tall spruce, occasional poplar / aspen / birch, tall willows, thin moss.
Trench not frozen, easy digging.	0.4		0-0.4m FINE GRAINED COLLUVIUM Soft, v. moist SILT with some gravel, clay and v. fine sand. Material is very well graded, poorly sorted. Mat'l is wet, therefore poor construction material.
	1		
Bottom of trench is very wet. Trench walls sloughing in slowly — possible permafrost at 1.4m	1.4	Bottom	0.4-1.4m V. FINE GRAINED COLLUVIUM Greenish lt. brown, very soft clayey SILT with some gravel and sand. Similar material as above but higher fines (silt/clay) content and slightly stickier. Material is very well graded, poorly sorted, v. moist to wet.
	2		1.4m Permafrost Table (?).

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TEST PIT LOG

TEST PIT No. 9043-D
SHEET 2 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 25m FROM E. END
DATE JULY 10, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium and residual gravels and sands.	0 1		Surface vegetation: (Same as E. End - see p.1) 0-1.0m WET, STICKY F. GR. COLLUVIUM Brown, loose/soft, wet, sticky clayey SILT with some gravel and cobbles, trace sand. 1.0-2.0m RESIDUAL GRAVEL & SAND Orange-brown, wet, fine angular GRAVEL and SAND with some silt, trace clay. Material is uniform, slightly sticky. → Residual HW granodiorite to soil.
Difficult digging in fresh, blocky, hard granodiorite bedrock.	2 2.5 3	FR GRANO-DIORITE	2.0-2.5m HARD, BLOCKY, FRESH GRANODIORITE Fresh, hard granodiorite bedrock. Very hard, very coarse blocky, slightly broken. Blocks approx. 20×20×10 cm. Planar, smooth fractures dip steeply (~70°) to the SE. 2.5m Refusal in broken BEDROCK.

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TEST PIT LOG

TEST PIT No. 9043-D
SHEET 3 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 50 m FROM E. END
DATE JULY 10, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in f.gr. colluvium and residual sandy gravel.	0 0.4 1 9043-D1 1.7 Bottom. 2 3		Surface vegetation: As Above. 0-0.4m ORGANIC TOPSOIL w/ some ROCK FRAGS. Black, soft, wet organic soil with some angular hard rock fragments up to 5 cm dia. 0.4-1.0m WET, LOOSE, F.GR. COLLUVIUM Brown, wet gravelly SILT with some clay and fine sand. Material is wet and loose. 1.0-1.7m RESIDUAL SANDY GRAVEL Orange-tan, loose, crumbly, moist sandy fine gravel with trace silt. Material is very uniform. Angular gravel clasts from few mm to 2cm dia. → Residual heavily weathered grano-diorite. Fragments are hard and competent.

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TEST PIT LOG

TEST PIT No. 9043-D
SHEET 1 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 150m FROM E. END *
DATE July 10, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in colluvium and residual gravelly sands.	0 1 1.8 Bottom 2		0-1.0m FINE GRAINED COLLUVIUM Brown, moist, med. dense silty SAND with some fine gravel and trace clay. 1.0-1.8m RESIDUAL GRAVELLY SAND Orange-brown, HW, residual gravelly SAND with trace silt. *CH. 50 - 150m: Residual materials comprising gravelly / sandy sections and very weak crumbly bedrock.

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TEST PIT LOG

TEST PIT No. 9043-G
SHEET 1 of 2

PROJECT Casino
LOCATION OF TEST PIT
DATE July 2nd 1993

PROJECT No. 231
GROUND ELEVATION
LOGGED BY JMC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
· Excavated with Hitachi UH08LC Hoe.			0.0-0.1m · ORGANICS - varies between 5 and 10cm thick, 20-30% moss + ROOTMAT 10-20% sandy SILT.
	9043-G1		0.1-0.4m · SAND AND GRAVEL, TRACE TO SOME SILT: Grey and or tan-brown, medium dense to dense, well graded, poorly sorted SAND AND GRAVEL. Contains occasional -8" angular, hard, Limonite stained granodiorite clast. Some thin, discontinuous (5-7cm) orange and cream horizontal banding of moist silty SAND AND GRAVEL → RESIDUAL SOIL (reworked by FLUVIAL PROCESSES ?) OR COLLUVION.
	0.5		
	9043-G2		Discontinuous along trench length (silt) present over 90% of its length. Varies between 30 and 70 cm thick
	1.0		
	1.5		
	2.0		0.4-0.8m · SANDY GRAVEL, TRACE TO SOME SILT Tan orange (iron oxide stained) and brown sandy GRAVEL with a trace to some silt. Gravel is residual GRANODIORITE hard angular quartz and feldspar grains. Unit is medium dense and slightly dry of optimum moisture content.
			In some areas material extends right to trench bottom (~2.0m).
			0.8-2.0m · GRANODIORITE Angular blocky (typ -18" dia) jointed slightly broken, slightly to moderately weathered, hard, coarse grained. Hornblende-Biotite GRANODIORITE. Weathering primarily along joint planes as evidenced by Limonite Staining on smooth planar joint surfaces.

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TEST PIT LOG

TEST PIT No. 9043-G
SHEET 2 of 2

PROJECT Eskay
LOCATION OF TEST PIT
DATE July 27 1993

PROJECT No. 183
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL

Some areas of bedrock are heavily weathered Argillically altered (ie clay overprinting of fabric) areas and friable to base of trench. In such areas the material maintains relict jointing.

Joint Orientations

020°/30°
142°/62° SOUTH
011°/38° EAST
162°/64° NE.

Note: Sample 9042-C1 sampled over 0.2-0.5m depth interval in colluvium

9042-C2 sampled over 0.1-0.5m depth interval in RESIDUAL SOIL.

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TEST PIT LOG

TEST PIT No. 9043-4
SHEET 1 of 6

PROJECT CASINO
LOCATION OF TEST PIT Ch. 0-8m (E. END)
DATE AUG. 17, 1993 175m long at 110° BRG.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. easy digging in Topsoil and Residual Sands. Fairly easy excavation in HW, weak granodiorite Bedrock to 1.55 m. Trench is dry, walls stable. Mat'ls well drained. No permafrost.	0 0.25 0.55 1 1.55 2	HW, weak, friable granodiorite bedrock	Vegetation: Abundant tall white spruce with some white birch. V. thin moss cover w/ shrub willows over thin topsoil. Thin (20cm) vegetative mat of moss and tree roots. (shallow root system → easy stripping). Note: Lt. grey silty volcanic ash layer (recent) prominent & continuous along slope under moss vegetation. 0-0.25m F.GR. (SILTY) ORGANIC TOPSOIL Lt. reddish brown f-gr. soft silt w/ some v.f. sand and fine gravel, trace clay. → Topsoil is poorly drained, supports shallow spruce root system (typical along slope). 0.25-0.55m RESIDUAL SANDS Orangish lt. brown, dry, loose to med. dense residual well graded sand w/ some v. fine gravel, trace silt. Mat'l is v. well drained. Particles comprise HW, weak, angular granodiorite. Coarsens down to v. fine gravelly sand at base → weathering profile. 0.55-1.55m HW, WEAK, BADLY BROKEN GRANODIORITE BEDROCK. HW, weak, badly broken, friable granodiorite bedrock. Rock is v. well fractured into 3-5cm dia. pieces (fine blocky). Mat'l comprises approx. 20% residual sandy gravel, well drained, dry & stable. (Incr. rock hardness/competency w/ depth as decr. degree-of-weathering.

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TEST PIT LOG

TEST PIT No. 9043-H
SHEET 2 of 6

PROJECT CASINO
LOCATION OF TEST PIT CH. 8-17 m
DATE AUG 17, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in residual sands. Moderately difficult digging in broken, blocky, fresh, hard Granodiorite Bedrock.	0 0.2 0.4 1 1.6 2	FR Broken, blocky, hard Grano-diorite Bedrock. Refusal (Bottom)	0-0.2m F. GR. (SILTY) ORGANIC TOPSOIL (see p. 1). 0.2-0.4m RESIDUAL SAND, some FN. GRAVEL Orangish tan residual sand w/ some v. fine gravel. Mat'l is dry, loose, crumbly, well drained (high permeability). Also contains some fn.-med. MW blocks of granodiorite. 0.4-1.6m BROKEN, FRESH, HARD GRANODIORITE Broken, fresh, v. hard (R6) med.-crs. grained Granodiorite Bedrock. Rock is med.-crs. blocky (10-30cm dia.), angular, orthogonal. Prominent, well developed fractures at: 1. 148/80° SW } Major 2. 063/65° SE } 3. 102/10° S - Minor. Fracture sets define blocks. Fractures are typically rough, planar, fresh w/ minor limonite on sfc. Occasional thin parting of MW-HW, badly broken granodiorite rock + residual sandy gravel between blocks of fresh granodiorite (est. 10% by vol.). 1.6m Refusal

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TEST PIT LOG

TEST PIT No. 9043-H
SHEET 3 of 6

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 17-43 m
GROUND ELEVATION
DATE AUG. 17, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.2 m F.GR. (SILTY) ORGANIC TOPSOIL (As Above, see p. 1).
	0.2		0.2-0.5 m RESIDUAL SAND, some FN. GRAVEL Dry residual sand w/ some v. fine gravel, trace silt. Mat'l grades down to v. fine gravelly residual sand (incr. gravel content). Also, some (approx. 20%) MW, mod. hard granodiorite rock frags., trace fine roots.
	0.5		0.5-1.5 m BADLY BROKEN GRANODIORITE ROCK and RESIDUAL SANDS/GRAVELS. Light orangish tan (limonite), MW, mod. hard (R3), badly broken, angular granodiorite rock. Frags. from 2-10 cm dia. w/ some residual v. fine gravelly sand matrix. Clasts comprise approx. 60% and are supported by matrix of residual sandy gravel (approx. 40%). Mat'l is crumbly, med. dense, very dry (well drained).
Moderately easy digging in broken rock w/ residual matrix from 0.5-1.5 m	1		
Refusal at 1.5 m — hoe can only scrape up few 20 cm pieces of rock. (estimate easy ripping).	1.5	MW, Broken, hard Grano-diorite Bedrock	1.5 m BROKEN, MW, GRANODIORITE BEDROCK. MW, mod. hard, slightly broken granodiorite bedrock. Rock is sl. altered (chlorite alteration) & mod.-heavily iron oxidized. Blocks are orthogonal 10-30 cm size. → Potential rockfill for structural, outer zones of embankment or riprap.
	2		

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TEST PIT LOG

TEST PIT No. 9043-H
SHEET 4 of 6

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 43-71m
GROUND ELEVATION
DATE AUG. 17, 1993
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.2m F.GR. (SILTY) ORGANIC TOPSOIL (As Above, see p. 1).
Easy digging in weathered residual soils from 0-1.6m.	0.2		0.2-0.4m RESIDUAL SAND, some SILT. Residual sand with some silt, trace fine gravel. Uniform, HW (typical residual sand).
	0.4		0.4-1.6m RESIDUAL SANDY GRAVELS / ROCK FRAGS. Residual HW sandy gravel and gravelly sand (0.4-0.8m); and HW, broken, weak, angular fine granodiorite rock frags. w/ gravelly sand (0.8-1.6m). (Estimate 30% rock).
9043-H1 Residual Sand. (CH. 63m)	0.8		
1			1.6m HARD, FRESH GRANODIORITE BEDROCK. Hard, blocky, broken FR-MW granodiorite bedrock.
Refusal at 1.6m in hard, blocky Granodiorite	1.6	Hard Fresh Grano-diorite Bedrock.	
2			

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TEST PIT LOG

TEST PIT No. 9043-H
SHEET 5 of 6

PROJECT CASINO
LOCATION OF TEST PIT CH. 71-82 m
DATE AUG 17, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.2m F.GR. (SILTY) ORGANIC TOPSOIL (As Above, see p. 1).
	0.2		0.2-0.4m RESIDUAL SAND, some GRAV. + ROCK. Orangish tan residual sands with some v. fine gravel and angular fine (5cm dia.) granodiorite rock frags. Mat'l is loose, v. dry (well drained).
	0.4	FR Blocky, broken, hard Granodiorite Bedrock.	0.4-1.9m BLOCKY, BROKEN, FR, HARD GRANODIORITE BEDROCK. FR-SW, med.-crs. blocky, broken granodiorite bedrock. Blocks are angular from 10-90 cm dia., v. hard, crs. gr. fresh granodiorite w/ thin film of limonite on v. rough, sub-planar fracture surfaces.
Very difficult digging in broken, blocky, fresh granodiorite bedrock at 0.4m. - estimate easy ripping w/ heavy (dozer) equipment. since blocky & broken from 0.4-1.9m+.	1		
Refusal at 1.9m w/ hoe.	1.9		→ Refusal (bottom) in slightly broken, fresh, hard Granodiorite.
	2		

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TEST PIT LOG

TEST PIT No. 9043-H
SHEET 6 of 6

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 82-175 m* (W. END).
GROUND ELEVATION
DATE Aug. 17, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.2m F.GR. (SILTY) ORGANIC TOPSOIL (As Above, see p. 1).
	0.2		0.2-0.4m RESIDUAL SAND, some GRAVEL and ROCK FRAGS. (As Above, see p. 5)
Mod. difficult digging in broken, blocky, hard granodiorite bedrock at 0.4 m.	0.4	SW-FR Blocky, mod. hard Grano-diorite.	0.4-1.4m BROKEN, BLOCKY, SW-FR, MOD. HARD GRANODIORITE BEDROCK. Broken, fine-med. blocky SW-FR, mod. hard to hard crs. gr. granodiorite bedrock. Trace - some dry residual sandy gravel between rock blocks. Blocks are angular, orthogonal, range from 10-30cm dia. Occasional zone of HW, weak, badly broken granodiorite up to 2m wide along trench from CH. 82-175m. Mat'l also comprises some residual sandy fine gravel matrix. (Est. 10% of trench from CH. 82-175m). → Rocky mat'l (90% of trench) is potential excellent source of competent, blocky rockfill since mat'l is hard, fresh and easily rippable. Est. 60% of rock +6" dia.
Refusal at 1.4m. (estimate rippable w/ heavy equipment).	1.4		
	1		
	2		

*Note: Trench shallows from 82-175m downslope due to shallower depth to bedrock.

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TEST PIT LOG

TEST PIT No. 9044-A
SHEET 1 of 4

OJECT CASINO
LOCATION OF TEST PIT CH 0-12m (WEST END)
DATE AUG. 9, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface Vegetation: Mixture of aspen, birch, tall spruce and willows. Ground is hard with thin moss/grass cover. Shallow root system in well drained soils. No permafrost.
Easy digging in topsoil, colluvium and residual gravelly sand.	0.3		0-0.3m V. FINE GRAINED ORGANIC TOPSOIL. Dark greyish brown, firm to stiff, very uniform clayey silt with some v. fine sand and fine fresh organics (roots) throughout. Some zones contain up to 40% broken rock fragments → colluvium.
			0.3-0.8m WELL GRADED BROWN COLLUVIUM. Dark brown, moist colluvium comprising mixture of sandy silt, fine residual gravel and coarse gravel size granodiorite rock fragments.
Trench is dry, no permafrost.	0.8		0.8-1.2m RESIDUAL GRAVELLY SAND. Lt. tan-orange, loose, crumbly, dry residual gravelly SAND. Gravel is fine (0.5-1cm dia.) angular, v. weak, iron oxidized, heavily weathered granodiorite.
Moderately difficult digging in HW, badly broken granodiorite rock frags.	1.2		1.2-2.0m HW, GRANODIORITE ROCK FRAGMENTS. Heavily weathered, weak, badly broken granodiorite rock fragments with some fine gravelly sand matrix. (est. 10-20%). Mat'l is clast supported, dry, loose & crumbly, very well drained. Clasts are v. angular, platy, weak & soft to mod. hard (R1-R2), range from 3-10cm dia. (incr. in size with depth).
	2		2.0m MW, BLOCKY MOD. HARD GRANODIORITE BEDROCK - Refusal.

9044-A1 CH. 5m

MW

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TEST PIT LOG

TEST PIT No. 9044-A
SHEET 2 of 4

OJECT CASINO
LOCATION OF TEST PIT CH. 12-20m
DATE AUG. 9, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe LIH09LC	0		0-0.3m F. GRAINED ORGANIC TOPSOIL, As Above. (see p. 1).
Fairly easy digging in MW, broken granodiorite rock frags. from 0.3-1.9m ↓	0.3		0.3-1.9m MW GRANODIORITE ROCK FRAGS. with some GRAVELLY SAND. Broken, moderately weathered (MW), medium dense, mod. hard (R2-R3), very angular granodiorite rock fragments varying from 5-15 cm dia. Limonite (iron oxide) stained throughout rock. Material comprises approx. 80% rock frags., 20% fine, dry gravelly sand as matrix. Clast and matrix supported. ⇒ (Very coarse granular, strong compacted fill. Potential use as compacted, free draining random or shell zone embankment fill material).
Trench dry, walls stable. No groundwater or permafrost.	1		
	1.9		1.9m SW, BLOCKY, BROKEN GRANODIORITE BEDROCK Slightly weathered (SW), med. blocky, broken, iron stained Granodiorite Bedrock. Rock is weak to mod. hard (R1-R3, R2 ave.). Iron oxide common on fracture surfaces. Rock is med. grained with abundant biotite, feldspar crystals (equigranular).
	2	SW	Refusal at 1.9m in SW Granodiorite Bedrock.

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TEST PIT LOG

TEST PIT No. 9044-A
SHEET 3 of 4

.OJECT CASINO
LOCATION OF TEST PIT CH. 20-50 m
DATE Aug. 9, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.3m F. GRAINED ORGANIC TOPSOIL, As Above (see p. 2, 2).
Easy digging in loose to med. dense residual sands and gravels from 0.3-1.3m.	0.3		0.3-1.3m RESIDUAL, HW SANDS & GRAVELS Orangish brown, heavily weathered residual sands and gravels. Material grades from SAND with some v. fine gravel, trace silt (top 0.5m), down to sandy gravel at base. Particles are very angular, weak, heavily weathered. Gravel ranges from 0.5-2 cm dia. Material is dry, crumbly and loose-med. dense. → Potential good source of strong compacted fill.
	1		
Very difficult digging in hard, broken, fresh granodiorite bedrock 1.3-1.8m.	1.3	FR-SW broken, hard GRANODIORITE	1.3-1.8m HARD, FR-SW GRANODIORITE BEDROCK. Hard, fresh to slightly weathered (FR-SW) medium to coarse (10-20cm dia. blocks), fine-med. grained granodiorite bedrock. Rock is broken with sub-vertical, rough, sub-planar fractures oriented at: 137/65°SW, 044/74°NW. Fractures spaced 10-20cm.
Refusal at 1.8m. (Crippable w/ heavy equipment).	1.8		
	2		

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TEST PIT LOG

TEST PIT No. 9044-A
SHEET 4 of 4

OJECT CASINO
LOCATION OF TEST PIT CH. 50-90m (East End)
DATE AUG. 9, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in Topsoil and residual gravelly sands from 0-0.8m	0		0-0.3m F. GRAINED ORGANIC TOPSOIL, Hs Above (see p. 1,2,3).
	9044-A2 CH. 75m 0.3		0.3-0.8m RESIDUAL GRAVELLY SANDS. Residual fine gravelly SAND with trace to some silt. Material is loose, dry to slightly moist, granular with some crs. gravel - sm. cobble size angular, weak MW granodiorite rock fragments. (Est. 10-20% rock frags.). Mat'l is fairly well graded. → Good potential source of strong, rel. low permeability compacted fill material.
Difficult digging in broken granodiorite from 0.8-1.3m.	0.8		0.8-1.3m BROKEN, SW-MW, BLOCKY GRANODIORITE. Broken, SW-MW, mod. hard (R2-R3), medium-coarse blocky, coarse grained Granodiorite with trace to some (10-20%) gravelly SAND matrix. Blocks are angular, orthogonal, equidimensional, range from 10-30 cm → Typical of SW, broken, hard granodiorite found elsewhere.
Refusal at 1.3m in slightly broken, coarse blocky granodiorite bedrock.	1 1.3	FR-SW GRANODIORITE BEDROCK.	1.3m GRANODIORITE BEDROCK. Slightly broken, SW-FR, coarse grained, blocky granodiorite bedrock. (Refusal with backhoe but rippable with heavy equipment. Est. rippable additional 1-2m depth.
	2		

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TEST PIT LOG

TEST PIT No. 3040 - B
SHEET 1 of 1

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 29 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• Previously stripped • Excavated with Hitachi UH05LC Hoe • Covering vegetation - stunted black spruce and willow • Trench excavated 07/28/93 and had not yet begun to thaw below permafrost horizon.			0.0-0.2m • ORGANICS - moss, grasses and abundant root mass. 0.2-2.9m • PEAT Brown-grey, fine grained (silty, clayey) peat with occasional seam of fibrous coarse peat (1-2 cm thick). Occasional lense of orange sandy gravel. Some logs - semi-decayed. Below permafrost table the deposits are well bonded and hard with no visible ice or lensing.
	0.5		
	Permafrost Horizon		
	1.0		
	1.5		
	2.0		
Ponded water to (approx) 48cm depth in excavation - brown/orange in colour - 'swampy' odour.	▽		
	2.5		
	3.0	E.O.P	

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TEST PIT LOG

TEST PIT No. 9044-C
SHEET 1 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 0-60m
DATE AUG. 4/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC No permafrost or groundwater. Trench walls dry and fairly stable. Easy digging in surficial colluvium & residual sands and gravels to 1.2m depth. Very difficult digging in slightly broken granodiorite bedrock (estimate rippable to 3-4m depth).	0 0A 9044-C1 CH. 50m 1 1.2 1.7 2	SW FR	Surface Vegetation: Sparse thin white birch with some tall, thin spruce trees. V. thin moss w/ grass. No permafrost features. 0-0.4m VERY FINE GRAINED COLLUVIUM Dark brown, med. dense v. fine sandy SILT with some fine gravel and trace to some clay. Material is uniform, massive (non-stratified), moist. Trace v. fine organics (root frags.) throughout. Estimate low permeability matl at approx. optimum moisture content. → well graded, fine grained colluvium. 0.4-1.2m RESIDUAL SANDS & GRAVELS Orangish light brown, med. dense, dry SAND & FINE GRAVEL with trace silt. Particles are heavily iron oxidized, angular & weak. Gravel varies from few mm to 3 cm dia. Material is well graded from gravelly SAND at top, down to sandy gravel at base (fining up weathering profile). Cohesionless. 1.2-1.7m FRESH, CRS. BLOCKY GRANODIORITE BEDROCK Fresh, very hard (R6), slightly broken, coarse blocky coarse grained granodiorite bedrock (Dawson Range). Top 0.2m slightly weathered with iron oxidation on rough sub-planar fracture surfaces. Blocks approx. 10-30cm dia. equidimensional, crs., angular. Refusal

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TEST PIT LOG

TEST PIT No. 9044-C
SHEET 2 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 60-90 m.
DATE AUG. 4/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.3m VERY FINE GRAINED COLLUVIUM. Dark brown very fine sandy SILT with some fine gravel and clay. As per CH. 0-60m (see p. 2).
Easy digging in colluvium.	0.3		0.3-0.7m BROKEN ROCK with RESIDUAL SAND/GRAVEL Broken, slightly weathered granodiorite rock fragments (approx. 60%) supported in matrix of residual sands and gravels. Coarse grained, dry, crumbly material.
Moderately difficult digging in broken rock.			
Very difficult digging in slightly broken rock.	0.7	FR	0.7-1.7m FRESH GRANODIORITE BEDROCK. very coarse, very hard (R6), fresh blocky grey granodiorite bedrock. Blocks are coarse, angular from 20-80 cm dia. Granodiorite is coarse grained, fresh and slightly broken. → (Potential source of coarse, competent rockfill or riprap).
Estimate blade refusal at 0.7 m.	1		
No permafrost or groundwater.			
Estimate max rippable depth approx. 2.5 m.	1.7		Refusal with hoe bucket.
	2		

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TEST PIT LOG

TEST PIT No. 9044-C
SHEET 3 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 90-140 m
DATE AUG. 4/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Moderately easy digging in colluvium and crs. grained residual material to 0.6m. Refusal at 6m in v.hard, fresh, competent granodiorite rock.	0 0.3 0.6 1 2	FR	0-0.3 m FINE GRAINED COLLUVIUM Dark brown v. fine sandy silt with some fine gravel, trace-some clay. Mod. well graded, trace organics (similar to colluvium above - see pp. 1, 2). 0.3-0.6m ROCK FRAGS. & SILTY COLLUV. MATRIX. Mixture of brown, moist, loose silty fine SAND with some gravel matrix (approx. 70%) supporting coarse angular, fresh, hard granodiorite rock fragments. (approx. 30%.) Rock frags. are coarse angular, range from few cm to 30cm dia. 0.6m FRESH, HARD, COMPETENT GRANODIORITE V. hard, fresh, competent, coarse grained granodiorite bedrock. Rock is very coarse & blocky. Estimate very difficult ripping due to large block size

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TEST PIT LOG

TEST PIT No. 9044-C
SHEET 4 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 140-160 m*
DATE AUG. 4/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Easy digging in COLLUVIUM.	0		0-0.4m WELL GRADED, FINE GRAINED COLLUVIUM Dark brown, moist silty SAND & VERY FINE GRAVEL. Material is well graded, med. dense, massive colluvium w/ trace fine organics (roots). Estimate low perm., strong compacted fill. Est. low plasticity, med. toughness.
Moderately difficult digging in residual (gravelly sand & broken rock frags. (Estimate easily bladable with heavy equipment). Trench cont'd dry, no permafrost.	0.4		0.4-1.4m BROKEN ROCK & RESIDUAL GRVLY SANDS Mixture of residual weathered fine gravelly SAND with trace-some silt (approx. 50%) and broken, slightly weathered, moderately hard (R3), medium grained granodiorite rock fragments. Frags. range from 5-20 cm dia. very angular. Material is matrix to clast supported, dry, free draining
	1		
	1.4	FR	1.4m Refusal in fresh, very hard, slightly broken, very coarse blocky GRANODIORITE BEDROCK.
	2		*Note: Pocket of residual fine gravelly SAND underlying colluvium between CH. 145-155m to 1.7m depth overlying bedrock.

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TEST PIT LOG

TEST PIT No. 9044-C
SHEET 5 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 160-200 m (END)
DATE AUG. 4/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0–0.4m FINE GRAINED COLLUVIUM. (same material as above - see p. 4)
	0.4		0.4–1.4m RESIDUAL SANDS & BROKEN ROCK. Residual gravelly SAND with some silt (approx. 50%) and broken coarse blocky, slightly weathered, hard granodiorite rock fragments (approx. 50%). Very coarse grained material. Blocks 10-30 cm dia., mod. hard (R3).
	1		
	1.4	FR	1.4m Refusal - Fresh, hard GRANODIORITE BEDROCK.
	2		

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TEST PIT LOG

TEST PIT No. 9044-D
SHEET 1 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 0-30m (Ul. End)
DATE AUG. 4/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench frozen Trench walls thawing and unstable / soft, saturated.	0 Permafrost Table		Surface: Stunted black spruce. *Trench near contact with black spruce (permafrost) and birch/poplar upslope (no permafrost).
	0.4		0-0.4m FROZEN, FINE GRAINED COLLUVIUM. Dark brown, wet silty sand and gravel. (previously frozen). Thaw unstable mat'l. (i.e. no strength when thawing).
	0.6 Refusal (Frozen)		0.4-0.6m FROZEN, RESIDUAL SILTY SAND. Moist, frozen, residual silty SAND
	1		0.6m Refusal in permafrost. Very hard ground.
	2		

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TEST PIT LOG

TEST PIT No. 9044-D
SHEET 2 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 30-65 m.
DATE Aug 4/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface: Abdt birch and alder. (No black spruce in non-permafrost areas).
	9044-D1 CH. 45m		0-0.8m WELL GRADED SANDY COLLUVIUM Dark brown, moist, med. dense well graded sand with some gravel and silt. Occ. small cobble. V. well graded, massive COLLUVIUM. Poorly sorted. At approx. optimum moisture → Good potential source of dense, strong random fill
	0.8		0.8-1.1m RESIDUAL SANDS Orange-lt. brown, weathered residual fine gravelly sand with trace silt. and occ. cobble size rock frag. Mod. well graded, slightly moisture at approx. optimum moisture. → Possibly mix colluv. and residual sand for embankment fill.
	1		
	1.1		1.1-1.5m ROCK FRAGS. & RESIDUAL SAND Broken, fresh, hard granodiorite rock frags. with some residual gravelly sand matrix. (approx. 30% matrix, 70% rock frags.).
	1.5	FR Granodiorite Bedrock (Refusal)	1.5m HARD, FRESH GRANODIORITE BEDROCK Refusal in slightly broken, v. hard, competent, fresh coarse grained granodiorite bedrock. Fresh, 10-50 cm dia. frags. in bottom of trench.
	2		

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TEST PIT LOG

TEST PIT No. 9044-D
SHEET 3 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 65-110m
DATE Aug. 4/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MIDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Partially frozen (patchy permafrost).	0		0-0.5m WELL GRADED SANDY COLLUVIUM Dark brown, v. moist, well graded colluvium, As Above (see p. 2).
	0.5		0.5-1.0m RESIDUAL SAND & GRAVEL / ROCK FRAGS. Mix of residual sands and gravels (50%) with broken angular granodiorite rock frags. (50%).
	1	Granodiorite Bedrock	1.0m GRANODIORITE BEDROCK
	2		

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TEST PIT LOG

TEST PIT No. 9049-D
SHEET 4 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 110-180m *
DATE AUG. 4/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench excavated parallel to vegetation contrast... stunted black spruce & permafrost downslope of trench; white spruce with birch upslope of trench.	0		0-0.5m WELL GRADED COLLUVIUM Moist, med. dense silty sand with some fine gravel and clay, trace v. fine organics. at ~optimum moisture (similar to colluvium above, see p. 2, 3).
	0.5		0.5-1.2m ROCK FRAGS. w/ RESIDUAL SAND Broken, blocky, fresh, hard granodiorite rock frags. (~80%) with some residual sand w/ gravel (~20%.)
	1		
	1.2	FR Granodiorite Bedrock (Refusal)	1.2m GRANODIORITE BEDROCK V. hard, fresh, competent, crs. grained granodiorite bedrock.
	2		* Patches of permafrost confirmed in stunted black spruce groves downslope of trench.

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TEST PIT LOG

TEST PIT No. 9044-D
SHEET 5 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 180 - 250m (E. End)
DATE Aug. 4/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.8m WELL GRADED SANDY COLLUV. (As Above, see previous pages)
	0.8		0.8-1.8m BROKEN, BLOCKY GRANODIORITE BEDROCK w/ trace RES. SAND x MW, broken, med. blocky, mod. hard, crs. grained granodiorite bedrock. Frags. are v. angular, range from 10-30 cm dia. Mat'l contains approx. 5-10% residual sand matrix. * Note: Occasional zone contains up to 40% residual gravelly sand matrix.
	1		
	1.8	SW Bedrock (Refusal)	1.8m GRANODIORITE BEDROCK SW, hard, slightly broken granodiorite bedrock.
	2		

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TEST PIT LOG

TEST PIT No. 9045-A
SHEET 1 of 1

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 24, 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• Excavated with Hitachi UH09LC Hoe • Trench Length = 42.0m • Strike: 045°	ACTIVE LAYER.		0.0 - 0.20m • ORGANICS: abundant root mass, mosses and last years growth now decaying.
	0.1		
	0.2		0.20 - 0.30m • PEAT Brown silty fibrous peat.
	0.3		
	0.4		
	0.5		
	0.6		
• Depth to Permafrost Table = 0.70m	0.7		PERMAFROST TABLE
	0.8		0.30 - 0.57 • FLUVIALLY STRATIFIED SANDS AND SILTS: (1) SANDS - 0.05 - 0.07 cm (typically) in thickness; orange brown saturated loose, clean SAND AND GRAVEL. well sorted - poorly graded. (2) SILTS - beds typically 0.03 - 0.04m in thickness; brown-grey, saturated SILT with trace to some clay and sand. Estimate up to 20% organic content. Loose to very loose density.
• Very difficult digging below permafrost table.	0.9		0.57 - 0.90m Rich brown grey, spongy, fine grained, med. dense, saturated silty ~~PEAT~~ above permafrost table. Below permafrost table the material is very hard, well bonded silty PEAT with excess non-visible ice. Suspect presence of more alternating layers of sands silts and peats beneath.
	1.0		

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TEST PIT LOG

TEST PIT No. 2045-B
SHEET 1 of 2

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 23, 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• Excavated with Hitachi UH09LC HOE • Profile applies over stations 0+00m - 5+50m and 24+00m to 32+00m. • Trench is total of 32+00m long • Strikes 289° Head to Tail	0.0		0.0 - 0.10m • ORGANICS - mosses, dead moss, abundant root mass and 20% (visual est) Brown sandy SILT TOPSOIL
	0.5		0.10 - 0.60m • SILT, SOME SAND Tan-beige-grey dry very uniform SILT with trace to some SAND. loose, some rock fragments.
	1.0		0.60 - 1.20m • RESIDUAL SANDY GRAVEL / HEAVILY WEATHERED GRANODIORITE Residual moist GRAVEL with trace to some SAND/SANDY AND heavily weathered, very broken Hornblende-Biotite GRANODIORITE. GRANODIORITE may be broken/crumbled in fingers to a well graded sandy GRAVEL. Relict-jointing visible in soils. Limonite staining on joint surfaces in rock areas. Grades downwards to increasingly competent rock
	1.5		
	2.0		
Refusal in Bedrock at 2.5m depth.	2.5		1.20m - 2.50m GRANODIORITE Coarse grained Hornblende-Biotite GRANODIORITE. Very strong, hard (10 blows to chip blocks) fresh competent rock. Limonite staining on joint surfaces (smooth and planar). Block sizes approx 0.10 x 0.15 x 0.20m angular.
	3.0		JOINTS 051/64 SE 139/80 SW
	3.5		

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TEST PIT LOG

TEST PIT No. 9045-B
SHEET 2 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JULY 23 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
EXCAVATED WITH HITACHI UH08LC HOE. PROFILE APPLIES OVER STATIONS 5+50 - 20+00m	0.0		0.0-0.30m • ORGANICS + TOPSOIL - SILTY SANDY TOPSOIL WITH ABUNDANT ROOT MASS.
	0.5		0.30-0.65m • SANDY SILT / SILT WITH TRACE SAND. Tan-beige, loose, dry sandy SILT to SILT with trace SAND.
SAMPLE 9045-B1 Residual Soil 2 bags	1.0		0.65-1.5m • RESIDUAL SAND AND GRAVEL. Moist, tan-brown-orange, loose to medium dense SAND and GRAVEL. ARGILLIC ALTERATION.
	1.5		1.5-3.2m • GRANODIORITE. Weak, very broken, friable Hornblende Biotite GRANODIORITE. Some clayey areas with calcite infilling of fractures. Grades into a blocky angular hard GRANODIORITE IN AREAS.
	2.0	weak friable	Note: At "contact" between friable rock and residual soil a thin (6-10 cm thick orange-beige-yellow moist sandy gravel w/ trace to some SILT and CLAY band is present. → perhaps extent of weathering horizon over less broken, less permeable rock.
	2.5	more competent	
	3.0		
		E.O.P. (NOT REFUSAL)	
	3.5		

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TEST PIT LOG

TEST PIT No. 9046-A
SHEET 1 of 2

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 26, 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• Excavated with Hitachi UH09LC Hoe • Trench length equal 50+50m • Trench Strike: 093°. • All materials in trench are well drained • No evidence of freeze-thaw or permafrost (recent) observed	0.0 0.5 9046-A1 1.0 1.5 2.0 2.5 3.0 3.5 4.0	v. broken blocky GRANODIORITE	0.0-0.10m • ORGANICS: mosses, forest litter and abundant root mass. 0.10-0.60m • ~~RESIDUAL~~ SAND AND GRAVEL Brown, well graded, poorly sorted, medium dense slightly moist (estimate 4-5% dry of optimum) SAND AND GRAVEL with trace to some silt. Estimate contains 20-30% ANGULAR clasts (+3/4" to -4") of moderately weathered to heavily weathered coarse grained Hornblende-Biotite GRANODIORITE → COLLUVIAL TOPSOIL. 0.60-3.10m • RESIDUAL SAND AND GRAVEL Beige and brown, iron oxide stained, well drained, medium dense SAND AND GRAVEL with an estimated 40% of heavily weathered, limonite stained, v. broken, weak, soft chlorite altered coarse grained Hornblende Biotite GRANODIORITE Soil matrix is slightly moist (estimate 4-5% dry of optimum) and composed primarily of hard angular crystals of quartz and feldspar 3.10m-4.10m GRANODIORITE: moderately weathered to heavily weathered, blocky, very broken Limonite stained coarse grained

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TEST PIT LOG

TEST PIT No. 9046-A
SHEET 2 of 2

PROJECT Casino
LOCATION OF TEST PIT
DATE July 26, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
END OF TRENCH AT FULL BOOM OF HOE. Suspect very near competent hard bedrock	4.0		GRANODIORITE. Minor (<1-2mm thick) quartz vein infilling of fractures in rock; also Calcite-Anchorite veining/healing of fractures and coatings on joint surfaces. Rock is generally weak and soft. Joint orientations: 040/57 N.WEST 314/84 N.EAST. Joint surfaces are smooth to slightly rough, Limonite stained, may exhibit calcareous infillings and coatings and are planar and continuous. Joint spacing appears to be 10-15 cm between ~~larger more~~ well developed joints. FAULT (?) Strikes approximately 330°/90° undulating with smooth polished slickensides (movement towards south) @ 29 m chainage.

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TEST PIT LOG

TEST PIT No. 9047-A
SHEET 1 of 5

.OJECT CASINO
LOCATION OF TEST PIT CH. 0-1Zm (WEST END)
DATE AUG. 7, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in organic, residual and badly broken rock materials from 0-1.6m.	0		Surface Vegetation: Abundant thin birch and tall spruce with some aspen and alder. Very thin moss cover. No permafrost.
	0.3		0-0.3m FINE GRAINED, SILTY ORGANIC TOPSOIL Dark brown, soft, uniform SILT with some clay and very fine sand. Trace fine roots. Material is moist, poorly graded. Estimate low permeability, low-med. toughness, med. plasticity.
	0.6		0.3-0.6m RESIDUAL SILTY SAND, some GRAVEL Orange-light brown residual silty SAND with some fine gravel. Material is loose, moist (at approx. optimum moisture content), poorly graded. Clasts comprise v. angular, weak, heavily weathered granodiorite fragments ranging from few mm to 2cm dia.
	1		0.6-1.6m BROKEN, WEATHERED GRANODIORITE ROCK Broken granodiorite rock fragments with some residual gravelly SAND matrix. (Estimate 10-20% matrix; 80-90% broken rock). Rock is very angular, slight to moderately weathered, weak (R3). Fragments vary from 2-10cm dia. Limonite staining common on fracture surf. Material is dry.
	1.6	SW	
Refusal at 1.8m in fiesh, hard granodiorite bedrock.	1.8	FR	1.6-1.8m SW, HARD, CRS. BLOCKY GRANODIORITE Slightly weathered to fiesh, hard, coarse blocky med. grained Granodiorite bedrock. Planar, well developed fractures at 130/62° SW, spaced 5-10cm.
	2		1.8m COARSE BLOCKY FRESH GRANODIORITE
Trench is dry. No groundwater, permafrost. Materials well drained, granular Trench walls stable but materials only e-med. dense.			

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TEST PIT LOG

TEST PIT No. 9047-A
SHEET 2 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 12-18m
GROUND ELEVATION
DATE AUG. 7, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in loose to medium dense residual, altered granodiorite SAND.	0 0.3 1 9047-A1 2 3 3.1 Bottom 4		0-0.3m ORGANIC TOPSOIL, As Above (see p. 1) 0.3-3.1m RESIDUAL, ALTERED GRANODIORITE SAND Black and white granular loose (top) to medium dense (bottom), uniform silty FINE SAND with some clay, trace fine gravel. → Material is heavily weathered and altered granodiorite. Weathered to coarse granular, sugary texture. Relict crs. gr. texture and iron stained relict joints well preserved. Material is slightly sticky due to alteration of feldspars to clays. Material is uniform, moist (approx. opt. moisture content).

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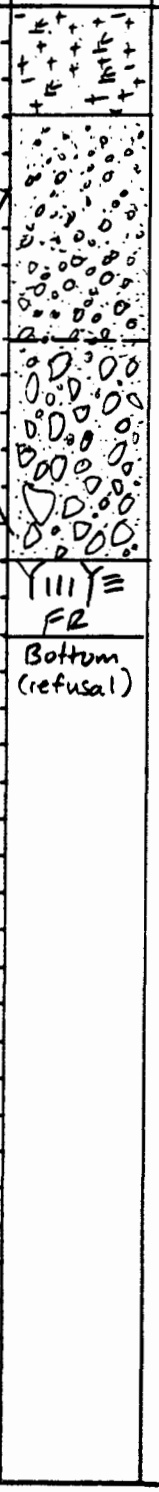
TEST PIT LOG

TEST PIT No. 9047-A
SHEET 3 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 18-50; 60-90m
DATE AUG. 7, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Moderately easy digging in residual sands/gravels and broken rock from 0-1.5m. Refusal at 1.7m in fresh, hard Granodiorite bedrock.	0 0.3 9047-AZ* CH. 75m 0.9 1 1.5 1.7 2	 FR Bottom (refusal)	0-0.3m ORGANIC TOPSOIL, As Above (see p. 1). 0.3-0.9m RESIDUAL SANDS/GRAVELS. Brown, med. dense residual gravelly SAND (top) grading down to sandy GRAVEL (base). Material is moist, well drained. Particles are HW, weak (oxidized), very angular. (potential strong compacted fill mat'l). 0.9-1.5m BROKEN, WEAK GRAND. ROCK FRAGS. Broken, weak, angular Granodiorite rock fragments with some sandy gravel matrix. Fragments are mod. hard, iron stained throughout, angular and range from 3-10 cm dia. (platy). 1.5-1.7m FRESH, HARD GRANODIORITE BEDROCK Fresh, hard (R5-R6) coarse blocky, coarse grained Granodiorite Bedrock. *Note: Sample 9047-AZ comprises: Residual, heavily granodiorite gravelly SAND, trace silt.

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TEST PIT LOG

TEST PIT No. 9047-A
SHEET 4 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 50-60m
DATE Aug. 7, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in residual, weathered SAND.	0 0.3 1 2 3		0-0.3m ORGANIC TOPSOIL, As Above (see p. 1) 0.3-2.0m RESIDUAL, WEATHERED SAND Loose - med. dense Residual SAND with some gravel, silt and rock fragments. Material is moist, well graded (Typical Heavily weathered residual granodiorite. Potential excellent strong, low permeability, compacted fill). 2.0m HW, GRANODIORITE ROCK FRAGMENTS. Heavily weathered granodiorite rock fragments with some (20%) gravelly sand matrix.

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TEST PIT LOG

TEST PIT No. 9047-A
SHEET 5 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 90-125 m (EAST END)
DATE AUG. 7, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in moist, loose-med. dense residual sands and gravels.	0 0.3 1		0-0.3m ORGANIC TOPSOIL, As Above. (see p. 1). 0.3-1.5m RESIDUAL SANDS and GRAVELS. Orange-brown, loose-med. dense, moist, crumbly coarse grained residual, heavily weathered material comprising SAND and GRAVEL. Particles are HW, iron stained, weak, very angular.
Mod. difficult digging in broken granodiorite rock.	1.5 2	Bottom*	1.5-2.0m BROKEN, WEAK GRANO. ROCK FRAGS. Broken, weak, angular granodiorite rock fragments with some sandy gravel matrix (est. 10-20% matrix). Material fines up ⇒ weathering profile.
Refusal at 2m from CH. 100-125m in broken, blocky Granodiorite Bedrock.	3		*Note: CH. 100-125m 2.0m SW-FR GRANODIORITE BEDROCK Broken, blocky, hard, SW-FR Granodiorite Bedrock.

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TEST PIT LOG

TEST PIT No. 9047-B
SHEET 1 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-20m (SOUTH END)
GROUND ELEVATION
DATE AUG. 2, 1993 TREND 042° 140m LONG.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Depth of weathering (depth to refusal) varies from 1.5 - 2.5m along trench. Trench is dry, non-frozen, walls stable. Fairly easy digging in overburden materials. Moderately difficult digging from 1.4 - 1.7m.	0 0.5 9047-B1 1 1.4 1.7 2	SW-MW GRANODIORITE BEDROCK Refusal	Surface vegetation: Abundant tall black spruce with some aspen and birch. Very thin moss cover. No permafrost. 0-0.5m RESIDUAL GRAVELLY SANDS. Orange-brown (oxidized) loose, slightly moist gravelly SAND with trace silt → Residual, weathered granodiorite; Gravel fragments are angular, weak, vary from 0.5-1.5cm dia. Mat'l fines up to SAND with some fine gravel and silt. Poorly graded. 0.5-1.4m RESIDUAL CRS. GRAVEL w/ SAND MATRIX Med. dense, dry GRAVEL with some sand. → Residual gravels. Clasts comprise mod. weathered, weak (R1) granodiorite rock fragments, ranging from 1-10cm dia. Matrix (approx. 20% of mat'l) comprises gravelly SAND. Clast supported. (potential crs. angular, strong, mod. high permeability compacted fill). Mod. well graded gravelly, dry material. 1.4-1.7m. BROKEN, BLOCKY SW-MW GRANODIORITE ROCK Broken, blocky, SW-MW Granodiorite Bedrock. Fresh, coarse grained, hard (R4) blocky rock. Well developed, limonite stained, planar fracture set at 036/62°W. Blocks cobble/gravel size with occasional small boulder (+8" dia.) of fresh granodiorite. 1.7m Refusal - BROKEN GRANODIORITE.

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TEST PIT LOG

TEST PIT No. 9047-B
SHEET 2 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 20-50m
DATE AUG. 2, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. easy digging in loose residual silty SANDS.	0 9047-B2		0-0.4m RESIDUAL SILTY SAND. Loose, orange-brown, uniform poorly graded residual silty SAND. Mat'l is moist (at approx. optimum moisture content) Trace v. fine root fragments throughout.
Moderately easy digging in residual gravels from 0.4-1.3m.	0.4		0.4-1.3m RESIDUAL GRAVELS, some SAND. Residual med.-crs. GRAVEL with some (20%) sand matrix. Fragments comprise MW, weak (R1), very angular, weathered granodiorite and range from 0.5-10cm dia. Mat'l is well graded. Trace fines. (Estimate dense, high permeability compacted fill). Moist, free-draining. Clast supported, med. dense.
	1		
Moderately difficult digging in broken, blocky Granodiorite Bedrock.	1.3	MW Broken, blocky GRANO-DIORITE BEDROCK	1.3-2.0m BROKEN, BLOCKY, MW GRANODIORITE ROCK Broken, blocky, Mod. weathered fine grained Granodiorite Bedrock. Weak (R1) rock. Limonite / hematite pervasive throughout rock. Blocks 5-10cm, equidimensional, very angular. Some gravelly sand matrix. (est. 10%).
	2		

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TEST PIT LOG

TEST PIT No. 9047-B
SHEET 3 of 5

.OJECT CASINO
LOCATION OF TEST PIT CH. 50-80m, 90-120m
DATE AUG. 2, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium and residual sands and gravels. Trench dry, walls fairly (ible, some sloughing.	0		0-0.4m FINE GRAINED COLLUVIUM / TOPSOIL Brown, firm, moist SILT with some gravel and v. fine sand, trace clay & organics. Material is mod. well graded, cohesive. (Estimate low-med. plasticity, medium toughness, mod. low permeability)
	9047-B3 0.4 CH. 90m		0.4-1.5m RESIDUAL SANDS / GRAVELS Orange-brown interbedded sandy GRAVEL and orange-tan sandy SILT w/ some clay and gravel. Material grades (coarsens) down to coarse gravel (broken granodiorite fragments) with some sand matrix at base. → Heavily weathered residual granodiorite soil. Material is moist, particles are weak and angular, heavily iron oxidized.
	1		
Moderately difficult digging in MW bedrock. (easily rippable) Refusal at approx. 1.7m.	1.5	MW	1.5m MW, BROKEN, WEAK GRANODIORITE ROCK Mod. weathered, weak (R2), broken, blocky Granodiorite Bedrock. Friable, soft rock.
		Bottom	
	2		

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TEST PIT LOG

TEST PIT No. 9047-B
SHEET 4 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 80-90 m
DATE AUG. 2, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in loose residual sandy material. Trench dry, Pits fairly stable, no permafrost.	0		0-1.7m RESIDUAL SANDS, some GRAVEL. Orange-brown (iron oxidized) stratified, loose residual sand with some gravel and trace to some silt.
	1		
	1.7	MW	1.7-2.0m Broken, mod. hard (R2-R3), blocky mod. weathered (MW) Granodiorite Bedrock.
Refusal at 2m.	2		

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TEST PIT LOG

TEST PIT No. 9047-B
SHEET 5 of 5

OJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 120-140 m. (NORTH END)
GROUND ELEVATION
DATE AUG. 2, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.3m FINE GRAINED COLLUVIUM/TOPSOIL Brown, moist SILT with some gravel and v. fine sand, trace clay and organics. (see p. 3).
Very easy digging in loose residual silty SANDS.	0.3		0.3-1.5m RESIDUAL SILTY SAND. Orange-brown, loose residual silty SAND with some v. fine gravel. Material is slightly moist. (at approx. optimum moisture content). Mod. well graded. Particles typically v. weak (oxidized), angular, heavily weathered granodiorite.
	1		
Refusal at 1.5 m in hard, fresh Granodiorite bedrock	1.5	FR	1.5m HARD, FRESH, COMPETENT GRANODIORITE BEDROCK. Hard, competent, fresh Granodiorite Bedrock. Rock is hard (R5-R6), coarse grained, equigranular. No alteration or weathering.
	2		

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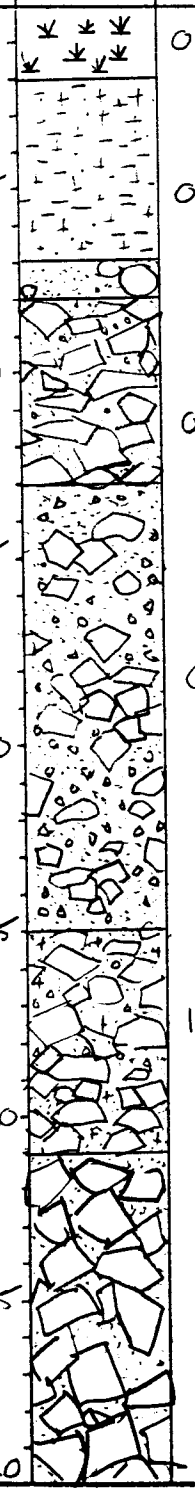
TEST PIT LOG

TEST PIT No. 3048-A
SHEET 1 of 2

PROJECT Casino
LOCATION OF TEST PIT
DATE July 27 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• Excavated with D6C CAT. • Cut slope ravelling out and slumping off due to precipitation (extra weight of soil).	0.0		0.0 - 0.20m • ORGANICS mosses, forest litter, decaying wood in areas under mosses and abundant root mass.
	0.5		0.20 - 0.70m • CLAYEY SILT w. TRACE sand Brown, grading to grey with depth, loose clayey SILT with trace sand. Moist (at optimum). Fine root network. → TOPSOIL
	1.0		0.70 - 0.80m • SAND w. Trace gravel Brown, black, mica (biotite) rich SAND w. trace gravel and occasional round slightly weathered cobble of granodiorite → FLUVIAL SAND. loose, moist (dry of opt)
	1.5		
	2.0		0.80 - 1.30m • SAND AND GRAVEL COLLUVIUM Orange-yellow (iron oxidized) SAND AND GRAVEL MATRIX IN CLAST SUPPORTED COLLUVIUM. Clasts are angular broken hard, limonite stained +3/4" TO -4" (TYP.) DIORITE AND moderately weathered weak +1" TO -4" (TYP.) Hornblende-Biotite GRANODIORITE; (70-80% CLASTS).
	2.5		
	3.0		1.30 - 2.50m • SAND AND GRAVEL (RESIDUAL) Grey-green to black, well graded, poorly sorted, medium dense, moist, well drained, SAND AND GRAVEL matrix, and 20-40% SUB-ANGULAR TO ANGULAR -4" (typ.) coarse grained, moderately to heavily weathered GRANODIORITE clasts.
	3.5		
	4.0		

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TEST PIT LOG

TEST PIT No. 7098-A
SHEET 2 of 2

PROJECT Casino
LOCATION OF TEST PIT
DATE July 27, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	4.0		2.50m - 3.1m Iron oxidized (orange-yellow) SILTY SAND AND GRAVEL MATRIX (up to 30-40%) with CLASTS of angular, moderately weathered quartzite and granodiorite
	4.5		3.1m - 4.6m Moderately to very broken, slightly weathered, hard competent rock in (10-20% matrix content) sandy GRAVEL MATRIX (TALUS ? OR BEDROCK ?)
	5.0		

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TEST PIT LOG

TEST PIT No. 9049-A
SHEET 1 of 1

PROJECT [illegible]
PROJECT No. [illegible]
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 21 1993
LOGGED BY TMC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Excavated with Hitachi UH07LC Hoe.	0.0		
PERMAFROST TABLE	0.5		0.0 - 0.1m • ORGANIC: TOPSOIL - 50% ROOTMASS and matted 50% PEAT mesh with black and very spongy.
• Note: previously stripped allowing some thaw (guess 3-4 wks)	1.0		0.1 - 0.4m • GRAVELLY CLAYEY SILT Very moist/saturated (weeps when squeezed) Loose spongy gravelly clayey SILT Root fragments (pale white) and black spongy fibrous peat lenses present.
• Very difficult digging below permafrost table. Essential refusal at 1.5m.	1.5		0.4 - 1.3m • INTERLAYERED FINE GRAINED PEATS AND ALLUVIALLY/FLUVIALLY DERIVED SANDY GRAVELS AND [EXCESS] ICE LENSES
Note: took back samples (4 blocks) of frozen ground to thaw in pail w/ result of 2-3 inches of water overlying saturated very loose soil			PEATS - Rich brown grey in colour, well bonded PEAT with some decayed wood fragments and pockets of grey-blue sandy SILT. Thaw unstable. SANDY GRAVELS - Fluvially deposited orange-brown sands with pebble sized gravels. Typically coarsen: downwards with interstitial ice - well bonded. ICE LENSES - Clear to milky white "cloudy" ice lenses 2-5 cm thick in x-section 20-30 cm width and upto 1 metre in extent. Some bubbles in ice.

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TEST PIT LOG

TEST PIT No. 9050-A
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 16, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Trench excavated in existing (old) cat trench. Therefore trench is thawed. Material is frozen in fresh cut. Frozen material is very hard at head (North end) of trench, suggesting surrounding fresh mat'l also frozen. Cryoturbated ground patterns in thick moss additional evidence for permafrost. Ground frozen and hard under moss cover).	0 0.3 9050-A1 0.8 1 2		Surface Vegetation: Scrub birch & willow. Thick moss. Permafrost. 0-0.3m WELL GRADED, FINE GRAINED COLLUVIUM / ORGANIC TOPSOIL Light brown - tan, slightly firm gravelly, silty fine SAND with some organics (roots). Occasional zone comprises horizontal laminae / partings suggesting possible periods ice lensing or seasonal freeze - thaw. Partings 2 - 4 mm thick, 5 cm long, spaced 0.5 cm. → Surficial, well graded, fine grained colluvium / organic topsoil. 0.3-0.8m COLLUVIUM - Silty SAND & GRAVEL w/ OCC. PEAT LAYER Greyish brown (w/orange patches) silty SAND and GRAVEL with trace clay and fine organics. Gravel is fine - coarse, sub-angular up to 5 cm dia. comprising mod. weathered, hard granodiorite and mod. weathered (heavily iron oxidized) quartz monzonite fragments. Material is moist, very well graded, poorly sorted. Mat'l contains occasional, 5-10cm thick black, firm peat layers. → Colluvium - likely transported residual weathered sands and gravels (residual fragments) downslope with intermittent periods of vegetation (peat layers). 0.8-2m HW, RESIDUAL SANDY / GRAVELLY BROKEN BEDROCK (Q. MONZONITE). Orange - tan, heavily weathered (limonite stained) sandy to fine gravelly broken bedrock. Matrix comprises coarse granular sand & gravel (~20%) with quartz monzonite rock fragments (~80%)

(cont'd)...

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TEST PIT LOG

TEST PIT No. 9050-A
SHEET 2 of 2

OJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 16, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL ..(Cont'd)
Refusal at 2m in Q. MONZONITE Bedrock. Frozen sections of trench, hard, melting slowly. No excess visible ice. (. w v. fine ice crystals visible in fine grained residual soil at head of trench. Crs. colluv. and residual sandy rock frags. likely frozen but may excavate due to well drained (high perm.) nature of mat'l - i.e. no excess ice in crs. mat'l. F.gr. topsoil is frozen, hard w/ excess ice	2		Rock frags. are mod. hard (R2-R3), coarse blocky, iron oxidized throughout. Frags. approx. 3-5 cm dia. Mat'l is matrix supported, fines up to gravelly SAND at top of unit. 2m BLOCKY QUARTZ MONZONITE BEDROCK Blocky, crs. grained Quartz monzonite Bedrock. Mod. hard, SW.

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TEST PIT LOG

TEST PIT No. 9050 - F
SHEET 1 of 3

PROJECT CASINO
LOCATION OF TEST PIT EAST HALF
DATE AUG 17, 1993 50m long. at 077° BRG.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Trench frozen in fresh cut but fairly easy excavation w/ D7. * Matrix in colluvium saturated, unstable during thaw - mat'l flows into trench cut	0 Permafrost table. 0.7 1 1.7 2	Fault Gouge / Altered, weathered broken platy bedrock	Vegetation: Thick moss/lichen, approx. 20cm thick, covering thin layer of fine blocky talus. Also some scrub birch and willows (No trees). Typical vegetation along N. facing slopes in deposit area. 0 - 0.7m FROZEN COLLUVIUM * Mixture of altered, weak (R2), brittle, platy rock frags. (comprising approx. 60%), and grey fine sandy silt matrix (approx. 40%). Mat'l is frozen, med.-high saturation, matrix supported. Matrix flows (unstable) when thawing. 0.7 - 1.7m FAULT GOUGE / WEAK, ALTERED ROCK Alternating zones of: 1/ EW, gouge-like, loose, wet granular shear gouge comprising yellow/orange, soft (fault?) gouge of clayey silt and v. fine quartz frags. to 3mm dia. Mat'l is highly saturated, soft & frozen. Heavy alteration of feldspars to clay in matrix of rock. → Possible sub-vertical, N-S trending Fault zone. 2/ Altered & weathered, weak, brittle, platy granodiorite / quartz monzonite (?) bedrock. Rock is heavily fractured. Only qtz. survived alteration. Weak (R1), brittle rock. (cont'd)...

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TEST PIT LOG

TEST PIT No. 9050-B
SHEET 2 of 3

PROJECT CASINO
LOCATION OF TEST PIT EAST HALF (CONT'D)
DATE AUG. 17, 1993.

PROJECT No. 1631
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd) Fractures are limonite stained w/ clay coating (alteration), spaced 3-7cm. Frac. sfc. wet, likely from melting permafrost in overlying colluvium percolating through rock. Fracture measurement orientations: 1. 045/68 NW 2. 134/66 NE 3. 012/60 E Fractures typically rough, sub-planar to undulating, iron stained.

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TEST PIT LOG

TEST PIT No. 9050-3
SHEET 3 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT WEST HALF
GROUND ELEVATION
DATE AUG. 17, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Cat D7 dozer. Trench walls unstable when material thaws. Permafrost near surface under moss. Trench wall fairly stable in EW Fault (?) gouge-like material from 1.0-1.7m	0 Permafrost table 1 1.7 2	EW Fault gouge.	0-1.0m FROZEN (UNSTABLE) F. GRAINED COLLUVIUM Brown clayey silt w/ some sand and rock frags. Mat'l is frozen and very unstable - flows into cut when thaws. Buried organic (peat) layer 10-15 cm thick - suggests possible solifluction (soil creep) whereby fine grained colluvium was slowly transported downslope over organics. F. gr. colluvium is highly saturated. No excess, visible ice apparent. 1.0-1.7m SOFT, GRANULAR FAULT (?) GOUGE EW, soft, wet, yellow silty quartz frags. w/ some clay (gouge-like mat'l). Material is sticky (est. med.-high plasticity). Likely granular fault / shear gouge. Mat'l is fairly stable

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TEST PIT LOG

TEST PIT No. 9050-C
SHEET 1 of 8

PROJECT CASINO
LOCATION OF TEST PIT TOP OF PATTON HILL
DATE JUNE 21/93 CH. 0 m (WEST END)

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. easy digging in topsoil, residual sands and gravels, and HW, friable badly broken bedrock.	0		Vegetation: Thick moss & lichen. Some scrub willows and fine blocky talus.
			0-0.4m SANDY/SILTY ORGANIC TOPSOIL
			Greyish brown silty fi sand w/ some fine gravel. Occasional interbed of black sandy silt w/ organics (peaty layer). Mat'l is firm, moist. Trace v. fine organics throughout. V. thin (<1mm) horizontal partings suggests freeze-thaw (seasonal) frost action.
	0.4		0.4-1.0m RESIDUAL SAND & GRAVEL
			Orange, residual SAND & GRAVEL w/ trace - some silt. HW granodiorite. V. crs. grained granular texture. Mat'l is med. dense, HW, oxidized and crumbly.
	1	HW Weak, friable Bedrock	1.0-1.6m HW, FRIABLE, WEAK BEDROCK
			HW, fractured, friable, v. weak bedrock. Rock frags. up to 1cm dia., v. angular w/ trace white clay coating. Rock breaks easily in fingers. Fractures steeply dipping.
	1.6	Bottom	
	2		

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TEST PIT LOG

TEST PIT No. 9050-C
SHEET 2 of 8

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JUNE 21/93
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			BEDROCK - Descriptions and fracture/structure orientation measurements.
			CH. 2+50 m :
			Ferricrete lens, sub-vertical gouge zone comprising silty clay & fine sand. Extremely weathered zone. at 155°/58E
			CH. 2+50 - 10+50 m :
			HW, fine blocky, weak granodiorite bedrock w/ occasional gouge zone steeply dipping up to 20 cm thick.
			CH. 10+50 :
			Competent, mod. hard (R2-R3), MW, v. crs. blocky Granodiorite with well developed fracture sets at :
			Major 1. 130/69 NE - sub-planar, rough. spaced 0.2 - 0.5 m.
			Major 2. 037/89 S - Orthogonal to #1.
			Minor 3. 030/50 N - sub-planar, very rough.
			Minor 4. 101/70 N - Irregular, very rough.

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TEST PIT LOG

TEST PIT No. 9050-C
SHEET 3 of 8

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JUNE 21/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			CH. 10+50 – 27+40 m :
			Coarse blocky, Mod. weathered (limonite/hematite on rough, planar fracture surfaces), Granodiorite Bedrock. Well developed, orthogonal fractures.
			• CH. 20+00 m :
			Competent, crs. blocky Granodiorite. Prominent fracture sets at :
			1. 056/90 ; 150/90 (Vertical).
			• CH. 22+00 m :
			1. 020/80E
			2. 093/86 N.

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TEST PIT LOG

TEST PIT No. 4050-C
SHEET 4 of 8

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 21/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL

CH. 27+40 - 30+00 m :

Orange-red, HW residual silty fine SAND. Heavily iron stained (limonite/hematite), pervasive throughout.

- Sharp vertical contact w/ adjacent blocky granodiorite → (Shear/Fault zone ?).

CH. 30+00 - 45+00 m : (Soil Profile)

0 - 0.5 m WELL GRADED COLLUVIUM

Brown, silty fine sand and gravel w/ some cobbles & trace organics.
→ Colluvium.

0.5 - 1.8 m BLOCKY GRANODIORITE BEDROCK

MW, mod hard crs. grained Granodiorite Bedrock.

- Steeply dipping fractures trending approx. N-S & E-W dipping 80-90°.
Crs. blocky rock.

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TEST PIT LOG

TEST PIT No. 9050-C
SHEET 5 of 8

PROJECT CASINO.
LOCATION OF TEST PIT
DATE JUNE 21/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL

CH. 45+00 - 50+00 m :

Mixture of alternating MW, mod. hard, blocky Granodiorite rock; and orange, HW residual gravelly SAND w/ some silt and clay. Mat'l is loose, crumbly, well drained.

CH. 45 m :

Fault gouge — granular w/ some clay. Clay zone 5cm thick in centre at 030/70°E.

CH. 50+00 - 60+00 m :

HW, loose, crumbly Granodiorite sandy gravel, between crs. blocks of MW, hard blocky Granodiorite.

CH. 60+00 - 70+00 m :

Hard, fresh, crs. blocky Granodiorite Bedrock. Rock is competent, some fracturing but not likely continuous.

CH. 70+00 - 90+00 m :

HW, weak crumbly granodiorite zones w/ some MW, crs. blocky, hard granodiorite.

CH. 77m : Yellow, HW zone — 5cm thick Pyrite vein at 165/90 - gouge

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TEST PIT LOG

TEST PIT No. 9050-C
SHEET 6 of 8

PROJECT CASINO
LOCATION OF TEST PIT Ch. 90-115 m.
DATE June 21/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MOG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC V. easy digging in topsoil and residual soil.	0 0.3		Ch. 90+00 - 115+00 m: Increase zones of intense weathering. Abundant HW - pervasive limonite / hematite - crumbly, weak zones comprising silty residual SAND w/ some clay and gravel. Occasional block of granodiorite rock. Ch. 100 m: (Soil Profile) 0-0.3 m ORGANIC SILTY / SANDY TOPSOIL Fine sandy silt w/ organics and thin (5cm) peaty layers.
Mod. difficult digging in block bedrock at 0.75 m.	0.75	MW Blocky Granodiorite Bedrock	0.3-0.75 m RESIDUAL SILTY SAND HW, residual silty SAND w/ some fine angular gravel. Mat'l is loose and moist. 0.75-1.35 m MW, BLOCKY GRANODIORITE B/R MW, crs. grained Granodiorite bedrock. Well fractured. 10-20cm blocks. Fractures are rough, planar w/ limonite staining on sfc. Common.
	1 1.35 2		

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TEST PIT LOG

TEST PIT No. 9050-C
SHEET 7 of 8

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 21 / '3

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL

CH. 115+00 – 155+00 m:

Extremely weathered, residual sandy silt w/ clay & fn. gravel. over well fractured, HW, v. weak granodiorite bedrock. Fractures are steeply dipping, trend N-S & E-W.

CH. 115–120m:

Light yellow, soft gravelly (granular) clay, gouge-like, material → Shear zone approx. 1m thick at 050/75 N parallel to major fracture set. Orthogonal frac. set at 130/90 (vertical). Fractures spaced 10cm, planar, smooth-rough, continuous.

CH. 155–165m:

MW, well jointed, mod hard (R2-R3), crs. blocky Granodiorite. Well developed, planar fracture sets trending N-S, E-W, dip 80-90° (sub-vertical).

CH. 165-180m:

EW (limonite pervasive throughout), crumbly, loose residual silty sand w/ some clay. Likely alteration zone. Relict fractures apparent & steeply dipping.

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TEST PIT LOG

TEST PIT No. 9050-C
SHEET 8 of 8

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 180 - 200 m (EAST END)
GROUND ELEVATION
DATE JUNE 21/93.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			CH. 180 - 200 m : EW, lt. yellow, gouge-like mat'l comprising soft granular clay (wet) Could be regional shear zone (fault) or vein + alteration. Structure trends N-S, vertical. Occasional zones of HW, fine blocky rock. (quartz Monzonite?) Rock is heavily altered (feldspars → clay in matrix).

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TEST PIT LOG

TEST PIT No. 9051-A
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JUNE 27, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Existing (old) trench ∴ thawed. Easy digging in surficial colluvium. * Head of trench (N. end) frozen near surface.	0		0-0.5m ORGANICS (MOSS, SCRUB BIRCH) AND CRS. BLOCKY TALUS Very soft, saturated peat w/ some silt & roots; and fresh, v. hard, angular talus blocks of granodiorite up to 0.7m dia.
	0.5		0.5-2.0m COBBLY COLLUVIUM SUPPORTED BY SANDY/SILTY MATRIX. Brown matrix of moist silty SAND w/ trace fine gravel supporting small cobble to small boulder size fresh hard granodiorite rock frags. Granodiorite is crs. grained, equigranular, non-altered, SW on frac. surface w/ limonite. Cobble and boulder clasts range from few cm's to 0.5 m dia (well graded). Est. 30-40% rock; 60-70% matrix. Mat'l is poorly sorted, massive. Occasional interbed of dark grey clayey silt w/ trace sand & organics (approx. 10% of mat'l) - Est. mod. low permeability, med. saturation. - Fine matrix partially frozen at head of trench. Est. low excess ice content / low saturation.
	1		
	9051-A1 (non-frozen matrix only)		
Groundwater table at approx. 2m near colluv./rock contact.	2		

(cont'd)...

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TEST PIT LOG

TEST PIT No. 9051-A
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 27, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Very difficult digging in blocky, hard Granodiorite bedrock. Est. top 0.5m of weathered, fractured rock rippable.	2	SW Hard blocky	...(cont'd)
			2.0m SW, HARD, BLOCKY GRANODIORITE BEDROCK W/ HW SAND ZONES
			SW, hard, blocky Granodiorite bedrock. Occasional HW zone of weathered granodiorite comprising loose, soft moist silty sand. Granodiorite is heavily pyritized in places – pyrite pervasive and along healed veinlets. Max. estimated depth-of-weathering 0.5m below colluv. / b/r contact.
	2.3	Refusal	
	3		Fracture orientation measurements in Granodiorite Bedrock Major frac. set parallel to trench at: 1. 140/75NE Smooth, planar, continuous, MW (limonite on sfc.), wet. 2. 058/20NW Rough, sub-planar, wet, well developed, SW (limonite on frac.). 3. 038/85S Minor sub-vertical cross fractures, irregular, somewhat random, poorly developed. Rock blocks 10-20cm dia. orthogonal fracture pattern.

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TEST PIT LOG

TEST PIT No. 9051-B
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.2m TALUS & FROZEN, ORGANIC TOPSOIL
	Permafrost Table 0.2	ice lenses	Coarse blocky talus over frozen, hard, ice-rich, organic-rich colluvial peaty topsoil. (Permafrost near surface).
	1		0.2m Refusal

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TEST PIT LOG

TEST PIT No. 9051-C
SHEET 1 of 4

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT N. END
GROUND ELEVATION
DATE JULY 5, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench excavated on existing (old) cat line → trench not frozen. Easy digging in non-frozen, med. dense colluvium Approx. 20% of trench frozen. Permafrost near surface Estimate 10-20% excess ice Trench walls sloughing as ice melts. Difficult digging in MW, competent GRANODIORITE BEDROCK at 3.1m.	0 0.5 1 2 3 3.1 4	MW BROKEN GRANO-DIORITE Bottom	ORGANIC-RICH TOPSOIL WITH SILT Soft, dark brown peat, moss/willow roots and silt. Thick moss and arctic birch vegetation. 0.5-3.1 m WELL GRADED COLLUVIUM. Light brown, moist, medium dense colluvium comprising approx. 60% matrix of fine SAND and SILT with some fn. gravel supporting cobble clasts (40%). Clasts are angular, slightly weathered, hard fine grained granodiorite and vary from 5 to 10 cm dia. Deposit is massive, well graded, v. poorly sorted. Estimate low permeability, non-plastic material. Potential source of strong fill. Moisture content approx. 2% > optimum. Estimate 10% of clasts are >6" dia.; 90% between 5-10 cm. * Some zones frozen near surface, non-frozen at base → Suggests discontinuous, thin permafrost (est. 2 m thick) on south facing slope. Est. med.-high saturation Excess ice approx. 10-20% as v. thin randomly oriented lenses. 3.1-4.0 MW, BROKEN GRANODIORITE BEDROCK. Moderately weathered (iron stained), coarse blocky fine grained granodiorite. Rock is very well fractured to platy blocks approx. 5x10x10 cm. ... (cont'd)

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TEST PIT LOG

TEST PIT No. 9051-C
SHEET 2 of 4

PROJECT CASINO
LOCATION OF TEST PIT N. END
DATE JULY 5, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd) Fractures are sub-vertical, planar, rough and dry. Major sets at: 1. 104/86 N 2. 179/82 E Minor set at: 3. 010/32 W

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TEST PIT LOG

TEST PIT No. 9051-C
SHEET 3 of 4

PROJECT CASINO
LOCATION OF TEST PIT MIDDLE (25m SECTION)
DATE JULY 5, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in soft, EW residual clayey SILT. (non-frozen) Trench walls stable in non-frozen colluvium. Frozen sections sloughing in as ice melts.	0 0.5 1 2 3 3.1 4		ORGANIC-RICH TOPSOIL WITH SILT (same as N. End - see p.1). 0.5-3.1 WELL GRADED COLLUVIUM (same as N. End - see p.1. 3.1-4.0m EW, RESIDUAL CLAYEY SILT. Extremely weathered, light orange-buff, loose/soft clayey SILT with some v. fn. sand. Gouge-like sections comprising cream coloured granular gouge - 50% quartz fragments, 50% silty clay (sticky). Fault/shear gouge (?) ~10m section. Contact w/ MW, broken rock at 120/44 NE. Occasional broken granodiorite outcrop suggests possible shear or alteration zone which induced preferential weathering. Depth of weathering in EW clayey silt & fn. quartz frags. not known. Bottom.

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TEST PIT LOG

TEST PIT No. 9051-C
SHEET 4 of 4

PROJECT CASINO
LOCATION OF TEST PIT S. END
DATE JULY 5, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC S. End of trench cut in fresh, non-frozen colluvium adjacent to existing (old) cat line. Moderately easy digging in med. dense well graded COLLUVIUM Trench walls stable (near vertical) in moist COLLUVIUM. S. End of trench.	0 0.5 1 9051-C1 2 (non-frozen) 2.8 3 3.5 Bottom. 4		ORGANIC-RICH TOPSOIL WITH SILT (same as N. End - see p. 1). 0.5-2.8m WELL GRADED COLLUVIUM Greyish light brown, medium dense fine sandy SILT with some fine gravel, trace clay supporting angular coarse gravel and small cobbles (from 3-8cm dia.). Material is v. well graded and poorly sorted. Mat'l is moist (slightly drier than colluvium at N. end of trench). Estimate: 20% fines, 10% cobbles, 20% gravel, 50% well graded sand. Rare large cobble. Clasts comprise mod. weathered, mod. hard, competent fine grained granodiorite. Moisture content at approx. optimum. → Excellent potential source of low permeability, strong (dense) compated fill material. 2.8-3.5m RESIDUAL SAND / COLLUV. / ROCK. Orange (iron oxidation), loose med. SAND with some gravel, silt and broken rock fragments. Mod. weathered mixture of residual SAND and colluvium. Material is well graded, v. poorly sorted, only trace fines. Medium dense, mod. high permeability, well drained, non-frozen.

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TEST PIT LOG

TEST PIT No. 9052-A
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT TAILINGS DAM ACCESS RD
DATE JUNE 15, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Moderately easy excavation w/ D7 ripper cat. Dry trench. No ground ice. Granular materials. Good (s. granular construction materials.	0 0.5 0.9 9052-A1 1 2 2.35 3		0-0.5m MEDIUM GRAINED COLLUVIUM Light brown-tan SAND and GRAVEL w/ trace silt & organics. Dry, med. dense, poorly sorted. Clasts angular to 5cm dia. of competent granodiorite. 0.5-0.9m ALLUVIAL SANDY SILT. Orange-brown, soft - slightly firm v.f. sandy SILT. Very uniform. Stratified layers of alternating limonite/hematite staining. Occasional v. angular large gravel clast to 4cm dia. Horizontally bedded, uniform thickness along trench. Mat'l likely derived from alluvial re-working of underlying residual soil. 0.9-2.35m RESIDUAL COMPETENT SANDY GRAVEL. Orange-lt. brown (limonite stained) fine sandy GRAVEL w/ some small cobbles and trace silt. Massive deposit, no bedding. Med. dense, dry. Clasts are all very angular and elongate, hard, competent. Slightly weathered (limonite coating) but does not affect strength. Easy excavability. 1.9m GRAVEL w/ some sand → Gravel is comprised of broken blocky bedrock fragments aligned approx. N-S. perp. to trench strike. 2.35m HARD FRESH BROKEN BLOCKY BEDROCK. Hard, fresh, fine blocky granodiorite bedrock. Blocks elongate sub-parallel to jointing fractures (sheeting?) at approx. 044/60°NW. Spacing 2-5cm.
No penetration in blocky BEDROCK.			

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TEST PIT LOG

TEST PIT No. 9052-B
SHEET 1 of 1

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 26 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
• Excavated with Hitachi UH09LC Hoe			0.0 – 0.20m **ORGANICS** mosses, forest litter, abundant root mass.
	9052-B1		0.20 – 0.45m **SILT** Brown-grey, moist (at optimum) med. dense SILT with trace to some sand → TOPSOIL.
	0.5		
	1.0		0.45 – 2.50m **SAND AND GRAVEL (RESIDUAL)** Brown-tan, slightly moist (4-5% dry of optimum est'd) med. dense to dense SAND AND GRAVEL w tr. silt Grains are angular qtz and Feldspar coarsening downwards
	1.5		
	2.0		2.50m – 3.3m **GRANODIORITE** mod. broken to v. broken heavily weathered, coarse grained Hornblende-Biotite GRANODIORITE. Chlorite alteration of Hornblende and Biotite along joint surfaces. Limonite Staining throughout. Some breakdown of Feldspars to clays (Argillic Alteration).
	2.5		BROKEN coarse grained GRANO-DIORITE
	3.0		Joint orientations: 172/55 WEST 044/86 NORTH 175/26 WEST.
Base of Trench at 3.3m – NOT REFUSAL.	3.5		
	4.0		

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TEST PIT LOG

TEST PIT No. 7053-A
SHEET 1 of 2

PROJECT CASINO - S. END OF TRENCH
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JULY 1, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Existing (old) trench. V. easy digging in extremely weathered residual f.grained soil * Mod. difficult digging in frozen, f. gr. colluvium at head of trench. Difficult digging in HW, weak granodiorite bedrock. No ice present in rock.	0 0.5 1 2 3 4	HW WEAK BLOCKY GRANO.-DIORITE BEDROCK Bottom.	0-0.5m F.GR. COLLUVIUM/ALLUVIUM Grey-lt. brown clayey SILT w/ some v.f. sand, trace fn. organics (root frags.) interbedded with thin layers of black peat. Material is firm, moist. Occasional large sub-rounded cobble clast to 10cm dia. of fresh, hard granodiorite. * Mat'l is frozen at head of trench. No visible ice but mod.-high saturation. 0.5-1.1m HW, RESIDUAL SOIL 0.5-0.8m RESIDUAL SILTY SAND. Orange-tan (oxidized) silty SAND w/ some fine gravel. Mat'l is firm, v. moist weathered residual soil. Est. medium saturation, low permeability. 0.8-1.1m RESIDUAL SILTY SAND & FN. GRAVEL Orange-tan, loose, moist silty SAND & FINE GRAVEL. Mat'l is free-draining, HW granodiorite. Clasts are weak with heavy, pervasive iron oxidation throughout. Clasts cemented by iron oxides. 1.1-3.5m HW FINE BLOCKY, WEAK GRANODIORITE BEDROCK. Orange-red, heavily weathered, badly broken, heavily jointed granodiorite bedrock. Rock is fractured to 5cm pieces, is V. weak (hardness = R1) and heavily weathered with hematite staining on all fracture surfaces. Rock is friable - iron oxide staining pervasive → weakens rock. Joints well developed, smooth, planar, steeply dipping at: 1. 164/80W 3. 055/28SE 2. 048/56NW 4. 078/90.

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TEST PIT LOG

TEST PIT No. 9053-A
SHEET 2 of 2

PROJECT CASINO - N. END OF TRENCH
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JULY 1, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in EW, residual soils. Existing (old) trench - non-frozen.	0 1 2 3 4	Bottom	0-0.5m F.GR. COLLUVIUM / ALLUVIUM (same material as S. End of Trench). 0.5-2.0m EW, RESIDUAL SANDY SILT Yellow - lt. orange, extremely weathered, loose residual soil comprising sandy SILT with some clay and fine gravel. 2.0-3.5m EW GRANODIORITE - QUARTZ FRAGS. & CLAYEY MATRIX. Yellow - lt. orange, extremely weathered, friable, badly broken, crumbly, heavily altered Granodiorite bedrock. White angular rock frags. comprise competent quartz frags in white clayey matrix (Est. 50% frags : 50% matrix). Mat'l is very badly broken. Granular clay (gouge-like) zones abundant along trench wall. Clay is med. - highly plastic (sticky), v. soft and wet. Residual soils are loose to medium dense, v. moist to wet (high saturation). Estimate low permeability. WEATHERING: Minor shear / broken zones have apparently induced preferential weathering to white clays. The alteration of feldspars to clay in the granodiorite has likely induced accelerated weathering along weak zones.

Sample 9053-A1 from spoil pile adjacent to trench.

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TEST PIT LOG

TEST PIT No. 9053-B
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 19, 1993

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe Moderately easy digging in non-frozen colluvium. West end of trench excavated at old drilling, therefore mat'l not frozen. Fresh excavation at East end of trench encountered frozen mat'l. (permafrost) Groundwater table near contact between brown and black colluvium (in non-frozen part of trench). * Difficult digging in frozen colluvium at east end of trench.	0 0.5 9053-B1 1 (non-frozen) 1.3 9053-B2 2 (non-frozen) 2.6 3		~2 Moss and Arctic birch vegetation FINE GRAINED TOPSOIL w/ ORGANICS 0 - 0.5m Grey & orange-brown (oxidized) layers of silty CLAY with some quartz monzonite rock fragments to 5 cm dia. and organics (roots). Firm, moist - wet. BROWN COLLUVIUM w/ F.GR. MATRIX and ROCK 0.5 - 1.3m Brown (oxidized) fine sandy SILT and CLAY matrix supporting broken, hard blocky quartz monzonite rock fragments. Frags. are angular, hard to 5 cm dia. Moist matrix. Bimodal material → colluvium. Approx. 40% rock frags, 60% matrix. Med. dense. Some sulphides in matrix. Material is frozen at east end of trench (see below). 1.3 - 2.6m BLACK COLLUVIUM w/ F.GR. MATRIX and ROCK Same as above but matl is black with sulphide mineralization. Strong sulphurous odour. Black colour suggests possible reducing environment. Mat'l is wet (higher water content than brown colluvium F. grained clayey matrix is firm and slightly sticky. Estimate 50% rock frags. Rock frags. are pebble to cobble size. *FROZEN COLLUVIUM East half of trench frozen near surface (permafrost). Fine grained matrix is ice rich and hard (well bonded). Ice lenses up to 1 cm thick spaced 0.5 cm. Dk. grey, fibrous ice visible. Colluvium is very unstable during thawing due to melting ice (high water content). Est. excess ice comprised 30% by total volume of matrix. Excess ice present in both brown and black colluvium.

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TEST PIT LOG

TEST PIT No. 9053-C
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 21, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Relatively easy digging in non-frozen overburden. Trench excavated at old drill site ∴ mat'l is non-frozen. No signs of previous (melted) ice features in overburden. Dry Trench Sharp contact between glacial till and lacustrine silts. Can break rock w/ one easy blow by shovel pick.	0 0.1 0.35 0.65 0.9 9053-C1 1 (non-frozen) 1.25 9053-C2 (non-frozen) 1.75 2	MW, jointed	ORGANICS and MOSS 0.1-0.35m BROWN MED. GR. COLLUVIUM. Brown (oxidized) fine gravelly SAND with some silt. V. poorly sorted, moist, well graded, material. Clasts are weak, heavily weathered angular Quartz Monzonite. Est. mod. high permeability. 0.35-0.65m ORGANIC (PEAT) LAYER. Dark brown and black layers of organics (peat). Mat'l is firm, wet (saturated). Trace silt. → Buried organic layer. (likely caused by solifluction). 0.65-0.9m COLLUVIAL SAND & FINE GRAVEL. Brown (oxidized) silty SAND and FINE GRAVEL. Gravel is angular, derived from residual heavily weathered bedrock. Mat'l is matrix supported. Gravel is f. grained from 2mm - 2cm. Occasional pebble size clast of sub-angular Quartz Monzonite to 5cm. → Colluvium. 0.9-1.25m GREY, STIFF LACUSTRINE SILTS Light grey with brown interlayers of uniform stiff SILT w/ trace fine gravel. Mat'l is very well sorted, slightly moist and contains thin (few cm) interbeds of brown, silty sand and gravel (oxidized colluvium). Est. low plasticity mat'l, low permeability. (Cont'd)...

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TEST PIT LOG

TEST PIT No. 9053-C
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 21, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	2		...(Cont'd).
			1.25-1.75m MED. GR. GLACIAL TILL(?).
			Greyish light brown, v. dense silty SAND and GRAVEL. Mat'l is slightly moist (low moisture content). Gravel is sub-angular to sub-rounded from 2mm to 1cm dia. comprising hard, competent Granodiorite or felsic intrusive rock frags. Few small cobbles.
	2.3	Bottom.	(Competent clasts and absence of residual, weathered mat'l suggests glacial till deposit). well graded, poorly sorted material.
			1.75m MW, BLOCKY QTZ. MONZO. BEDROCK
	3		Yellow (gibbsite), moderately weathered, weak crs. blocky Quartz Monzonite (fine grained) Bedrock. Weak rock (hardness = R1-R2). Yellow (oxidation) staining prominent on. fracture surfaces and pervasive throughout rock. Likely alteration or weathering has decr. rock strength considerably.
			Well jointed rock with prominent sets at:
			1/ 067/40N Planar, smooth, v. well developed, continuous.
			2/ 040/90 Smooth, planar, well dev. 5cm spacing, continuous.
			3/ 158/62E Rough, planar.

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TEST PIT LOG

TEST PIT No. 9053-D
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 20, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Relatively easy digging in non-frozen mat'l at N. end of trench. Mat'l is non-frozen at N. end of trench due to existence of an old trench which has apparently resulted in thawing of permafrost. Material in middle and S. end is frozen and hard from surface. Trench walls spalling and slumping slowly due to thawing of ice-rich colluvium & residual sand. * Permafrost table near surface at S. end excavated in fresh ground.	0 0.9 9053-D1 1 (non-frozen) 1.8 9053-D2 2 2.5 3 3.2	HW weak crumbly GRANO-DIORITE Bedrock Bottom.	0-0.9m MINERAL TOPSOIL (SAND & SILT) WITH ORGANICS Organic-rich topsoil comprising orange-brown and grey f. SAND and SILT with some very fine gravel, trace clay. Well graded, moist materid. - Thick moss and arctic birch vegetation with occasional large fresh granodiorite boulder on surface. 0.9-1.8m SANDY/GRAVELLY COLLUVIUM Greyish brown gravelly fine-med. SAND w/ some large pebbles and trace silt/clay. Dense, moist (in thawed mat'l). Poorly sorted, mod. well graded. Clasts very angular, limonite stained granodiorite/quartz monzonite frags. ranging from few mm to 5cm dia. (Brown, well graded, massive COLLUVIUM). * Colluvium is ice-rich in permafrost at S. end of trench. Visible (excess) ice present as continuous thin (1-2cm) v. hard ice lenses. Est. 50% ice by volume. 1.8-2.5m RESIDUAL GRAVELLY SANDS. Orange (limonite), moist, med. dense fine gravelly SAND with trace silt. Sand is well graded. Residual, weathered mat'l derived from in-situ weathering of granodiorite bedrock. Crs. granular texture. Particles weak. *2.3m (P.F. Table) N. end of trench hit v. hard FROZEN residual SAND. Visible ice present as fine-crs. randomly distributed intersticial ice crystals. Est. med. saturation. Can only chip w/ shovel. (Old trench may have induced melting down to 2.3m since P.F. Table at surface to the south).

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TEST PIT LOG

TEST PIT No. 9053-D
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 20, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			(Cont'd)
			Residual sands frozen at S. end of trench. Less excess ice than colluvium. Ice lensing less prominent. Est. excess ice approx. 20% by volume.
			2.5m WEATHERED GRANODIORITE BEDROCK.
			Heavily weathered, weak, crs. blocky granodiorite. Est. hardness R0-R1, v. well fractured. Crumbles in hands to crs. sand & fine gravel fragments. Occasional shear/fault (?) gouge zone comprising limonite/hematite weathered clayey silt and pulverized granodiorite frags.
			→ Prominent fractures at:
			1. 060/80°S - Continuous, rough, hem. stained, sub-planar 10cm spacing.
			2. 168/70 N As above.
			3. 050/44 SE As above.
			4. 047/42 N As above.

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TEST PIT LOG

TEST PIT No. 9053-E
SHEET 1 of 4

PROJECT CASINO - EAST (50m) SECTION.
OCATION OF TEST PIT
DATE JUNE 26, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.4 F.GR. COLLUVIUM & BROKEN, WTHRD ROCK.* Brownish-green and lt. yellow (mottled) mixture of colluvium and heavily weathered rock frags. comprising approx. 50% silty SAND and GRAVEL matrix supporting 50% heavily weathered, weak angular lt. yellow rock frags. Trace organics. Colluvium is loose, v. poorly sorted, massive. * Surficial mat'l comprises thin moss cover over loose, fine blocky angular talus to 10 cm dia.
	0.4	HW-EW Friable weak ROCK. Clay alteration pervasive throughout rock.	0.4-2.2 HW-EW & ALTERED, WEAK ROCK. Heavily to extremely weathered / altered, v. weak friable rock. Rock mass v. well jointed comprising fine blocky frags. to 10cm. Fractures are characteristically smooth-rough, planar, continuous, closely spaced (5-15 cm) and dip steeply to the north between 60-80°. Rock comprises approx. 50% crs. gr. quartz and 50% buff/yellow iron oxides (Jarosite) and clay (formed by alteration of feldspars). *Alteration has significantly reduced the intact rock strength to R0-R1 - can break easily w/ hands, and is pervasive throughout rock. Trace clay coating common on fracture surfaces due to presence of clay in matrix. Also limonite / hematite staining due to groundwater oxidation. Felsic rock → likely altered Granodiorite.
	1		
	2		
	2.2	Bottom.	
	3		

KNIGHT AND PIESOLD LTD.
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TEST PIT LOG

TEST PIT No. 9053-E
SHEET 2 of 4

PROJECT CASINO - WEST (50m) SECTION.
LOCATION OF TEST PIT
DATE JUNE 26, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in non-frozen overburden. Trench walls continually sloughing in due to high surface and groundwater inflows. Walls ( ) unstable. (Creek in draw flowing into trench). Trench FROZEN at far West end - backhoe could not dig → Refusal.	0 0.4 1 9053-E1 (non-frozen) 1.7 9053-E2 2 (non-frozen) 2.3 3	Bottom.	0-0.4m TOPSOIL - CLAYEY SILT w/ ORGANICS. Greyish brown clayey silt w/ some f. sand and organics. Also thin (5 cm) occ. black organic (peat) layer. 0.4-1.7m RED-BROWN (OXIDIZED) F. GR. COLLUVIUM. Reddish brown, moist - wet gravelly SAND and SILT w/ some small cobbles & trace clay. Mat'l is Heavily weathered & oxidized with pervasive iron oxide (limonite / hematite) throughout. Occ. v. thin (2 cm) layer of grey silty clay. Material is massive, v. poorly sorted, v. well graded. Clasts are mod. - heavily wthrd, angular up to 10 cm dia. Mat'l is dense. 1.7-2.3m GREY FINE SAND & GRAVEL (TILL-LIKE). Brownish - grey silty FINE SAND & FINE GRAVEL, trace - some small cobbles, no clay. Mat'l is moist - wet, very well graded, v. poorly sorted. Mat'l is similar to overlying colluvium but not oxidized. (Till-like mat'l).

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TEST PIT LOG

TEST PIT No. 9053-E
SHEET 3 of 4

OJECT CASINO
LOCATION OF TEST PIT
DATE June 26, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench wall defined by joint set 1. dipping steeply to (e north. *(possible bench slope angle)			Fracture Measurements : CH.(m) FRAC. ORIENTATIONS GEOTECH. CHARAC. 3+00m 1. 066/72 N Rough, planar 3-5cm sp., HW 2. 128/65 NE Sm. pl. tr. clay 5cm sp. 2. 122/51 NE -"- Conjugate Jt. set [3a. 178/80 E A/A 5-10cm spacing 3b. 134/68 W - 25 Fractures/m. 5+00 - 6+00m 1. 095/58 N, 1. 104/56 N, 1. 061/84 N } Rough, sub-planar, continuous, tr. clay coating (alteration on sfc.) 5-10cm spacing. 2. 022/85 E A/A. 3. 057/22 S Sub-horiz. poorly dev. rough, planar 8+00m 1. 080/48 N. Rough, planar, granular clay on sfc. A/A. Continuous (>1.0m) 10-20 cm spacing. 2. 165/76 E Smooth, planar, tr. clay film, contin. 10+00m 1. 072/82 N Rough, planar cont., A/A, well dev. 2. 176/86 E well dev. 3. 070/36 S Poorly dev., v. rough, undulating, tr. clay, 10-20cm spacing. 13+00m 1. 101/52 N Rough, planar, cont. 2. 020/90 A/A 3. 110/76 S smooth, planar, cont. 5-10cm sp. 4. 103/30 N -"- 3-5cm sp. 17+00m 1. 080/60 N Rough sub-planar 10cm sp. 2. 008/80 E Planar, continuous. 10cm sp. 3. 082/56 N 4. 008/67 W (cont'd)...

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TEST PIT LOG

TEST PIT No. 9053-E
SHEET 4 of 4

OJECT CASINO
LOCATION OF TEST PIT
DATE June 26/1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0		... (cont'd).

CH.(m) FRAC. ORIENTATIONS GEOTECH. CHARAC.

21+00m 1. 063/63N
1. 087/5?N
4. 010/84W.

24+00-26+50m White, loose granular gouge material with some clay. Extremely wthrd, crumbly. → EW or extremely altered.

26+50-36+00m Broken, blocky, yellow altered quartz monzonite / intr. breccia (?).

Bedrock more competent than heavily altered rock from CH. 0-26+50m. Blocks 10-20cm, very angular, mod. hard (R2), mod. weathered / altered. Limonite / hematite stain common on frac. surfaces.

32+00m 1. 083/60N Sub-planar 10-20cm spacing, continuous. Trace clay on frac. stc., dry (no groundwater).
2. 031/?0
3. 059/10N Sub-horiz. 10-15cm spacing.

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TEST PIT LOG

TEST PIT No. 9055-A
SHEET 1 of 1

PROJECT Casino
LOCATION OF TEST PIT
DATE July 29 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• Excavated with Hitachi UH09LC Hoe • Trench Strikes 068° head to tail • Trench Approx 60m long. • Covering vegetation: stunted black spruce and willow • Very difficult digging below permafrost horizon Refusal at 2.0m depth in frozen ground.	0.0 0.5 PERMAFROST HORIZON 1.0 1.5 2.0	E.O.P	0.0-0.2m • ORGANICS - mosses, grasses and abundant root mass. 0.2-2.0m • INTERLAYERED SANDY GRAVELS, CLAYEY SILTS AND PEATS (i) SANDY GRAVELS - orange brown, well sorted poorly graded, angular clasts of quartz and feldspar. Above permafrost horizon: loose and saturated deposits; Below permafrost well bonded, hard with excess interstitial ice. Thaw stable. (ii) CLAYEY SILTS - Blue-grey clayey silts with trace to some sand and (vis. est) 20-30% organics. Above permafrost table: loose and saturated deposits Below permafrost table: hard, well bonded with visible ice veining and lensing ICE: typically clear with bubbles, 6-10cm in thickness. Estimate minimum 40% of horizon below p.f. table is ice. Thaw unstable. (iii) PEATS - Rich chocolate brown, fine organics, spongy with trace to some silt and clay.

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TEST PIT LOG

TEST PIT No. 7055-E
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JULY 27, 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METERS)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• EXCAVATED BY HITACHI UH09LC HOE • TRENCH LENGTH: • TRENCH STRIKE: 350°	0.0		0.0 - 0.15m ORGANICS: mosses, forest litter and abundant root mass.
	0.5		0.15 - 0.30m sandy gravelly SILT with trace to some clay, moist (at or slightly above optimum), medium dense material with occasional cobble sized sub angular -4" (typ) CLASTS. → COLLUVIAL TOPSOIL
	1.0		0.30 - 0.80m Grey silty SAND AND GRAVEL, loose to medium dense, moist matrix with sub-angular and angular limonite stained granodiorite clasts (typ. +2" TO -8" DIA.). → COLLUVIUM
	1.5		
	2.0		0.80 - 2.40m Iron oxide stained (orange brown) RESIDUAL SAND AND GRAVEL w. trace to some silt. Medium dense, moist (over optimum), coarsening downwards. SAND AND GRAVEL grains are hard angular unweathered quartz and feldspar.
	2.5		2.40 - 3.40m Hornblende - Biotite GRANODIORITE: Limonite stained, blocky, angular, moderately broken to slightly broken, coarse grained hard GRANODIORITE. In some areas the rock is extremely weathered, chlorite altered, weak and friable to the base of the trench → almost RESIDUAL SAND AND GRAVEL.
	3.0		
• REFUSAL/ FULL BOOM AT 3.4 m DEPTH.	3.5		JOINTS: smooth and planar with minor calcite infillings; orientations APPROX: 136°/77°S, 235°/73 SE, 219°/12° W-NW.
	4.0		

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TEST PIT LOG

TEST PIT No. 9056-A
SHEET 1 of 3

PROJECT CASINO - CH. 0 - 10m FROM N. END.
LOCATION OF TEST PIT
DATE JUNE 17, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Hard digging in frozen colluvium. very hard d ging in frozen res. sandy mat'l Well bonded fine ice crystals. No ice lensing but very hard. Tooth marks of hoe bucket. Bedrock at 1.4m.	0 0.6 1 1.4 2 3		0-0.6m FINE GRAINED SILTY COLLUVIUM Dark brown fine sandy SILT with some fine gravel and trace organics (fine roots). Mod. well graded, dense. Mat'l contains orange fragments of limonite stained, mod. weathered, weak granodiorite bedrock fragments. No visible ice but evidence of previous (thawed) ice as v. thin partings 1-2 mm thick at spacing 3-5 mm in silty zone. Some areas frozen, poorly bonded, no excess ice visible. Est. low saturation. Material is cold. Stable when thawed (likely due to low in-situ water content). 0.6-1.4m RESIDUAL SILTY FINE SANDS. Orange-brown residual silty FINE SAND with some fine angular gravel. Residual, iron stained weathered in-situ soil. Material is frozen and hard. Few large ice crystals and blebs 1 cm dia. visible. Est. low (<10%) ice by vol. as fine disseminated ice. Mat'l thaws to soft, low strength saturated sands. Thin layers sloughing along trench walls. 1.4m BEDROCK

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TEST PIT LOG

TEST PIT No. 9056-A
SHEET 2 of 3

PROJECT CASINO - CH. 10-30 m. FROM N. END
LOCATION OF TEST PIT
DATE JUNE 17, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m).	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in non-frozen f.gr. colluvium Stable trench walls in non-frozen colluvium. V. easy excavation in dry, loose residual SANDS. (non-frozen). Mod. easy digging in heavily weathered and fractured bedrock at approx. 2.5 m depth. Depth to competent bedrock not known.	0 0.8 9056-A1 1 Relict jointing (iron stained). 2 2.5 3		0.1 Thick moss vegetation and scrub willows. 0.1-0.8m FINE GRAINED SANDY COLLUVIUM Brown, soft-firm, slightly moist silty FINE SAND with some fine gravel. [0.1-0.4 Sandy silt with organics & peat] Mat'l is non-frozen and stable. 0.8-2.5m RESIDUAL CRS. SAND. White-cream coloured, medium dense, dry coarse granular (sugary texture) residual SAND. Mat'l derived from in-situ weathering of crs. gr. granodiorite bedrock. Iron stained high angle relict jointing throughout (secondary groundwater oxidation). at approx. Strike 080° (E-W), Dip 60-80° S. Mat'l coarsens with depth to v. crs. sand & fine gravel size weak particles w/ in-situ weathered clay coating on particles. Crumbly, loose mat'l. Low water content → suggests free draining mat'l. NON-FROZEN. Bedrock outcrop at 2m depth at CH. 25m. Well developed jointed, heavily weathered (limonite/hematite) stained throughout rock → very weak 2.5m GRANODIORITE BEDROCK. Fractures are continuous, planar, rough, steeply dipping at: ① 124/65 SW. 5cm spacing sub-planar rough. ② 035/80 SE 10-15 cm spacing (est.) sub-planar, undulating, rough. ③ 160/43 W Est. 1m spacing, irregular v. rough.

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TEST PIT LOG

TEST PIT No. 9056-A
SHEET 3 of 3

PROJECT CASINO - CH 30-50 m (END)
LOCATION OF TEST PIT
DATE JUNE 17, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very hard digging in frozen mat'l. Colluvium & residual materials unstable during thaw due to high degree of saturation Trench walls caving and flowing in as ice-rich mat'l melts.	0 0.5 9056-A2 (frozen) 1 1.1 2 3	Bottom (refusal)	0.1 Mosses and scrub willows. 0.1-0.5m FINE GRAINED FROZEN COLLUVIUM. Brown sandy SILT and FINE GRAVEL. Frozen ice lenses abundant approx. 2-5mm thick at 0.5 cm spacing. Occ. lense to 3 cm thick. Dk. grey-clear hard, well bonded ice. Est. 20% excess ice by volume. Est. med. saturation. 0.5-1.1m RESIDUAL FINE GRAVELLY SAND. very hard, lt. tan - cream residual v. fine gravelly SAND with some silt. Mat'l is frozen and hard due to well bonded excess ice present as fine crystals and thin ice lenses. (Est. high saturation).

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TEST PIT LOG

TEST PIT No. 9056-C
SHEET 1 of 3

PROJECT CASINO - N. END OF TRENCH
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JUNE 30, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Mod. easy digging in colluvium	0		0.1 Surface: Moss, grass and willow vegetation.
	9056-C1		0.1-1.3m SANDY COLLUVIUM w/ COBBLES. Brown, moist to wet, med. dense cobbly colluvium comprising sub-rounded large gravel and small cobble clasts supported in a matrix of firm silty SAND with some v.fn. gravel, trace clay. Clasts are MW, mod. hard granodiorite and comprise approx. 30-40% of colluvium. Matrix is moist-wet, slightly sticky (low plasticity). Mat'l is well graded, poorly sorted.
Approximate location of Permafrost table.	1		
	(non-frozen)		1.3
Moderately difficult digging in frozen residual materials. Walls unstable as permafrost melts. walls slowly caving in as ice melts & walls become saturated. FROZEN mat'l is mod. hard, highly saturated.	1.7		1.3-1.7 EW RESIDUAL SILTY CLAY Orange-buff, extremely weathered residual silty CLAY with some fn. sand. Mat'l is firm, gouge-like and sticky (FAULT?)
	2.3		1.7-2.3 HW & ALTERED, CRUMBLY GRANODIORITE Orange-grey (oxidized) fine gravelly SAND with some silt and clay. Mat'l is heavily weathered and crumbly Granodiorite bedrock. Clasts are v. angular, hard, weakly altered, ~0.5 cm dia. → HW residual granodiorite weathered to crs. gr. granular, wet material.
	(Bottom)		1.3-2.3 FROZEN, WTHRD MATERIAL HW-EW residual mat'l is frozen. Ice is visible as fine crystals & coatings on particles. (Est 10% excess ice by volume). Mat'l is highly saturated. Ice is poorly bonded.
	3		
	4		

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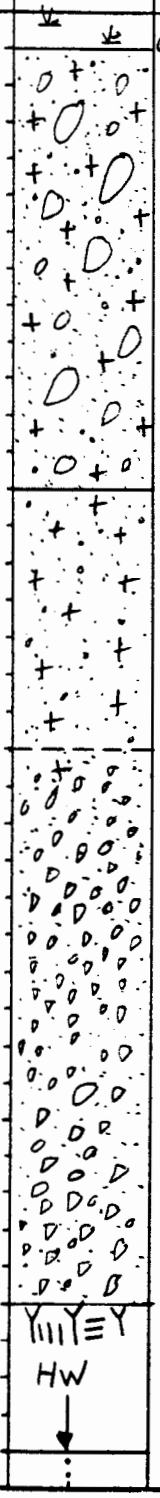
TEST PIT LOG

TEST PIT No. 9056-C
SHEET 2 of 3

PROJECT CASINO - S. END OF TRENCH
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JUNE 30, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Moderately easy digging in colluvium (non-frozen) Mod. difficult digging in HW residual sandy bedrock fragments. (frozen). Residual mat'l frozen, moderately hard, highly saturated. Difficult digging w/ hoe but est. easily rippable.	0 1 Permafrost table 1.3 2 3 3.5 4		0.1 Surface: Moss, grass and willow vegetation 0.1-1.3m SANDY COLLUVIUM w/ COBBLES. (Same description as N. end of trench - see p. 1 of 2) 1.3-3.5 m HW, RESIDUAL SANDY FN. GRAVEL Red, heavily weathered sandy fine GRAVEL w/ trace silt. Material is crumbly, weak and heavily oxidized (limonite - hematite) throughout. Mat'l coarsens down to HW fine blocky v. weak Granodiorite. Fining up to fine grained residual soil 1.3-2.0 Silty SAND with some fn. gravel, trace clay. (Material is derived from heavy in-situ weathering of granodiorite bedrock. Coarsening down suggests decr. weathering with depth). Gravel (bedrock frags.) are heavily oxidized and weak. +Material frozen - visible ice approx. 10% present as randomly oriented ice crystals and particle coatings. Ice poorly bonded. 3.5-3.9 m HW, FINE BLOCKY GRANODIORITE Heavily weathered, weak fine blocky Granodiorite bedrock. 3.9 Bottom of Trench.

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TEST PIT LOG

TEST PIT No. 9056 - C
SHEET 3 of 3

PROJECT CASINO - MIDDLE OF TRENCH
LOCATION OF TEST PIT
DATE JUNE 30, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			North and South ends of trench separated by a buff coloured FAULT/SHEAR zone. Mat'l is gouge-like comprising silty CLAY w/ some fine rock frags. Zone approx. 10m wide at 050/60°S Gouge-like material is frozen and very wet when thawed – estimate high saturation (high in-situ moisture content). Undulating, sharp contact with HW, iron stained, weak and wet residual silty sand w/ some fine gravel (HW granodiorite) to the south.

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TEST PIT LOG

TEST PIT No. 9057-A
SHEET 1 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 0-10m (West End).
DATE AUG. 1, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface Vegetation: Abundant thin aspen and birch trees with occasional spruce. Very thin moss (5-10cm) cover. No permafrost. Overburden materials well drained and slightly moist.
	0.4	SW-MW	0-0.4m ORGANIC F. GR. TOPSOIL Light brown, moist, soft clayey SILT and gravel with some very fine sand. Trace fine root fragments
Moderately easy digging in badly broken granodiorite rock fragments.	1		0.4-2.1m BROKEN, GRANODIORITE ROCK Loose, broken granodiorite rock fragments. Frags. are slight to moderately weathered, mod. hard (R2), iron stained med. grained granodiorite. Size range from 5-15 cm dia., very angular. Minor chlorite alteration. Material grades down to larger, more competent broken rock fragments with depth. Range from 15-30 cm at bottom of trench. Hard, SW (R3-R4) granodiorite at 2m.
(nch dry, walls stable, no permafrost		SW	
Difficult digging at 2m depth. (estimate easily rippable with heavy equipment).	2		
	2.1	Refusal (bottom)	2.1m Refusal in slightly broken granodiorite Rock.
	3		

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TEST PIT LOG

TEST PIT No. 9057-A
SHEET 2 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 10-40 m*
DATE AUG. 1, 1993

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy digging in residual silty sand & gravel from 0 - 1.5m Trench dry, walls stable, no permafrost. Moderately difficult digging in coarse residual gravels at 1.5 m. Difficult digging at 2m.	0 0.1 0.4 9057-A2 1 1.5 2 2.2 3	Broken rock.	0-0.1m ORGANIC TOPSOIL, As Above (see p. 1). 0.1-0.4m RESIDUAL SILTY SAND Light orange-brown, moist, med. dense silty SAND with some v. fine gravel. Trace fine root frags. → Fine grained residual, heavily weathered granodiorite SAND. Material is well sorted (reworked), (est. at approx. optimum moisture content). 0.4-2.2m RESIDUAL GRAVELS/SANDS 0.4-1.5m Sandy fine-med. gravel (0.5-2cm dia.) supported in coarse sand matrix. Mat'l is med. dense, dry. 1.5-2.2m Coarse gravel (broken granodiorite rock frags.) with some coarse sand matrix. Mat'l is clast supported, very well drained. Clasts are very angular, range from 1-5cm dia., mod. hard (R2-R3), MW (iron stained). Broken, crs. blocky SW granodiorite bedrock at 2.2m. Refusal 2.2m Refusal in broken BEDROCK. *Note: Approx. 30% of trench from CH. 10-40m comprises dry, loose to med. dense residual SANDS with some fine gravel from 0-2m → Sample 9057-A2.

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TEST PIT LOG

TEST PIT No. 9057-A
SHEET 3 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 40-55m
DATE AUG. 1, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in residual SANDS from 0-2.2m. Trench is dry, walls stable. Free draining residual materials.	0 0.4 9057-A1 1 2		0-0.1m ORGANIC TOPSOIL, As Above (see p. 1, 2). 0.1-0.4m RESIDUAL SILTY SAND (see p. 2). 0.4-2.2m RESIDUAL SAND, some SILT, GRAVEL Orange-light brown residual SAND with some silt, very fine gravel, trace clay. Mat'l is dry, very uniform (massive), slightly moist (at approx. optimum moisture content), moderately well graded. Clasts are mod. hard, v. angular. Occ. clast up to 5cm dia. Note: Material is representative of all residual sands along trench (approx. 40% of trench). Remaining 60% comprises broken SW-MW, weak, broken, blocky granodiorite bedrock fragments.
Difficult digging at 2.2m. (Refusal w/ hoe bucket but likely rippable another 2m)	Refusal 2.2 3	HW, broken GRANODIORITE BEDROCK	2.2m BROKEN, HW, WEAK GRANODIORITE ROCK Broken, friable, heavily weathered (HW), weak Granodiorite Bedrock. Hardness R1-R2. Limonite stain pervasive throughout rock → weakens rock. Medium grained rock.

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TEST PIT LOG

TEST PIT No. 9057-A
SHEET 4 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 55-85m
DATE AUG. 1, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0.1 0-0.1m ORGANIC TOPSOIL, As Above (see p. 1, 2, 3).
Moderately easy digging down to 2m depth	0.5		0.1-0.5m RESIDUAL GRAVELLY SILT, some SAND. Light brown gravelly SILT with some fine sand and trace clay + fine organics. → Residual weathered f. grained soil w/ trace organics. Material is moist, med. dense. (Est. low permeability, strong compacted fill).
Dry trench broken rock mat'l is (1, free draining.	1		0.5-1.9m BROKEN, MW GRANODIORITE ROCK FRAGS. Broken Granodiorite rock fragments with some silty fine sand w/ some fine gravel matrix. Matrix comprises approx. 10-20%. Material is massive, clast supported. Rock frags. vary from 3-10cm dia. and increase in size with depth to 10-15cm dia. Rock comprises mod. weathered (MW), mod. hard (R2-R3), medium grained granodiorite. Limonite common on fracture surfaces.
	1.9		1.9m BROKEN GRANODIORITE BEDROCK
Difficult digging - refusal at 2m (estimate rippable additional 2m).	2		
	3		

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TEST PIT LOG

TEST PIT No. 9057-A
SHEET 5 of 5

OJECT CASINO
LOCATION OF TEST PIT CH. 85-100 (East End)
DATE AUG. 1, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in loose residual sandy mat'ls. from 0 - 2 m.	0 0.5 9057-A3 1 1.2 9057-A4 2 2.4 3	0.1 MW Refusal (bottom)	0-0.1m ORGANIC TOPSOIL, As Above. (see p. 1, 2, 3, 4) 0.1-0.5m RESIDUAL GRAVELLY SILT, some SAND. (see p. 4). 0.5-2.0m RESIDUAL, WEATHERED SANDS. 0.5-1.2m Re-worked (alluvial) residual stratified, loose, very uniform silty fine-med. grained SAND. Mat'l is moist (approx. optimum moisture content). 1.2-2.0m In-situ residual massive loose fine gravelly SAND with trace silt. Residual materials fine upwards. suggesting mat'l derived from in-situ weathering of granodiorite rock (weathering profile). 2.0-2.4m BROKEN, BLOCKY, MW GRANODIORITE ROCK Broken granodiorite bedrock. Rock is mod. hard (R2), blocky, broken, MW. Iron staining common on fracture surfaces. 2.4m Refusal in BROKEN GRANODIORITE BEDROCK.
Moderately difficult digging from 2-2.4m.			

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TEST PIT LOG

TEST PIT No. 9057-3
SHEET 1 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0-20m (W. END)
GROUND ELEVATION
DATE AUG. 13, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench is dry, non-frozen. walls stable. Easy digging in topsoil & residual sand.	0 9057-B1 0.3 0.6		Vegetation: Abundant spruce, some birch, aspen and tall willows. 0-0.3m WELL GRADED, F.GR. COLLUVIAL TOPSOIL Brown, soft clayey SILT w/ some sand and fine gravel. Occasional small cobble. Mat'l is moist (slightly > optimum moisture), v. well graded. Est. low plasticity. Contains trace roots throughout. 0.3-0.6m HW, RESIDUAL SILTY SAND, some CLAY (RESIDUAL SOIL) Orange-tan, uniform, loose silty SAND w/ some clay → F.grained residual soil → Good, low permeability, dense compacted core zone type fill. At ~opt. m/c. (unit pinches out to the east at CH. 5m)
Moderately easy digging in broken rock w/ residual matrix from 0.6-2.2m. (estimate bladeable w/ heavy equipment to 2m). → potential random fill (shell zone) material.	1 2	MW SW	0.6-2.2m BADLY BROKEN, MW GRANODIORITE FRAGS. w/ RESIDUAL SANDY GRAVEL Yellow-tan, MW, badly broken granodiorite rock. Mat'l is loose, crumbly comprises approx. 10-20% residual sandy fine gravel; 80-90% broken, angular, fn.-med. blocky, weak (R1-R2) granodiorite rock frags. Rock ranges from 3-10 cm dia., coarsens w/ depth to slightly broken granodiorite. (5-15 cm dia.). Mat'l is well drained.
Refusal at 2.5m in broken Granodiorite	2.2 2.5	SW Broken Granodiorite	2.2-2.5m BROKEN GRANODIORITE BEDROCK. Broken granodiorite bedrock. SW, mod. hard (R3-R4), crs. blocky, 10-20cm.

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TEST PIT LOG

TEST PIT No. 9057-B
SHEET 2 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 20-30 m
DATE AUG. 13, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.5m WELL GRADED, F. GR. COLLUVIAL TOPSOIL. (As above, see p. 1).
	0.5		0.5-1.4m BADLY BROKEN, MW GRANODIORITE ROCK FRAGS. W/ RESIDUAL SANDY GRAVEL MATRIX. (As Above, see p. 1 0.6-2.2m).
	1		
	1.4	SW Broken, Blocky Grano-diorite	1.4-1.7m BROKEN GRANODIORITE BEDROCK. Broken, mod. hard, SW (pervasive limonite throughout), blocky granodiorite.
	1.7		Refusal at 1.7m.
	2		

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TEST PIT LOG

TEST PIT No. 9057-G
SHEET 3 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 30-36 m.
GROUND ELEVATION
DATE AUG. 13, 1993.
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC.	0		0-0.3m WELL GRADED, F.GR. COLLUVIAL TOPSOIL (As Above, see p. 1).
	0.3		0.3-0.7m RESIDUAL SAND w/ SILT. Orange, loose, dry to slightly moist residual fn.-med. SAND w/ some silt. Material is v. uniform.
Very easy digging in residual, loose sandy materials.	0.7		0.7-1.5m GRANODIORITE SAND *
	Relict jointing (oxidized)		Mottled black & white, med. dense, med.-crs. SAND w/ brown (oxidized) relict joint bands up to 1cm thick. Coarse granular ("sugary") texture, competent, ang. grains → granodiorite sand. (dry). (decrease weathering w/ depth).
	1		* CH. 30-33m: • Trench bottoms in residual sand. CH. 33-36m: • Broken, blocky, SW granodiorite rock at bottom (1.5m).
	1.5		→ See * above
	2		

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TEST PIT LOG

TEST PIT No. 9057-13
SHEET 4 of 5

PROJECT CASINO.
PROJECT No. 1831
LOCATION OF TEST PIT CH. 36-53m
1. CH. 59-63m.
2. CH. 74-80m.
GROUND ELEVATION
DATE AUG. 13, 1993.
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		(LE. END).
			0-0.3m WELL GRADED, F. GR. COLLUVIAL TOPSOIL
			(As Above, see p. 1).
	0.3		0.3-1.8m RESIDUAL GRANODIORITE SAND
Very easy excavation in loose, dry residual granodiorite sands from 0.3-1.8m.	9057-BZ CH. 50m		Loose residual silty SAND grading down to med. dense, crs. SAND at base. White and black coloured ("salt and pepper") granodiorite sand. Some limonite stained relict joints in sand. (heavy in-situ weathering of once competent, fresh crs. gr. granodiorite rock → likely mechanical weathering w/ little alteration or chemical weathering / decomposition). → Good potential source of dense compacted earthfill.
	1		
	1.8	HW Friable Grano.	1.8m HW, WEAK GRANODIORITE BEDROCK.
	2		HW, broken, friable, v. weak, crumbly Granodiorite Bedrock.

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TEST PIT LOG

TEST PIT No. 9057-B
SHEET 5 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 53-59 m
2. CH. 63-74 m.
GROUND ELEVATION
DATE AUG. 13, 1993
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.4m WELL GRADED, F. GR. COLLUVIUM + TOPSOIL. Brown clayey SILT w/ some sand and gravel, trace organics, ML/I is soft to firm, v. moist.
	0.4		0.4-1.7m BADLY BROKEN, MW GRANODIORITE ROCK FRAGS. w/ RESIDUAL GRAVELLY SAND MATRIX. (As Above, see p. 1).
	1		9057-B: Trench is characterized by alternating zones of broken, mod. hard granodiorite rock frags.; and uniform, HW residual sand pockets. (Estimate 60% of trench broken rock; 40% residual sand, to bottom of trench). Likely result of variation in depth-of-weathering due to preferential weathering along broken rock zones.
	1.7		
	2		

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TEST PIT LOG

TEST PIT No. 9057-C
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT Small pit between 9057-A & 9057-B
DATE AUG. 13, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. V. easy digging in topsoil and residual silty sand.	0 0.3		0-0.3m FINE GRAINED, SILTY TOPSOIL. Dark brown, med. dense, wet sandy SILT w/ some fine gravel and clay. Trace fine roots throughout. Med. plasticity. (Too wet to utilize as fill material). 0.3-1.0m RESIDUAL SILTY SAND. Lt. orangish tan silty residual SAND w/ some v. fine gravel. Mat'l is moist (at approx. optimum moisture), loose-med. dense * → Excellent potential low permeability, strong compacted core zone fill material.
Easy digging in HW, weak Granodiorite from 1-2.1m.	1 2 2.1	HW Badly broken, friable, weak. Grano-diorite	1.0-2.1m HW, FRIABLE, WEAK GRANODIORITE BEDROCK. HW, badly broken, friable, weak (R1), heavily iron oxidized (limonite/hematite) throughout, Granodiorite Bedrock. Broken, HW, rock frags. range from 1-8cm dia. are v. weak. Rock is crumbly and breaks down considerably when excavated w/ hoe. to residual crs. sand w/ gravel. → (May be combined w/ overlying residual silty sand for embankment fill material).

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TEST PIT LOG

TEST PIT No. 9058-A
SHEET 1 of 2

F JECT CASINO
LOCATION OF TEST PIT
DATE June 15, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in surficial and residual (weathered) materials Trench excavated on old 1 d. Mat'ls not frozen. Dry trench.	0		0-0.3m FINE SANDY GRAVELLY COLLUVIUM. Light brown silty FINE SAND and FINE ANGULAR GRAVEL. Med dense w/ some organics (roots). Mod. well graded. Approx. 40% fine gravel to 0.5 cm. Till-like in appearance but likely colluvium. Few small fresh granodiorite boulders on surface.
	0.3		0.3-0.9m SILTY GRAVELLY TILL-LIKE COLLUVIUM. Brown, fine sandy SILT and GRAVEL w/ some cobbles and bedrock fragments. All clasts angular, monolithic granodiorite. Occ. bedrock frag. to 30 cm. Mat'l is well graded, very poorly sorted. Some clasts fresh, others weathered (residual-limonite stained). Suspect colluvium. Undulating contact w/ underlying mat'l. Till-like unit varies from 0.1 – 0.5 m thick along trench.
	0.9		0.9-1.6m RESIDUAL CRS. SAND. Loose - med. dense cohesionless orange & red stained (MW) coarse residual SAND. w/ some fine gravel. Fining up grading. Mat'l derived from weathered granodiorite bedrock. Crs. granular texture, competent grains. Weathered (limonite / hematite) banding w/ v. crs. SAND & FINE GRAVEL at base. Clasts very angular.
9058-A1 1			
Easy excavability ... blocky, broken weak bedrock.	1.6		1.6-1.9m BLOCKY BROKEN GRANODIORITE. Slightly weathered, iron stained blocky broken GRANODIORITE BEDROCK. Very weak rock. (breaks in hands). Orthogonal jointing defines blocks approx. 10 x 10 x 5 cm
	1.9		
	2		

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TEST PIT LOG

TEST PIT No. 9058-A
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 15, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	2		1.9m FRESH, BLOCKY GRANODIORITE. Very hard, fresh, coarse blocky Granodiorite bedrock. Some iron staining on jt. surface but does not affect intact rock strength. Prominent orthogonal joint sets (3) at: ① Parallel to trench. Sub-planar 096-116/70-90°S. rough ② Sub-horiz. poorly developed very rough & undulating spacing ~0.5m. ③ Sub-vert. perpendicular to ① and ②. at 010-040/70-80°W. NOTE: Increase block size to the east to competent, very hard granodiorite rock w/ few joints. * Fault gouge comprising moist clayey crs. SAND w/ some silt. Somewhat sticky. Attitude is sub-horiz. and undulating at approx. -190/20°E. Undulating contact w/ underlying residual sands. Fault zone est. 0.3m thick. Also contains 5-10cm thick very sticky cream coloured sandy CLAY band (swelling (?) fat clay).

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TEST PIT LOG

TEST PIT No. 9058-B
SHEET 1 of 2

PROJECT CASINO - EAST SECTION OF TRENCH
LOCATION OF TEST PIT OPEN PIT SOUTH
DATE JUNE 12, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Ice at surface under organics (permafrost) Mod difficult digging in surficial ice and boney colluvium. Easy digging in residual sands (loose). Cat D7 dozer. Ice melting in f.gr. colluvium causing trench walls to cave in.	0 Permafrost table 0.3 9058-B1 (frozen) 0.9 Stratified SANDS 1 9058-B2 1.9 2		0-0.3m ORGANICS. Dark brown to black, soft, spongy, wet fibrous peat with some grey clayey silt. Moss, muskeg like vegetation on surface w/ occasional large (up to 1m dia.) Granodiorite boulder (fresh, very hard). 0.3-0.9m FINE GRAINED COLLUVIUM/ALLUVIUM. Light brown and grey laminae of v.f. sandy silt w/ thin clay partings up to 0.5cm thick. Horizontal laminations w/ 2mm - 1cm thick ice lenses. Soil fully saturated w/ excess ice stratified in horizontal layers. Spacing ~0.5 - 1.0 cm. Dark grey - clear ice. Estimate 20% excess ice. Mat'l contains decomposed (limonite stained) crs. sand and rock frags. up to 2cm dia. 0.9-1.9m RESIDUAL CRS. SAND Orange-red, loose, heavily weathered crs. residual SAND w/ trace silt. Approx. 50% mix w/ heavily weathered, friable, decomposed, weak Granodiorite bedrock. Rock frags. to 20 cm dia. Heavily limonite/hematite stained. NO ice visible. Mat'l is loose, moist - wet, well drained, fining up. Very crs. weathered Granodiorite granular texture, friable and crumbly at base of unit. Particles angular. WEATHERED GRANODIORITE BEDROCK. 1.9m Dark red (hematite), moderately weathered, weak Granodiorite bedrock. Rock is jointed and blocky. Major jts at ① 055-070/80S-90° (sub-vertical) ② 165/90° (vertical) Minor ③ 074/45°S

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TEST PIT LOG

TEST PIT No. 9058-B
SHEET 2 of 2

PROJECT CASINO - WEST SECTION OF TRENCH
LOCATION OF TEST PIT OPEN PIT SOUTH
DATE JUNE 12, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			West end of trench characterized by decreasing thickness of residual SANDS (weathered, decomposed granodiorite rock). Here, blocky, moderately weathered, competent, mod. hard granodiorite w/ some residual SAND is overlain by blocky crs. grained colluvium w/ some silt and surficial organics. * Fault gouge near west end of trench comprises granular clay, white/cream colour. Attitude measured at approx. 341/30°W. Approx. 60 cm thick.

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TEST PIT LOG

TEST PIT No. 2059-A
SHEET 1 of 6

PROJECT Casino
PROJECT No. 1831
LOCATION OF TEST PIT Refusal for 0m to 13m (TP-1 to TP-3) WEST END
GROUND ELEVATION ~2810 ± 10'
DATE July 25 1993
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
- Excavated with Hitachi UH08LC Hoe - Alignment from head to tail - Bearing 145° 0-22 m - Bearing 142° 22m-37.2m - Bearing 131° 37.2m-50m Bearing 129° 50m - 111 - Bearing 127° 111 - 130m	0.0		0.0-0.1m • ORGANICS - mosses and abundant root mass (black silty soil).
	0.5		0.1-1.6m • RESIDUAL SAND AND GRAVEL Brown - orange-brown (oxide stained) SAND AND GRAVEL with trace to some SILT. Moist (near optimum), medium dense. Some pockets of weak friable rock, angular Hbld B.ot. GRANODIORITE Less than 5% of soil visual est. Some bands of orange and tan/beige horizontal lying bands of silty gravelly sand (weathering horizons?).
	1.0		
	1.5		
	2.0		1.6-2.9m • GRANODIORITE Heavily weathered, broken, weak Hbld B.ot. GRANODIORITE. Some pockets of Argillic Alteration → grey tan beige clayey silty sand and gravel. Joint/Fracture Planes: 132°/51°W 014/85W 174/42E
	2.5		
	3.0		
	3.5		

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TEST PIT LOG

TEST PIT No. 3059-A
SHEET 2 of 6

PROJECT Casino
LOCATION OF TEST PIT Profile for stations 13m to 23m
DATE July 25, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
	0.0		
-Excavated with Hitachi UH08LC Hoe			0.0 - 0.10m • ORGANICS + TOPSOIL (as in prof #1)
	0.5		0.10 - 0.60m • Residual Sand and Silt Brown, moist, SAND and SILT, some GRAVEL, medium dense, occasional root frags. Origin - GRANODIORITE suspected.
	1.0		
	1.5		
			0.60 - 1.70m • Gneiss / SAND AND GRAVEL Very broken, angular, limonite stained -3" DIA fine grained, hard in brown beige SAND AND GRAVEL
	2.0		
			1.70m - 2.7m • Gneiss Limonite stained, broken, quartz rich bedrock. Hard and brittle. Confirmed as Feldspar/Qtz Gneiss on July 29, 1993 with John Payne.
	2.5		
Refusal in Gneiss @ 2.7m			
	3.0		Joint Orientations 294/86 S 156/88 W 182/55 E 338/88 NW
	3.5		

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TEST PIT LOG

TEST PIT No. 9059-A
SHEET 3 of 6

PROJECT CASINO
LOCATION OF TEST PIT STATIONS 23m TO 28m
DATE JULY 25 1993

PROJECT No. 1231
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• EXCAVATED WITH HITACHI UH08LC HOE	0.0		0.0 - 0.05m • ORGANICS - mosses + abundant root mass
	0.5		0.05 - 1.0 m • SAND AND GRAVEL (COLLUVIUM) Moist (slightly dry of opt.) loose, Light brn to grey SAND AND GRAVEL with trace to some SILT. Clasts typically ~6" angular limonite stained GNEISS.
	1.0		1.0 - 2.0m • RESIDUAL SAND AND GRAVEL Orange-brown, moist (wet of optimum) SAND AND GRAVEL with some angular fragments of weak, coarse grained GRANODIORITE
	1.5		
	2.0		2.0 - 2.9m • GRANODIORITE Darkly Limonite and Hematite stained blocky, moderately weathered, slightly broken to broken, weak coarse grained GRANODIORITE
	2.5		JOINTS - 107°/85° SE 193°/38° NE 355°/45° W
	3.0		
	3.5		

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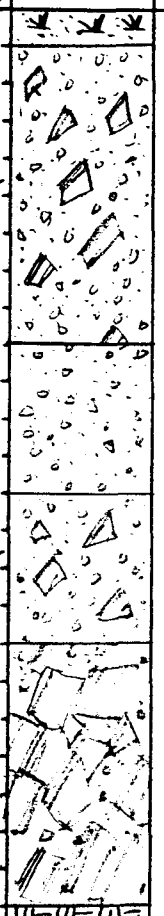
TEST PIT LOG

TEST PIT No. 9059-A
SHEET 4 of 6

PROJECT Casino
LOCATION OF TEST PIT Profile for stations 28-42m
DATE July 25, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY TWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• Excavated with Hitachi Hydlc Hoe	0.0		0.0 - 0.10m • ORGANICS (as before) 0.1 - 0.90m • SAND AND GRAVEL/ROCK FRAGMENT (COLLUVIUM) Beige, slightly moist silty SAND with some GRAVEL and 30-40% (vis. est) CLASTS OF -4" angular, limonite stained brittle fine to medium grained GNEISS (white/clear) 0.90-1.30m • RESIDUAL SAND AND GRAVEL Brown, medium dense, moist (very near optimum) SAND AND GRAVEL. 1.30 - 1.7m • SANDY GRAVEL COLLUVIUM Orange-tan-brown SANDY GRAVEL with angular clasts of dark green, foliated iron stained GNEISS (20-30% of material by visual est.) Clasts typically -12". Moist and medium dense. 1.7 - 2.4m • GNEISS Limonite stained, white, angular, broken brittle GNEISS with 20-30% visual est. brown sand and gravel (moist well graded). GNEISS is a banded Feldspar Quartz rock.
	0.5		
	1.0		
	1.5		
	2.0		
• Refusal in hard GNEISS at 2.4m.	2.5		
• Note: at station 42m Trench shallows to 1.5m depth; Residual soil layer pinches out.	3.0		
	3.5		

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TEST PIT LOG

TEST PIT No. 9059-A
SHEET 5 of 6

PROJECT Casino
LOCATION OF TEST PIT Profile for stations 42m - 54m
DATE July 25, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY JAC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• Excavated with Hitachi UH08cc Hoe	0.0		0.0 - 0.1 m • ORGANICS - mosses and abundant root mass (black silty sand)
	0.5		0.1 - 1.7 m • SANDY SILT (DEBRIS FLOW ?) Wet (well over optimum - near saturated) brown SANDY SILT with root fragments and broken branches. Typically loose to medium dense with 30 - 40% content angular, limonite stained hard - 16" typ GNEISS (Qtz - Feldspar) clasts. Deposit is well graded and poorly sorted
	1.0		
	1.5		
Refusal in Qtz - Feldspar Gneiss.	2.0		
	2.5		
	3.0		
	3.5		

KNIGHT AND PIESOLD LTD.
CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9059-A
SHEET 6 of 6

PROJECT CASINO
LOCATION OF TEST PIT Profile for Stations 59m - 130m
DATE JULY 25 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY JWC

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (METRES)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
• EXCAVATED WITH HITACHI UH08LC HOE	0.0		0.0 - 0.1m • ORGANICS - mosses and abundant root mass
	SAMPLE 9059-A1		0.1 - 2.0m • RESIDUAL SAND AND GRAVEL (AVG THICKNESS - TYP. VARIES FROM 1.8 TO 2.3m DEPTH TO BOTTOM HORIZON). Brown-orange (oxidized) SAND AND GRAVEL, moist (slightly dry of optimum) loose to medium dense. Occasional pockets of weak to moderately strong broken to very broken angular, iron oxide stained rock (typ -8")
	0.5		
	1.0		
	1.5		
At 92m have Quartz vein ~ 5cm thick strike 269° dip 62°N	2.0		2.0 - 3.0m • GRANODIORITE Slightly broken, blocky, angular, limonite stained bedrock - typically GRANODIORITE although some bands of quartzite/gneiss (grey white to pinkish). GRANODIORITE is Hbld-Bt slightly foliated in areas, coarse grained and weak.
	2.5		
	3.0	E.O.P.	JOINTS • CALCITE INFILLING TYPICAL • SOME SLICKENSIDED UNDULATING JOINT SURFACES (trending 131°) at CONTACT BETWEEN GRANODIORITE AND GNEISS • 090°/49°SE • 224°/46°NW • 280°/60°N • 311°/89°N • 304°/89°N
	3.5		

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TEST PIT LOG

TEST PIT No. 9060-A
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 7, 1993
LOGGED BY MDG

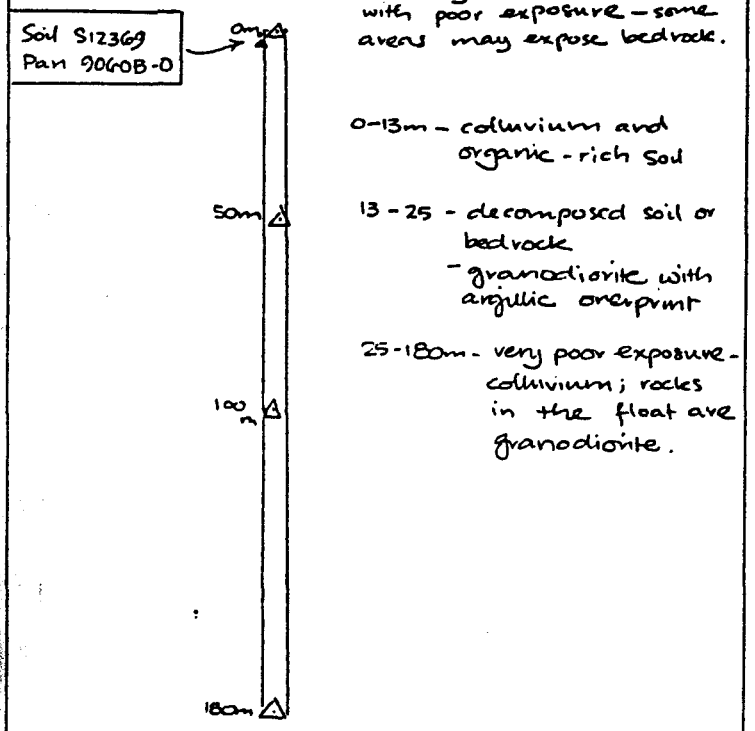
NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench FROZEN Stripped approx. 1.5 weeks prior to excavation. Very difficult digging in hard, frozen ground. Trench walls thawing and very slowly caving. Materials fairly stable during thaw. Refusal w/ toothed bucket at 1.3 m. 3" deep teeth bucket marks left in bottoms of trench. No sign of bedrock at bottom of trench.	0 Permafrost table. 0.15 Ice * wedges Ice * lenses 0.5 9060-A1A Tot. m/c. (frozen) 1 1.3 Refusal (bottom) 2		Surface: Assorted scrub willows, thick moss and abundant stunted black spruce (5-10' tall) → Permafrost! Some large crs. talus blocks of fresh, v. hard crs. grained granodiorite from 0.2-1.2 m dia. 0-0.15m MOSS / PEAT Thick moss, fresh black, saturated, fibrous, loose peat. (Insulating layer). 0.15-0.5m CRS. TALUS BLOCKS and FROZEN ORGANIC-RICH TOPSOIL. Coarse blocky talus comprising v. hard crs. grained granodiorite and dark grey-black organic-rich (peat) topsoil comprising frozen peat (~50%) and grey clayey SILT. * Material is very ice-rich with thin (~1-2mm) ice lenses in f.gr. clayey silt & peat, and thick clear hard ice wedges between talus blocks. Estimate approx. 30% excess ice in f.gr. mat'l - v. hard, well bonded ice; and up to 40% excess ice in talus. 0.5-1.3m HARD, FROZEN RESIDUAL FINE GRAVELLY SAND w/ SOME SILT & COBBLES. Very hard (frozen) orangish brown residual fine gravelly SAND w/ some silt and large gravel - small cobble clasts. Rare small boulder. Clasts comprise competent, hard, crs. granodiorite. Matrix of fn. gravelly SAND comprises approx. 75% of material. * Visible ice present as clear, hard ice lenses up to 2mm thick, randomly oriented throughout material. Ice is v. well bonded. Occasional v. large boulder clast of SW, hard granodiorite at bottom of trench.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.:	90GO
CREEK:	Canadian
TYPE:	Bench.

PIT NUMBER: 9060B	EQUIPMENT TYPE: D6 Wide Track,
NORTHING:	EQUIPMENT HOURS: D6 : 2 hrs
EASTING:	EQUIPMENT COST: 2 @ $100/hr
STARTED: June 8/1993	LABOUR COST: 2 hrs @ $26.25/hr
FINISHED: July 31/1993	TOTAL EXPENDITURE: $252.50

PLAN VIEW



basically a cat trench with poor exposure - some areas may expose bedrock.

0-13m - colluvium and organic-rich soil

13-25 - decomposed soil or bedrock
- granodiorite with argillic overprint

25-180m - very poor exposure - colluvium; rocks in the float are granodiorite.

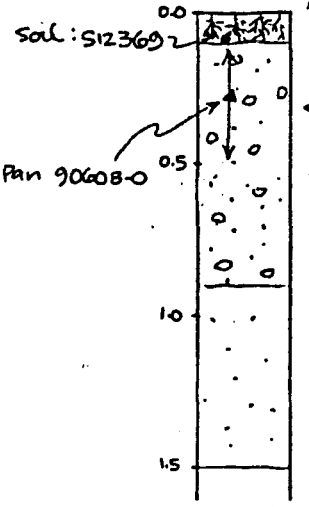
Survey Data.

From	To	Strike	Dip
0	50	45°	-8°
50	100	45°	-17°
100	180	45°	-17°

Scale: 1:2000

SOIL PROFILE

taken @ 0m.



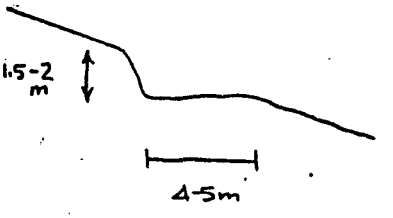
10cm black organics with some brown clay and sand.

← colluvium, light yellow to brown; clay, sand and small rock fragments of granodiorite

← well developed decomposed bedrock of granodiorite; residual soil.

*possible exposure of bedrock in some sections.

typical cross section



Scale: 1:25

COMMENTS:

SAMPLE NUMBERS: Soil : S12369 ; Pan : 90608-0

PANNING CONCENTRATE DESCRIPTION:

PS90608-0 : Sample taken @ 0m in the colluvium layer to a depth of 0.5m. Pale tan colour; Mostly subrounded grains of Quartz. Minor remnant feldspar, pyrite. Average grain size: 75-90μm. Minor yellow fluorescent grains.

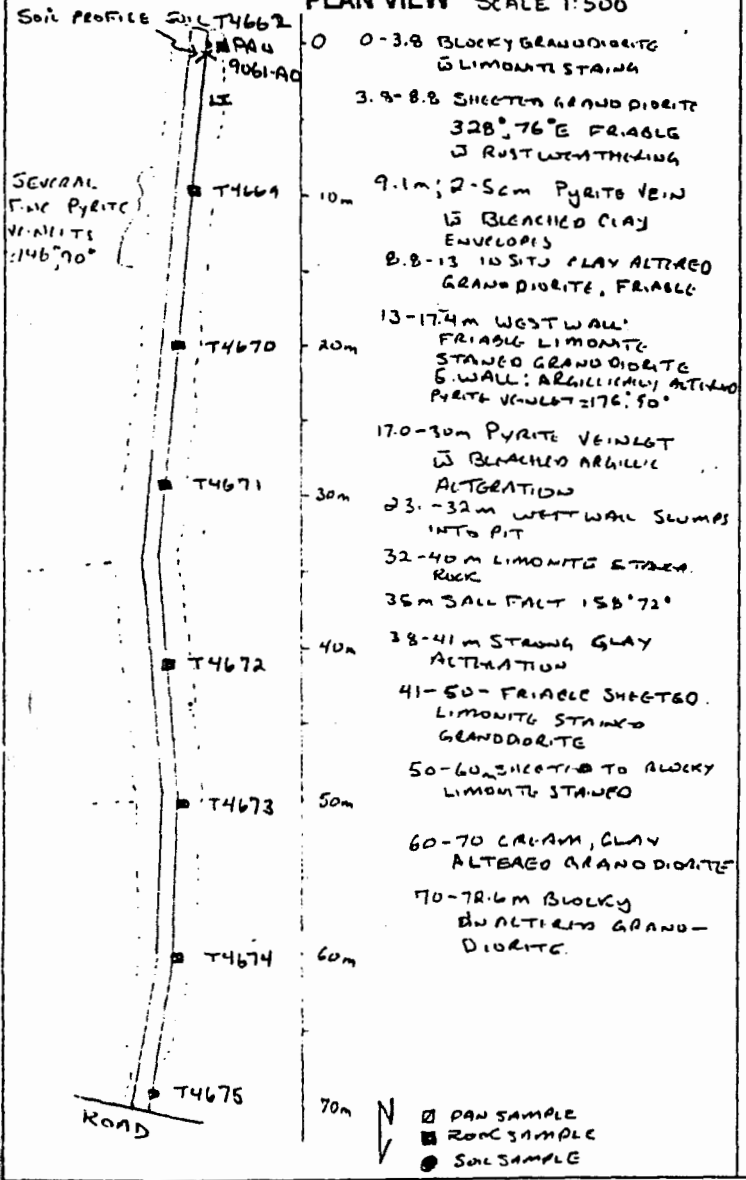
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: PL 9061
CREEK: CASINO
TYPE: BENCH, 2ND TIER

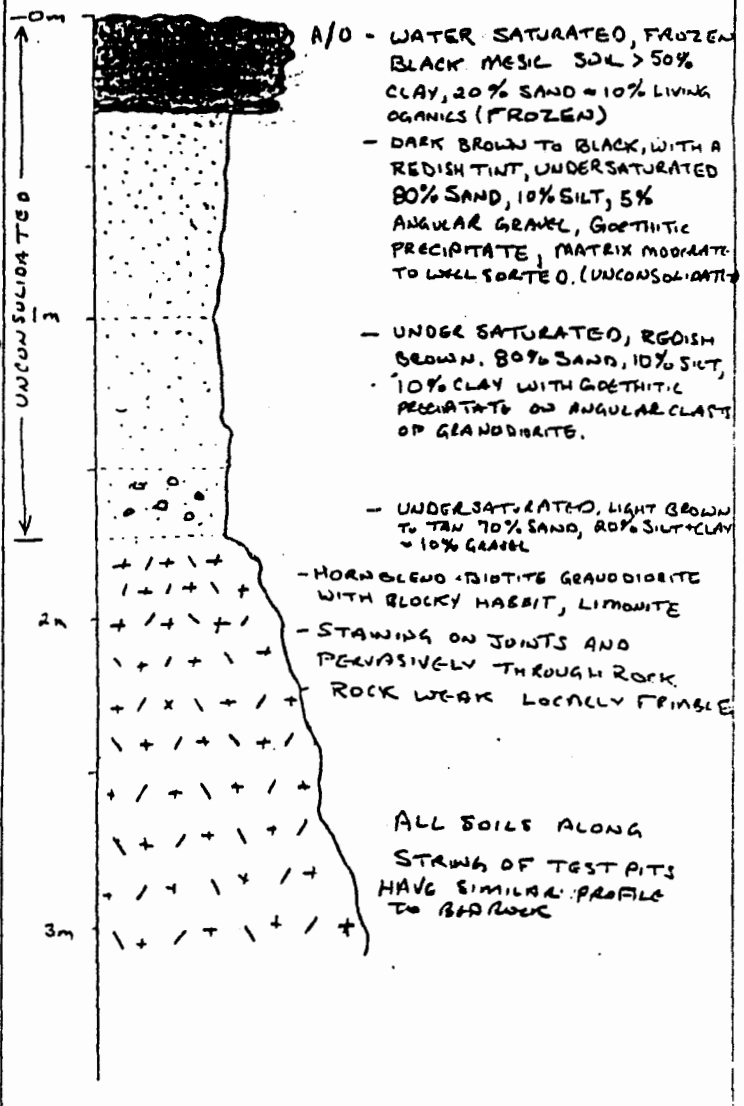
PIT NUMBER: 9061-A
NORTHING: 254409, → 254,336
EASTING: 111663 → 111662
STARTED: JUNE 4, 1993
FINISHED: JUNE 5, 1993

EQUIPMENT TYPE: HITACHI HOE
EQUIPMENT HOURS: 8
EQUIPMENT COST: @$130/HR = $1040
LABOUR COST: 11 HRS @ $17.50/HR = $192.50
TOTAL EXPENDITURE: $1232.50

PLAN VIEW SCALE 1:500



SOIL PROFILE



COMMENTS: 9061-A CONSISTS OF OF A STRING OF CONNECTED PITS ABOVE THE SOUTH BANK OF PROCTOR GULCH. ASSAYS SOIL T4662 1680 ppb Au; ROCK T4669 792 ppb Au, T4670, 800 ppb Au STAIN: LESS THAN 500 ppb Au. SOIL T4662 0.2% Cu

SAMPLE NUMBERS: SOIL SAMPLE: T4662 TAKEN FROM HEAD OF TRENCH; ROCK SAMPLES: T4669 TO T4675

PANNING CONCENTRATE DESCRIPTION:

PAN 9061-A-0 COARSE FRACTION (+ No. 4 MESH) PEBBLES OF DARK RUST BROWN MANGANESE STAINED GRANODIORITE. FINE FRACTION:

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TEST PIT LOG

TEST PIT No. 9062-A
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE June 16/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in loose surficial Sandy mat'l	0 0.3 0.7 1 1.1 1.7 2 2.2 3 3.7 4		0-0.3m ORGANIC TOPSOIL Dark brown sandy SILT w/ some fine gravel and organics. Not frozen. 0.3-0.7m FINE GRAINED COLLUVIUM. Light brown, uniform SILT w/ some v.f. sand and clay. Trace fine gravel and organics (roots). Not frozen. Mod. well sorted. 0.7-1.1m ORGANIC (PEAT) LAYER Firm, dry black organic (peat) layer. Matted firm fine roots throughout. 1.1-2.2m RESIDUAL CRS. SAND and GRAVEL. Light orange-brown residual decomposed bedrock. Mat'l is decomposed to crumbly crs. SAND and FINE GRAVEL granular texture. Fining upwards. 1.1-1.7 Light brown fine gravelly SAND w/ trace silt. Occ. cobble size angular mod. weathered granodiorite rock frag. Gravel clasts competent. Mat'l not frozen. 1.7-2.2 Coarser mat'l comprises sandy FINE very angular GRAVEL. Very crs. granular texture. Dry, dense low m/c. Derived from in-situ weathering of granodiorite bedrock. Crumbly, no cohesion, competent clasts up to 0.5 cm dia. ave. 2-4mm. 2.2-3.7 WEATHERED WEAK GRANODIORITE ROCK Dark brown, heavily weathered friable & crumbly, hematite stained granodiorite bedrock. Dense but crumbly. Easy excavability. Granular crs. texture preserved but breaks apart to v.crs. Sand & fn. gravel when handled.
Composite sample 9062-A1			
Trench walls sloughing in at bottom of trench due to seeping gdw.			
Groundwater seeping into bottom of trench at 3.5m. Est. 20 gpm flow.			

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TEST PIT LOG

TEST PIT No. 9062-A
SHEET 2 of 2

PROJECT CASINO.
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE June 16/93
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Bedrock blocks break w/ one easy blow with geologic hammer.	4		3.7m GRANODIORITE BEDROCK Slightly weathered, limonite/hematite (iron) stained, moderately hard, slightly friable and weak granodiorite bedrock. Mod. well developed jointing or "sheeting" at 133/60°SW (major). Minor jts at 016/70°W and 114/10°N

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TEST PIT LOG

TEST PIT No. 706I-F
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT W. END
DATE JULY 9, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench excavated on existing access road. No permafrost materials well drained. Easy digging in topsoil and colluvium. Moderately difficult digging in broken granodiorite bedrock.	0 0.4 1 2 2.1 3 3.6 4	MW slightly altered GRANODIORITE BEDROCK Bottom.	Surface: Thin moss cover and scrub willows. Rare spruce trees. Poor topsoil development. 0-0.4m FINE GRAINED TOPSOIL Brown, loose clayey silt w/ some gravel, trace fine roots. Material is very moist. Est. med. saturation, low permeability. 0.4-2.1m COLLUVIUM Light brown, moist, dense colluvium comprising 50% angular crs. gravel-small cobbles and 50% matrix of brown clayey SILT & SAND w/ some v. fine gravel. Clasts are slightly altered, moderately weathered, mod. hard granodiorite comprising quartz and altered feldspars → limonite / clay ⇒ Leach cap. 2.1-3.6m MW, BROKEN GRANODIORITE BEDROCK Slightly altered, moderately weathered, broken blocky granodiorite bedrock. Rock is broken into 5-10 cm blocks and is well jointed with prominent sets at: 1. 049/57 SE /57 2. 111/76 N \76 3. 004/58 E |58 4. 100/50 N \50 } Fractures are smooth, planar w/ limonite / hematite on surface.

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TEST PIT LOG

TEST PIT No. 9062-B
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT E. END
DATE July 9, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in colluvium and crs. residual sandy fine gravel. No permafrost Crs. residual materials and badly broken rock free draining	0 0.4 1 2 9062-B1 2.1		Surface: (same as W. End - see p. 1). 0-0.4 m FINE GRAINED TOPSOIL (same as W. End - see p. 1) 0.4-2.1m COLLUVIUM (same as W. End - see p. 1). 2.1-2.9 m CRS. RESIDUAL SANDY FN. GRAVEL Loose - med. dense residual sandy FINE GRAVEL. Tan-buff colour. Heavily weathered and altered granodiorite to crs. granular material, trace fines. Material is comprised of angular quartz fragments. 2.9-3.8m BADLY BROKEN, MW-HW GRANODIORITE Badly broken, altered, moderate-heavily weathered, crumbly granodiorite rock. w/ some residual matrix of fine gravel and sand. Rock is moderately hard, sub-angular. Pieces range from 5-10 cm dia. Est. v. high permeability.
Easy digging in badly broken rock.	(non-frozen) 3	2.9 MW-HW altered, badly broken rock.	
Mod. difficult digging in MW rock.	3.8 4	MW	3.8 m MW, BROKEN GRANODIORITE ROCK (same as at 2.1m at W. End - see p. 1).

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TEST PIT LOG

TEST PIT No. 9063-A
SHEET 1 of 2

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE June 18/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Moderately easy digging in north (unfrozen) part of trench. North section previously stripped & thawed. (no permafrost) South section fresh in permafrost near surface. Trench walls melting and sloughing in residual silty sands. Very unstable during thawing.	0 0.8 1 9063-A1 (matrix only) 2 2.3 9063-A2 2.9 3		0-0.8m ORGANIC, CLAY RICH TOPSOIL Dark brown - black soft to firm silty CLAY and organics (peat) with black, soft peat rich zones. Surface vegetation is deciduous shrubs, grass and thin moss. 0.8-2.3m STONEY COLLUVIUM w/ SANDY SILT MATRIX. Brown, moist, medium dense stoney mixture of large cobbles (50%) with matrix (50%) of fine sandy SILT, trace clay. Evidence of previous ice lensing in thawed material by presence of thin (1-2mm) horiz. partings spaced 0.5 cm. Cobbles are sub-angular to sub-rounded to 15 cm dia. comprising fresh granodiorite. Material is very poorly sorted, mod. well graded. Some fn. cobbles & crs. gravel also present. * Material is frozen but stable when thawed. No ice lenses or excess ice visible. 2.3-2.9 FINE GRAINED RESIDUAL SANDY SILT. Orange-brown, loose v. fine sandy SILT with trace - some clay. Material fines upward (incr. silt content). Alternating limonite / hematite (oxidized) banding. Steep iron stained relict jointing visible. Moist. Occasional zone of clay rich gouge (shear zone?). * Frozen at S. end of trench (permafrost). Mat'l is highly saturated but no visible ice apparent. Mat'l is highly unstable during thawing due to high moisture content.

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TEST PIT LOG

TEST PIT No. 9063-19
SHEET 2 of 2

PROJECT CASINO.
CATION OF TEST PIT
DATE June 18, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			2.9m FINE BLOCKY WEATHERED BEDROCK.

Fine blocky, heavily weathered and weak DIORITE BEDROCK. Heavily jointed to fine blocks approx. few cm in each dimension. Fractured rock mass is medium dense. Heavily iron stained (hematite) on fracture surfaces. Bedrock contact incr. with depth to the south (irregular contact between residual sands and fractured rock).

Outcrop at 40m South of N. end is well jointed fine-med. blocky mod. weathered blocky granodiorite. Joints well developed and approx. orthogonal at:

① 020/74°E. Smooth planar, continuous. Est. 10cm spacing.

② 075/13N Rough, planar, continuous 5cm spacing.

③ 120/80-90 Rough, planar 10cm spacing.

* Fault at 28m from N. end. 20 cm thick very soft, sticky granular clay gouge.

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TEST PIT LOG

TEST PIT No. 9063-B
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE June 30, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Difficult digging in hard, frozen colluvium and residual weathered soils. Trench walls very unstable during thawing. Mat'l flows to soupy quicksand V. high water content.	0 Permafrost Table 1 2 Bottom		ORGANICS & TALUS Moss veg. / roots & crs. angular blocks of fresh, v. hard, competent Granodiorite rock up to 1 m dia. 0.2-1.0 GREY F. GR., ICE-RICH COLLUVIUM Grey matrix of f. sandy SILT with trace fine gravel and clay supporting cobble size, fresh angular granodiorite rock frags. Estimate 70% matrix, 30% clasts. Material is hard and frozen with abundant excess ice present as thin lenses up to 2cm thick, spaced 1cm. Estimate 50% excess ice by vol. Ice is well bonded and clear. Mat'l is well graded, v. poorly sorted. 1.0-2.0m RESIDUAL SILTY SAND Tan-lt. orange silty SAND with some fine gravel, trace clay. Material is heavily weathered, residual soil derived from in-situ weathering of granodiorite. Mat'l fines up to sandy silt with some clay (~30cm thick). Coarse silty sand & fn. gravel (heavily weathered granodiorite frags.) at base. Residual mat'l frozen. Visible ice present as randomly distributed crs. crystals. Est. 30% ice by volume. (cont'd)...

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TEST PIT LOG

TEST PIT No. 9063-B
SHEET 2 of 2

PROJECT CASINO
OCATION OF TEST PIT
DATE June 30, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd) S. End of Trench. 0-0.5m COLLUVIUM, As Above 0.5m QUARTZITE BEDROCK. Hard, competent Yukon metamorphic quartzite. White, v. hard, fresh rock.

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TEST PIT LOG

TEST PIT No. 9074-A
SHEET / of /

PROJECT CASINO
LOCATION OF TEST PIT
DATE July 2, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench cut on old cat line - trench only partially frozen. Trench walls v. unstable during thawing due to melting of excess ice in colluv. Evidence of previous permafrost (in thawed sections) by presence of thin (mm) partings in f.gr. matrix of colluvium. (Estimate 20% excess ice as v. thin lenses).	0 V. difficult digging in frozen sections of trench. 0.4 0.8 9074-A1 1 Matrix only (non-frozen) 1.9 2	Bottom.	Surface: Thick mosses, arctic birch vegetation with some hard, fresh granodiorite boulder talus. Solifluction ridges common along slope. 0-0.4m SOFT ORGANIC SOIL / SILTS Black, dk. brown, soft, slightly moist organic topsoil comprising approx. 50% spongy peat and roots, and 50% dry, soft and uniform clayey SILT. 0.4-0.8m INTERBEDDED ALLUV. SANDS & SILTS Interbedded orange-brown (oxidized) SAND and brown-black clayey SILT with some v.fn. organics. Material is loose and v. wet (highly saturated). → Alluvium derived from reworked & sorted colluvium transported downslope. 0.8-1.9m WELL GRADED, FROZEN COLLUVIUM Greyish lt. brown cobbly/sandy SILT with some clay and occasional small boulder. Cobbles & boulders comprise approx. 40% of material, are sub-angular, v. poorly sorted and supported by loose-med. dense, f.grained matrix. Clasts are hard, fresh, competent granodiorite rock frags. Colluvium is massive, wet, v. well graded, v. poorly sorted. Estimate mod.-high saturation of matrix. Refusal in frozen ground at 1.9 m.

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TEST PIT LOG

TEST PIT No. 9074-B
SHEET 1 of 2

OJECT CASINO
LOCATION OF TEST PIT
DATE June 16, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Difficult digging w/ hoe in frozen, hard topsoil (permafrost). Trench excavated (with difficulty) (fresh, frozen ground (likely able to rip with heavy equipment for pre-production pit stripping). Trench walls sloughing in thin slabs as ice melds. Refusal at 1.4m - likely competent - slightly broken, blocky as. bedrock. Permafrost at surface under moss.	0 Ice lenses 0.7 0.9 1 1.4 2	Peat layer. SW Block Patton porphyry Bedrock Refusal	0-0.7m F.GR. COLLUVIAL TOPSOIL w/ ORGANICS. Light brown and grey (mottled) clayey SILT and ORGANICS with trace very fine sand → Topsoil. Fresh cut mat'l is frozen, hard, saturated. 5 cm thick black peat layer at base w/ occ. angular gravel clast → likely COLLUVIALLY derived, fine grained material. 0.7-0.9m V.F.GRAINED CLAYEY SILT COLLUVIUM Grey, very fine grained colluvium comprising clayey SILT w/ some fine sand. Material is frozen (v. hard). Mat'l is very soft when thawed. Visible ice est. approx. 10-15% by volume present as thin (2-3 mm) lenses and inclusions approx. 1 cm dia. → Significant "wicking" action in v.f. grained material (high frost susceptibility) 0.9-1.4m BROKEN, BLOCKY P. PORPHYRY B/R Broken, SW, blocky mod. hard (R3) Patton porphyry Bedrock. (aphanitic black groundmass supporting plag. phenocrysts up to 0.5 cm dia). Also frags. of f.gr. diorite (mafic). (cont'd)...

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TEST PIT LOG

TEST PIT No. 9074-B
SHEET 2 of 2

OJECT CASINO
LOCATION OF TEST PIT
DATE June 16, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			...(cont'd)
			1.4m SL. BROKEN, BLOCKY, JT'D BEDROCK.
			Slightly broken, blocky bedrock. Blocks defined by orthogonal jointing pattern with mutually perpendicular joint sets at:
			1. 004/74 W
			2. 053/16 SE (Sub-horizontal)
			3. 100/67 S
			Joints are planar, smooth-rough spaced 5-10 cm, well developed.
			*Note:
			Apparent Fault gouge ½-way along trench trending approx. 000, dip. 10-20° West approx. 30cm thick comprising soft silty clay w/ trace fn. sand when thawed. This zone also frozen w/ trace visible ice. Iron oxidized banding in zone w/ thin sericite partings. (could be extremely weathered shear/alteration zone).

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TEST PIT LOG

TEST PIT No. 9074-C
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE JULY 2, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench frozen at surface under organic topsoil. Trench freshly stripped one week prior — refusal in permafrost at 0.3 m depth. Hoe trenched 1.3 m depth after 1 wk. of thaw. V. difficult, boney digging conditions in frozen colluvium. Trench walls sloughing as highly saturated, frozen colluvium thaws	0 Active layer Permafrost Table 0.3 NO Samples taken 1 1.3 Bottom 2		Surface: Thick moss, arctic birch (willow) vegetation and v. crs. blocky boulder Talus. 0-0.3m SOFT ORGANIC/MINERAL TOPSOIL Organic topsoil comprising black organics (peat), silt and clay. Very soft and moist. 0.3 - 1.3m FROZEN COBBLY COLLUVIUM * Dark brown, frozen cobbly silty SAND and FINE GRAVEL with some boulders and trace clay. Material is well graded, poorly sorted, massive. Cobbles and boulders are fresh, sub-angular, v. hard granodiorite ranging from 0.1 - 0.8 m dia. Colluvium is frozen and hard. Est. 30% excess, visible ice by vol. as thin abundant ice lenses in fine grained matrix. Mat'l is highly saturated. Ice is clear and well bonded. 1.3 m Bottom of trench in hard, frozen colluvium → Refusal. * Colluvium would make strong, rel. impervious construction material if allowed to thaw and drain.

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TEST PIT LOG

TEST PIT No. 9076-A
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JULY 1, 1993.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Existing (non-frozen) trench. Trench walls stable at approx. 40° in existing trench. V. easy digging in colluvium and residual weathered soils. Easy excavation in HW GRANODIORITE BEDROCK.	0 0.4 0.8 1 2 3 4	HW	Surface vegetation comprises willows, grass and thin moss cover. 0-0.4 COLLUVIUM & BLOCKY TALUS. Brown fine gravelly SAND with some silt and large cobbles / small boulders. Clasts comprise fresh, hard granodiorite rock (talus). 0.4-0.8 RESIDUAL SILTY FINE SAND. Orange - lt. brown silty FINE SAND and GRAVEL with some clay. Residual soil derived from weathering of granodiorite bedrock. Gravel size clasts are angular, matrix supported. range from 0.5-3 cm dia. weathered granodiorite fragments. Material is moist, non-frozen. 0.8-4.0 HEAVILY WTHRD GRANODIORITE. Heavily weathered, weak GRANODIORITE bedrock. Rock is soft (R1) with pervasive clay alteration and iron stained on all fracture surfaces. Rock mass is very well fractured to fine blocks approx. 5 x 10 x 10 cm. Fractures are planar, smooth continuous and closely spaced. (cont'd)...

Bottom.

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TEST PIT LOG

TEST PIT No. 9076-A
SHEET 2 of 2

PROJECT CASINO
OCATION OF TEST PIT
DATE JULY 1, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL

... (cont'd)

Fracture Measurements:

CHAINAGE from S. End of Trench

10m: 165/90 (Parallel to Trench)
167/74W
101/62N
037/72S

20m: 166/84 W
066/54S
030/44 N

40m: 153/90
049/68
Abundant sub-horiz. fractures.

All fractures planar, smooth, well developed with limonite/hematite oxidation on frac. surfaces.

CH. 10m Gouge zone at 052/64 SE 5cm thick comprising white clay w/ some fine gravel. Could be alteration or shear/sm. fault zone. Shear in HW, weak granodiorite bedrock. Clay alteration 10 cm thick on both sides of gouge.

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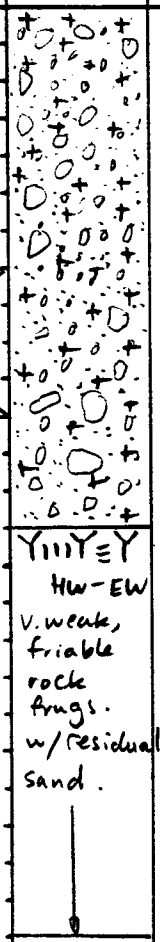
TEST PIT LOG

TEST PIT No. 9076-B
SHEET 1 of 1

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT S. OF CANADIAN CREEK.
GROUND ELEVATION
DATE JUNE 27, 1993
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Existing (old) trench cut ; mat'ls thawed. Easy digging in thawed, loose colluv. Suspect permafrost in surrounding area under thick moss. V. easy digging in HW-EW rock / residual sand.	0 9076-B1 1 1.4 2 2.5 3		Surface: Thick moss, small scrub willow & large, hard granodiorite boulders - sub-rounded up to 1m dia. Possible solifluction (freeze-thaw soil creep) lobes. 0-1.4m WELL GRADED, FINE GRAINED COLLUVIUM Brown, moist fine gravelly well graded sand w/ some silt and trace clay + organics. Mat'l is loose - med. dense. Occasional cobble up to 5cm dia. (sub-angular). Silt (fines) content varies from 10-20%. Partially stratified at base, otherwise massive, well graded FINE GRAINED COLLUVIUM. 1.4-2.5m HW-EW, V. WEAK ROCK / RES. SAND (GRANODIORITE / Q. MONZO. ?) Black, HW-EW, weak, residual badly broken bedrock (?) comprising quartz monzonite / granodiorite (?). Rock is v. weak (R0-R1) - crumbles in hand - and friable. Alternating bands of limonite / hematite suggests later stage weathering by groundwater (and oxidation). Mat'l also comprises some HW silty sand matrix infill supporting rock frags. Rock is HW to crs. sand texture in part, otherwise heavily fracture, weak frags. to 5cm dia.

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TEST PIT LOG

TEST PIT No. 9076-C
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JULY 1, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES: Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Surface water flowing into trench. Very easy digging w/ hoe. All materials loose & wet. (poor drainage on slope. Abundant surface water ponded on f.gr. colluv. at surface. Water Table near surface. Mat'ls highly saturated. Estimate depth of thawing at 3.5m.	0 0.3 9076-C1 0.8 1 (non-frozen) 9076-C2 2 (non-frozen) 3 3.5 4	HW-EW ALTERED BEDROCK MW, SLIGHTLY ALTERED BEDROCK	Moss & willow vegetation. 0-0.3 SILTY ORGANIC TOPSOIL Very soft, wet silt and organics (roots) with some clay, trace fn. gravel 0.3-0.8 OXIDIZED FINE GRAINED COLLUVIUM Reddish brown silty FINE SAND with some fn. gravel & clay. Material is v. moist - wet, v. well graded, poorly sorted. Occasional large cobble - small boulder clast from 10-40 cm dia. Est. 10-15 % clasts, 85-90 % matrix. Est. low permeability. * Potentially good construction mat'l if allowed to drain. Strong, low perm. Fill. Loose - med. dense, v. moist. 0.8-1.0 GREYISH BROWN (NON-OXIDIZED) FINE GRAINED COLLUVIUM. - Same composition as oxidized colluvium above 1.0-3.0 HW, ALTERED F.GR. RESIDUAL SOIL. Heavily weathered and altered residual soil comprising lt. orange - buff clayey SILT and Quartz fragments. Frequent zones of loose & soft, extremely weathered, pulverized clay gouge-like residual soil derived from heavily altered granodiorite. Occasional intensely gouged zones comprising white sticky clay w/ trace - some v. fn. quartz frags. Material is v. wet and loose Estimate low permeability, mod. plasticity. Clay gouge zones highly plastic and sticky. (cont'd).-

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TEST PIT LOG

TEST PIT No. 9076-C
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT
DATE JULY 1, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Easy digging in HW, altered, weak BEDROCK. from 3.0 – 3.5 m. depth. Mod. difficult digging at 3.5m but till diggable.	4		(cont'd)... 3.0-3.5 HEAVILY WEATHERED & ALTERED, WEAK, BROKEN GRANODIORITE. Heavily weathered, weak fine crumbly bedrock. White - buff coloured, altered intrusive (felsic) rock comprising coarse grains of angular quartz (~90%) with trace lt. yellow clay matrix (alteration product). Rock is very weak and well fractured to fine blocks. Iron staining on all fracture surfaces. Hardness R1-R2. Fractures are steeply dipping, randomly oriented & generally smooth - rough, sub-planar to undulating & wet. Orientations: 1. 180/80 W Occ. thin gouge / shear zone parallel to fracture. 2. 107/80S 3.5 m MODERATELY WEATHERED GRANODIORITE BEDROCK. Moderately weathered, more competent granodiorite bedrock. White - lt. grey colour comprising abundant crs. gr. quartz frags. and trace clay. Rock is slightly altered. Estimate hardness of R2. (mod. hard). Iron staining on fractures.

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TEST PIT LOG

TEST PIT No. 9076-D
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT
DATE JUNE 21, 1993

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Active layer (annual freeze-thaw) from 0.1-0.4 m. Very difficult digging in permafrost - can only scrape few inches per pass with hoe bucket. Abundant excess ice present in peat/colluv. as thick ice lenses. Ice in broken, weathered rock present as thick wedges and lenses supporting rock frags. Trench walls becoming unstable as ice melts.	0 Permafrost Table 0.4 0.5 Perennially frozen mat'l. 1 No samples taken 1.7 Ice 2 2.3 3	Bottom.	Thick moss cover. MINERAL TOPSOIL, TR. ORGANICS. Light brown silty SAND & FINE GRAVEL, trace organics (fine roots). 0.5-1.7 m FROZEN, INTERBEDDED PEAT and COLLUVIUM. Frozen, hard interbeds of grey clayey SILT with black frozen peat layers. Occasional thin layer of brown silty sand and gravel (10cm thick) — colluvium - similar to surficial mat'l with occasional weathered rock frag. Abdt. ice lenses up to 3" thick. Est. 50% ice by volume. Est. high saturation, high water content. Buried peat suggests solifluction - slumping of colluvium and weathered rock over organics (peat). Est. 75% of mat'l is frozen peat. 1.7-2.3 FROZEN, ICE-RICH WTHRD BROKEN ROCK Yellow, mod. hard, weathered, broken fine blocky f. grained Quartz. Monzonite rock with abundant excess ice present as infill along fractures and between weathered rock fragments. Est. 50-70% ice by volume. Ice is distributed between rock frags. and along fractures. In some cases ice totally supports rock frags. Ice wedges up to 6" thick. Ice is crs. granular, and hard.

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TEST PIT LOG

TEST PIT No. 9076-E
SHEET 1 of 3

PROJECT CASINO - S. END (~50m SECTION).
LOCATION OF TEST PIT
DATE JULY 1, 1993

PROJECT No. 1931
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in heavily weathered, weak rock Existing trench – not frozen. Trench also not frozen at head (S. End) ∴ suspect discontinuous permafrost in surrounding area.	0 0.5 1 2 3 3.5 4	HW-EW	Surficial organics - moss and willows. 0.1 - 0.5 m SANDY COLLUVIUM Brown silty SAND with some fine gravel and occasional cobble / small boulder. Mat'l is moist, loose colluvium. *Abundant small boulders of granodiorite on gnd. surface. 0.5 - 3.5 m HW-EW GRANODIORITE BEDROCK Heavily weathered (HW), broken, very weak granodiorite bedrock. Rock is very well fractured with limonite staining on all fracture surfaces. Rock is v. weak and friable, HW and oxidized to bottom of trench. Weak alteration in rock likely induced accelerated weathering. Occasional zone of extremely weathered, loose residual crs. grained SAND derived from in-situ weathering of crs. gr. granodiorite rock. Some iron staining present on relict joint structure preserved. Depth of weathering not known. FRACTURES in rock are characteristically smooth-rough, planar oxidized (limonite), dry, closely spaced (few cm - 10 cm). (cont'd) ...

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TEST PIT LOG

TEST PIT No. 9076-E
SHEET 2 of 3

PROJECT CASINO - S. END (~50m SECTION)
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 1, 1993.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
			... (cont'd)

Fracture orientation measurements, as chained from S. End of trench:

CH. 7+00m: 038/90 (Parallel to trench) ⊥90
Smooth, planar, continuous, 3-5 cm spacing
004/73E ⊢73

CH. 13+00m: 070/61 NW 61
060/90 90
180/59E ⊢59

CH. 20+00m: 172/52E ⊢52
075/50 NW 50

CH. 24+00m: 152/83 SW 83
058/72 NW 72
075/37 NW 75

CH. 30+00m: 025/90 ⊥90
143/90 ⊢90
071/40NW 40

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TEST PIT LOG

TEST PIT No. 9076-E
SHEET 3 of 3

PROJECT CASINO - N. END (~20m SECTION)
PROJECT No. 1831
LOCATION OF TEST PIT
GROUND ELEVATION
DATE July 1, 1993
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Materials non-frozen. Very easy digging in loose, dry residual sand/silt.	0		Surficial organics - moss and willows.
			0.1-0.5m SANDY COLLUVIUM (Same as for 9076-E - S. End).
	0.5		0.5 -1.5m DRY RESIDUAL SAND AND SILT Tan, loose, dry residual SAND & SILT with some angular granodiorite frags. Mat'l is very uniform, has consistency of soft "sand box" sand.
	9076-E1 1 (non-frozen)		
	1.5		1.5 -2.5 SW, BROKEN GRANODIORITE BEDROCK Broken, hard, slightly weathered (SW) - iron staining on fracture surfaces - granodiorite bedrock.
		SW	
	2		
		Bottom ?	
	3		

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

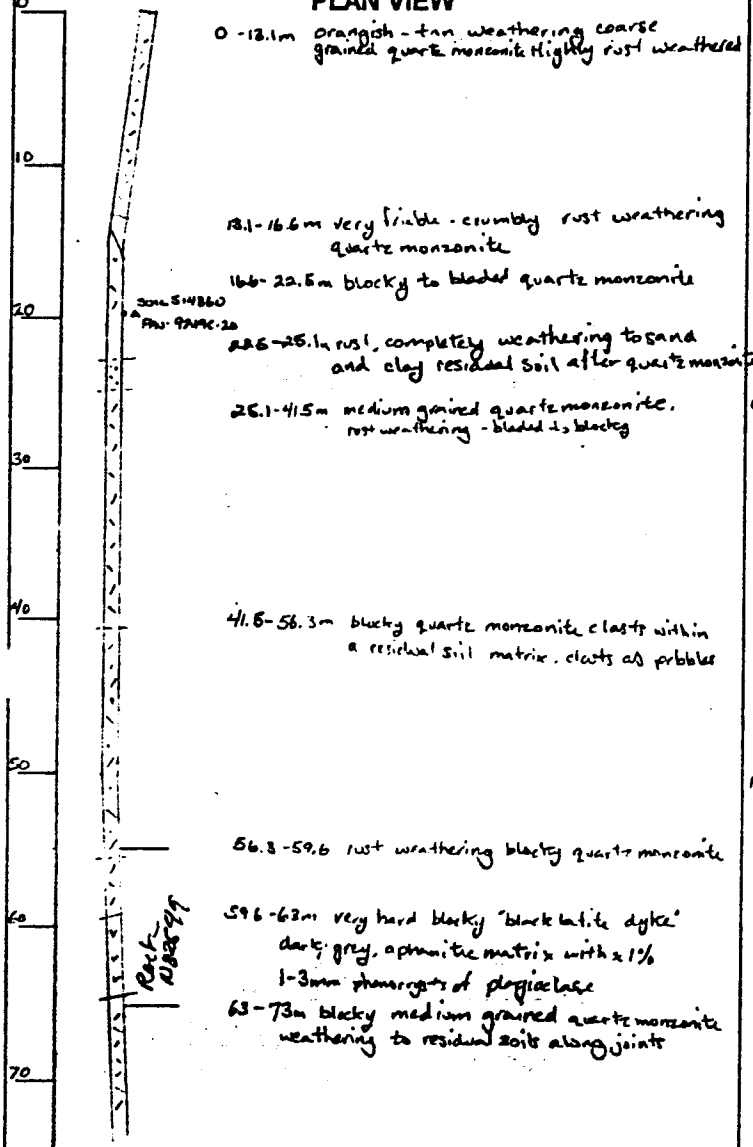
LEASE NO.: 9219
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9219C
NORTHING:
EASTING:
STARTED: September 15, 1993
FINISHED: September 29, 1993

EQUIPMENT TYPE: Hitachi Hoe
EQUIPMENT HOURS: 3
EQUIPMENT COST: @ $130/hr = $390
LABOUR COST: 2 hrs. @ $26.25/hr = $52.50
TOTAL EXPENDITURE: $ 442.50

SCALE 1:500

PLAN VIEW



0 - 13.1m orangish - tan weathering coarse grained quartz monzonite Highly rust weathered

13.1 - 16.6m very friable - crumbly rust weathering quartz monzonite

16.6 - 22.5m blocky to bleached quartz monzonite

22.5 - 25.1m rust, completely weathering to sand and clay residual soil after quartz monzonite

25.1 - 41.5m medium grained quartz monzonite, rust weathering - bleached to blocky

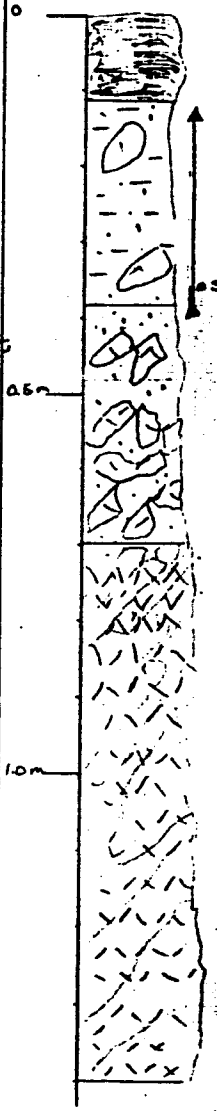
41.5 - 56.3m blocky quartz monzonite clasts within a residual soil matrix. clasts as pebbles

56.3 - 59.6 rust weathering blocky quartz monzonite

59.6 - 63m very hard blocky "black latite dyke" dark grey, aphanitic matrix with ± 1% 1-3mm phenocrysts of plagioclase

63 - 73m blocky medium grained quartz monzonite weathering to residual soils along joints

SOIL PROFILE @ 20 m



0 - dark grey frozen silty organic soil

- sandy - silty dark brown colluvium with 10% clasts, 90% coarse sand and silt.

SOIL S14360
PAN 9219-C-20
- clast supported coarse pebble colluvium. dark brown with 80% matrix of sand

- dark brown bleached quartz monzonite

BEST ATTAINABLE IMAGE

COMMENTS: No glacial or fluvial material

SAMPLE NUMBERS: PAN 9219C-20 Rock N92549, Soil S14360

PANNING CONCENTRATE DESCRIPTION:

PAN 9219 CA-20 Pan sample was taken from the base of silty matrix colluvium overlying residual soils and [illegible] bedrock. [illegible] did not yield any gold. Pan yielded [illegible] magnetite, [illegible]

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TEST PIT LOG

TEST PIT No. 9219 - TP1
SHEET 1 of 4

OJECT Casino
LOCATION OF TEST PIT CH 0 - 50 m
DATE SEPT. 26/92

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MGO

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface: Abdt., closely spaced tall spruce and paper birch. Asst'd. tall willows, thin moss cover, veg. mat. ~ 0.2 m thick
	0.3		0-0.3 FINE GRAINED SILTY TOPSOIL
	9219-TP1 CH. 10m		Brown (rust orange), loose, moist fine sandy silt w/ trace fine organics throughout
			0.3-1.0 m RESIDUAL SAND
	1		Orangish-brown (iron oxide) HW - med. dense residual sand w/ some v. fine gravel, trace silt. Particles are HW, weak. Mat'l is sl. moist at approx. opt. m/c. Fairly well drained - continuous blanket over HW granv bedrock varies from 0.6-1.0 m thick (ave. 0.7-0.8 m)
V. easy digging in res. soils		HW	
			1.0-2.0 m HW, WEAK, BLOCKY GRANODIORITE
Trench fairly dry. Mat'ls non-frozen, well-drained but moist	Fracs. at 1. 054/70 NW 2. 016/76 SE		HW, weak (R1-R2) friable heavily iron oxid. (lim/hw on frac. sfc.), slightly altered (minor chl.) broken, blocky granodiorite bedrock. Decr. weathering w/ depth to MW crs. blocky, weak rock. Blocks range from 3-5 cm at top, down to 10-20 cm at base (2m)
	2	MW	

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TEST PIT LOG

TEST PIT No. 9219 - D
SHEET 2 of 4

OJECT CASINO E-W Arm - Damsite
LOCATION OF TEST PIT CH. 0 - 15m (same as p.1)
DATE Sept. 26/93 CH 5-15m, 45-55m

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC.	0		0-0.3m SILTY TOPSOIL silty topsoil w/ fr. org. (see p.1)
	0.3		0.3-0.6m RESIDUAL SAND Reddish brown, moist crs. HW residual sand w/ some v. fn. gravel and trace silt. → Uniform, loose, well drained. Excellent strong low K, dense compacted fill but only 0.3 m thick
	0.6	MW, blocky Grano-diorite	0.6-1.6m MW, BLOCKY GRANODIORITE BEDROCK mw, badly broken, angular, med. blocky crs. gr. granodiorite Bedrock. Blocks are orthogonal, angular, range from 3-10 cm dia. Trace residual sandy fn. gravel in rock. Rock is med. hard (R2-R3) limonite perv. throughout. Dk. brown colour.
Mod. difficult digging in broken, blocky mw Bedrock	1		
	1.6	Bottom. (refusal)	→ Potential good source of random rockfill ∴ easy excavability and fine blocky.
	2		

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TEST PIT LOG

TEST PIT No. 9219-D
SHEET 3 of 4

OJECT CASINO.
LOCATION OF TEST PIT C4 15-45m
DATE Sept. 26/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC.	0		0-0.3m silty topsoil as above (see p. 1, 2)
	0.3		0.3-0.9m RESIDUAL SAND. Residual sand w/ some fn. gravel, tr. silt, as above (see p. 2)
	0.9		0.9-1.8m HW. WEAK ROCK w/ RES. SAND. Dark brown, loose HW, friable, soft crumbly Granodiorite rock w/ pockets of residual sand
	1	HW Granodiorite w/ Residual sand.	1.8m MW, BLOCKY GRANODIORITE BEDROCK. MW, moderately hard, blocky coarse gr. Granodiorite B/R
	1.8	MW B/R.	
	2		

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TEST PIT LOG

TEST PIT No. 9219-13
SHEET 4 of 4

OJECT CASINO.
LOCATION OF TEST PIT CH. 55-60m (E. end.)
DATE Sept 26/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitach. backhoe UH09LC.	0		0-0.3m silty topsoil as above
	0.3		0.3-1.9m RESIDUAL SAND. orange-brown residual sand w/ some very fine angular gravel (2-5 mm dia.) and trace silt.
	1		1.9m HW, FRIABLE GRANODIORITE B/R HW, badly broken, friable, very weak Granodioritic B/R
	1.9	HW	*nb: CH 45-55m Bedrock is coarse blocky fresh, v. hard coarse grained Granodiorite
	2		

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TEST PIT LOG

TEST PIT No. 9219-E
SHEET 1 of 2

OJECT Casino
LOCATION OF TEST PIT Brg. 114° CH 0-30m (W. end)
DATE Sept. 26/93

PROJECT No. 1371
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL (Snow, cool)
Hitachi backhoe UH 09LC	0		Surface: abundant aspen w/ some spruce along ridgeline. Abundant spruce w/ some aspen downslope to the East. Trees are tall, closely spaced. Topsoil comprises uniform, soft orange sandy silt. approx. 30 cm thick. Very thin veg. mat w/ very thin moss & forest litter cover (~10cm)
	0.2		0-0.2 m Organic Sandy (Residual) Topsoil orange residual sand w/ some silt and rock fragments. topsoil w/ organics
Trench is dry in high perm. fractured weathered bedrock.	Blocks range from 3-1cm from 0.2-0.7m depth	MW badly broken, fine blocky	0.2-1.7 m Broken, Blocky Yukon meta. Bedrock SW, mod. hard to hard broken, blocky Yukon metamorphic (gneiss) bedrock. Bedrock is badly broken, mw, moderately hard from 0.2-0.7 m (fine blocky); slightly broken, coarse blocky from 0.7-1.7 m orange, limonite weathering common on fractured surface. Rock is grey, thin. lam. gneissic rock. Estimated hardness = R4. Well-developed fractures at:
Difficult digging in SW blocky bedrock from 0.7-1.7 m	Blocks 5-15cm dia.	SW sl. broken, crs. blocky Yukon meta. Bedrock (Gneiss)	1.) 116/83 N (parallel to trench) sp. 5-10cm planar, smooth, lim. on surface cont.
	1		2.) 010/90 cross. j't.
Refusal at 1.7m. Rock still fractured. → (: rip another 1-2m).	20-30cm dia. orthogonal blocks	!	Gneiss is grey, very hard, competent, blocky fresh w/ limonite (groundwater weathering) on all fracture surfaces.
	1.7		
	2		

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TEST PIT LOG

TEST PIT No. 9219-E
SHEET 2 of 2

OJECT CASINO
LOCATION OF TEST PIT CH 30-90 m (E. end)
DATE Sept. 26/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC.	0		0-0.3 m Sandy (Residual) Topsoil orangish light brown sand w/ some silt and very fine organics. Material is dry (v. well drained), loose, uniform. increases in thickness downslope to 0.6m from CH 50-90 m
9219-E1	0.3		0.3-1.0 m BROKEN ROCK w/ GRAVELLY RES. SAND orange, loose, crumbly dry hand, angular blocky rock fragments w/ some (~20%) orange residual fine gravelly sand w/ trace silt → mw broken blocky Yukon metamorphic rock fragments are hard (R4). Material is very well drained, dry.
	1	Broken, blocky Yukon metam. (Gneiss).	1.0-1.5 m * BROKEN, BLOCKY, FRESH YUKON META. (GNEISS) Broken, blocky, hard fresh, grey Yukon metamorphic bedrock w/ limonite on frac. surf. Rock is well fractured w/ well developed, smooth, planar fractures at right angles. Fracture orientations: 1. 074/76 N 2. 138/74 SW Block size varies from 5-20 cm = frac. spacing.
Refusal at 1.5 m. in bedrock.	1.5		* Note: occasional zone of HW residual silty sand to bottom of trench. along trench zones up to 5m thick comprise approx. 10% of trench.
	2		

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TEST PIT LOG

TEST PIT No. 9220-A
SHEET 1 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 0 - 15 m
DATE SEPT. 20/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy digging in colluvium. (not frozen)	0		Surface: Abdt. scrub willow / birch w/ some tall and stunted black spruce. Thin moss cover and small bouldery talus blocks from 0.2 - 0.4 m dia., angular fresh, hard. Vegetative mat comprising moss and roots approx. 0.2 - 0.3 m thick. 0 - 1.0 m WELL GRADED COLLUVIUM Brown, moist v. fine SAND and SILT w/ some v. fine gravel, trace clay (matrix approx. 80%), supporting small - large dia cobbles of SW granodiorite rock frags. Frags. range from few cm to 0.2 m dia, angular, hard. *CH. 0 - 5m; 10 - 15m: 1.0 m BLOCKY, FRESH GRANODIORITE BEDROCK Med. - crs. blocky, fresh, hard, crs. Gr. Granodiorite Bedrock. Blocks are angular, range from 0.1 - 0.3 m dia. (v. difficult digging to refusal in broken, blocky Bedrock)
Refusal in blocky, fresh, hard Granodiorite Bedrock	1		
	1.5	Blocky SW-FR, hard Granodiorite Bedrock.	**CH. 5 - 10m: 1.0 - 1.5 m RESIDUAL GRAVELLY MED. - CRS. SAND Dry, orange HW residual gravelly SAND. High perm., non-frost susceptible in-situ. 1.5 m FINE BLOCKY GRANODIORITE BEDROCK
	2		

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TEST PIT LOG

TEST PIT No. 9220-A
SHEET 2 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 14 - 17 (Frozen section)
GROUND ELEVATION
DATE SEPT 20/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Difficult digging in frozen colluvium but can excavate to bedrock.	0		0 - 0.8m F.GR., WELL GRADED FROZEN COLLUVIUM Brown, frozen (hard) v. fine SAND & SILT w/ trace clay & organics (approx. 70%), supporting large gravel to large cobble size granodiorite rock frags. Rock frags. are angular, SW, mod. hard, range from 2 - 15 cm dia. - Matrix is f. grained and frozen. Est. med saturation, Trace to some excess ice as v. thin (≈1mm) ice lenses and crs. crystals. Ice is well bonded to soil ∴ v. hard.
Fairly easy digging in blocky bedrock. (no excess ice - rock well drained).	0.8	SW, blocky Granodiorite Bedrock	0.8 - 1.3m FINE BLOCKY GRANODIORITE BEDROCK Fine blocky bedrock. comprising SW (limonite on rough, planar fracture surfaces), mod. hard rock frags. ranging from 5 - 15 cm dia. Rock is somewhat platy. Incr. block size w/ depth. Rock mat'l is well drained, no excess ice.
Refusal at 1.3m in blocky, SW, mod hard Granodiorite Bedrock.	1		
	1.3		CH. 17 - 28m: 0 - 0.8m FROZEN COLLUVIUM, AS ABOVE 0.8m Refusal in frozen Colluvium (CH. 17 - 20m) 0.8 - 1.1m FROZEN RESIDUAL SAND - Refusal (CH. 20 - 28m)
	2		

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TEST PIT LOG

TEST PIT No. 9220-A
SHEET 3 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 28-40m ; *CH. 44-60m
GROUND ELEVATION
DATE SEPT. 20/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy digging in colluvium.	0		0-0.7m F.GR., WELL GRADED COLLUVIUM Brown, f.gr. well graded Colluvium comprising v.f. sand and silt w/ some gravel and cobbles, trace clay. and organics (peat & roots).
			0.7 - 1.1m RESIDUAL SAND. Orangish brown, HW, dry, med. dense residual sand w/ some fine gravel & trace silt.
Easy digging in residual sands from 0.7-1.1m.	9220-A1 CH.35m 0.7		1.1m BLOCKY GRANODIORITE BEDROCK SW-FR, blocky, mod. hard to v. hard, crs. grained Granodiorite Bedrock. Blocks are angular w/ limonite to rough, sub-planar fracture surfaces, range from 5-30cm dia.
	1		
	1.1	Blocky Grano-diorite Bedrock	1.4m Refusal in Blocky Granodiorite.
	1.4	Refusal	*CH. 44m: Apparent downslope drag (creep) of residual sand over blocky (crs.) grano. bedrock. (Colluvium has apparently dragged underlying residual soils downslope). Note: Occasional pockets of residual sand extends down to approx. 1.7m to bottom of trench. between CH. 44-60m.
	2		

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TEST PIT LOG

TEST PIT No. 9220-A
SHEET 4 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 40 - 44m
DATE SEPT. 20/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Fairly easy digging in colluvium and residual silty sand materials.	0		0-0.7m F.GR, WELL GRADED COLLUVIUM (As Above, see p. 3)
	0.7		0.7 - 1.6m RESIDUAL SILTY SAND. Orange, sl. moist, HW residual silty SAND. Mat'l is uniform, med. dense, non-frozen, heavily iron oxidized throughout. Particles are weak → Typical residual silty sand mat'l. - potential good, dense, low permeability compacted fill mat'l.
	9220-A2 CH. 42m		
	1		
	1.6	Bottom	
	2		

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TEST PIT LOG

TEST PIT No. 9220-A
SHEET 5 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 60-65 m ; CH. 70-90 m (W. End)
DATE SEPT. 20/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MOG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy digging in Colluvium (non-frozen). Difficult digging in broken, blocky bedrock.	0 * 0.4 1 2	Residual sand & broken rock CH. 70-90m. SW-FR, hard, blocky Grano-diorite Bedrock.	0-1.0m F.GR., WELL GRADED COLLUVIUM Brown, loose, moist silty fine sand w/ some gravel and cobbles, trace fine root frags. → well graded, f.gr. colluvium. Mat'l is frost susceptible due to high fines (silt) content. 1.0m SW, BROKEN, BLOCKY GRANODIORITE BEDROCK. SW, mod. hard, crs blocky Granodiorite bedrock (broken). ← Refusal at 1.0m. CH. 65-70m : 0-0.3m BROWN COLLUVIUM (FROZEN) 0.3m Refusal in frozen colluvium - only hoe bucket teeth marks remain *CH. 70-90m : 0-0.4m COLLUVIUM, As Above. 0.4-0.9m RESIDUAL SAND & BROKEN, FINE BLOCKS OF GRANODIORITE. 1.0m FRESH, BROKEN, BLOCKY GRANODIORITE BEDROCK (Refusal).
Fairly easy digging in non-frozen colluvium and residual sand w/ rck from CH. 70-90m.			

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TEST PIT LOG

TEST PIT No. 9220-B
SHEET 1 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT ADJACENT & PARALLEL TO AIRSTRIP
GROUND ELEVATION
DATE SEPT. 20/93 CH. 0-20m (North End)
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Fairly easy digging in surficial alluvium. Trench dry, non-frozen. walls stable, well drained. Very difficult digging in broken rock at 0.9m. Est. rip down another 1 m only for foundation prep. for millsite structures.	0 0.9 1 1.3 2	 	Surface: Abdt. scrub willow w/ some sparse tall spruce and stunted black spruce. Thick moss cover and crs. blocky talus. Trench not frozen. Colluvium over broken rock. 0 – 0.9m F.GRAINED, WELL GRADED COLLUVIUM Brown, moist – v. moist, firm v.f. sandy SILT w/ some v.f. gravel and trace clay + organics (matrix compr. approx. 80%), supporting small angular cobbles and occasional small boulder. Clasts are angular, hard granodiorite frags ranging from few cm to 30cm dia. → well graded, fine grained Colluvium. 0.9 – 1.3m BROKEN, BLOCKY FRESH GRANODIORITE BEDROCK Fresh, hard, crs. blocky granodiorite bedrock. rock is broken into angular blocks ranging from 10 – 40cm dia. Good foundation for millsite structures. Fractures are rough, planar, SW (limonite on surface), dry. No ice or groundwater in top (north) half of trench 1.3m Refusal in sl. broken, crs. blocky Granodiorite Bedrock. Fracture Orientations: CH. 10m @ 1.3m depth. 1. 000/80W 2. 126/90 (vertical) 096/76N 3. 034/20SE Rough, planar, continuous, 10-20cm spacing. at right angles.

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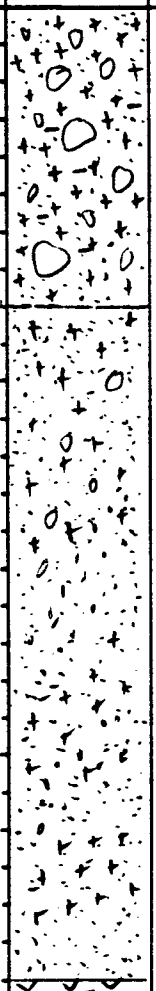
TEST PIT LOG

TEST PIT No. 9220-B
SHEET 2 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 20 - 40m
DATE SEPT. 20/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi Backhoe UH09LC Fairly easy digging in colluvium and residual sands.	0 0.4 1 1.3	 FR, crs. Blocky Granodiorite Bedrock	Alternating sections of*: 1. Brown colluvium (as above - see p 1) over broken, crs. blocky, fresh, v. hard granodiorite and; 2. Brown colluvium ranging from 0.3 - 0.9m thick; over orange, HW residual fine gravelly sand w/ some silt and cobbles.; over SW, hard blocky granodiorite bedrock at 1.6m depth. * Approx. 50% of trench from 20 - 40m ch. of each soil profile.
V. difficult digging in broken, blocky Bedrock at approx. 1.3m.	1.6 Refusal 2		

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TEST PIT LOG

TEST PIT No. 9220-B
SHEET 3 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 40 - 55 m
DATE Sept. 20/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0 - 0.6m WET, BROWN, F.GR COLLUV. w/ ORGANICS. Brown, wet sandy silt w/ some fine gravel and black organics (peat) - approx. 60%; with some (approx. 20%) angular, hard cobbles and rare small boulder.
Easy digging in loose, wet residual soil from 0.6 - 1.8m.	0.6		0.6-1.8m HW, RESIDUAL SAND, some Silt / Fn. Gravel. Orange, loose, v. moist - wet. HW residual sand w/ some silt and fine gravel. Mat'l also contains some MW, weak granodiorite rock frags. (approx. 10%) from 3-10cm dia. Also occ. black sulphide veins steeply dipping & cutting across trench up to few cm thick.
	9220-B1 CH. 52m		
	1		
CH. 40-50m: (only) Groundwater Table at 1.8m. in broken, MW Bedrock.	1.8	MW weak Granodiorite	1.8m MW, WEAK GRANODIORITE BEDROCK: MW, limonite & hematite throughout, weak (R2) blocky Granodiorite Bedrock.
	2		

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TEST PIT LOG

TEST PIT No. 9220-B
SHEET 4 of 5

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 55 - 90 m
GROUND ELEVATION
DATE SEPT. 20/93.
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Easy digging in moist, f. grained Colluvium w/ organics.	0		0-0.9m. F.GR. COLLUVIAL TOPSOIL w/ some GRAVEL & COBBLES. Brown, firm, moist SILT w/ some v.f. sand, trace clay + fine organics (approx. 90%), supporting crs. gravel to small cobble size granodiorite rock frags. (angular, hard, sw) from 3 - 10cm dia. (approx 10%). Mat'l is well graded w/ some black organic-rich silt layers Mat'l is too wet and contains too much organics for fill mat'l → must be removed and stockpiled → topsoil.
Moderately difficult digging in broken, blocky, fresh Granodiorite Bedrock. from 0.9 - 1.4m.	0.9		0.9 - 1.4m BROKEN, BLOCKY GRANODIORITE B/L V. hard, fresh, blocky crs. gr. Granodiorite Bedrock. Blocks are angular, range from 10-30cm dia. Rough, sub-planar fracture surfaces.
	1	FR V.hard, Blocky, broken Grano-diorite Bedrock	
	1.4		← Refusal at 1.4m. in broken, blocky Granodiorite Bedrock.
	2		

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TEST PIT LOG

TEST PIT No. 9220-B
SHEET 5 of 5

PROJECT CASINO
LOCATION OF TEST PIT CH. 90-100m (S. End)
DATE SEPT. 20/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Easy digging in colluvium and HW, residual sandy mat'ls.	0		0 – 0.6m BROWN, WET, F. GR. COLLUVIUM w/ ORGANICS Brown, wet, f. grained colluvium comprising silty f. sand w/ some v. fine gravel and organic-rich (black) peaty layers near surface. Mat'l is wet and loose to slightly firm.
	0.6		0.6 – 1.5m RESIDUAL GRAVELLY SAND w/ SILT Orange, moist (at approx optimum moisture content) residual, HW, fine gravelly well graded SAND w/ some silt. Mat'l is fairly well drained and stable. → Potentially good construction mat'l. Low perm., dense compacted fill.
	1		
Frozen at 1.5m depth in residual SANDS.	1.5	Frozen	1.5m FROZEN RESIDUAL SANDS. Trench bottom frozen in residual SANDS. Occasional broken, HW, granodiorite zone on bottom from CH. 90-100m suggests bedrock nearby.
	2		

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9220-C
SHEET 1 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0 - 20m (East End)
GROUND ELEVATION
DATE SEPT. 21/93
LOGGED BY MOG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Moderately difficult digging in cobbly / bouldery, well graded Colluvium.	0		Surface: Abdt. scrub willow, some tall spruce. (CH. 0-20m). Stunted black spruce from CH. 20- (permafrost). Thick moss and boulder talus cover. Talus comprises sub-rounded, large boulders from 0.2 - 1.0m dia. Vegetative mat approx. 20 cm thick. 0 - 1.0m WELL GRADED, COBBLY / BOULDERY COLLUVIUM. Mixture of moist, brown, med. dense silty sand and v. fine gravel matrix (approx. 50%), and cobbly boulders (approx. 50%). Cobbles & boulders comprise fresh, v. hard, crs. grained Granodiorite and range from 0.1 - 0.6m dia. Matrix supports cobbles / boulders. Trace fine organics (roots) throughout ⇒ well graded colluvium w/ cobbles and boulders.
Very difficult digging to refusal in slightly broken Granodiorite Bedrock.	1	Hard, fresh, slightly broken Granodiorite Bedrock.	1.0m HARD, FRESH GRANODIORITE BEDROCK Hard, grey, fresh, slightly broken, very crs. blocky crs. grained Granodiorite Bedrock.
	2		

KNIGHT AND PIESOLD LTD. CONSULTING ENGINEERS	TEST PIT LOG	TEST PIT No. 9220-C SHEET 2 of 3

PROJECT CASINO — PROJECT No. 1831

LOCATION OF TEST PIT CH. 20-50m* — GROUND ELEVATION

DATE SEPT. 21/93. — LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Permafrost table varies from 0.3-0.5m. Very difficult digging — can only scrape — in frozen colluvium. Estimate 30% excess visible ice in f. grained matrix of colluv. Ice is present as thin lenses. up to 2cm thick. *Note: Trench frozen under moss from CH. 50 - ~100m — did not attempt to excavate (v. difficult digging).	0 CH.30-50m 0.3 CH.20-30m 0.5 1 2	Broken, fresh, v.hard, crs. grained Grano-diorite Bedrock.	Vegetation: Contact w/ stunted black spruce trees to the west → Permafrost. Surface: Thick moss and small, angular fresh, hard Granodiorite boulder talus. Black organics (peat) under moss → frozen from CH. 30-50m. 0 - 0.5m WELL GRADED COLLUVIUM (As Above) Brown, well graded Collavium, As Above (see p.1). Mat'l is v. moist to wet and comprises brown sandy silt and v. fine gravel w/ trace clay & organics (approx. 60%), supporting fresh, hard Granodiorite cobbles w/ some small boulders (approx. 40%). - Permafrost at approx. 0.5m depth between CH. 20-30m. Permafrost table shallows to 0.3m depth from CH. 30-50m. - Melting permafrost in Colluvium forms pools of flowing water in bottom of trench at depths varying between 0.3-0.6m. 0.5m BROKEN, FRESH BLOCKY GRANODIORITE B/R. Broken, v. crs. blocky granodiorite bedrock between CH. 20-30m. CH. 30-50m: Refusal in frozen Colluvium - did not reach bedrock but suspect at shallow depth.

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TEST PIT LOG

TEST PIT No. 9220-C
SHEET 3 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT 25m Section upslope from road
GROUND ELEVATION
DATE SEPT. 21/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in colluvium and residual soil. Trench is dry, walls stable, well drained. fairly easy digging in weathered, badly broken, heavily iron oxidized Granodiorite Bedrock.	CH. 15-25m. 0 0.7 1 1.1 1.6 2	MW-HW Badly broken, oxidized Granodiorite Bedrock. Bottom	Vegetation: Scrub willows w/ some stunted black spruce. Thick moss and angular large boulder talus on surface. CH. 0-15m: Frozen Colluvium and black peaty organics, as above (see frozen Collurium, page 2). CH. 15-25m (road): 0-0.7m FINE GRAINED, WELL GRADED COLLUVIUM. Brown, moist fine sandy silt w/some v. fine gravel and organics, trace clay matrix (approx. 80%), supporting crs gravel to small boulder size granodiorite rock frags. (approx. 20%). Clasts are angular, blocky, fresh, v. hard & comprise crs. grained granodiorite. Organics (roots) throughout. 0.7-1.1m RESIDUAL SILTY SAND Orange residual, dry silty sand w/ trace fine gravel. Mat'l is uniform, loose-med. dense, well drained, not frozen. 1.1-1.6m MW-HW, BADLY BROKEN GRANODIORITE BEDROCK MW-HW, broken, fine blocky soft Granodiorite Bedrock. Limonite/hematite on frac. sfc & pervasive throughout rock. Apparent shear fabric parallel to thin galena vein at: 177/90. Rock is badly broken. 2-5cm fracture spacing.

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TEST PIT LOG

TEST PIT No. 9220-D
SHEET 1 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 0 - 15m
DATE Sept. 27/93 (East, upslope end)

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface: Thick stand of tall black spruce trees w/ some alder & occasional small paper birch. Thick (25cm) moss cover w/ lichen & Labrador tea. V. thin (approx. 0.3-0.4m) vegetative mat - Spruce tree roots shallow in v. moist brown colluvium.
			0-1.5m WELL GRADED, V. MOIST COLLUVIUM. Brown, v. moist, med. dense sandy silt w/ some fine gravel matrix (approx. 60%), supporting small cobble - sm. boulder size, fresh - SW, hard granodiorite rock frags. Rock frags. are angular, hard crs gr. granodiorite blocks ranging from 0.1 - 0.8m dia. Mat'l is well graded, poorly sorted and massive. Fines v. moist., est. low plasticity, low permeability.
	1		
	1.5		1.5 - 2.0m RESIDUAL SAND & ROCK. Loose, orange residual sand and blocky hard granodiorite rock blocks. (No rock - only orange residual sand - from CH. 5-15m)
Permafrost Table 2.0m.	2		2.0m Permafrost Table. Residual sands frozen & hard w/ trace excess visible ice (est. 20%) as fine ice crystals. Est. low - med. saturation.

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TEST PIT LOG

TEST PIT No. 9220-D
SHEET 2 of 4

PROJECT CASINO.
LOCATION OF TEST PIT CH. 15- 40m
DATE Sept. 27/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC.	0		0-0.8m Well Graded Colluvium (same as above - see p.1)
			0.8 - 1.4 m RESIDUAL GRAVELLY SAND. Orange, HW residual fine gravelly sand. Material is slightly moist, well drained. Particles are very angular, weak, comprised of HW granodiorite.
	0.8		1.4 m HW, BROKEN, FRIABLE GRANODIORITE BEDROCK. Weak, HW, friable, badly broken Granodiorite bedrock. Fragments very angular, weak, range from 2-10 cm dia. Limonite stain pervasive throughout rock. Hardness = R1. (weak rock). Occasional zone of hard, fresh very coarse blocks of Granodiorite at 1.4 m along trench. Blocks up to 1m dia. comprise approx 10% of trench from CH. 15- m.
	1.4		1.7 m Permafrost Table * Frozen, residual HW granodiorite sand/ decomposed bedrock. Very hard - refusal w/ backhoe bucket.
Permafrost table. V. hard, frozen (refusal)	1.7		
	2		*Note: permafrost table shallows to 1m depth (~0.2m into residual sands) at CH 40m

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TEST PIT LOG

TEST PIT No. 9220-D
SHEET 3 of 4

...OJECT CASINO
LOCATION OF TEST PIT CH. 40-60m & CH. 85-105m (W. end)
DATE Sept. 27/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC.	0		0-1.1m Well Graded Colluvium (same as above, see p.1, 2)
	9220-D1 CH. 50m.		1.1-2.2m Residual Fine Gravelly Sand. orange, HW, dry (well drained) residual fine gravelly sand. Particles angular, very weak, as above.
	1		
	1.1		2.2m MW-HW, Badly Broken Granodioritic Bedrock. MW-HW, badly broken, fine blocky granodiorite bedrock. Rock fragments are very angular, moderately hard (R2-R3) range from 3-8 cm dia. Limonite stained throughout coarse granular granodiorite
	9220-D2 CH. 50m		
	2		BEDROCK 2.2m
	2.2		

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TEST PIT LOG

TEST PIT No. 9220 - D
SHEET 4 of 4

.OJECT CASINO.
LOCATION OF TEST PIT CH 60 - 85m
DATE Sept. 27/93

PROJECT No. 831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC.	0		0-1.0m Well Graded Colluvium (same as above, see previous pages)
			1.0 - 1.5m Residual Fine Gravelly Sand * (same as above, see p.3)
			1.5m * Permafrost Table - frozen mw residual fine gravelly sand very hard - refusal w/ hoe. Permafrost table shallows to 1m in brown colluvium, downslope. Permafrost table at 1m depth from CH 65-85m
	1		* Note: • Residual sandy material is fairly stable during thaw due to coarse grained granular texture.
			Non-Frozen. • Melting permafrost in colluvium (CH 65-85m) produces saturated, flowing mud w/ rocks → "thaw unstable" material. Not suitable for construction material!
Permafrost Table. (Frozen Residual sand).	1.5		
			Frozen
	2		

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TEST PIT LOG

TEST PIT No. 9221 - A
SHEET 1 of 2

PROJECT CASINO
LOCATION OF TEST PIT CH. -25 m (N. end)
DATE Sept. 29/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH 09LC	0		Surface: Abundant tall, thick spruce on South facing slope. Some arctic birch willows. Thin moss cover. Thin (0.2-0.3 m) vegetative mat comprising moss, fresh root network.
	0.4		0-0.4 m SILTY TOPSOIL. Rust brown, soft clayey silt w/ some fine organics and occasional small granodiorite boulders. Material is slightly moist, very uniform w/ trace very fine sand and fine gravel
Very easy digging from surface to bottom of trench in loose, dry residual sands	1		0.4 - 3.4 m RESIDUAL SAND. Cream coloured, loose - medium dense, uniform dry residual Granodiorite sand. Original texture of coarse grained (salt and pepper texture) granodiorite preserved. Trace silt. Material is very uniform, similar to granodiorite sand at 9034-A. Relict (rust stained) jointing apparent.
No permafrost or groundwater in trench. Walls dry, fairly stable, near vertical cut staying open to 3m depth	2		→ excellent source of sandy, dry fill. Very easy excavation. (or filter / drain mat'l).
	3		3.4 m WEAK, FRIABLE GRANODIORITE B/R. HW, hematite stained, very weak friable Granodiorite bedrock. Breaks apart to gravelly sand when excavated.
	3.4	Weak, Friable Grano-diorite B/R.	* note: depth of trench shallows to 2.3 m at CH. 8-
	4		

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CONSULTING ENGINEERS

TEST PIT LOG

TEST PIT No. 9221-A
SHEET 2 of 2

PROJECT CASINO
LOCATION OF TEST PIT CH. 25- (S. end)
DATE Sept. 29/93

PROJECT No. 1921
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC	0		0-0.5m Fine Grained (Silty) Colluvial Topsoil Dark brown, med. dense, moist, slightly plastic clayey silt and very fine gravel w/ some sand. Fine organics top 0.1m only. Occasional cobble and small granodiorite boulder → fine grained (silty) mod. well graded colluvial topsoil.
	9221-A1 CH. 50m		
* Approx. 10% of trench encountered permafrost at approx. 1m depth. Very difficult, hard digging (only hoe bucket teeth marks remain)	0.5		0.5-2.0m RESIDUAL FINE SAND * Light orangish tan, dry, med. dense residual fine sand w/ trace - some silt, grading down into coarse residual granodiorite sand (as above, see p.1). Relict, iron-stained jointing throughout.
	1		* residual sand increases to >2.0m thick downslope from CH. 35-100m (South End)
	2	HW, weak Granodiorite Bedrock	→ Excellent potential source of sandy fill since material is dry, abundant, easy to excavate.
			* Residual sand is fairly competent material. Likely will not break apart much during compaction since particles quite competant. (Contrast to HW, orange residual sand found elsewhere)
	3		2.0m HW, WEAK GRANODIORITE ROCK (DECOMPOSED) HW, decomposed Granodiorite. Weak, very easy excavation. Increasing density with depth as weathering decreases. Breaks up into gravelly sand when excavated.
	4		

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TEST PIT LOG

TEST PIT No. 9221-B
SHEET 1 of 3

PROJECT CASINO
LOCATION OF TEST PIT CH. 0-20m. (NE End)
DATE Sept. 20/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MOG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Fairly easy digging in colluvium and underlying residual sandy soils. Trench is dry, no groundwater or permafrost from CH. 0-20m.	0		Surface: Abdt. scrub willow w/some tall spruce. Thick moss cover w/ some cls. blocky, fresh Granodiorite talus 0 - 0.8m F.GR., WELL GRADED COLLUV. w/ ORGANICS Brown, moist silty SAND w/some fine gravel and cobbles, and trace clay + fine organics. Occasional black, organic-rich peaty layer. Clasts are angular, MW, weak to mod. hard, blocky granodiorite frags., ranging from 3-10cm dia., and are matrix supported. → Fine grained, v. moist, well graded Colluvium transported downslope.
	0.8		
	1		0.8 - 1.8m RESIDUAL GRAVELLY SAND Orange, (HW - limonite stained), residual gravelly sand w/ some small cobble size MW granodiorite rock frags., and trace silt. Mat'l is moist, granular, free-draining. Estimate 30% cobble size rock frags., mod. hard, MW, angular from 3-15 cm dia. → Good, low k, dense compacted fill mat'l
	1.8	MW Blocky Grano-diorite	1.8m MW, BROKEN, BLOCKY GRANODIORITE BEDROCK MW, broken, blocky, iron stained, weak-mod. hard (R2), weathered Granodiorite Bedrock.
	2		

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TEST PIT LOG

TEST PIT No. 9221-B
SHEET 2 of 3

PROJECT CASINO
LOCATION OF TEST PIT CH. 20-45 m.
DATE SEPT 20/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Trench frozen from CH. 20- m Moderately difficult digging in top 1.0 m of colluvium due to partially frozen condition. Refusal in frozen colluvium at 1.0m. Water flowing in bottom of trench. Depth of groundwater table = depth to Permafrost ~1.0m.	0 Permafrost 1 2	Refusal (Frozen)	0 – 1.0 m SANDY COLLUVIUM w/ ORGANICS Brown, gravelly SAND and gravel w/ cobbles, silt and organics. Well graded granular, sandy colluvium. Matl is v. moist. Frozen at approx. 1m.

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TEST PIT LOG

TEST PIT No. 9221-B
SHEET 3 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 45 - 90 m (W. End on Road)
GROUND ELEVATION
DATE SEPT. 20/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe CH09LC. Fairly easy digging in Colluvium. Trench walls dry and stable. residual soils well drained.	0		0 - 0.9m BROWN, WET, F. GRAINED, WELL GRADED COLLUVIUM Brown, v. moist silty fine sand w/ some v. fine gravel and cobbles, trace v. fine organics and clay. Mat'l is f. gr., well graded Collavium. - Too wet for construction mat'l Est. 20% angular, mod. hard, cobble-size Granodiorite rock frags., ranging from 3-10cm dia., supported in v. moist fine grained matrix.
Very easy digging in f. gravelly residual sands. from 0.9-1.9m (non-frozen)	0.9 1		0.9 - 1.9m RESIDUAL GRAVELLY SAND Orange, HW, sl. moist granular residual v.f. gravelly SAND. Mat'l is well drained, loose. Particles are weak, angular composed of HW & decomposed granodiorite. (typical residual mat'l). - Potential good source of low permeability, dense compacted fill mat'l. - occasional crs. gravel layer up to 20cm thick along trench.
Frozen section in residual gravelly sands at ~ 1.3m depth from CH. 60-85m	9221-B1 CH. 70m. (Gravelly Sand).		
Very difficult digging at 1.9m.	1.9 2	MW	1.9m MW, BROKEN GRANODIORITE BEDROCK MW, broken, mod hard Granodiorite Bedrock. Note: Residual gravelly SAND pinches out at road to 1m colluvium over broken fine blocky, MW Granodiorite w/ some residual sand.

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TEST PIT LOG

TEST PIT No. 9221-C
SHEET 1 of 3

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 0 - 30 m (East End)
GROUND ELEVATION
DATE SEPT. 28/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface: Abdt. thick tall spruce trees w/ occasional small paper birch. Abdt. Labrador tea and moss cover. Vegetative mat comprises 0.3m thick moss, fresh root network.
	0.4		0-0.4m ORGANIC-RICH COLLUVIUM. Dark brown, firm, moist clayey silt w/ some sand and fine gravel matrix (approx 60%), supporting SW, hard, sub-rounded cobble size granodiorite rock frags. (approx 40%). Also, trace fresh roots throughout. Mat'l is sl. plastic, much greater than optimum moisture content.
	1		0.4 - 1.2m BROWN, WELL GRADED COLLUVIUM. Light brown, med. dense fine sandy silt w/ trace fine gravel and clay matrix (approx. 50%), and SW, mod. hard angular Granodiorite cobbles. Mat'l is generally matrix supported, competent, slightly moist. No organics. - Good source of random fill. Granodiorite clasts range from 5-15 cm dia., blocky.
	1.2		
	1.7	Blocky, fresh Granodiorite Bedrock	1.2 - 1.7m RESIDUAL BROKEN ROCK & SANDY GRAVEL. Orange, loose, crumbly, dry (well drained) residual sandy gravel and broken rock. Mat'l comprises approx. 70% MW, weak-
	2		

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TEST PIT LOG

TEST PIT No. 9221-C
SHEET 2 of 3

PROJECT CASINO
LOCATION OF TEST PIT CH 0-30m (cont'd)
DATE Sept. 28/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL ... (cont'd)
			mod. hard Granodiorite rock frags. - angular ranging from 2 - 10 cm dia. (fine blocky), and dry residual sandy fine gravel.
			1.7 m BLOCKY, FRESH GRANODIORITE BEDROCK.
			Broken, v. crs. blocky, crs. grained, fresh, v. hard Granodiorite Bedrock.
			* Note: Blocky granodiorite only outcrop along ½ length of trench from CH. 0-30m. Remaining portion bottomed in residual broken rock & sandy gravel. Therefore suspect undulating contact of fresh, blocky Granodiorite Bedrock.

KNIGHT AND PIESOLD LTD. CONSULTING ENGINEERS	TEST PIT LOG	TEST PIT No. 9221-C SHEET 3 of 3

PROJECT CASINO — PROJECT No. 1831

LOCATION OF TEST PIT CH. 30-100 m (West End) — GROUND ELEVATION

DATE Sept. 28/93. — LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC	0		0-0.3m ORGANIC-RICH COLLUVIUM (same as above, see p. 1).
	0.3		0.3-0.9m BROWN, WELL GRADED COLLUVIUM Brown, med. dense, sl. moist silty sand w/ some fine gravel, matrix (approx. 40%), and crs gravel to small boulder size, angular SW, mod. hard Granodiorite rock frags. Mat'l is primarily matrix supported. Est. 60% rock frags. ranging from few cm to 0.3 m dia → med. blocky. - Mat'l est mod. high perm. Likely good random fill (soil + rock fill) since only sl. moist, v. well graded, poorly sorted, massive deposit.
	0.9		
	1		0.9-1.6m RESIDUAL SAND* & ROCK FRAGS. HW, orange residual fine sand w/ some fine gravel and silt (approx. 50%), supporting MW-SW, hard angular blocky, broken Granodiorite rock frags. (approx. 50%). Rock frags. range from 5-30 cm dia.
Permafrost Table @ approx. 1.5m along 50% of trench from CH. 30-100 m.	1.5		
	1.6		
	2		*Note: Occasional zone of permafrost at approx. 1.5m depth along approx. 50% of trench from CH. 30-100 m. PF table in residual sandy mat'l - v. hard est. 10% excess interstitial, well bonded ice.

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TEST PIT LOG

TEST PIT No. 9222-A
SHEET 1 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 0-2m (West End)
DATE SEPT. 20/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Lack of stunted spruce trees suggests area was once cleared, and indicates no permafrost Easy digging in topsoil and residual, weathered soils at head of trench. Trench head dry, non-frozen, mat'ls well drained.	0 0.3 9222-A1 1 1.3 2	Granular clay gouge Limonite Hem bands	Vegetation: Abundant willow & scrub birch. Thin moss cover on non-frozen section from 0-20m 0-0.3m BROWN F. GR. TOPSOIL w/ COBBLES & ORGANICS Brown, dry fine sandy SILT w/ some v. fine gravel matrix (approx. 80%), supporting large gravel - sm. cobble size granodiorite rock frags (approx. 20%). Clasts are sub-angular, MW, mod. hard, range from 2-15cm dia. Trace fine root frags. throughout. → F. gr. Colluvial Topsoil w/ organics. 0.3 - 1.3m HW, LOOSE RESIDUAL SANDS. Orangish brown (HW and oxidized), loose, dry residual SAND w/ trace silt and v. fine gravel. Mat'l comprises HW (limonite and hematite throughout) and steeply dipping, alternating layers of orange and black HW residual sandy mat'l w/ 5cm thick, EW cream coloured granular clay gouge zone at: 130/45°SW.

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TEST PIT LOG

TEST PIT No. 9222-A
SHEET 2 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 2 - 20 m
DATE SEPT. 20/93. CH. 20 - 30 m*

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH10LC Moderately difficult digging in boney colluv. from 0-1.3m. Trench partially frozen but can dig to bedrock. Est. easy ripping to bedrock w/ heavy equip. Refusal at 1.4 m. * Difficult digging in frozen colluv. from CH. 20-30m	0 1 1.4 2	FR Bottom	Vegetation: As Above (see p. 1) 0-1.3m BROWN COLLUVIUM Brown, moist sandy SILT w/ some v. fine gravel, trace clay (approx. 60%), supporting large cobble to large boulder size granodiorite rock frags. (approx. 40%). Clasts are angular, blocky, fresh - SW, v. hard crs. gr. granodiorite. Trace v. fine organics throughout. → Massive, well graded colluvium w/ boulders (talus blocks). 1.3m BROKEN, FRESH, HARD GRANODIORITE BEDROCK slightly broken, fresh-SW, hard, crs. blocky Granodiorite Bedrock. Well developed fractures at: 1. 085/90 (vertical) 2. 016/78 (NW - rough, planar, stw fracs. Refusal at 1.4m in slightly broken, SW, hard competent granodiorite bedrock. CH. 20-30m*: (FROZEN COLLUVIUM) Same soil profile as above but colluvium is frozen. Trace excess visible ice as fine xtals, no lenses apparent. Broken med. blocky bedrock at 1.3m → refusal.

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TEST PIT LOG

TEST PIT No. 9222-A
SHEET 3 of 4

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT CH. 30 - 40m
GROUND ELEVATION
DATE SEPT 20/03
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Active layer approx. 0.4m thick under moss vegetation. (layer of annual freeze-thaw). Very difficult digging in frozen residual SANDS at 0.5m. Permafrost table at approx. 0.4m	0 Active Layer Permafrost table 0.5 1 1.2 Bottom (frozen) 2		Vegetation: Abdt. scrub birch w/ some stunted black spruce trees up to 7' tall (no tall willows as at head of trench). Thick moss. 0-0.5m BROWN COLLUVIUM. Brown sandy SILT w/ some v. fn. gravel (approx. 60%), supporting large cobble - sm. boulder size rock frags. (approx. 40%). Matl also comprises trace - some fine fibrous organics (root frags). 0.5 - 1.2m FROZEN, HW, RESIDUAL SAND Orange, frozen, residual SAND w/ some silt. matl is hard (frozen) w/ pocket of ice-rich zones comprising up to 30% excess ice by vol. of clear hard ice as horiz. lenses and blebs up to 6cm dia. Abdt. lensing - continuous 1-3 mm thick spaced 0.5cm apart. → Residual SANDS are fine w/ silt ∴ are frost susceptible.

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TEST PIT LOG

TEST PIT No. 9222-A
SHEET 4 of 4

PROJECT CASINO
PROJECT No. 1121
LOCATION OF TEST PIT CH. 40 - 90m (East End)
GROUND ELEVATION
DATE SEPT. 20/93
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very difficult digging in frozen colluvium.	0		Vegetation: As Above (see p. 3) 0 - 1m FROZEN, ICE-RICH COLLUVIUM Brown, frozen (hard) fine sandy silt w/ some v. fine gravel, trace clay (approx. 60-70%), supporting large cobbles and small boulders (approx. 30-40%). Clasts are angular, fresh, hard crs. grained granodiorite. F. grained matrix is ice-rich (est. 20% excess visible ice present as continuous 1-2mm thick lenses spaced 0.5 cm apart - lenses are horizontal & planar). Cobbles & boulders range from 0.1-1m dia.
	9222-A2*		
	(Frozen)		
Refusal at 1m depth in colluvium.	1	Bottom (refusal)	Note: Trench bottomed in colluvium at approx. 1m. suspect bedrock not greater than 2m depth below ground surface.
	2		*Sample: 9222-A2: - Frozen colluv. from spoil pile at CH. 50m (matrix only).

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TEST PIT LOG

TEST PIT No. 9222-C
SHEET 1 of 1

PROJECT CASINO
LOCATION OF TEST PIT 55m Trench at 094° BRG.
DATE SEPT. 22/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very difficult digging in frozen (permafrost) colluvium. Permafrost table near ground surface under thick insulating moss cover. Refusal in permafrost / colluvium at approx. 0.9m along entire 55m length of trench.	Permafrost 0 Ice lenses 0.9 Bottom (Refusal) 1 2		Surface: Scrub birch willow and thick soft, hummocky moss/lichen w/ some sparse, stunted black spruce trees up to 12ft. tall. (Typical permafrost vegetation of surrounding area). - Permafrost table immediately under moss at approx 0.3 m depth. 0-0.9m FROZEN, ICE-RICH, FINE GRAINED (SILTY) COLLUVIUM w/ ORGANIC LAYERS Brown, frozen, ice-rich colluvium comprising fine sandy silt w/ some clay and organics (matrix approx. 80%), supporting large gravel to small angular blocky cobbles (approx. 20%). Clasts are angular, blocky, fresh, hard granodiorite & range from few cm up to 0.15m. Rare boulder up to 0.5m dia. • Colluvium is ice-rich, frozen (hard). Estimate 20% excess visible ice present as thin (1-3mm) discontinuous, undulating, clear ice lenses throughout silty matrix. Ice is clear, hard, well bonded. • Occasional interbed of black peaty organics also present in colluvium up to 20cm thick. • Fine grained colluvium loses all strength when thaws. Mat'l thaws to soft, saturated silts, fine sands w/ some v. fine gravel & clay. Mat'l thaws to soupy mess due to high total moisture content (frozen + non-frozen water). • Sandier mat'l exhibits some strength after thawing and draining in spoil pile. (Estimate 30-40% of mat'l).

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TEST PIT LOG

TEST PIT No. 9222-D
SHEET 1 of 4

PROJECT CASINO
LOCATION OF TEST PIT 048° SECTION (OLD CUT) - E-W LEG.
DATE SEPT. 21/93. CH.0 - 10m (West End)

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy excavation in colluvial topsoil and residual sandy soil from 0 - 1.5m All mat'ls fairly dry and well drained. Trench is dry - no groundwater or permafrost or evidence thereof. Trench walls are stable and very dry. Fairly easy digging in weathered, broken granodiorite bedrock.	0 0.5 9222-D1 CH.5m. 1 1.5 2	HW, Badly broken, fine blocky Granodiorite Bedrock MW Bottom	Vegetation: Tall willows and tall white (?) spruce trees up to 40' tall. Occasional birch. Very thin moss/lichen cover and small boulder talus. 0-0.5m FINE GRAINED COLLUVIAL (SILTY) TOPSOIL - WELL GRADED. Brown, slightly moist, firm v. fine gravelly silt w/ some sand, crs. gravel and small cobbles. Clasts (gravel & cobbles) comprise weathered angular, mod. hard granodiorite & make-up approx. 20% of mat'l. Trace root frags. throughout → colluvial topsoil produced by organic degradation of host residual, weathered granodiorite rock & soil. Mat'l is fairly well graded. 0.5-1.0m RESIDUAL SAND w/ SILT Orange, dry, loose residual fine-med. grained SAND w/ some silt & trace v. fine gravel. Mat'l is well drained and grades down to HW, badly broken granodiorite rock w/ some residual sand matrix. → Excellent potential source of dense, low perm. fill since mat'l approx. at optimum moisture & particles break down when compacted. 1.0 - 1.5m BROKEN, WEAK GRANODIORITE B/R HW, weak, badly broken, weathered Granodiorite Bedrock

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TEST PIT LOG

TEST PIT No. 9222-D
SHEET 2 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 10 - 41m*; CH. 52 - 67 m*
DATE SEPT 21/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC. Easy digging in topsoil and residual sandy soil.	0		*Note: • Only bottom 0.5m of trench cleaned out. Assume approx 0.5m colluvial silty topsoil over approx 0.5m residual sand. • Blocky broken Granodiorite is exposed in bottom 0.5m of trench
	0.5		0-0.5m SILTY COLLUVIAL TOPSOIL (Assumed As Above, see p.1)
			0.5-1.0m RESIDUAL SAND w/ SILT (Assumed As Above, see p.1) - rocky at base.
More difficult digging in broken, blocky Granodiorite Bedrock at 1m.	1	SW, mod. hard, broken, blocky Grano-diorite	1.0-1.5m BROKEN, BLOCKY, HARD GRANODIORITE BEDROCK. SW, mod. hard, broken, med.-crs. blocky granodiorite bedrock. Occasional lense of broken grey, f.grained diorite. Rock is angular, blocky with major fracture sets (3) at: 1. 087/90 2. 170/86 W 3. 160/14 NE Fracture sets mutually orthogonal, fresh, smooth to rough, undulating to planar, well developed, frax. spaced 5-15 cm.
	1.5	Bottom.	1.5m Refusal in broken Granodiorite. (rippable)
	2		

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TEST PIT LOG

TEST PIT No. 9222-D
SHEET 3 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 41-52m
DATE SEPT. 21/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-0.5m SILTY COLLUVIAL TOPSOIL (As Above, see p. 1)
	0.5		0.5 - ~1.2m RESIDUAL, HW SAND, some V. FINE GRAVEL. Orange, dry, loose, granular, HW, residual SAND w/ some v. fine gravel and trace (~10%) silt. Mat'l is v. uniform, well drained.
	1		
	~1.2	HW, weak, friable Grano-diorite	~1.2-1.5m WEAK, BADLY BROKEN GRANODIORITE BEDROCK. HW, weak, friable, well fractured, badly broken Granodiorite Bedrock. Limonite (iron oxidation) throughout rock. Decrease weathering w/ depth. incr. rock strength. Est. hardness R1-R2 at bottom of trench.
	1.5	Bottom	
	2		

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TEST PIT LOG

TEST PIT No. 9222-D
SHEET 4 of 4

PROJECT CASINO
PROJECT No. 1831
LOCATION OF TEST PIT N-S SECTION at 150° BRG.*
GROUND ELEVATION
DATE SEPT 21/93 CH. 0 - 50m (North End to South End)
LOGGED BY MDG.

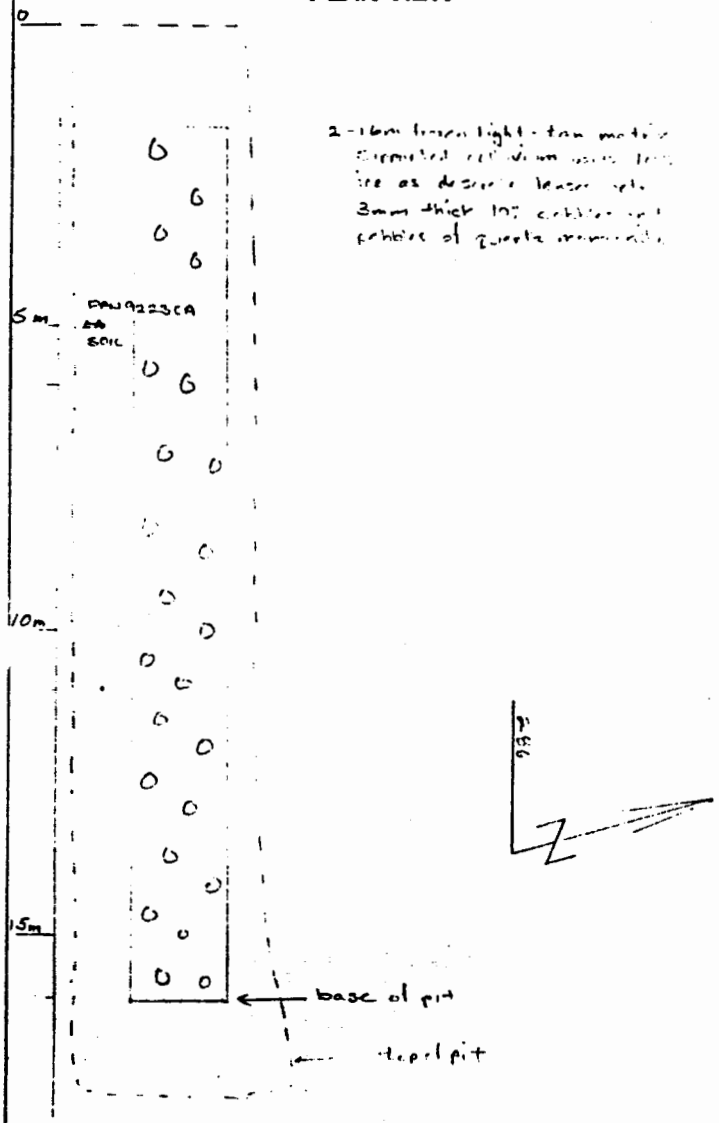
NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC *N-S SECTION is NEW Trench cut. Very easy digging in silty colluvial topsoil and residual sandy soil.	0 9222-D2 (matrix only) CH. 40m 0.6 Residual sand pinches out to 0m at CH. 25m downslope → Approx. 1m silty colluvial topsoil over broken blocky Granodiorite Rock from CH. 25-50m. 1 Refusal at approx. 1.6m along N-S portion of trench in fresh, hard blocky Granodiorite. 1.6 2	HW FR Broken, cls. blocky Grano-diorite Bedrock	0-0.6m SILTY COLLUVIAL TOPSOIL w/ ORGANICS Brown, firm, slightly moist silt w/ some v. fine sand, gravel, cobbles and organics (roots throughout). Estimate 10-20% gravel and cobble clasts comprising SW, hard, sub-angular granodiorite rock frags. 0.6-1.0m RESIDUAL SAND, some VERY FINE GRAVEL ** Orangish brown residual SAND w/ some very fine gravel and trace silt. Mat'l is crs granular, well drained, dry and loose. Contains some granodiorite rock frags. From 5-10 cm dia. (Est. varies from 10-30% along N-S portion of trench). 1.0m-1.6m BROKEN, BLOCKY, FRESH, HARD GRANODIORITE BEDROCK Slightly broken, fresh, v. hard, blocky crs. grained Granodiorite Bedrock. Some zones contain approx. 20% residual sand infill along fractures. Fractures are well developed into three (3) mutually perpendicular sets + Two sets are steeply dipping and trend parallel & perpendicular to the trench alignment. The third set is shallowly dipping. ** Note: Residual sand pinches out downslope to the South to only 0.2m thick and grades to residual gravelly sand.

PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

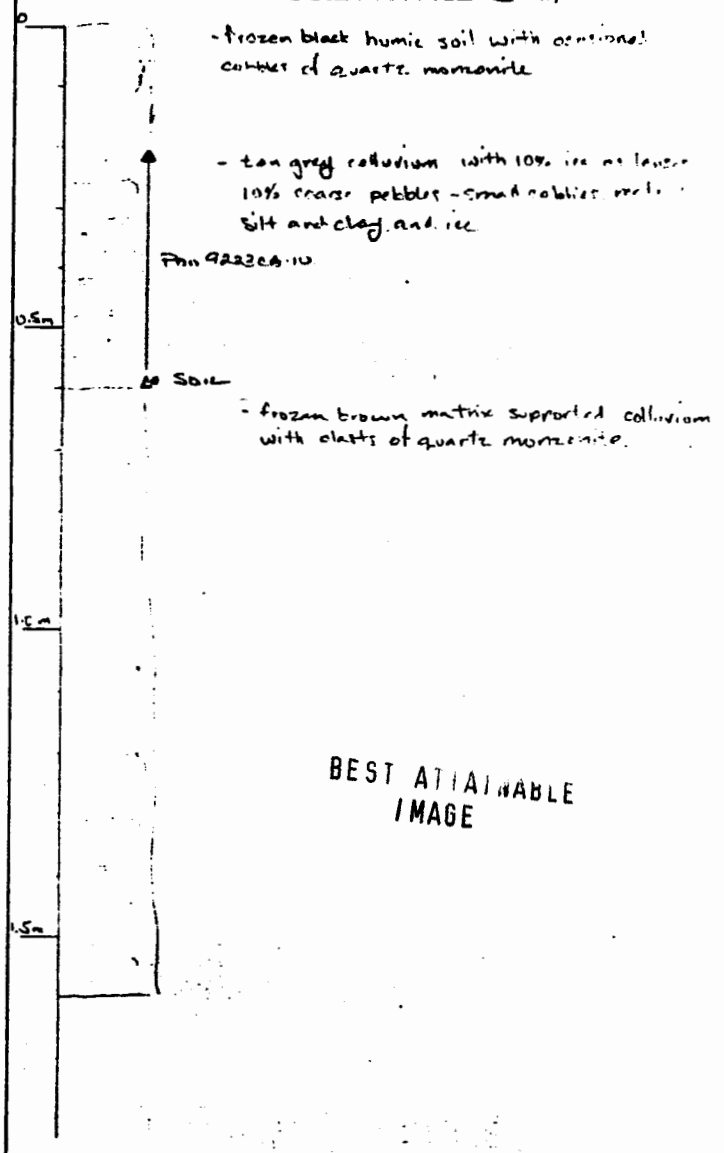
LEASE NO.: 9223
CREEK: CASINO
TYPE: BENCH

PIT NUMBER: 9223CA	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: 2
EASTING:	EQUIPMENT COST: @$130/hr = $ 260
STARTED: September 15, 1993	LABOUR COST: 1 hrs @$26.25/hr = $ 26.25
FINISHED: September 30, 1993	TOTAL EXPENDITURE: $ 286.25

PLAN VIEW



SOIL PROFILE @ 5m



- frozen black humic soil with occasional cobbles of quartz. mamonite

- tan grey colluvium with 10% ice as lenses 10% coarse pebbles - small cobbles rock silt and clay and ice

- frozen brown matrix supported colluvium with clasts of quartz monzonite.

BEST ATTAINABLE IMAGE

COMMENTS: Frozen trench. No fluvial or glacial material discovered. Bedrock not reached.

SAMPLE NUMBERS: PAN 9223CA-5, SOIL S14363

PANNING CONCENTRATE DESCRIPTION: PAN 9223CA-5 was collected from frozen clay colluvium with quartz monzonite clasts. The concentrate consists of 90% fine quartz sand — 9% magnetite and [illegible]

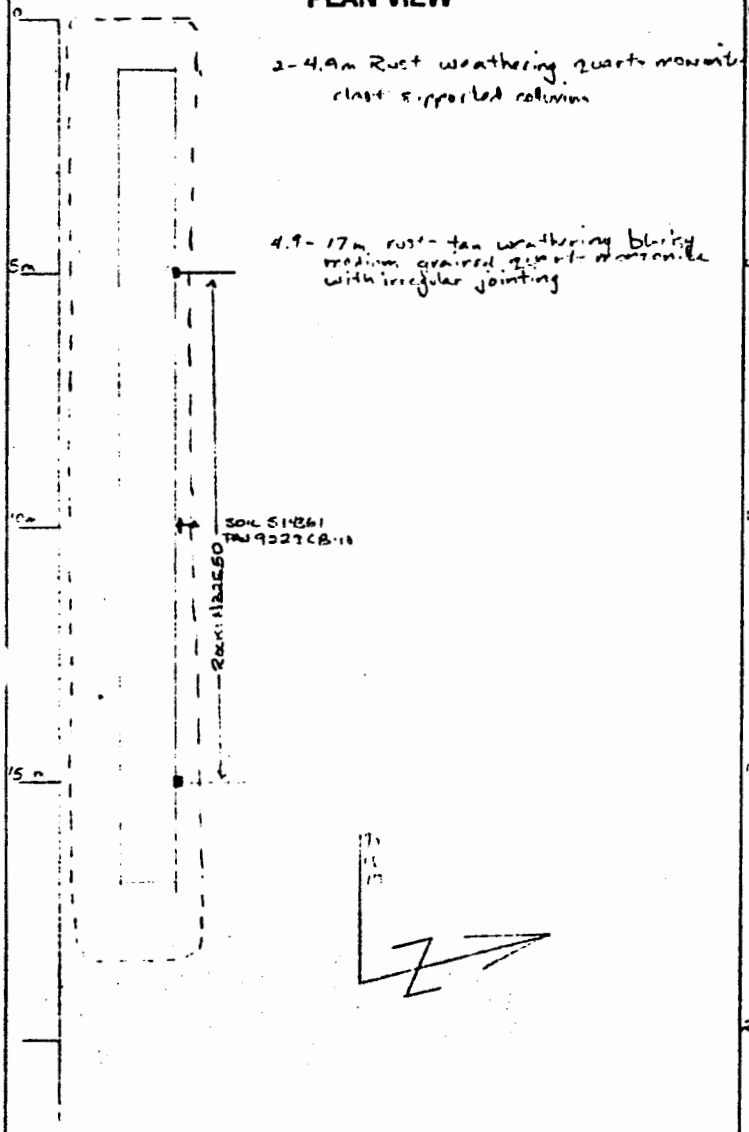
PLACER TEST PIT DESCRIPTION
CASINO PROPERTY

LEASE NO.: 9223
CREEK: CASINO
TYPE: BENCH

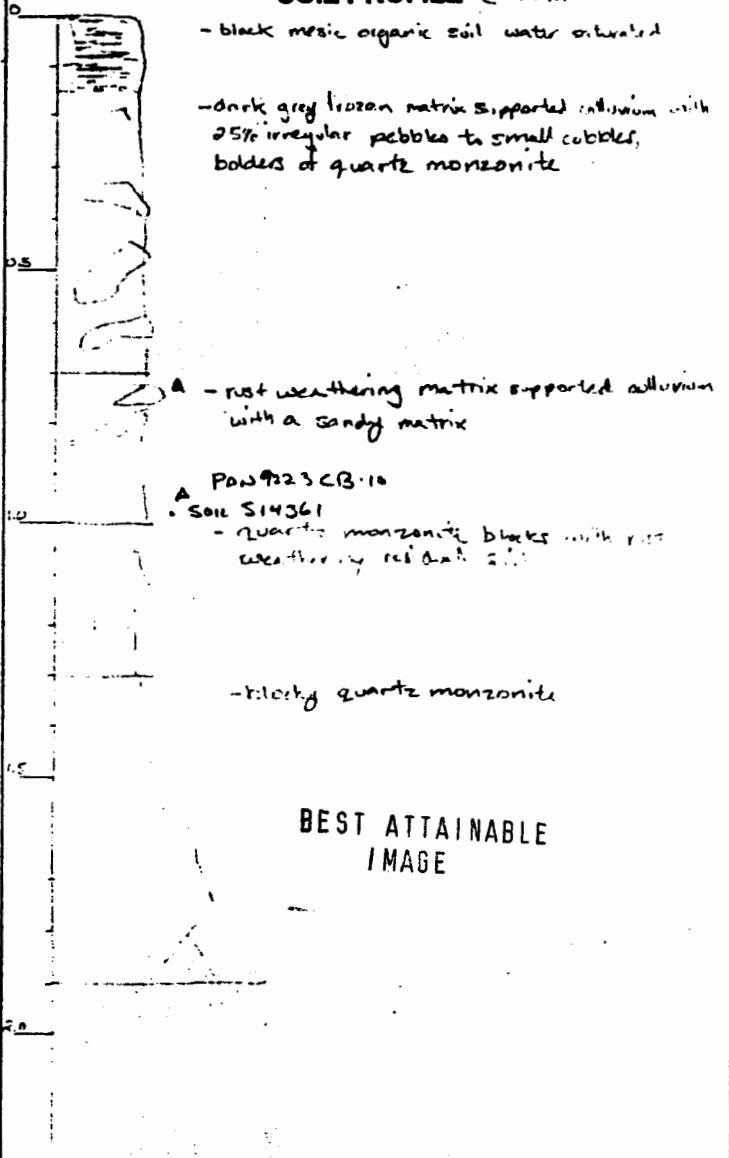
PIT NUMBER: 9223 CB	EQUIPMENT TYPE: Hitachi Hoe
NORTHING:	EQUIPMENT HOURS: 1 HR
EASTING:	EQUIPMENT COST: @ 130/HR = $130
STARTED: September 15, 1993	LABOUR COST: 1.5 MES @ $26.25 / HR = $39.38
FINISHED: September 30, 1993	TOTAL EXPENDITURE: $169.38

PLAN VIEW

SCALE 1:150



SOIL PROFILE @ 10m



BEST ATTAINABLE IMAGE

COMMENTS: No glacial or fluvial material

SAMPLE NUMBERS: Rock #32550 SOIL S14361 PAN 9223CB-10

PANNING CONCENTRATE DESCRIPTION: PAN: 9223CB-10 was collected at the base of colluvium overlying in-situ weathered quartz monzonite. The pan concentrate consists primarily of fine quartz sand [illegible]

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TEST PIT LOG

TEST PIT No. 9223-D
SHEET 1 of 3

PROJECT CASINO.
LOCATION OF TEST PIT CH. 0-50m
DATE Sept. 26/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0 0.3 0.6 1 1.5 2	FR-SW V. coarse blocky crs. grav. Grano-diorite Bedrock w/ some residual sand matrix between blocks.	Surface: abundant thick stand of very tall spruce trees & some paper birch. Thick stand of timber. Also some willows. Very thin (~10 cm) moss cover. Veg. material abundant, very thin ~30 cm root system. - slope not frozen. good drainage material. Well drained, dry, due to steepness of slope and nature of weathered granodiorite 0-0.3m Silty topsoil w/ organics orange sandy silt w/ some fine gravel w/ some layers of brown clayey silt. Trace very fine organics (roots) throughout. Mat'l is soft, dry, uniform fine grained silty topsoil. 0.3-0.6 m Residual sand Reddish brown, loose, slightly moist. coarse residual sand w/ some very fine gravel, trace (~5%) silt. Typical HW, residual sandy material. Particles comprise HW decomposed coarse grained granodiorite fragments of quartz, feldspar, hornblende Also some (~20%) HW, granular rock fragments to 5cm diameter

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TEST PIT LOG

TEST PIT No. 9223-D
SHEET 2 of 3

PROJECT CASINO.
LOCATION OF TEST PIT CH 0-50m.
DATE Sept. 26/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL (cont'd)
			0.6 - 1.5 m FRESH, BLOCKY GRANODIORITE BEDROCK Very coarse blocky, fresh to SW, hard granodiorite bedrock w/ some reddish brown residual sand w/ some very fine gravel and silt matrix (approx 10-20 %). Blocks comprise coarse grain equigranular, biotite-rich granodiorite (salt & pepper). Trace limonite on rough, sub-planar fracture surface. Blocks are very hard (R6) coarse, angular and range from 0.2 - 0.8 m diameter. Residual sand occupies ~5-10 cm aperture openings between rock blocks. * → good potential source of competent coarse rockfill / rip rap. V. difficult excavation w/ hoe due to large block size but likely easily rippable w/ heavy equipment (D10 cat.)

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TEST PIT LOG

TEST PIT No. 9223-D
SHEET 3 of 3

'OJECT CASINO
LOCATION OF TEST PIT CH 50 - 100 m
DATE Sept. 26/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG.

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe, UH09LC.	0		0 - 0.3 m Silty topsoil as above (see p. 1, 2)
	0.3		alternating sections of: (estimate 50% of each soil profile)
	9223-D1		1.) 0.3m - 1.7m Residual sand w/ some silt and very fine gravel. Loose, slightly moist, very uniform
	* 0.6 (see description)		- excellent low k, dense compacted fill source
			- derived from heavy in-situ weathering of host intrusive granodiorite rock
	1		1.7 m Hard, SW, blocky Granodiorite Bedrock.
			* 2.) 0.3 - 0.6 m Residual sand, as above
			0.6 - 1.8 m blocky FR-SW, hard coarse gravel slightly broken, Granodiorite Bedrock w/ some residual sand infill between blocks (~20%)
	1.7	SW, Blocky, hard Granodiorite Bedrock.	→ Variable depth-of-weathering resulting in undulating bedrock surface. Bedrock depth varies from 0.6 - 1.7 m.
	2		

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TEST PIT LOG

TEST PIT No. 9223-E
SHEET 1 of 4

OJECT CASINO Rpt. 074° upslope
LOCATION OF TEST PIT CH. 0-30 m (E. end) upslope end.
DATE Sept. 26/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MJG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		Surface: Abundant, closely spaced tall white spruce w/ some paper birch and aspen. Very thin (~10 cm) moss and forest litter cover. Slope is steep, non-frozen. Materials well drained and dry.
Fairly easy digging in loose, broken fine blocky rock fragments. Trench is dry, non-frozen. Walls are very stable and vertical in broken rock	0.3		0.0-0.3m Organic Topsoil: Reddish-brown, loose, dry silt and roots w/ some fine sand and rock fragments from 1-3 cm diameter. Topsoil is well drained, fresh.
	1		0.3-1.3m Broken Rock w/ Residual Silty Sand: Orangish light brown, loose broken rock w/ some residual silty sand. Material comprises approx. 90% angular, moderately weathered, weak to moderately hard granodiorite rock fragments ranging from 2-5 cm diameter. Limonite on surface and pervasive. Rock is fine platy to blocky. Approx. 10% matrix of dry residual silty sand. - Material is well drained (high in-situ permeability) - Excellent potential source of random, fine rockfill
Difficult digging in blocky bedrock at approx. 1.3m	1.3	SW-MW Blocky diorite bedrock	1.3-1.6 m Blocky Diorite (?) Bedrock: Blocky, SW-MW, moderately hard (R3), fine grained diorite (?) bedrock. Blocks are orthogonal, angular, range from 5-10 cm dia.
	1.6	Bottom	
	2		

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TEST PIT LOG

TEST PIT No. 9223-E
SHEET 2 of 4

OJECT Casino
LOCATION OF TEST PIT CH. 20-34m
DATE Sept. 26/93

PROJECT No. 183
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH 09LC Very easy digging in colluvium and broken, fine blocky rock w/ residual silty sand on 0-1.5m Trench walls dry, materials well drained Difficult digging in broken bedrock + approx. 1.5m Refusal at 2.0m	0 Colluvium increases in thickness to ≈1.0m at CH. 34m (downslope) 0.6 1 1.5 2	MW-HW Blocky, weak Bedrock	0-0.6m Colluvium - Residual Silty Sand w/ Rock Fragments orangish light brown (rust coloured), medium dense, dry silty fine sand w/ some very fine gravel and trace organics (matrix approx. 70%), supporting mw, soft-moderately hard diorite rock frags. Rock frags. are very angular, limonite stained throughout and range from 2-8 cm dia. → Colluvium - mixture of residual soil and broken rock w/ organics transported downslope. Material is very poorly sorted, massive. 0.6-1.5m Weathered, Fine Blocky Broken Rock orange (limonite stained throughout) mw-Hw, very fine blocky broken diorite rock fragments w/ trace residual silty sand. Rock fragments are elongated, weak, apparently sheared, range from 0.5-3cm dia. weathered, broken rock is crumbly. Estimated very high in-situ permeability 1.5-2.0m mw-Hw, Blocky, Weak Bedrock orange, soft, mw-Hw, blocky diorite bedrock. Rock fragments are angular, blocky, from 2-7 cm dia. well developed, planar, smooth fractures at: 1. 000/80 S 2. 140/64 W 3. 175/44 E } Limonite on surface spacing 2-5 cm planar, smooth. Apparent stear, slickensides smalled to 2

Bottom.

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TEST PIT LOG

TEST PIT No. 9223-E
SHEET 3 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH 34-43m.
DATE Sept. 26/93.

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MDG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC Very easy digging in dry, medium dense colluvium and loose residual gravelly sand on 0-1.6m	0		0-0.9m Brown, Silty, Cobbly Colluvium Brown, dry, firm very fine sandy silt matrix (approx. 60%), supporting large gravel to cobble size diorite rock fragments. Rock is SW, hard, angular, range from 2-10cm dia. (approx. 40% of material). Trace organics. → Colluvium (stoney) - material is dry. Fines are non-plastic - estimated moderately low permeability.
	0.9		0.9-1.6m HW, Residual Gravelly Sand orange, HW, loose, crumbly friable residual fine gravelly sand w/ trace silt. Particles are very angular, weak and friable. Material is well drained, dry. - good, dense, low permeability compacted fill material. - residual, weathered material accumulated locally along flatter portions of slope. (steep slope sections characterized by colluvium overlying broken, weathered bedrock.)
	9223-E2 1		
Difficult digging in broken bedrock, moderate easily rippable	1.6	HW, blocky Bedrock	1.6-1.8m HW, Badly Broken Bedrock orange, HW, blocky, sheared, weak bedrock. Diorite (?) Limonite stained pervasive and on fracture surface.
	1.8	Bottom	
	2		

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TEST PIT LOG

TEST PIT No. 9223 -E
SHEET 4 of 4

PROJECT CASINO
LOCATION OF TEST PIT CH. 43-65 m (West, downslope end)
DATE Sept. 26/93

PROJECT No. 1831
GROUND ELEVATION
LOGGED BY MAG

NOTES Groundwater level, difficulty in digging, equipment used, etc.	DEPTH (m)	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION OF MATERIAL
Hitachi backhoe UH09LC	0		0-1.0 m Colluvium Brown colluvium, as above (see p.3). well graded sandy silt w/ some fine gravel matrix (~60%), supporting gravel-cobble size rock fragments (~40%)
	9223-E1		1.0-1.6 m Broken, MW Rock Fragments Broken, MW, moderately hard, fine-med. blocky (diorite?) rock fragments w/ trace (~5%) residual sand. Rock fragments are angular, limonite stained, range from 0.5-3 cm dia.
	1		1.6 m MW, Blocky Bedrock Broken, blocky, moderately hard Diorite (?) bedrock
Very difficult digging in broken bedrock at 1.6 m	1.6	MW, blocky Bedrock	
		Bottom	
	2		

APPENDIX XII

GSC DOWNHOLE GEOTHERMAL GRADIENT SURVEY

093190

093I/00-63760
093I/90
APPENDIX 12
c.1

Energy, Mines and Resources Canada
Geological Survey of Canada

Pacific Geoscience Centre
9860 West Saanich Road
P.O. Box 6000
Sidney, B.C.
V8L 4B2

Energie, Mines et Ressources Canada
Commission géologique du Canada

Centre géoscientifique du Pacifique
9860, chemin Saanich ouest
C.P. 6000
Sidney, C.-B.
V8L 4B2

Recycled

Your file Votre référence

Our file Notre référence

August 16, 1993

Mr. Frank Gish
Archer Cathro and Associates
P.O. Box 4127
Whitehorse, Yukon
Y1A 3S9

Dear Frank,

Enclosed are the listings of temperatures for the four holes that we measured for heat flow at Casino in July. Also included are plots of temperature vs. depth for each hole. Thermal gradients for the two deepest holes, 168 and 162 (703-2 and 703-4) are quite consistent at 20 and 23°C/km respectively. The gradients for the two shallow holes are less reliable, especially hole 124 (703-1). There is also a list of the core samples which we took for our thermal conductivity measurements.

Finally, there is a list of all the holes that we attempted to log, including those not used for heat flow, the depths at which they were blocked, the temperatures measured at the bottom, and approximate water depths. Collar elevations ranged from 1150 to 1375 m asl. The depth from surface to the water table varied considerably, from 3 to 170 m, and permafrost was present at depths from 3 to 72 m. Therefore ice plugged the tops of many holes we attempted to log, but we successfully logged five holes where the water table was below the lower boundary of permafrost. Blockages could be due to ice or caving rock, but we are assuming that the blockages at temperatures less than 0°C to be ice.

The presence or absence of ice-bonded rock may have an effect on the methods of mining and/or milling this deposit. Drilling or mining operations penetrating the boundary of ice-bonded rock into warmer areas may produce large amounts of ground water. The amounts of explosives needed to break up the rock may vary, depending on the amount of bonding by ice, so knowing the position of the water table will be important.

Canada

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Geological Survey of Canada
150 Years of Service to the Nation

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Commission géologique du Canada
Au service de la nation depuis 150 ans

I would like to take this opportunity to thank you for your generous hospitality. We are very grateful for your assistance in choosing the holes to log, and for the use of a vehilcle for our work. We look forward to future cooperation.

Sincerely,

Wanda Bentkowski

Wanda Bentkowski

Attempted Holes
(temperature and water depth information)

Hole #	Depth(m)	Permafrost?	Temp.(°C)	Water Depth (m)
124	108.4	n		< 10
154	30.3	y ice on cable	-.452	30.3
165	8	y	-.076	8
168	570.2	n		150.4
152	3	y?	.001	3?
139	8.6	n	.376	?
163	72.3	y	-.026	72.3
151	5.6	y?	-.010	5.6?
175	284.5	n		170.5
157	3	n?	.056	3?
153	24	y	-.581	24
155	4	n	.353	?
162	418.5	n		50.7
132	262.0	n		170.5

(although this hole was relatively deep, the temperatures were almost isothermal and therefore it is of no value for heat flow)

CASINO
Core Samples (in metres)

Hole 124 (703-1)

14.2	35.4	55.2	71.8	80.8	91.4	108.6
25.3	46.8	66.8				

Hole 168 (703-2)

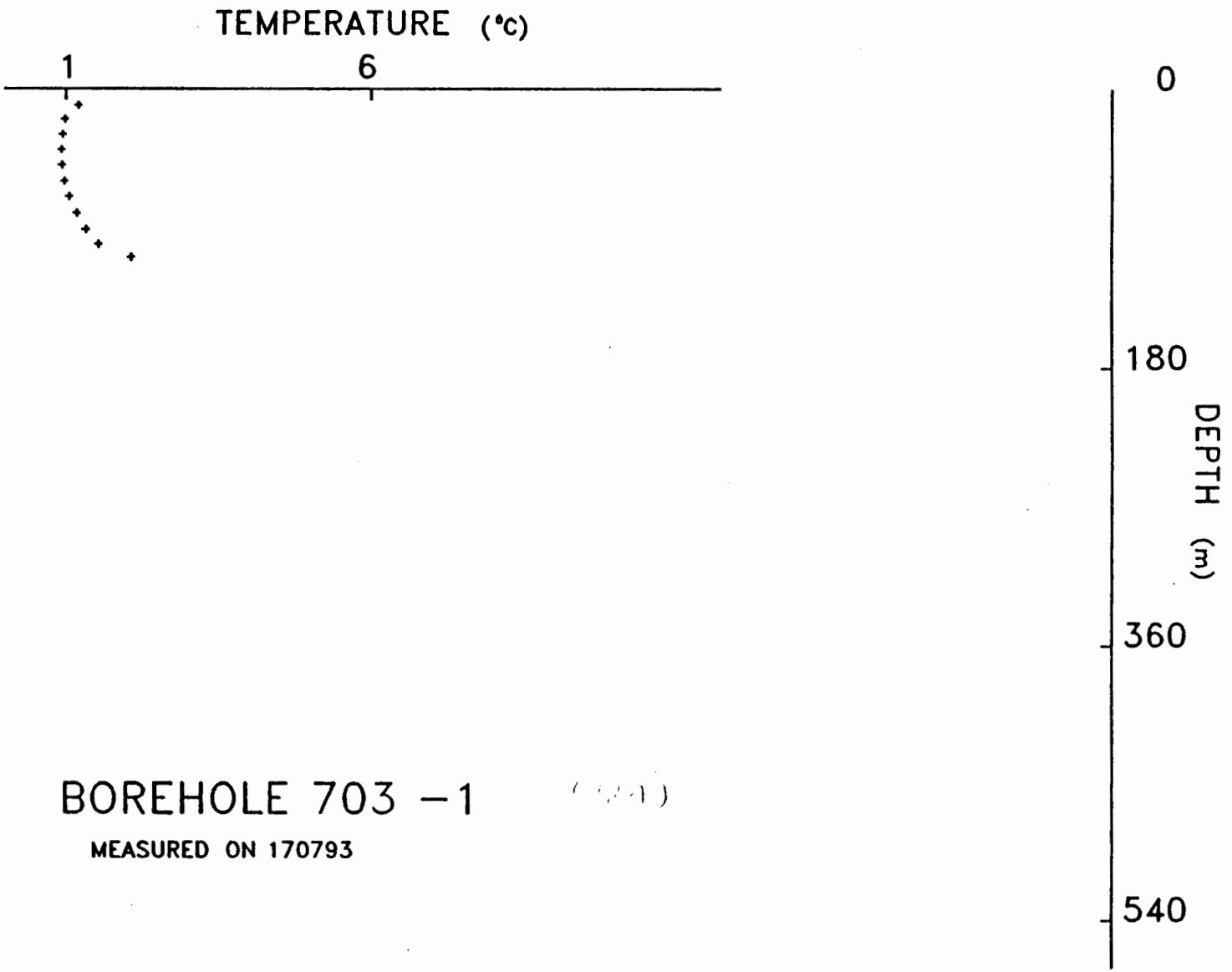
196.1	256.8	316.2	376.4	423.7	473.7	526.4
206.4	266.2	326.1	387.0	436.3	486.6	537.2
218.8	275.7	336.4	396.5	444.8	493.7	544.8
225.5	286.2	346.8	407.5	457.6	505.2	556.7
236.3	296.0	357.0	417.4	467.0	514.9	566.3
247.2	306.7	363.8				

Hole 175 (703-3)

174.6	198.5	215.3	235.6	254.0	275.5	283.7
186.1	207.0	226.0	246.9	266.0		

Hole 162 (703-4)

10.0	73.2	135.0	196.3	253.9	316.5	362.8
20.7	84.0	144.7	204.2	261.7	328.1	373.9
30.4	93.6	154.0	216.0	274.8	336.6	384.0
41.1	101.4	164.6	226.2	284.3	347.4	391.6
53.5	112.0	174.2	236.0	294.9	351.4	403.2
62.0	124.6	184.3	244.2	306.8		



BOREHOLE 703 –1

MEASURED ON 170793

1 LENGTH(M) AND 11 TEMPERATURES(DEG C) FOR BOREHOLE 703 -1 MEASURED ON 170793

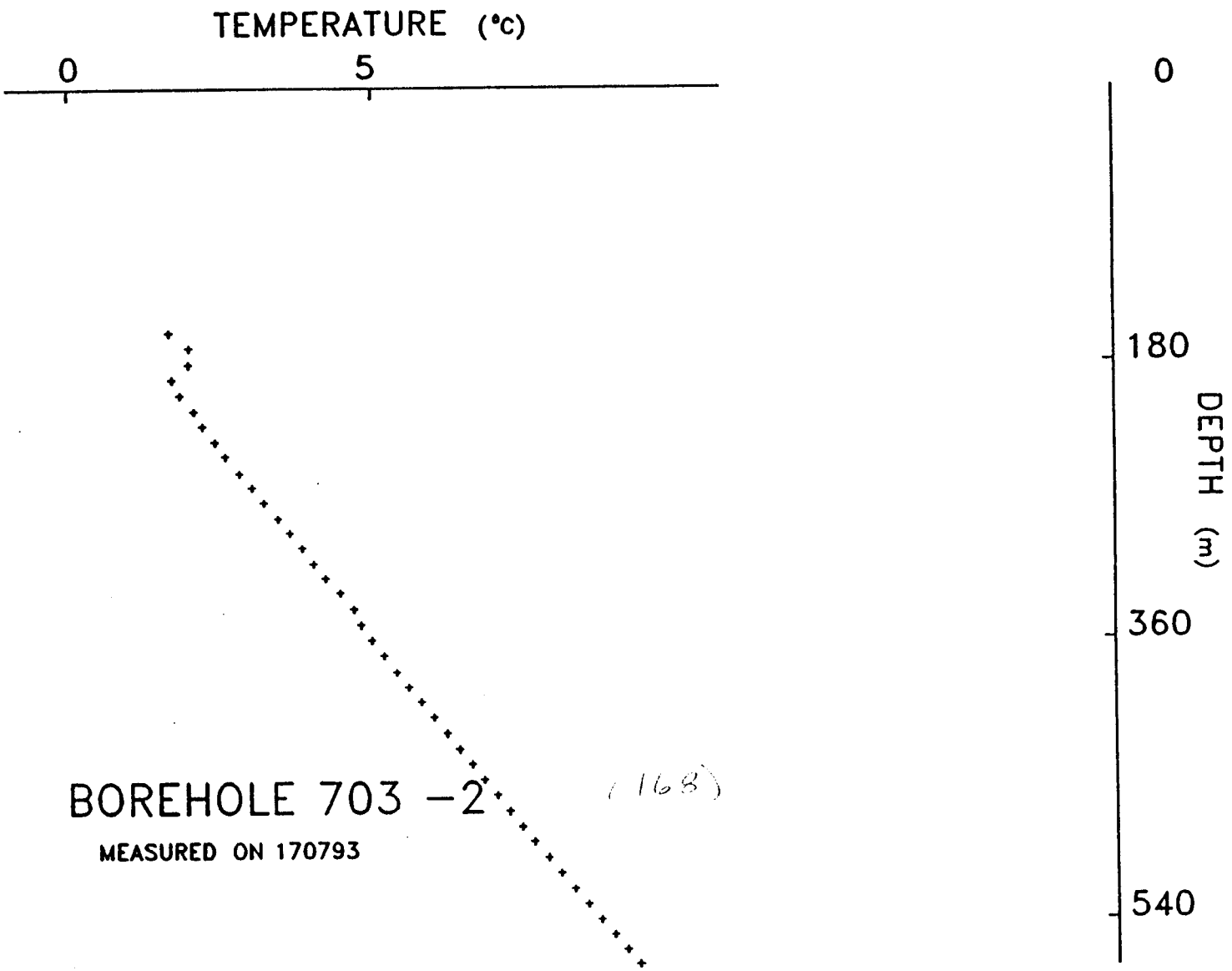
LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
10.7	1.202	108.4	2.068	.0	.000	.0	.000	.0	.000
20.0	.984	.0	.000	.0	.000	.0	.000	.0	.000
30.0	.943	.0	.000	.0	.000	.0	.000	.0	.000
39.8	.928	.0	.000	.0	.000	.0	.000	.0	.000
49.7	.933	.0	.000	.0	.000	.0	.000	.0	.000
60.2	.974	.0	.000	.0	.000	.0	.000	.0	.000
69.9	1.056	.0	.000	.0	.000	.0	.000	.0	.000
80.3	1.172	.0	.000	.0	.000	.0	.000	.0	.000
90.5	1.322	.0	.000	.0	.000	.0	.000	.0	.000
100.3	1.528	.0	.000	.0	.000	.0	.000	.0	.000

DIP CORRECTION COMPLETED

1.57 RAD, .0 M 1.55 RAD, 306.9 M

1 LENGTH(M) AND 11 TEMPERATURES(DEG C) FOR BOREHOLE 703 -1 MEASURED ON 170793

LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
10.7	1.202	108.4	2.068	.0	.000	.0	.000	.0	.000
20.0	.984	.0	.000	.0	.000	.0	.000	.0	.000
30.0	.943	.0	.000	.0	.000	.0	.000	.0	.000
39.8	.928	.0	.000	.0	.000	.0	.000	.0	.000
49.7	.933	.0	.000	.0	.000	.0	.000	.0	.000
60.2	.974	.0	.000	.0	.000	.0	.000	.0	.000
69.9	1.056	.0	.000	.0	.000	.0	.000	.0	.000
80.3	1.172	.0	.000	.0	.000	.0	.000	.0	.000
90.5	1.322	.0	.000	.0	.000	.0	.000	.0	.000
100.3	1.528	.0	.000	.0	.000	.0	.000	.0	.000


TEMPERATURE (°C)
0
5
0
180
360
540
DEPTH (m)
BOREHOLE 703 −2
MEASURED ON 170793
(168)

LENGTH(M) AND 43 TEMPERATURES(DEG C) FOR BOREHOLE 703 -2 MEASURED ON 170793

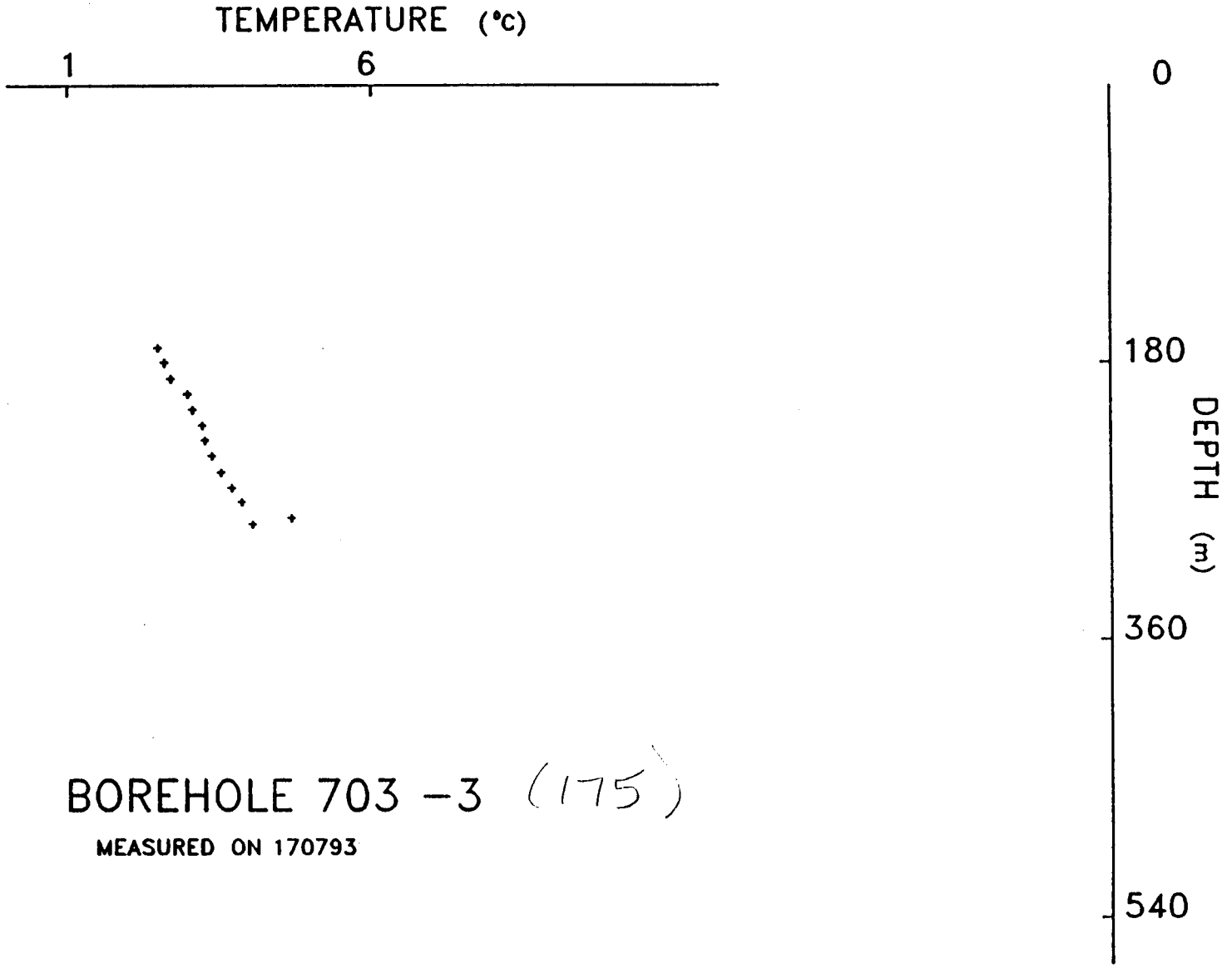
LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
160.3	1.644	260.2	2.995	360.4	4.950	460.2	6.975	560.5	9.088		
170.2	1.973	270.1	3.191	370.3	5.148	470.5	7.177	570.1	9.292		
180.7	1.962	280.6	3.419	380.8	5.348	480.3	7.384	570.2	9.296		
190.6	1.687	290.4	3.614	390.4	5.542	490.1	7.576	.0	.000		
200.3	1.822	300.2	3.818	400.1	5.744	500.1	7.805	.0	.000		
210.6	2.051	310.5	4.002	410.0	5.953	510.1	8.012	.0	.000		
220.4	2.195	320.1	4.197	420.5	6.165	520.6	8.229	.0	.000		
230.5	2.396	329.7	4.439	430.6	6.367	530.5	8.451	.0	.000		
240.0	2.563	340.5	4.662	440.1	6.568	540.3	8.668	.0	.000		
250.7	2.796	350.5	4.774	450.2	6.764	550.5	8.888	.0	.000		

DIP CORRECTION COMPLETED

1.57 RAD, .0 M 1.56 RAD, 154.5 M
1.57 RAD, 306.9 M 1.56 RAD, 569.0 M

LENGTH(M) AND 43 TEMPERATURES(DEG C) FOR BOREHOLE 703 -2 MEASURED ON 170793

LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
160.3	1.644	260.2	2.995	360.4	4.950	460.2	6.975	560.5	9.088		
170.2	1.973	270.1	3.191	370.3	5.148	470.5	7.177	570.1	9.292		
180.7	1.962	280.6	3.419	380.8	5.348	480.3	7.384	570.2	9.296		
190.6	1.687	290.4	3.614	390.4	5.542	490.1	7.576	.0	.000		
200.3	1.822	300.2	3.818	400.1	5.744	500.1	7.805	.0	.000		
210.6	2.051	310.5	4.002	410.0	5.953	510.1	8.012	.0	.000		
220.4	2.195	320.1	4.197	420.5	6.165	520.6	8.229	.0	.000		
230.5	2.396	329.7	4.439	430.6	6.367	530.5	8.451	.0	.000		
240.0	2.563	340.5	4.662	440.1	6.568	540.3	8.668	.0	.000		
250.7	2.796	350.5	4.774	450.2	6.764	550.5	8.888	.0	.000		



BOREHOLE 703 -3 (175)

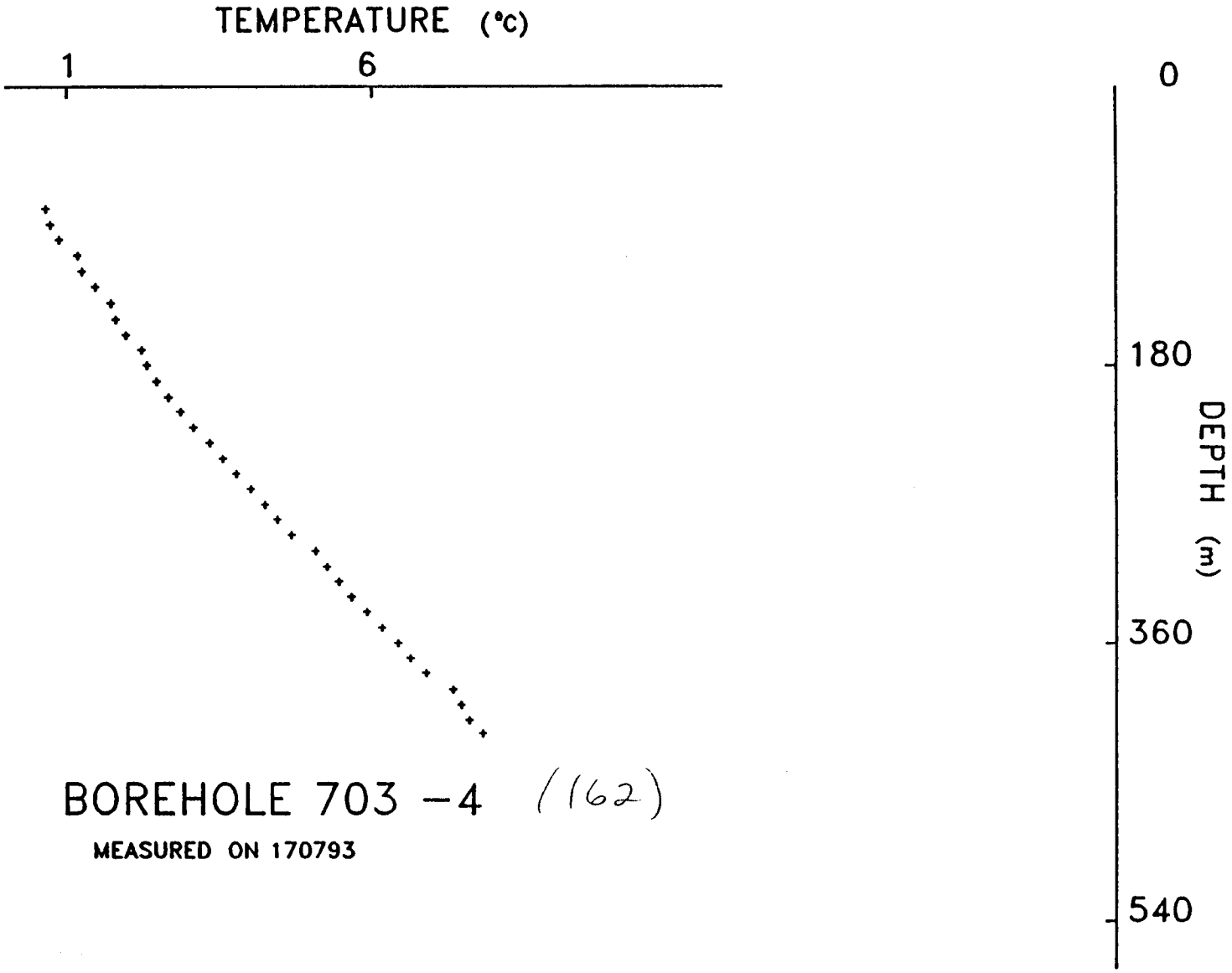
MEASURED ON 170793

1 LENGTH(M) AND 13 TEMPERATURES(DEG C) FOR BOREHOLE 703 -3 MEASURED ON 170793

LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
170.5	2.458	270.0	3.827	.0	.000	.0	.000	.0	.000
180.3	2.562	280.5	4.653	.0	.000	.0	.000	.0	.000
190.6	2.674	284.5	4.007	.0	.000	.0	.000	.0	.000
200.3	2.948	.0	.000	.0	.000	.0	.000	.0	.000
210.5	3.020	.0	.000	.0	.000	.0	.000	.0	.000
220.7	3.185	.0	.000	.0	.000	.0	.000	.0	.000
230.1	3.227	.0	.000	.0	.000	.0	.000	.0	.000
240.2	3.342	.0	.000	.0	.000	.0	.000	.0	.000
250.9	3.493	.0	.000	.0	.000	.0	.000	.0	.000
260.7	3.665	.0	.000	.0	.000	.0	.000	.0	.000

1 LENGTH(M) AND 13 TEMPERATURES(DEG C) FOR BOREHOLE 703 -3 MEASURED ON 170793

LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
170.5	2.458	270.0	3.827	.0	.000	.0	.000	.0	.000
180.3	2.562	280.5	4.653	.0	.000	.0	.000	.0	.000
190.6	2.674	284.5	4.007	.0	.000	.0	.000	.0	.000
200.3	2.948	.0	.000	.0	.000	.0	.000	.0	.000
210.5	3.020	.0	.000	.0	.000	.0	.000	.0	.000
220.7	3.185	.0	.000	.0	.000	.0	.000	.0	.000
230.1	3.227	.0	.000	.0	.000	.0	.000	.0	.000
240.2	3.342	.0	.000	.0	.000	.0	.000	.0	.000
250.9	3.493	.0	.000	.0	.000	.0	.000	.0	.000
260.7	3.665	.0	.000	.0	.000	.0	.000	.0	.000



BOREHOLE 703 −4 (162)

MEASURED ON 170793

1 LENGTH(M) AND 35 TEMPERATURES(DEG C) FOR BOREHOLE 703 -4 MEASURED ON 170793

LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
80.3	.644	180.0	2.297	280.5	4.433	379.9	6.862	.0	.000
90.5	.713	190.3	2.457	290.2	4.664	390.4	7.303	.0	.000
100.1	.858	200.6	2.654	300.5	5.056	400.5	7.438	.0	.000
110.2	1.160	210.1	2.843	310.8	5.242	410.1	7.566	.0	.000
120.2	1.227	220.3	3.059	320.4	5.438	418.5	7.791	.0	.000
130.2	1.451	230.4	3.325	330.4	5.645	.0	.000	.0	.000
140.2	1.706	240.4	3.541	340.0	5.901	.0	.000	.0	.000
150.6	1.783	250.4	3.756	350.4	6.148	.0	.000	.0	.000
160.5	1.955	260.3	4.000	360.4	6.405	.0	.000	.0	.000
170.3	2.210	270.7	4.227	370.3	6.609	.0	.000	.0	.000

DIP CORRECTION COMPLETED

1.57 RAD, .0 M 1.55 RAD, 154.5 M
1.56 RAD, 300.8 M 1.54 RAD, 425.8 M

1 LENGTH(M) AND 35 TEMPERATURES(DEG C) FOR BOREHOLE 703 -4 MEASURED ON 170793

LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.	LENGTH	TEMP.
80.3	.644	180.0	2.297	280.5	4.433	379.9	6.862	.0	.000
90.5	.713	190.3	2.457	290.2	4.664	390.4	7.303	.0	.000
100.1	.858	200.6	2.654	300.5	5.056	400.5	7.438	.0	.000
110.2	1.160	210.1	2.843	310.8	5.242	410.1	7.566	.0	.000
120.2	1.227	220.3	3.059	320.4	5.438	418.5	7.791	.0	.000
130.2	1.451	230.4	3.325	330.4	5.645	.0	.000	.0	.000
140.2	1.706	240.4	3.541	340.0	5.901	.0	.000	.0	.000
150.6	1.783	250.4	3.756	350.4	6.148	.0	.000	.0	.000
160.5	1.955	260.3	4.000	360.4	6.405	.0	.000	.0	.000
170.3	2.210	270.7	4.227	370.3	6.609	.0	.000	.0	.000